

Soil Sampling Results
Perino Water Transfer Station

Parameter	W Tank Inlet 11/8/2021	W Tank Outlet 11/8/2021	E Tank Inlet 11/8/2021	E Tank Outlet 11/8/2021	Transfer House #1 11/8/2021	Transfer House #2 11/8/2021
Depth	0-6"	0-6"	0-6"	0-6"	3'	0-6"
Conductivity	2.640	0.254	0.505	0.388	1.160	3.840
pH	8.62	8.57	7.80	7.79	8.10	8.28
SAR	21.20	21.500	2.18	1.720	9.790	17.800
Calcium	26.20	22.20	34.00	31.20	21.00	66.00
Magnesium	8.05	5.92	7.52	6.33	5.52	14.7
Sodium	484.0	441.00	53.8	40.40	195.00	614.00
Arsenic	2.850	7.30	6.700	2.76	2.78	3.27
Barium	314	422.0	470	366.0	530.0	269.0
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chromium (VI)	<0.250	<0.250	0.3	<0.250	<0.250	0.27
Copper	50.5	24.20	594.0	18.70	24.70	19.10
Lead	<10	<10.0	42.20	11.00	11.10	<10.0
Selenium	<20.0	<20.00	<20.0	<20.0	<20.0	<20.00
Silver	<1.00	<1.00	1.07	<1.00	11.19	<1.00
Zinc	45.7	38.9	101	40.1	55.00	39.3
Mercury	-	-	-	-	-	-
Boron	1.35	1.66	<1.20	<1.20	<1.20	1.28
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Total Xylenes	<0.0750	<0.0750	<0.0750	<0.0750	<0.0750	<0.0750
TPH (GRO)	<10.0	<10.00	<10.0	<10.0	<10.0	<10.0
TPH (DRO)	<10.0	<10.00	<10.0	<10.0	<10.0	<10.0
TPH (EXT DRO)	<10.0	<10.00	<10.0	<10.0	<10.0	<10.0
Total TPH	<10.0	<10.00	<10.0	<10.0	<10.0	<10.00
Naphthalene	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Acenaphthene	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Fluorene	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Anthracene	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Fluoranthene	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
Pyrene	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Benzo(a)anthracene	<0.023	<0.023	<0.023	<0.023	<0.023	<0.019
Chrysene	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Benzo(b)fluoranthene	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
Benzo(k)fluoranthene	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo(a)pyrene	<0.015	<0.018	<0.018	<0.018	<0.018	<0.018
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Dibenzo(a,h)anthracene	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene,
Ethylbenzene, & Total Xylenes
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
BG - Background
ND - Non-detect
Bold values exceed COGCC Table
915 Standard

ppm - parts per million
bgs - below ground surface
mmhos/cm - millihos per centimeter
TPH - Total Petroleum Hydrocarbons
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
"- " - Indicates no data
NA - Not Applicable
COGCC - Colorado Oil & Gas Conservation
Commission

**SS05
Background
7/19/2021**

**COGCC Table 915
Standard**

Units

0-4"	NA	inches bgs
0.613	<4 or 2x BG	mmhos/cm
7.41	6-8.3	pH units
0.490	<6	no units
31.00	NA	mg/L
9.3	NA	mg/L
12.00	NA	mg/L
6.20	0.68	mg/kg
290.0	15,000	mg/kg
<0.19	71	mg/kg
<0.644	0.3	mg/kg
18.00	3,100	mg/kg
8.70	400	mg/kg
1.4	390	mg/kg
<0.48	390	mg/kg
61	23000	mg/kg
0.212	N/A	mg/kg
-	2.0	mg/L
-	1.20	mg/kg
-	490	mg/kg
-	6	mg/kg
-	58	mg/kg
-	NA	mg/kg
-	NA	mg/kg
-	NA	mg/kg
-	500	mg/kg
-	2	mg/kg
-	360	mg/kg
-	240	mg/kg
-	1,800	mg/kg
-	240	mg/kg
-	180	mg/kg
-	1.10	mg/kg
-	110	mg/kg
-	1.10	mg/kg
-	11.0	mg/kg
-	0.110	mg/kg
-	1.10	mg/kg
-	0.110	mg/kg