

Table 1
Soil Sampling Results
Box Elder K #2 and K 1-3 Tank Battery
DIA Well Plugging Project
City & County of Denver

Parameter	SS01	SS02	SS03	SS04	COGCC Table 915-1	Units
	11/14/2022	11/14/2022	11/14/2022	11/14/2022	Standard	
Sample Location	Incinerator	Separator	Flowline	Flowline	NA	NA
Latitude/Longitude	39.09362/-104.712738	39.909444/-104.712535	39.909078/-104.712406	39.909385/-104.71269	NA	NA
Laboratory ID	2211209-01	2211209-02	2211209-03	2211209-04	NA	NA
Depth	2	2	4	3	NA	feet bgs
PID	0.2	0.1	0.1	0.1	NA	ppm
Conductivity	0.397	0.250	0.197	0.420	<4	mmhos/cm
pH	7.76	7.28	7.49	8.00	6-8.3	pH units
SAR	0.29	0.21	0.16	0.39	<6	no units
Calcium	55.8	35.0	26.6	43.5	NA	mg/L
Magnesium	9.96	5.56	7.14	19.7	NA	mg/L
Sodium	9.01	5.07	3.69	12.2	NA	mg/L
Arsenic	3.10	2.77	1.57	3.56	0.68	mg/kg
Barium	102	75.7	53.9	163	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)	<0.250	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	14.1	11.1	7.37	16.9	NA	mg/kg
Copper	6.53	<5.00	<5.00	9.07	3100	mg/kg
Lead	<10.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	6.97	5.17	<5.00	9.35	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	32.2	27.7	20.4	39.4	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)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	<30.0	<30.0	<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	<0.0750	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	<0.040	<0.040	<0.040	<0.040	2	mg/kg
2-methylnaphthalene	<0.040	<0.040	<0.040	<0.040	24	mg/kg
1-methylnaphthalene	<0.040	<0.040	<0.040	<0.040	18	mg/kg
Acenaphthene	<0.040	<0.040	<0.040	<0.040	360	mg/kg
Fluorene	<0.040	<0.040	<0.040	<0.040	240	mg/kg
Anthracene	<0.040	<0.040	<0.040	<0.040	1800	mg/kg
Fluoranthene	<0.040	<0.040	<0.040	<0.040	240	mg/kg
Pyrene	<0.040	<0.040	<0.040	<0.040	180	mg/kg
Benzo(a)anthracene	<0.040	<0.040	<0.040	<0.040	1.1	mg/kg
Chrysene	<0.040	<0.040	<0.040	<0.040	110	mg/kg
Benzo(b)fluoranthene	<0.040	<0.040	<0.040	<0.040	1.1	mg/kg
Benzo(k)fluoranthene	<0.040	<0.040	<0.040	<0.040	11	mg/kg
Benzo(a)pyrene	<0.040	<0.040	<0.040	<0.040	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.040	<0.040	<0.040	<0.040	1.1	mg/kg
Dibenz(a,h)anthracene	<0.040	<0.040	<0.040	<0.040	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
Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.

Table 1 (continued)
Soil Sampling Results
Box Elder K #2 and K 1-3 Tank Battery
DIA Well Plugging Project
City & County of Denver

