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17 April 2020

Michael Hannigan
Kinder Morgan
17801 Hwy 491
Cortez, CO 81321
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 04/03/20 13:35. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
YJBSS-1	2004034-01	Solid	03/31/20 13:40	04/03/20 13:35	
YJBSS-2	2004034-02	Solid	03/31/20 13:50	04/03/20 13:35	
SS-A1-1	2004034-03	Solid	03/31/20 14:15	04/03/20 13:35	
SS-A1-2	2004034-04	Solid	03/31/20 14:40	04/03/20 13:35	
SS-A2-1	2004034-05	Solid	03/31/20 15:10	04/03/20 13:35	
SS-A2-2	2004034-06	Solid	03/31/20 15:25	04/03/20 13:35	
SS-A3-1	2004034-07	Solid	03/31/20 15:50	04/03/20 13:35	

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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

YJBSS-1

2004034-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.3			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	79.0	0.100	0.017	mg/L	1	04/09/20 14:11	EPA200.7		AES
Conductivity	565			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	13.5	0.100	0.023	mg/L	1	04/09/20 14:11	EPA200.7		AES
pH	7.39			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	0.45			No Unit	1	04/09/20 14:11	Calculation		AES
Sodium	16.5	1.00	0.101	mg/L	1	04/09/20 14:11	EPA200.7		AES

Total Metals by ICPMS

Arsenic	6.11	1.00	0.0807	mg/kg dry	1000	04/16/20 10:18	6020A		AES
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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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YJBSS-2

2004034-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	85.2			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	124	0.100	0.017	mg/L	1	04/09/20 14:13	EPA200.7		AES
Conductivity	722			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	17.6	0.100	0.023	mg/L	1	04/09/20 14:13	EPA200.7		AES
pH	6.69			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	0.11			No Unit	1	04/09/20 14:13	Calculation		AES
Sodium	4.95	1.00	0.101	mg/L	1	04/09/20 14:13	EPA200.7		AES

Total Metals by ICPMS

Arsenic	4.29	1.00	0.0807	mg/kg dry	1000	04/16/20 10:29	6020A		AES
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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A1-1

2004034-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	79.8			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	226	0.200	0.033	mg/L	2	04/09/20 14:17	EPA200.7		AES
Conductivity	1990			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	57.3	0.200	0.047	mg/L	2	04/09/20 14:18	EPA200.7		AES
pH	7.62			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	0.83			No Unit	1	04/09/20 14:17	Calculation		AES
Sodium	54.1	2.00	0.201	mg/L	2	04/09/20 14:17	EPA200.7		AES

Total Metals by ICP

Barium	184	5.00	0.318	mg/kg dry	100	04/16/20 13:35	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 13:35	6010B		AES
Chromium	11.3	5.00	0.416	mg/kg dry	100	04/16/20 13:35	6010B		AES
Copper	6.72	5.00	1.40	mg/kg dry	100	04/16/20 13:35	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	04/16/20 13:35	6010B		AES
Nickel	9.97	5.00	0.507	mg/kg dry	100	04/16/20 13:35	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 13:34	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 13:35	6010B		AES
Zinc	29.9	10.0	2.60	mg/kg dry	100	04/16/20 13:35	6010B		AES

Total Metals by ICPMS

Arsenic	3.92	1.00	0.0807	mg/kg dry	1000	04/16/20 10:39	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0501	0.0501	0.0086	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	04/09/20 13:49	EPA200.7		AES
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SS-A1-1

2004034-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/08/20 05:41	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	04/08/20 05:41	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/08/20 05:41	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	04/08/20 05:41	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	04/08/20 05:41	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		04/08/20 05:41	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	04/08/20 12:37	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	04/08/20 12:37	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	04/08/20 12:37	8015B		MS
Surrogate: 1-Chlorooctane			91.7 %	44.3-144		04/08/20 12:37	8015B		MS
Surrogate: 1-Chlorooctadecane			97.1 %	42.2-156		04/08/20 12:37	8015B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	04/13/20 16:58	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 16:58	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	04/13/20 16:58	8270C	QR-03	MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 16:58	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 16:58	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 16:58	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 16:58	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 16:58	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	04/13/20 16:58	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 16:58	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 16:58	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 16:58	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 16:58	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	04/13/20 16:58	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 16:58	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 16:58	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A1-1

