

Table 1
Soil Sampling Results
Margaret Spaulding (OWP) #14
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS01 08/31/2021	SS02 08/31/2021	SS03 08/31/2021	SS01 Background 07/28/2021	COGCC Table 915-1 Standard	Units
Sample Location	Wellhead	Pumping Unit	Flowline	Background	NA	NA
Latitude/Longitude	40.71741, -106.4991	40.71735, -106.4992	40.71758, -106.4989	40.71514, -106.4963	NA	NA
Laboratory ID	2109059-01	2109059-02	2109059-03	2107315-01	NA	NA
Depth	3.5	0-0.66	3.5	0-0.66	NA	feet bgs
PID	0.1	0.4	63.7	0.0	NA	ppm
Conductivity	0.493	0.617	1.510	0.286	<4	mmhos/cm
pH	7.36	7.50	7.23	5.60	6-8.3	pH units
SAR	1.14	0.36	3.41	0.16	<6	no units
Calcium	61.3	94.5	164	36.4	NA	mg/L
Magnesium	6.30	12.9	12.1	10.3	NA	mg/L
Sodium	35.2	14.0	168	4.22	NA	mg/L
Arsenic	5.75	4.89	2.77	2.04	0.68	mg/kg
Barium	716	129	112	146	15000	mg/kg
Cadmium	7.84	<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	53.6	18.3	19.8	25.0	NA	mg/kg
Copper	22.8	30.0	17.6	27.5	3100	mg/kg
Lead	474	40.1	11.4	<10.0	400	mg/kg
Nickel	26.0	12.4	11.6	13.0	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	67.6	194	87.6	64.8	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	85.8	<10.0	NA	mg/kg
TPH (DRO)	311	259	531	<10.0	NA	mg/kg
TPH (EXT DRO)	181	186	191	<10.0	NA	mg/kg
Total TPH	492	445	807.8	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	0.0353	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	0.234	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	2.00	<0.0250	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	0.530	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	2.12	<0.0250	30	mg/kg
Naphthalene	<0.0250	<0.0250	0.634	<0.0250	2	mg/kg
2-methylnaphthalene	0.028	<0.023	1.12	<0.023	24	mg/kg
1-methylnaphthalene	0.026	<0.016	0.842	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	0.043	<0.014	0.144	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	<0.019	<0.019	240	mg/kg
Pyrene	0.414	<0.013	0.063	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<0.023	<0.023	1.1	mg/kg
Chrysene	0.811	<0.017	0.140	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	0.908	<0.018	0.166	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<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.