

Table 1
Soil Sampling Results
Margaret Spaulding (OWP) #2
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS01	SS02	SS03	SS01	COGCC Table 915-1 Standard	Units
	08/31/2021	08/31/2021	08/31/2021	Background 07/28/2021		
Sample Location	Wellhead	Flowline	Borehole (Form 27 COA)	Background	NA	NA
Latitude/Longitude	40.72597, -106.4985	40.72605, -106.4986	40.72598, -106.4984	40.71514, -106.4963	NA	NA
Laboratory ID	2109050-01	2109050-02	2109050-03	2107315-01	NA	NA
Depth	0-0.33	6.5	0-0.33	0-0.66	NA	feet bgs
PID	0.1	0.8	0.1	0.0	NA	ppm
Conductivity	0.675	0.548	0.931	0.286	<4	mmhos/cm
pH	7.71	7.97	7.55	5.60	6-8.3	pH units
SAR	2.99	4.47	0.57	0.16	<6	no units
Calcium	49.5	25.0	180	36.4	NA	mg/L
Magnesium	6.05	3.59	10.3	10.3	NA	mg/L
Sodium	83.8	90.3	28.9	4.22	NA	mg/L
Arsenic	5.54	6.21	5.80	2.04	0.68	mg/kg
Barium	245	207	178	146	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	<0.250	<0.250	<0.250	Not Analyzed	0.3	mg/kg
Total Chromium	15.7	15.3	28.9	25.0	NA	mg/kg
Copper	21.6	20.1	21.6	27.5	3100	mg/kg
Lead	11.4	<10.0	12.6	<10.0	400	mg/kg
Nickel	13.2	11.4	19.1	13.0	1500	mg/kg
Selenium	<20.0	21.3	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	70.1	47.4	53.8	64.8	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	456	11.5	62.6	<10.0	NA	mg/kg
TPH (EXT DRO)	321	<10.0	49.2	<10.0	NA	mg/kg
Total TPH	777	11.5	111.8	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.0750	<0.0250	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	30	mg/kg
Naphthalene	0.0263	<0.0250	<0.0250	<0.0250	2	mg/kg
2-methylnaphthalene	0.063	<0.023	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	0.072	<0.016	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	0.044	<0.014	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	0.349	0.103	<0.019	<0.019	240	mg/kg
Pyrene	0.599	0.110	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	0.250	0.045	<0.023	<0.023	1.1	mg/kg
Chrysene	0.312	0.040	0.146	<0.017	110	mg/kg
Benzo(b)fluoranthene	0.376	0.023	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	0.148	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	0.277	0.028	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	0.113	<0.017	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<0.019	<0.019	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
bgs - below ground surface
mmhos/cm - millihos per centimeter

mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission

* - Laboratory detection limit exceeds COGCC Standard
** - Value detected below the reporting limit; result is an estimate.

Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.

***Laboratory could only analyze for Total Chromium (not Chromium (IV)) prior to September 2021.