2004034-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 16:58	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 16:58	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 16:58	8270C		MS
Surrogate: Nitrobenzene-d5			81.3 %	11.5-118		04/13/20 16:58	8270C		MS
Surrogate: 2-Fluorobiphenyl			89.4 %	19.4-118		04/13/20 16:58	8270C		MS
Surrogate: Terphenyl-d14			90.1 %	20.1-127		04/13/20 16:58	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A1-2

2004034-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	81.9			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	219	0.200	0.033	mg/L	2	04/09/20 14:20	EPA200.7		AES
Conductivity	2150			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	58.3	0.200	0.047	mg/L	2	04/09/20 14:20	EPA200.7		AES
pH	7.73			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	1.37			No Unit	1	04/09/20 14:20	Calculation		AES
Sodium	88.5	2.00	0.201	mg/L	2	04/09/20 14:20	EPA200.7		AES

Total Metals by ICP

Barium	202	5.00	0.318	mg/kg dry	100	04/16/20 13:52	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 13:52	6010B		AES
Chromium	11.2	5.00	0.416	mg/kg dry	100	04/16/20 13:52	6010B		AES
Copper	5.57	5.00	1.40	mg/kg dry	100	04/16/20 13:52	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	04/16/20 13:52	6010B		AES
Nickel	9.98	5.00	0.507	mg/kg dry	100	04/16/20 13:52	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 13:51	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 13:52	6010B		AES
Zinc	27.7	20.0	5.20	mg/kg dry	200	04/16/20 15:45	6010B		AES

Total Metals by ICPMS

Arsenic	3.69	1.00	0.0807	mg/kg dry	1000	04/16/20 10:42	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0488	0.0488	0.0084	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	04/09/20 13:58	EPA200.7		AES
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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

SS-A1-2

2004034-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/08/20 14:09	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	04/08/20 14:09	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/08/20 14:09	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	04/08/20 14:09	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	04/08/20 14:09	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129 04/08/20 14:09 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	04/08/20 13:03	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	04/08/20 13:03	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	04/08/20 13:03	8015B		MS

Surrogate: 1-Chlorooctane 89.4 % 44.3-144 04/08/20 13:03 8015B MS

Surrogate: 1-Chlorooctadecane 93.9 % 42.2-156 04/08/20 13:03 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	04/13/20 17:25	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 17:25	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:25	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:25	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:25	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:25	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:25	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 17:25	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:25	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:25	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:25	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 17:25	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 17:25	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	04/13/20 17:25	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 17:25	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:25	8270C		MS

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SS-A1-2

2004034-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 17:25	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:25	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:25	8270C		MS
Surrogate: Nitrobenzene-d5			83.8 %	11.5-118		04/13/20 17:25	8270C		MS
Surrogate: 2-Fluorobiphenyl			95.3 %	19.4-118		04/13/20 17:25	8270C		MS
Surrogate: Terphenyl-d14			107 %	20.1-127		04/13/20 17:25	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A2-1

2004034-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	71.6			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	175	0.200	0.033	mg/L	2	04/09/20 14:26	EPA200.7		AES
Conductivity	1370			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	56.1	0.200	0.047	mg/L	2	04/09/20 14:26	EPA200.7		AES
pH	7.67			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	0.68			No Unit	1	04/09/20 14:26	Calculation		AES
Sodium	40.6	2.00	0.201	mg/L	2	04/09/20 14:26	EPA200.7		AES

