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18 January 2021

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 12/28/20 11:00. 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'. The signature is written in a cursive, flowing style.

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 YC Cluster T-501  
Project Manager: Michael Hannigan

**Reported:**  
01/18/21 11:05

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  | Notes |
|-----------|---------------|--------|----------------|----------------|-------|
| YCPWS1    | 2012198-01    | Solid  | 12/26/20 11:30 | 12/28/20 11:00 | Q1    |

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Debbie Zufelt, Reports Manager

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17801 Hwy 491  
Cortez CO, 81321

Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

**YCPWS1****2012198-01 (Soil)**

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|

**General Chemistry**

|              |      |  |  |   |   |                |               |  |     |
|--------------|------|--|--|---|---|----------------|---------------|--|-----|
| % Dry Solids | 79.0 |  |  | % | 1 | 12/29/20 09:20 | EPA160.3/1684 |  | VJW |
|--------------|------|--|--|---|---|----------------|---------------|--|-----|

**Saturated Paste Extraction**

|              |      |       |       |                  |   |                |              |  |     |
|--------------|------|-------|-------|------------------|---|----------------|--------------|--|-----|
| Calcium      | 175  | 0.200 | 0.033 | mg/L             | 2 | 12/31/20 17:13 | EPA200.7     |  | AES |
| Conductivity | 1340 |       |       | umho/cm @ 25.0°C | 1 | 12/30/20 10:30 | ASA#9 10-3.3 |  | VJW |
| Magnesium    | 25.9 | 0.200 | 0.047 | mg/L             | 2 | 12/31/20 17:13 | EPA200.7     |  | AES |
| pH           | 7.50 |       |       | pH Units         | 1 | 12/30/20 08:15 | ASA#9 10-3.2 |  | VJW |
| SAR          | 0.70 |       |       | No Unit          | 1 | 12/31/20 17:13 | Calculation  |  | AES |
| Sodium       | 37.4 | 2.00  | 0.201 | mg/L             | 2 | 12/31/20 17:13 | EPA200.7     |  | AES |

**Total Metals by ICP**

|          |       |      |       |           |     |                |       |  |     |
|----------|-------|------|-------|-----------|-----|----------------|-------|--|-----|
| Barium   | 225   | 5.00 | 0.318 | mg/kg dry | 100 | 01/07/21 10:33 | 6010B |  | AES |
| Cadmium  | <5.00 | 5.00 | 0.310 | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |
| Chromium | 8.14  | 5.00 | 0.416 | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |
| Copper   | 7.81  | 5.00 | 1.40  | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |
| Lead     | <10.0 | 10.0 | 0.661 | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |
| Nickel   | 7.75  | 5.00 | 0.507 | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |
| Selenium | <20.0 | 20.0 | 7.60  | mg/kg dry | 100 | 01/07/21 10:33 | 6010B |  | AES |
| Silver   | <1.00 | 1.00 | 0.390 | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |
| Zinc     | 21.1  | 10.0 | 2.60  | mg/kg dry | 100 | 01/07/21 10:34 | 6010B |  | AES |

**Total Metals by ICPMS**

|         |      |      |        |           |      |                |       |  |     |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|
| Arsenic | 2.83 | 1.00 | 0.0807 | mg/kg dry | 1000 | 01/07/21 16:27 | 6020A |  | AES |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|

**Total Mercury by CVAA**

|         |         |        |        |           |     |                |         |  |     |
|---------|---------|--------|--------|-----------|-----|----------------|---------|--|-----|
| Mercury | <0.0506 | 0.0506 | 0.0029 | mg/kg dry | 200 | 01/07/21 12:06 | EPA7471 |  | LLG |
|---------|---------|--------|--------|-----------|-----|----------------|---------|--|-----|

**Hot Water Extractable**

|       |       |      |       |      |   |                |          |  |     |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|
| Boron | <1.20 | 1.20 | 0.059 | mg/L | 4 | 12/31/20 17:22 | EPA200.7 |  | AES |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|

