



BP America Production Company
Perino Water Transfer Station
COGCC ID# 419311
Soil Sample Analytical Results

Analyte	SS01 (0-12")	SS02 (0-12")	SS03 (0-12")	COGCC Table 910-1	Units
pH	9.47	8.96	8.02	6-9	Standard Units
SAR	19.6	18.7	2.68	<12	No units
EC	1.9	1.540	0.384	<4 or 2x BG	mmhos/cm
Calcium	17.6	13.1	24.3	NA	mg/L
Magnesium	5.16	<5.00	<5.00	NA	mg/L
Sodium	363	289	48	NA	mg/L
Barium	287	270	413	15,000	mg/kg
Cadmium	<5.00	<5.00	<5.00	70	mg/kg
Chromium	6.78	7.35	8.38	23	mg/kg
Copper	6.28	7.14	13.2	3,100	mg/kg
Lead	<10.0	18.5	20.1	400	mg/kg
Nickel	6.77	11.8	13.4	1,600	mg/kg
Selenium	<20.0	<20.0	<20.0	390	mg/kg
Silver	<5.0	<5.0	<5.0	390	mg/kg
Zinc	33.5	55.1	72.3	23,000	mg/kg
Arsenic	2.17	2.27	4.86	0.39	mg/kg
Mercury	<0.105	<0.112	<0.120	23	mg/kg
Boron	0.481	0.657	<0.300	2	mg/L
Benzene	<0.050	<0.050	<0.050	0.17	mg/kg
Toluene	<0.050	0.176	0.192	85	mg/kg
Ethylbenzene	<0.050	<0.050	<0.050	100	mg/kg
Xylenes (total)	<0.150	<0.150	<0.150	175	mg/kg
TPH GRO	<10.0	<10.0	<10.0	NA	mg/kg
TPH DRO	<10.0	<10.0	<10.0	NA	mg/kg
TPH Ext DRO	<10.0	<10.0	<10.0	NA	mg/kg
TPH	<30.0	<30.0	<30.0	500	mg/kg
Acenaphthene	<0.003	<0.003	<0.003	1,000	mg/kg
Anthracene	<0.003	<0.003	<0.003	1,000	mg/kg
Benzo(a)anthracene	<0.016	<0.016	<0.016	0.22	mg/kg
Benzo(b)fluoranthene	<0.003	<0.003	<0.003	0.22	mg/kg
Benzo(k)fluoranthene	<0.004	<0.004	<0.004	2.2	mg/kg
Benzo(a)pyrene	<0.003	<0.003	<0.003	0.022	mg/kg
Chrysene	<0.003	<0.003	<0.003	22	mg/kg
Dibenz(a,h)anthracene	<0.003	<0.003	<0.003	0.022	mg/kg
Fluoranthene	<0.007	<0.007	<0.007	1,000	mg/kg
Fluorene	<0.003	<0.003	<0.003	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.003	<0.003	<0.003	0.22	mg/kg
Naphthalene	<0.002	<0.002	<0.002	23	mg/kg
Pyrene	<0.003	<0.003	<0.003	1,000	mg/kg

Notes:

Bold text indicates values that exceed Table 910-1 standards