Total Metals by ICP

Barium	232	5.00	0.318	mg/kg dry	100	04/16/20 13:56	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 13:56	6010B		AES
Chromium	12.2	5.00	0.416	mg/kg dry	100	04/16/20 13:56	6010B		AES
Copper	6.76	5.00	1.40	mg/kg dry	100	04/16/20 13:56	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	04/16/20 13:56	6010B		AES
Nickel	9.96	5.00	0.507	mg/kg dry	100	04/16/20 13:56	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 13:56	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 13:56	6010B		AES
Zinc	29.8	20.0	5.20	mg/kg dry	200	04/16/20 15:48	6010B		AES

Total Metals by ICPMS

Arsenic	6.81	1.00	0.0807	mg/kg dry	1000	04/16/20 10:46	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0559	0.0559	0.0096	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	04/09/20 14:00	EPA200.7		AES
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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A2-1

2004034-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/08/20 14:25	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	04/08/20 14:25	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/08/20 14:25	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	04/08/20 14:25	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	04/08/20 14:25	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		04/08/20 14:25	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	04/08/20 13:29	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	04/08/20 13:29	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	04/08/20 13:29	8015B		MS
Surrogate: 1-Chlorooctane			82.7 %	44.3-144		04/08/20 13:29	8015B		MS
Surrogate: 1-Chlorooctadecane			85.8 %	42.2-156		04/08/20 13:29	8015B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	04/13/20 17:51	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 17:51	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:51	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:51	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:51	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:51	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:51	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 17:51	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:51	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:51	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:51	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 17:51	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 17:51	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	04/13/20 17:51	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 17:51	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 17:51	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A2-1

2004034-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 17:51	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:51	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 17:51	8270C		MS
Surrogate: Nitrobenzene-d5			74.9 %	11.5-118		04/13/20 17:51	8270C		MS
Surrogate: 2-Fluorobiphenyl			87.3 %	19.4-118		04/13/20 17:51	8270C		MS
Surrogate: Terphenyl-d14			87.1 %	20.1-127		04/13/20 17:51	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A2-2

2004034-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.4			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	78.7	0.100	0.017	mg/L	1	04/09/20 14:30	EPA200.7		AES
Conductivity	716			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	29.2	0.100	0.023	mg/L	1	04/09/20 14:30	EPA200.7		AES
pH	7.85			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	0.59			No Unit	1	04/09/20 14:30	Calculation		AES
Sodium	24.3	1.00	0.101	mg/L	1	04/09/20 14:30	EPA200.7		AES

Total Metals by ICP

Barium	206	5.00	0.318	mg/kg dry	100	04/16/20 14:00	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 14:00	6010B		AES
Chromium	31.8	5.00	0.416	mg/kg dry	100	04/16/20 14:00	6010B		AES
Copper	9.42	5.00	1.40	mg/kg dry	100	04/16/20 14:00	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	04/16/20 14:00	6010B		AES
Nickel	21.8	5.00	0.507	mg/kg dry	100	04/16/20 14:00	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 14:00	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 14:00	6010B		AES
Zinc	40.1	20.0	5.20	mg/kg dry	200	04/16/20 15:53	6010B		AES

Total Metals by ICPMS

Arsenic	4.04	1.00	0.0807	mg/kg dry	1000	04/16/20 10:49	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0443	0.0443	0.0076	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	04/09/20 14:03	EPA200.7		AES
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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A2-2