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Cortez CO, 81321

Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

**YCPWS1****2012198-01 (Soil)**

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|

**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

|                |        |       |       |       |    |                |       |  |    |
|----------------|--------|-------|-------|-------|----|----------------|-------|--|----|
| Benzene*       | <0.050 | 0.050 | 0.005 | mg/kg | 50 | 12/31/20 18:04 | 8021B |  | MS |
| Toluene*       | <0.050 | 0.050 | 0.004 | mg/kg | 50 | 12/31/20 18:04 | 8021B |  | MS |
| Ethylbenzene*  | <0.050 | 0.050 | 0.006 | mg/kg | 50 | 12/31/20 18:04 | 8021B |  | MS |
| Total Xylenes* | <0.150 | 0.150 | 0.013 | mg/kg | 50 | 12/31/20 18:04 | 8021B |  | MS |
| Total BTEX     | <0.300 | 0.300 | 0.018 | mg/kg | 50 | 12/31/20 18:04 | 8021B |  | MS |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 12/31/20 18:04 8021B MS

**Petroleum Hydrocarbons by GC FID**

|                  |       |      |      |       |   |                |       |  |    |
|------------------|-------|------|------|-------|---|----------------|-------|--|----|
| GRO C6-C10*      | <10.0 | 10.0 | 1.97 | mg/kg | 1 | 01/04/21 14:56 | 8015B |  | MS |
| DRO >C10-C28*    | <10.0 | 10.0 | 2.97 | mg/kg | 1 | 01/04/21 14:56 | 8015B |  | MS |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 2.97 | mg/kg | 1 | 01/04/21 14:56 | 8015B |  | MS |

Surrogate: 1-Chlorooctane 99.1 % 44.3-144 01/04/21 14:56 8015B MS

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156 01/04/21 14:56 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

|                       |         |       |        |       |    |                |       |       |    |
|-----------------------|---------|-------|--------|-------|----|----------------|-------|-------|----|
| Naphthalene*          | <0.004  | 0.040 | 0.004  | mg/kg | 40 | 01/08/21 11:06 | 8270C | QR-03 | MS |
| 2-Methylnaphthalene*  | <0.002  | 0.040 | 0.002  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| 1-Methylnaphthalene   | <0.006  | 0.040 | 0.006  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Acenaphthylene*       | <0.002  | 0.040 | 0.002  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Acenaphthene*         | <0.003  | 0.040 | 0.003  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Fluorene*             | <0.003  | 0.040 | 0.003  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Phenanthrene*         | <0.005  | 0.040 | 0.005  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Anthracene*           | <0.004  | 0.040 | 0.004  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Carbazole*            | <0.004  | 0.040 | 0.004  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Fluoranthene*         | <0.002  | 0.040 | 0.002  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Pyrene*               | <0.003  | 0.040 | 0.003  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Benzo[a]anthracene*   | <0.002  | 0.040 | 0.002  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Chrysene*             | <0.0008 | 0.040 | 0.0008 | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Benzo[b]fluoranthene* | <0.002  | 0.040 | 0.002  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Benzo[k]fluoranthene* | <0.002  | 0.040 | 0.002  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |
| Benzo[a]pyrene*       | <0.004  | 0.040 | 0.004  | mg/kg | 40 | 01/08/21 11:06 | 8270C |       | MS |

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Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

