

TABLE 1
TUTTLE L 63N66W/17SE NW PRODUCTION FACILITY
2019 EXCAVATION SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾			-	0.17	85	100	175	500		
B01@13'	02/13/19	13	NM	<0.050	<0.050	0.132	3.00	143	256	<100
B02@14'	02/13/19	14	NM	<0.050	<0.050	<0.050	0.179	64.1	133	<100
N01@13'	02/15/19	13	922.7	<0.050	<0.050	0.066	0.668	50.1	34.7	<100
E01@13'	02/15/19	13	387.4	<0.050	<0.050	<0.050	0.186	34.4	<25.0	<100
B03@14'	02/15/19	14	64.3	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100
E03@13'	02/15/19	13	1,641	0.148	<0.050	0.156	1.03	119	35.7	<100
N03@13'	02/15/19	13	425.7	<0.050	<0.050	<0.050	<0.050	22.5	28.6	<100
B04@14'	02/15/19	14	25.3	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100
E05@13'	02/15/19	13	319	<0.050	<0.050	<0.050	0.106	37.3	27.0	<100
B05@15'	02/15/19	15	347	0.106	<0.050	<0.050	0.238	15.2	<25.0	<100
N05@13'	02/15/19	13	139.6	<0.050	<0.050	<0.050	0.146	18.0	<25.0	<100
N02@9'	02/15/19	9	29.6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
E02@9'	02/15/19	9	39.6	<0.002	<0.002	<0.002	<0.002	<0.200	39.6	<100
E04@9'	02/15/19	9	58.6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
N04@9'	02/15/19	9	29.4	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
E06@9'	02/15/19	9	14.8	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
N06@9'	02/15/19	9	27.4	0.003	<0.002	<0.002	0.016	1.00	<25.0	<100
B06@15'	02/19/19	15	597.8	<0.050	<0.050	<0.050	0.624	38.4	<25.0	<100
B07@15'	02/19/19	15	1,669	0.118	<0.050	<0.050	0.345	16.1	<25.0	<100
N07@13'	02/21/19	13	57.0	<0.002	<0.002	<0.002	<0.002	0.349	<25.0	<100
E07@13'	02/21/19	13	224.7	<0.002	<0.002	<0.002	<0.002	1.07	159	<100
B08@15'	02/21/19	15	69.0	<0.002	<0.002	<0.002	<0.002	5.41	<25.0	<100
N08@9'	02/21/19	9	14.7	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
E08@9'	02/21/19	9	18.3	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
S01@9'	02/22/19	9	NM	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
E10@9'	02/22/19	9	NM	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
B09@15'	02/22/19	15	NM	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100

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Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾			-	0.17	85	100	175	500		
S02@13'	02/22/19	13	NM	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
E09@13'	02/22/19	13	NM	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
S03@13'	02/25/19	13	399	<0.050	<0.050	<0.050	<0.050	8.79	<25.0	<100
B10@15'	02/25/19	15	2.8	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100
S04@9'	02/25/19	9	0.6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
B11@15'	02/26/19	15	430.7	<0.050	<0.050	<0.050	<0.050	34.5	32.9	<100
S05@13'	02/26/19	13	440.1	<0.050	<0.050	<0.050	<0.050	18.0	54.3	<100
S06@9'	02/26/19	9	9.8	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
W01@13'	02/27/19	13	1,407	<0.050	<0.050	<0.050	0.177	95.2	94.5	<100
N11@13'	02/27/19	13	553.7	<0.050	<0.050	<0.050	<0.050	40.7	44.9	<100
S08@9'	02/28/19	9	12.7	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
W03@9'	02/28/19	9	41.8	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
W04@9'	02/28/19	9	11.6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
N09@9'	02/28/19	9	5.1	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
N10@13'	02/28/19	13	487.6	1.29	<0.050	0.296	3.77	188	124	<100
S07@13'	02/28/19	13	9.1	0.224	<0.050	<0.498	<0.498	<5.00	<25.0	<100
W02@13'	02/28/19	13	1,318	1.20	<0.050	0.143	4.08	310	81.2	<100
B12@15'	02/28/19	15	887.4	0.174	<0.002	0.008	<0.002	5.17	<25.0	<100
N12@13'	02/28/19	13	653.7	1.30	<0.050	0.246	2.69	139	153	<100
B13@15'	02/28/19	15	58.6	<0.050	<0.050	<0.050	<0.050	14.5	<25.0	<100
B14@15'	03/01/19	15	5.3	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100
B15@15'	03/01/19	15	146.7	0.148	<0.050	<0.050	0.311	15.2	<25.0	<100
S09@13'	03/01/19	13	1.9	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
W07@13'	03/01/19	13	167.4	<0.002	<0.002	<0.002	<0.002	0.922	<25.0	<100
W08@13'	03/01/19	13	1,191	0.168	<0.050	0.203	3.84	197	148	<100
S10@9'	03/01/19	9	0.6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
W06@9'	03/01/19	9	0.8	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100