2004034-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/08/20 14:41	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	04/08/20 14:41	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/08/20 14:41	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	04/08/20 14:41	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	04/08/20 14:41	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		04/08/20 14:41	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	04/08/20 13:54	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	04/08/20 13:54	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	04/08/20 13:54	8015B		MS
Surrogate: 1-Chlorooctane			87.0 %	44.3-144		04/08/20 13:54	8015B		MS
Surrogate: 1-Chlorooctadecane			90.7 %	42.2-156		04/08/20 13:54	8015B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	04/13/20 18:18	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 18:18	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	04/13/20 18:18	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:18	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 18:18	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:18	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 18:18	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 18:18	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:18	8270C		MS
Fluoranthene*	0.006	0.040	0.006	mg/kg	40	04/13/20 18:18	8270C	J	MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 18:18	8270C		MS
Benzo[a]anthracene*	0.013	0.040	0.008	mg/kg	40	04/13/20 18:18	8270C	J	MS
Chrysene*	0.015	0.040	0.010	mg/kg	40	04/13/20 18:18	8270C	J	MS
Benzo[b]fluoranthene*	0.012	0.040	0.009	mg/kg	40	04/13/20 18:18	8270C	J	MS
Benzo[k]fluoranthene*	0.013	0.040	0.010	mg/kg	40	04/13/20 18:18	8270C	J	MS
Benzo[a]pyrene*	0.009	0.040	0.007	mg/kg	40	04/13/20 18:18	8270C	J	MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A2-2

2004034-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	0.013	0.040	0.010	mg/kg	40	04/13/20 18:18	8270C	J	MS
Dibenz[a,h]anthracene*	0.016	0.040	0.006	mg/kg	40	04/13/20 18:18	8270C	J	MS
Benzo[g,h,i]perylene*	0.012	0.040	0.006	mg/kg	40	04/13/20 18:18	8270C	J	MS
Surrogate: Nitrobenzene-d5			80.1 %	11.5-118		04/13/20 18:18	8270C		MS
Surrogate: 2-Fluorobiphenyl			92.1 %	19.4-118		04/13/20 18:18	8270C		MS
Surrogate: Terphenyl-d14			96.2 %	20.1-127		04/13/20 18:18	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A3-1

2004034-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	81.3			%	1	04/06/20 11:35	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	465	0.500	0.083	mg/L	5	04/09/20 14:33	EPA200.7		AES
Conductivity	2910			umho/cm @ 25.0°C	1	04/08/20 15:40	ASA#9 10-3.3		VJW
Magnesium	58.0	0.500	0.117	mg/L	5	04/09/20 14:33	EPA200.7		AES
pH	7.57			pH Units	1	04/08/20 12:55	ASA#9 12-2.6		VJW
SAR	1.11			No Unit	1	04/09/20 14:33	Calculation		AES
Sodium	95.6	5.00	0.503	mg/L	5	04/09/20 14:33	EPA200.7		AES

Total Metals by ICP

Barium	261	5.00	0.318	mg/kg dry	100	04/16/20 14:04	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 14:04	6010B		AES
Chromium	13.0	5.00	0.416	mg/kg dry	100	04/16/20 14:04	6010B		AES
Copper	45.4	5.00	1.40	mg/kg dry	100	04/16/20 14:04	6010B		AES
Lead	13.9	10.0	0.661	mg/kg dry	100	04/16/20 14:04	6010B		AES
Nickel	10.4	5.00	0.507	mg/kg dry	100	04/16/20 14:04	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 14:04	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 14:04	6010B		AES
Zinc	74.2	20.0	5.20	mg/kg dry	200	04/16/20 15:55	6010B		AES

Total Metals by ICPMS

Arsenic	4.82	1.00	0.0807	mg/kg dry	1000	04/16/20 10:53	6020A		AES
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Total Mercury by CVAA

Mercury	0.0965	0.0492	0.0085	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	04/09/20 14:05	EPA200.7		AES
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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A3-1