**YCPWS1****2012198-01 (Soil)**

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|

**Subcontracted -- Cardinal Laboratories****Polynuclear Aromatic Compounds by GC/MS**

|                             |        |       |        |          |    |                |       |  |    |
|-----------------------------|--------|-------|--------|----------|----|----------------|-------|--|----|
| Indeno[1,2,3-cd]pyrene*     | <0.003 | 0.040 | 0.003  | mg/kg    | 40 | 01/08/21 11:06 | 8270C |  | MS |
| Dibenz[a,h]anthracene*      | <0.004 | 0.040 | 0.004  | mg/kg    | 40 | 01/08/21 11:06 | 8270C |  | MS |
| Benzo[g,h,i]perylene*       | <0.004 | 0.040 | 0.004  | mg/kg    | 40 | 01/08/21 11:06 | 8270C |  | MS |
| Surrogate: Nitrobenzene-d5  |        |       | 74.7 % | 11.5-118 |    | 01/08/21 11:06 | 8270C |  | MS |
| Surrogate: 2-Fluorobiphenyl |        |       | 79.1 % | 19.4-118 |    | 01/08/21 11:06 | 8270C |  | MS |
| Surrogate: Terphenyl-d14    |        |       | 42.5 % | 20.1-127 |    | 01/08/21 11:06 | 8270C |  | MS |

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Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

### General Chemistry - Quality Control

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch B202814 - General Prep - Wet Chem

Duplicate (B202814-DUP1) Source: 2012188-01 Prepared: 12/28/20 Analyzed: 12/29/20

|              |      |  |   |  |      |  |  |      |    |  |
|--------------|------|--|---|--|------|--|--|------|----|--|
| % Dry Solids | 83.6 |  | % |  | 84.6 |  |  | 1.20 | 20 |  |
|--------------|------|--|---|--|------|--|--|------|----|--|

### Saturated Paste Extraction - Quality Control

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch B202823 - Paste Extract

Duplicate (B202823-DUP1) Source: 2012188-01 Prepared: 12/29/20 Analyzed: 12/30/20

|              |      |  |                     |  |      |  |  |      |    |  |
|--------------|------|--|---------------------|--|------|--|--|------|----|--|
| Conductivity | 4910 |  | umho/cm @<br>25.0°C |  | 4800 |  |  | 2.27 | 20 |  |
|--------------|------|--|---------------------|--|------|--|--|------|----|--|

Reference (B202823-SRM1) Prepared: 12/29/20 Analyzed: 12/30/20

|              |      |  |                     |      |  |     |        |  |  |  |
|--------------|------|--|---------------------|------|--|-----|--------|--|--|--|
| Conductivity | 7290 |  | umho/cm @<br>25.0°C | 6720 |  | 108 | 90-110 |  |  |  |
|--------------|------|--|---------------------|------|--|-----|--------|--|--|--|

#### Batch B202824 - Paste Extract

Duplicate (B202824-DUP1) Source: 2012188-01 Prepared: 12/29/20 Analyzed: 12/30/20

|    |      |  |          |  |      |  |  |       |    |  |
|----|------|--|----------|--|------|--|--|-------|----|--|
| pH | 8.47 |  | pH Units |  | 8.50 |  |  | 0.354 | 20 |  |
|----|------|--|----------|--|------|--|--|-------|----|--|

Reference (B202824-SRM1) Prepared: 12/29/20 Analyzed: 12/30/20

|    |      |  |          |      |  |      |        |  |  |  |
|----|------|--|----------|------|--|------|--------|--|--|--|
| pH | 9.05 |  | pH Units | 9.14 |  | 99.0 | 95-105 |  |  |  |
|----|------|--|----------|------|--|------|--------|--|--|--|

#### Batch B202825 - Paste Extract

Blank (B202825-BLK1) Prepared: 12/29/20 Analyzed: 12/31/20

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

Duplicate (B202825-DUP1) Source: 2012188-01 Prepared: 12/29/20 Analyzed: 12/31/20

|           |      |      |         |  |      |  |  |      |    |  |
|-----------|------|------|---------|--|------|--|--|------|----|--|
| Calcium   | 42.0 | 1.00 | mg/L    |  | 37.5 |  |  | 11.4 | 20 |  |
| Magnesium | 8.75 | 1.00 | mg/L    |  | 7.92 |  |  | 9.95 | 20 |  |
| SAR       | 35.0 |      | No Unit |  | 35.9 |  |  | 2.40 | 20 |  |
| Sodium    | 955  | 10.0 | mg/L    |  | 926  |  |  | 3.16 | 20 |  |