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COGCC standards for soil (mg/kg) ⁽¹⁾			-	0.17	85	100	175	500		
W10@9'	03/06/19	9	24.1	0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
N16@9'	03/06/19	9	8.2	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
E11@9'	03/06/19	9	0.3	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
N14@9'	03/06/19	9	3.4	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
B16@16'	03/06/19	16	0.7	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
W09@13'	03/06/19	13	1,417	<0.050	<0.050	0.282	4.64	126	82.1	<100
W11@13'	03/06/19	13	431.5	1.70	<0.050	0.214	1.93	101	<25.0	<100
B17@15'	03/06/19	15	712.5	0.374	<0.050	<0.050	0.148	14.0	<25.0	<100
N15@13'	03/06/19	13	197.4	<0.050	<0.050	<0.050	<0.050	18.1	66.5	<100
E12@13'	03/06/19	13	542.0	0.050	<0.050	<0.050	0.328	22.5	40.7	<100
N13@13'	03/06/19	13	351.6	0.450	<0.050	<0.050	0.213	19.7	<25.0	<100
N17@13'	03/11/19	13	497.6	0.151	<0.050	0.057	0.277	49.8	28.7	<100
W12@13'	03/11/19	13	197.6	0.126	<0.050	0.050	0.266	58.4	<25.0	<100
B18@15'	03/11/19	15	432.6	<0.050	<0.050	<0.050	<0.050	31.1	<25.0	<100
N18@9'	03/11/19	9	501.6	0.029	<0.002	0.003	0.015	5.22	<25.0	<100
W13@9'	03/11/19	9	54.6	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100
N19@13'	03/12/19	13	177.3	0.320	<0.050	0.056	0.279	48.5	51.6	<100
W14@13'	03/12/19	13	161.0	0.149	<0.050	<0.050	0.100	16.4	<25.0	<100
N20@13'	03/15/19	13	597.6	0.215	<0.050	<0.050	0.156	34.9	<25.0	<100
N21@13'	03/18/19	13	174.9	0.003	<0.002	<0.002	<0.002	0.945	<25.0	<100
N22@13'	03/18/19	13	579.6	0.012	<0.002	0.002	0.011	2.21	42.5	<100
B19@14.5'	03/18/19	14.5	111.2	<0.002	<0.002	<0.002	<0.002	0.251	<25.0	<100
N23@9'	03/18/19	9	11.1	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100
S12@13'	03/19/19	13	497.6	0.090	<0.050	<0.050	0.268	23.2	28.5	<100
W15@13'	03/19/19	13	1,201	<0.050	<0.050	<0.050	0.122	28.3	55.5	<100
S11@9'	03/19/19	9	287.6	0.003	0.009	<0.002	0.005	6.34	125	<100
E13@9'	03/21/19	9	2.1	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100

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COGCC standards for soil (mg/kg) ⁽¹⁾			-	0.17	85	100	175	500		

Notes:

(1) Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective May 1, 2018.

COGCC = Colorado Oil and Gas Conservation Commission

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

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

mg/kg = Milligrams per kilogram.

ft. bgs = Feet below ground surface.

BOLD = Analytical result is in exceedance of COGCC Table 910-1 soil standards

NM = Not measured

PID = Photoionization Detector

ppm = Parts per million