2004034-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/08/20 14:58	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	04/08/20 14:58	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/08/20 14:58	8021B		MS
Total Xylenes*	0.303	0.150	0.013	mg/kg	50	04/08/20 14:58	8021B		MS
Total BTEX	0.303	0.300	0.018	mg/kg	50	04/08/20 14:58	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			117 %	73.3-129		04/08/20 14:58	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.2	10.0	1.97	mg/kg	1	04/08/20 14:19	8015B		MS
DRO >C10-C28*	846	10.0	2.97	mg/kg	1	04/08/20 14:19	8015B		MS
EXT DRO >C28-C36	13.1	10.0	2.97	mg/kg	1	04/08/20 14:19	8015B		MS
Surrogate: 1-Chlorooctane			94.8 %	44.3-144		04/08/20 14:19	8015B		MS
Surrogate: 1-Chlorooctadecane			115 %	42.2-156		04/08/20 14:19	8015B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.037	0.040	0.014	mg/kg	40	04/13/20 18:45	8270C	J	MS
2-Methylnaphthalene*	0.053	0.040	0.008	mg/kg	40	04/13/20 18:45	8270C		MS
1-Methylnaphthalene	0.071	0.040	0.007	mg/kg	40	04/13/20 18:45	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:45	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 18:45	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:45	8270C		MS
Phenanthrene*	0.048	0.040	0.007	mg/kg	40	04/13/20 18:45	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	04/13/20 18:45	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:45	8270C		MS
Fluoranthene*	0.012	0.040	0.006	mg/kg	40	04/13/20 18:45	8270C	J	MS
Pyrene*	0.017	0.040	0.007	mg/kg	40	04/13/20 18:45	8270C	J	MS
Benzo[a]anthracene*	0.012	0.040	0.008	mg/kg	40	04/13/20 18:45	8270C	J	MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 18:45	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	04/13/20 18:45	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 18:45	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	04/13/20 18:45	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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SS-A3-1

2004034-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	04/13/20 18:45	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:45	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	04/13/20 18:45	8270C		MS
Surrogate: Nitrobenzene-d5			74.9 %	11.5-118		04/13/20 18:45	8270C		MS
Surrogate: 2-Fluorobiphenyl			82.5 %	19.4-118		04/13/20 18:45	8270C		MS
Surrogate: Terphenyl-d14			84.8 %	20.1-127		04/13/20 18:45	8270C		MS

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200543 - General Prep - Wet Chem

Duplicate (B200543-DUP1) Source: 2004034-01 Prepared & Analyzed: 04/06/20

% Dry Solids	91.1		%		91.3			0.215	20	
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Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200554 - Paste Extract

Duplicate (B200554-DUP1) Source: 2004034-02 Prepared: 04/07/20 Analyzed: 04/08/20

pH	6.73		pH Units		6.69			0.596	20	
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Batch B200555 - Paste Extract

Duplicate (B200555-DUP1) Source: 2004034-02 Prepared: 04/07/20 Analyzed: 04/08/20

Conductivity	771		umho/cm @ 25.0°C		722			6.56	20	
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Batch B200556 - Paste Extract

Blank (B200556-BLK1) Prepared: 04/07/20 Analyzed: 04/09/20

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							

Duplicate (B200556-DUP1) Source: 2004034-02 Prepared: 04/07/20 Analyzed: 04/09/20

Calcium	121	0.100	mg/L		124			2.08	20	
Magnesium	17.7	0.100	mg/L		17.6			0.464	20	
SAR	0.16		No Unit		0.11			37.0	20	R1
Sodium	7.10	1.00	mg/L		4.95			35.7	20	R1

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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200580 - EPA 3050

Blank (B200580-BLK1)

Prepared: 04/14/20 Analyzed: 04/16/20

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	5.00	mg/kg dry							
Lead	ND	10.0	mg/kg dry							
Nickel	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

LCS (B200580-BS1)

Prepared: 04/14/20 Analyzed: 04/16/20

Barium	207	5.00	mg/kg dry	200	103	80-120				
Cadmium	193	5.00	mg/kg dry	200	96.5	80-120				
Chromium	199	5.00	mg/kg dry	200	99.6	80-120				
Copper	421	5.00	mg/kg dry	400	105	80-120				
Lead	198	10.0	mg/kg dry	200	99.1	80-120				
Nickel	203	5.00	mg/kg dry	200	101	80-120				
Selenium	855	20.0	mg/kg dry	800	107	80-120				
Silver	10.5	1.00	mg/kg dry	10.0	105	80-120				
Zinc	189	10.0	mg/kg dry	200	94.4	80-120				