Reference (B202825-SRM1) Prepared: 12/29/20 Analyzed: 12/31/20

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Project: Table 910  
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Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

**Saturated Paste Extraction - Quality Control  
(Continued)**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B202825 - Paste Extract (Continued)**

**Reference (B202825-SRM1) (Continued)**

Prepared: 12/29/20 Analyzed: 12/31/20

|     |      |         |      |      |        |
|-----|------|---------|------|------|--------|
| SAR | 7.35 | No Unit | 7.50 | 98.0 | 90-110 |
|-----|------|---------|------|------|--------|

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Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

### Total Metals by ICP - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch B210025 - EPA 3050

##### Blank (B210025-BLK1)

Prepared: 01/06/21 Analyzed: 01/07/21

|          |    |      |           |
|----------|----|------|-----------|
| 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 (B210025-BS1)

Prepared: 01/06/21 Analyzed: 01/07/21

|          |      |      |           |      |      |        |
|----------|------|------|-----------|------|------|--------|
| Barium   | 195  | 5.00 | mg/kg dry | 200  | 97.3 | 80-120 |
| Cadmium  | 182  | 5.00 | mg/kg dry | 200  | 91.1 | 80-120 |
| Chromium | 198  | 5.00 | mg/kg dry | 200  | 99.2 | 80-120 |
| Copper   | 408  | 5.00 | mg/kg dry | 400  | 102  | 80-120 |
| Lead     | 190  | 10.0 | mg/kg dry | 200  | 95.0 | 80-120 |
| Nickel   | 192  | 5.00 | mg/kg dry | 200  | 95.9 | 80-120 |
| Selenium | 808  | 20.0 | mg/kg dry | 800  | 101  | 80-120 |
| Silver   | 9.63 | 1.00 | mg/kg dry | 10.0 | 96.3 | 80-120 |
| Zinc     | 183  | 10.0 | mg/kg dry | 200  | 91.5 | 80-120 |

##### LCS Dup (B210025-BSD1)

Prepared: 01/06/21 Analyzed: 01/07/21

|          |      |      |           |      |      |        |       |    |
|----------|------|------|-----------|------|------|--------|-------|----|
| Barium   | 194  | 5.00 | mg/kg dry | 200  | 97.0 | 80-120 | 0.247 | 20 |
| Cadmium  | 182  | 5.00 | mg/kg dry | 200  | 90.9 | 80-120 | 0.170 | 20 |
| Chromium | 198  | 5.00 | mg/kg dry | 200  | 98.9 | 80-120 | 0.231 | 20 |
| Copper   | 409  | 5.00 | mg/kg dry | 400  | 102  | 80-120 | 0.130 | 20 |
| Lead     | 186  | 10.0 | mg/kg dry | 200  | 92.8 | 80-120 | 2.33  | 20 |
| Nickel   | 188  | 5.00 | mg/kg dry | 200  | 93.9 | 80-120 | 2.06  | 20 |
| Selenium | 799  | 20.0 | mg/kg dry | 800  | 99.8 | 80-120 | 1.17  | 20 |
| Silver   | 9.42 | 1.00 | mg/kg dry | 10.0 | 94.2 | 80-120 | 2.22  | 20 |
| Zinc     | 178  | 10.0 | mg/kg dry | 200  | 89.2 | 80-120 | 2.52  | 20 |

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Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

### Total Metals by ICPMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch B210026 - EPA 3050M

##### Blank (B210026-BLK1)

Prepared: 01/06/21 Analyzed: 01/07/21

|         |    |       |           |  |  |  |  |  |  |  |
|---------|----|-------|-----------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.100 | mg/kg dry |  |  |  |  |  |  |  |
|---------|----|-------|-----------|--|--|--|--|--|--|--|

