

Table 1
Soil Sampling Results
Underwood Ditch (OWP) #2
Underwood Ditch Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS01 11/19/2021	SS01 Background 11/19/2021	COGCC Table 915-1 Standard	Units
Sample Location	Wellhead	Background	NA	NA
Latitude	37.0432472	37.04413201	NA	NA
Longitude	-106.8395361	-106.8409947	NA	NA
Laboratory ID	2111279-01	2111277-01	NA	NA
Depth	4.5	0-0.5	NA	feet bgs
PID	0.1	0.2	NA	ppm
Conductivity	0.412	1.130	<4	mmhos/cm
pH	7.09	6.99	6-8.3	pH units
SAR	0.69	0.13	<6	no units
Calcium	47.0	179	NA	mg/L
Magnesium	8.92	24.8	NA	mg/L
Sodium	19.8	6.78	NA	mg/L
Arsenic	9.80	7.84	0.68	mg/kg
Barium	93.8	97.5	15000	mg/kg
Cadmium	<5.00	<5.00	71	mg/kg
Chromium (VI)	<0.250	<0.250	0.3	mg/kg
Total Chromium	18.8	14.5	NA	mg/kg
Copper	32.7	24.3	3100	mg/kg
Lead	12.4	11.1	400	mg/kg
Nickel	15.4	15.6	1500	mg/kg
Selenium	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	390	mg/kg
Zinc	71.8	74.8	23000	mg/kg
Boron	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.0250	<0.0250	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	360	mg/kg
Fluorene	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	240	mg/kg
Pyrene	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<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
Bold values exceed COGCC Standard