LCS Dup (B200580-BSD1)

Prepared: 04/14/20 Analyzed: 04/16/20

Barium	202	5.00	mg/kg dry	200	101	80-120	2.44	20		
Cadmium	188	5.00	mg/kg dry	200	94.1	80-120	2.48	20		
Chromium	194	5.00	mg/kg dry	200	97.1	80-120	2.52	20		
Copper	412	5.00	mg/kg dry	400	103	80-120	2.10	20		
Lead	195	10.0	mg/kg dry	200	97.7	80-120	1.38	20		
Nickel	192	5.00	mg/kg dry	200	96.2	80-120	5.40	20		
Selenium	861	20.0	mg/kg dry	800	108	80-120	0.719	20		
Silver	10.3	1.00	mg/kg dry	10.0	103	80-120	1.44	20		
Zinc	185	10.0	mg/kg dry	200	92.6	80-120	1.96	20		

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200581 - EPA 3050M

Blank (B200581-BLK1)

Prepared: 04/13/20 Analyzed: 04/16/20

Arsenic ND 0.100 mg/kg dry

LCS (B200581-BS1)

Prepared: 04/13/20 Analyzed: 04/16/20

Arsenic 5.44 0.100 mg/kg dry 5.00 109 80-120

LCS Dup (B200581-BSD1)

Prepared: 04/13/20 Analyzed: 04/16/20

Arsenic 5.53 0.100 mg/kg dry 5.00 111 80-120 1.57 20

Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200562 - EPA 7471

Blank (B200562-BLK1)

Prepared: 04/13/20 Analyzed: 04/14/20

Mercury ND 0.0002 mg/kg wet

LCS (B200562-BS1)

Prepared: 04/13/20 Analyzed: 04/14/20

Mercury 0.0053 0.0002 mg/kg wet 0.00500 105 85-115

LCS Dup (B200562-BSD1)

Prepared: 04/13/20 Analyzed: 04/14/20

Mercury 0.0052 0.0002 mg/kg wet 0.00500 105 85-115 0.457 20

Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200551 - Hot Water Soluble Metals Extract

Blank (B200551-BLK1)

Prepared: 04/07/20 Analyzed: 04/09/20

Boron ND 1.20 mg/L

Duplicate (B200551-DUP1)

Source: 2004034-03

Prepared: 04/07/20 Analyzed: 04/09/20

Boron 0.540 1.20 mg/L 0.549 1.69 200

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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0040709 - Volatiles

Blank (0040709-BLK1)

Prepared: 04/07/20 Analyzed: 04/08/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	73.3-129			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (0040709-BS1)

Prepared: 04/07/20 Analyzed: 04/08/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	73.3-129			
Benzene	2.07	0.050	mg/kg	2.00		103	72.2-131			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126			
Toluene	2.06	0.050	mg/kg	2.00		103	71.7-126			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.6	71.4-125			

LCS Dup (0040709-BSD1)

Prepared: 04/07/20 Analyzed: 04/08/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	73.3-129			
Benzene	2.11	0.050	mg/kg	2.00		105	72.2-131	1.93	14.6	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	68.9-126	2.15	18.9	
Toluene	2.12	0.050	mg/kg	2.00		106	71.7-126	3.00	17.4	
Total Xylenes	6.10	0.150	mg/kg	6.00		102	71.4-125	2.14	18.5	

Batch 0040804 - Volatiles

Blank (0040804-BLK1)

Prepared & Analyzed: 04/08/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	73.3-129			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (0040804-BS1)

Prepared & Analyzed: 04/08/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			
Benzene	1.99	0.050	mg/kg	2.00		99.6	72.2-131			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	68.9-126			
Toluene	2.00	0.050	mg/kg	2.00		100	71.7-126			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.5	71.4-125			

LCS Dup (0040804-BSD1)

