

Kinder Morgan CO<sub>2</sub> Company, L.P  
Yellow Jacket Central Processing Facility  
Produced Water Pump Spill  
Soil Sample Analytical Results - Inorganics and Metals

Sample ID	Sample Collection Date	Sample Depth <sup>1</sup>	Electrical Conductivity (mmhos/cm) <sup>2</sup>	Sodium Adsorption Ratio (no units)	pH (pH units)	Arsenic (mg/kg) <sup>3</sup>	Barium (mg/kg)	Boron (mg/L) <sup>4</sup>	Cadmium (mg/kg)	Total Chromium (mg/kg)	Chromium III (mg/kg)	Chromium VI (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
YJBSS-1	3/31/2020	1.0	0.565	0.45	7.39	6.11	NM <sup>5</sup>	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
YJBSS-2	3/31/2020	1.0	0.722	0.11	6.69	4.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
SS-A1-1	3/31/2020	1.0	1.990	0.83	7.62	3.92	184	<1.20	<5.00	11.3	NM <sup>6</sup>	NM <sup>6</sup>	6.72	<10.0	<0.0501	9.97	<20.0	<1.00	29.9
SS-A1-2	3/31/2020	1.0	2.150	1.37	7.73	3.69	202	<1.20	<5.00	11.2	NM <sup>6</sup>	NM <sup>6</sup>	5.57	<10.0	<0.0488	9.98	<20.0	<1.00	27.7
SS-A2-1	3/31/2020	1.0	1.370	0.68	7.67	6.81	232	<1.20	<5.00	12.2	NM <sup>6</sup>	NM <sup>6</sup>	6.76	<10.0	<0.0559	9.96	<20.0	<1.00	29.8
SS-A2-2	3/31/2020	1.0	0.716	0.59	7.85	4.04	206	<1.20	<5.00	31.8	NM <sup>6</sup>	NM <sup>6</sup>	9.42	<10.0	<0.0443	21.8	<20.0	<1.00	40.1
SS-A3-1	3/31/2020	0.5	2.910	1.11	7.57	4.82	261	<1.20	<5.00	13.0	NM <sup>6</sup>	NM <sup>6</sup>	45.4	13.9	<0.0965	10.4	<20.0	<1.00	74.2
SS-A3-CS-1	5/19/2020	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM <sup>6</sup>	NM <sup>6</sup>	NM	NM	NM	NM	NM	NM	NM
SS-A3-CS-2	5/19/2020	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM <sup>6</sup>	NM <sup>6</sup>	NM	NM	NM	NM	NM	NM	NM
COGCC <sup>7</sup> Table 910-1 Standard			4	12	6 to 9	0.39	15,000	2	70	N/A <sup>8</sup>	120,000	23	3,100	400	23	1,600	390	390	23,000

Notes:

1. Depth given in feet blow ground surface.

2. Millimhos per centimeter

3. Milligrams per kilogram

4. Milligrams per liter

5. Not Measured

6. Not Measured - these samples were not evaluated for Cr VI by EPA Method 3060A. The concentration of Cr III is calculated by subtracting the Cr VI concentration from the total Cr concentration.

7. Colorado Oil & Gas Conservation Commission

8. There is no COGCC standard for total chromium by EPA Method 6010B in soil however there are standards for Chromium (III) and (VI).

Values shown in **red** exceed COGCC Table 910-1 standards.

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Sample ID	Sample Collection Date	Sample Depth <sup>1</sup>	TPH <sup>2</sup> (mg/kg) <sup>3</sup>	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Acenaph-thene (mg/kg)	Anthra-cene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Indeno-(1,2,3c,d)-pyrene (mg/kg)	Naphtha-lene (mg/kg)	Pyrene (mg/kg)
YJBSS-1 <sup>4</sup>	3/31/2020	1.0	NM <sup>5</sup>	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
YJBSS-2 <sup>4</sup>	3/31/2020	1.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
SS-A1-1	3/31/2020	1.0	<30.0 <sup>6</sup>	<0.050	<0.050	<0.050	<0.150	<0.007	<0.008	<0.008	<0.009	<0.010	<0.007	<0.010	<0.006	<0.006	<0.006	<0.010	<0.014	<0.007
SS-A1-2	3/31/2020	1.0	<30.0	<0.050	<0.050	<0.050	<0.150	<0.007	<0.008	<0.008	<0.009	<0.010	<0.007	<0.010	<0.006	<0.006	<0.006	<0.010	<0.014	<0.007
SS-A2-1	3/31/2020	1.0	<30.0	<0.050	<0.050	<0.050	<0.150	<0.007	<0.008	<0.008	<0.009	<0.010	<0.007	<0.010	<0.006	<0.006	<0.006	<0.010	<0.014	<0.007
SS-A2-2	3/31/2020	1.0	<30.0	<0.050	<0.050	<0.050	<0.150	<0.007	<0.008	0.013	0.012	0.013	0.009	0.015	0.016	0.006	<0.006	0.013	<0.014	<0.007
SS-A3-1	3/31/2020	0.5	870.3	<0.050	<0.050	<0.050	0.303	<0.007	<0.008	0.012	<0.009	<0.010	<0.007	<0.010	<0.006	0.012	<0.006	<0.010	0.037	0.017
SS-A3-CS-1	5/19/2020	2.5	355	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
SS-A3-CS-2	5/19/2020	2.0	2,476.4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
COGCC <sup>7</sup> Table 910-1 Standard			500	0.17	85	100	175	1,000	1,000	0.22	0.22	2.2	0.022	22	0.022	1,000	1,000	0.22	23	1,000

Notes:  
1. Depth given in feet blow ground surface.  
2. Total Petroleum Hydrocarbons  
3. Milligrams per kilogram  
4. Background soil sample  
5. Not Measured  
6. <30.0 indicates a sample concentration less than the laboratory method detection limit of 30.0 mg/kg.  
7. Colorado Oil & Gas Conservation Commission  
Values shown in red exceed COGCC Table 910-1 standards.