Parameter	SS05	SS06	SS07	SS08	COGCC Table 915-1 Standard	Units
	11/14/2022	11/14/2022	11/14/2022	12/05/2022		
Sample Location	Flowline	Flowline	Flowline	Pit Tank	NA	NA
Latitude/Longitude	39.909509/-104.712772	39.909548/-104.712608	39.909514/-104.712546	39.909592/-104.712866	NA	NA
Laboratory ID	2211209-05	2211209-06	2211209-07	2212101-01	NA	NA
Depth	2	2	2.5	25	NA	feet bgs
PID	0.1	0.1	0.2	69.7	NA	ppm
Conductivity	0.640	0.283	0.273	1.210	<4	mmhos/cm
pH	8.12	7.81	7.71	9.07	6-8.3	pH units
SAR	1.29	0.37	0.41	6.67	<6	no units
Calcium	58.3	33.3	34.4	48.1	NA	mg/L
Magnesium	17.8	10.1	7.45	12.2	NA	mg/L
Sodium	44.0	9.41	10.1	200	NA	mg/L
Arsenic	2.96	2.89	2.11	3.74	0.68	mg/kg
Barium	99.4	93.5	80.4	117	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)	<0.250	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	14.9	12.4	10.5	25.4	NA	mg/kg
Copper	7.23	7.07	<5.00	8.88	3100	mg/kg
Lead	<10.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	7.52	6.28	5.68	12.7	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	29.9	46.5	26.7	31.8	23000	mg/kg
Boron	<1.20	<1.20	<1.20	1.41	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	26.3	NA	mg/kg
TPH (DRO)	<10.0	<10.0	<10.0	594	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	164	NA	mg/kg
Total TPH	<30.0	<30.0	<30.0	784.3	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	<0.0750	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	0.729	30	mg/kg
Naphthalene	<0.040	<0.040	<0.040	<0.153	2	mg/kg
2-methylnaphthalene	<0.040	<0.040	<0.040	<0.226	24	mg/kg
1-methylnaphthalene	<0.040	<0.040	<0.040	<0.161	18	mg/kg
Acenaphthene	<0.040	<0.040	<0.040	<0.235	360	mg/kg
Fluorene	<0.040	<0.040	<0.040	<0.142	240	mg/kg
Anthracene	<0.040	<0.040	<0.040	<0.172	1800	mg/kg
Fluoranthene	<0.040	<0.040	<0.040	<0.185	240	mg/kg
Pyrene	<0.040	<0.040	<0.040	<0.132	180	mg/kg
Benzo(a)anthracene	<0.040	<0.040	<0.040	<0.230	1.1	mg/kg
Chrysene	<0.040	<0.040	<0.040	0.184	110	mg/kg
Benzo(b)fluoranthene	<0.040	<0.040	<0.040	<0.192	1.1	mg/kg
Benzo(k)fluoranthene	<0.040	<0.040	<0.040	<0.157	11	mg/kg
Benzo(a)pyrene	<0.040	<0.040	<0.040	<0.182	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.040	<0.040	<0.040	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	<0.040	<0.040	<0.040	<0.186	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
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Table 1 (continued)
Soil Sampling Results
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Parameter	SS09	Background 1	Background 2	COGCC Table 915-1	Units
	01/05/2023	11/14/2022	11/15/2022	Standard	
Sample Location	Wellhead	Background 1	Background 2	NA	NA
Latitude/Longitude	39.908893/-104.712332	39.914356/-104.683935	39.903994/-104.709448	NA	NA
Laboratory ID	2301061-01	2211210-01	2211210-02	NA	NA
Depth	7	0-0.67	0-0.17	NA	feet bgs
PID	0.1	-	-	NA	ppm
Conductivity	0.428	0.330	0.700	<4	mmhos/cm
pH	7.59	5.86	6.78	6-8.3	pH units
SAR	0.53	0.17	0.19	<6	no units
Calcium	32.9	23.4	74.7	NA	mg/L
Magnesium	9.80	6.45	22.2	NA	mg/L
Sodium	13.4	3.69	7.26	NA	mg/L
Arsenic	2.57	1.25	2.78	0.68	mg/kg
Barium	139	38.2	88.7	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	21.0	<5.00	12.5	NA	mg/kg
Copper	10.1	<5.00	7.50	3100	mg/kg
Lead	10.6	<10.0	<10.0	400	mg/kg
Nickel	12.1	<5.00	6.58	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	390	mg/kg
Zinc	45.3	17.5	35.6	23000	mg/kg
Boron	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	-	-	NA	mg/kg
TPH (DRO)	<10.0	-	-	NA	mg/kg
TPH (EXT DRO)	<10.0	-	-	NA	mg/kg
Total TPH	<30.0	-	-	500	mg/kg
Benzene	<0.0250	-	-	1.2	mg/kg
Toluene	<0.0250	-	-	490	mg/kg
Ethylbenzene	<0.0250	-	-	5.8	mg/kg
Total Xylenes	<0.0750	-	-	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	-	-	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	-	-	30	mg/kg
Naphthalene	<0.015	-	-	2	mg/kg
2-methylnaphthalene	<0.023	-	-	24	mg/kg
1-methylnaphthalene	<0.016	-	-	18	mg/kg
Acenaphthene	<0.024	-	-	360	mg/kg
Fluorene	<0.014	-	-	240	mg/kg
Anthracene	<0.017	-	-	1800	mg/kg
Fluoranthene	<0.019	-	-	240	mg/kg
Pyrene	<0.013	-	-	180	mg/kg
Benzo(a)anthracene	<0.023	-	-	1.1	mg/kg
Chrysene	<0.017	-	-	110	mg/kg
Benzo(b)fluoranthene	<0.019	-	-	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	-	-	11	mg/kg
Benzo(a)pyrene	<0.018	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	<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
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