Prepared & Analyzed: 04/08/20

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Kinder Morgan 17801 Hwy 491 Cortez CO, 81321	Project: Table 910 Project Name / Number: Yellow Jacket PWP Spill Soil Sampling Project Manager: Michael Hannigan	Reported: 04/17/20 11:22
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0040804 - Volatiles (Continued)

LCS Dup (0040804-BSD1) (Continued)

Prepared & Analyzed: 04/08/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	73.3-129			
Benzene	2.03	0.050	mg/kg	2.00		102	72.2-131	2.15	14.6	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126	1.64	18.9	
Toluene	2.04	0.050	mg/kg	2.00		102	71.7-126	1.93	17.4	
Total Xylenes	6.01	0.150	mg/kg	6.00		100	71.4-125	1.61	18.5	

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0040713 - General Prep - Organics

Blank (0040713-BLK1)

Prepared: 04/07/20 Analyzed: 04/08/20

Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	42.2-156			
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.1	44.3-144			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (0040713-BS1)

Prepared: 04/07/20 Analyzed: 04/08/20

Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	42.2-156			
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.6	44.3-144			
DRO >C10-C28	193	10.0	mg/kg	200		96.5	80-132			
GRO C6-C10	195	10.0	mg/kg	200		97.7	78.8-127			
Total TPH C6-C28	388	10.0	mg/kg	400		97.1	81.3-128			

LCS Dup (0040713-BSD1)

Prepared: 04/07/20 Analyzed: 04/08/20

Surrogate: 1-Chlorooctadecane	54.9		mg/kg	50.0		110	42.2-156			
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	44.3-144			
DRO >C10-C28	196	10.0	mg/kg	200		97.9	80-132	1.39	17.1	
GRO C6-C10	196	10.0	mg/kg	200		98.2	78.8-127	0.487	15.1	
Total TPH C6-C28	392	10.0	mg/kg	400		98.0	81.3-128	0.936	15	

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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0040802 - SW846-3510

Blank (0040802-BLK1)

Prepared: 04/08/20 Analyzed: 04/13/20

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.81		mg/kg	2.00		90.7	19.4-118			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	0.011	0.040	mg/kg							J
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	1.55		mg/kg	2.00		77.6	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-dl4</i>	1.93		mg/kg	2.00		96.4	20.1-127			

LCS (0040802-BS1)

Prepared: 04/08/20 Analyzed: 04/13/20

1-Methylnaphthalene	0.382	0.040	mg/kg	0.400		95.4	41.5-115			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.10		mg/kg	2.00		105	19.4-118			
2-Methylnaphthalene	0.378	0.040	mg/kg	0.400		94.6	41.3-115			
Acenaphthene	0.387	0.040	mg/kg	0.400		96.7	40.8-115			
Acenaphthylene	0.375	0.040	mg/kg	0.400		93.8	39.6-115			
Anthracene	0.385	0.040	mg/kg	0.400		96.3	41.6-116			
Benzo[a]anthracene	0.439	0.040	mg/kg	0.400		110	38.1-120			
Benzo[a]pyrene	0.431	0.040	mg/kg	0.400		108	43.2-122			
Benzo[b]flouranthene	0.461	0.040	mg/kg	0.400		115	36-129			
Benzo[g,h,i]perylene	0.357	0.040	mg/kg	0.400		89.3	29.6-131			
Benzo[k]flouranthene	0.452	0.040	mg/kg	0.400		113	40.9-123			
Carbazole	0.371	0.040	mg/kg	0.400		92.7	41.3-117			
Chrysene	0.450	0.040	mg/kg	0.400		112	39.4-118			
Dibenz[a,h]anthracene	0.415	0.040	mg/kg	0.400		104	37-123			
Fluoranthene	0.407	0.040	mg/kg	0.400		102	42.5-116			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Kinder Morgan
17801 Hwy 491
Cortez CO, 81321

Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
04/17/20 11:22

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0040802 - SW846-3510 (Continued)

LCS (0040802-BS1) (Continued)

Prepared: 04/08/20 Analyzed: 04/13/20

Fluorene	0.391	0.040	mg/kg	0.400		97.8	40.8-115			
Indeno[1,2,3-cd]pyrene	0.411	0.040	mg/kg	0.400		103	40.5-121			
Naphthalene	0.377	0.040	mg/kg	0.400		94.3	37.2-118			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.78</i>		mg/kg	<i>2.00</i>		<i>88.9</i>	<i>11.5-118</i>			
Phenanthrene	0.391	0.040	mg/kg	0.400		97.8	41.6-117			
Pyrene	0.382	0.040	mg/kg	0.400		95.4	38.2-121			
<i>Surrogate: Terphenyl-d14</i>	<i>2.19</i>		mg/kg	<i>2.00</i>		<i>109</i>	<i>20.1-127</i>			

LCS Dup (0040802-BS1)

Prepared: 04/08/20 Analyzed: 04/13/20

1-Methylnaphthalene	0.385	0.040	mg/kg	0.400		96.4	41.5-115	0.959	5.67	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2.04</i>		mg/kg	<i>2.00</i>		<i>102</i>	<i>19.4-118</i>			
2-Methylnaphthalene	0.378	0.040	mg/kg	0.400		94.5	41.3-115	0.169	5.43	
Acenaphthene	0.384	0.040	mg/kg	0.400		95.9	40.8-115	0.795	5.45	
Acenaphthylene	0.367	0.040	mg/kg	0.400		91.7	39.6-115	2.20	4.49	
Anthracene	0.384	0.040	mg/kg	0.400		95.9	41.6-116	0.424	3.74	
Benzo[a]anthracene	0.442	0.040	mg/kg	0.400		111	38.1-120	0.694	3.05	
Benzo[a]pyrene	0.433	0.040	mg/kg	0.400		108	43.2-122	0.627	3.42	
Benzo[b]fluoranthene	0.469	0.040	mg/kg	0.400		117	36-129	1.77	32.9	
Benzo[g,h,i]perylene	0.358	0.040	mg/kg	0.400		89.5	29.6-131	0.308	6.1	
Benzo[k]fluoranthene	0.446	0.040	mg/kg	0.400		112	40.9-123	1.30	6.97	
Carbazole	0.366	0.040	mg/kg	0.400		91.6	41.3-117	1.23	5.33	
Chrysene	0.446	0.040	mg/kg	0.400		112	39.4-118	0.774	2.77	
Dibenz[a,h]anthracene	0.413	0.040	mg/kg	0.400		103	37-123	0.562	5.52	
Fluoranthene	0.406	0.040	mg/kg	0.400		101	42.5-116	0.357	6.41	
Fluorene	0.387	0.040	mg/kg	0.400		96.8	40.8-115	1.05	5.01	
Indeno[1,2,3-cd]pyrene	0.413	0.040	mg/kg	0.400		103	40.5-121	0.539	4.92	
Naphthalene	0.375	0.040	mg/kg	0.400		93.7	37.2-118	0.601	4.51	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.75</i>		mg/kg	<i>2.00</i>		<i>87.5</i>	<i>11.5-118</i>			
Phenanthrene	0.389	0.040	mg/kg	0.400		97.2	41.6-117	0.669	4.53	
Pyrene	0.387	0.040	mg/kg	0.400		96.8	38.2-121	1.39	8.61	
<i>Surrogate: Terphenyl-d14</i>	<i>2.19</i>		mg/kg	<i>2.00</i>		<i>109</i>	<i>20.1-127</i>			

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Kinder Morgan
17801 Hwy 491
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Project: Table 910
Project Name / Number: Yellow Jacket PWP Spill Soil Sampling
Project Manager: Michael Hannigan

Reported:
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Notes and Definitions

- RI Duplicate sample RPD exceeded laboratory acceptance criteria. Sample(s) may be difficult to homogenize.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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