##### LCS (B210026-BS1)

Prepared: 01/06/21 Analyzed: 01/07/21

|         |      |       |           |      |  |     |        |  |  |  |
|---------|------|-------|-----------|------|--|-----|--------|--|--|--|
| Arsenic | 5.14 | 0.100 | mg/kg dry | 5.00 |  | 103 | 80-120 |  |  |  |
|---------|------|-------|-----------|------|--|-----|--------|--|--|--|

##### LCS Dup (B210026-BSD1)

Prepared: 01/06/21 Analyzed: 01/07/21

|         |      |       |           |      |  |     |        |       |    |  |
|---------|------|-------|-----------|------|--|-----|--------|-------|----|--|
| Arsenic | 5.11 | 0.100 | mg/kg dry | 5.00 |  | 102 | 80-120 | 0.513 | 20 |  |
|---------|------|-------|-----------|------|--|-----|--------|-------|----|--|

### Total Mercury by CVAA - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch B210016 - EPA 7471

##### Blank (B210016-BLK1)

Prepared: 01/05/21 Analyzed: 01/07/21

|         |    |        |           |  |  |  |  |  |  |  |
|---------|----|--------|-----------|--|--|--|--|--|--|--|
| Mercury | ND | 0.0002 | mg/kg wet |  |  |  |  |  |  |  |
|---------|----|--------|-----------|--|--|--|--|--|--|--|

##### LCS (B210016-BS1)

Prepared: 01/05/21 Analyzed: 01/07/21

|         |        |        |           |         |  |     |        |  |  |  |
|---------|--------|--------|-----------|---------|--|-----|--------|--|--|--|
| Mercury | 0.0050 | 0.0002 | mg/kg wet | 0.00500 |  | 100 | 85-115 |  |  |  |
|---------|--------|--------|-----------|---------|--|-----|--------|--|--|--|

##### LCS Dup (B210016-BSD1)

Prepared: 01/05/21 Analyzed: 01/07/21

|         |        |        |           |         |  |     |        |       |    |  |
|---------|--------|--------|-----------|---------|--|-----|--------|-------|----|--|
| Mercury | 0.0051 | 0.0002 | mg/kg wet | 0.00500 |  | 101 | 85-115 | 0.695 | 20 |  |
|---------|--------|--------|-----------|---------|--|-----|--------|-------|----|--|

### Hot Water Extractable - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch B202822 - Hot Water Soluble Metals Extract

##### Blank (B202822-BLK1)

Prepared: 12/29/20 Analyzed: 12/31/20

|       |    |      |      |  |  |  |  |  |  |  |
|-------|----|------|------|--|--|--|--|--|--|--|
| Boron | ND | 1.20 | mg/L |  |  |  |  |  |  |  |
|-------|----|------|------|--|--|--|--|--|--|--|

##### Duplicate (B202822-DUP1)

Source: 2012198-01

Prepared: 12/29/20 Analyzed: 12/31/20

|       |       |      |      |  |       |  |  |      |     |  |
|-------|-------|------|------|--|-------|--|--|------|-----|--|
| Boron | 0.873 | 1.20 | mg/L |  | 0.847 |  |  | 2.97 | 200 |  |
|-------|-------|------|------|--|-------|--|--|------|-----|--|

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Debbie Zufelt, Reports Manager

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Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch 0123103 - Volatiles

##### Blank (0123103-BLK1)

Prepared &amp; Analyzed: 12/31/20

|                                       |        |       |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0509 |       | mg/kg | 0.0500 |  | 102 | 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 (0123103-BS1)

Prepared &amp; Analyzed: 12/31/20

|                                       |        |       |       |        |  |      |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0502 |       | mg/kg | 0.0500 |  | 100  | 73.3-129 |  |  |  |
| Benzene                               | 1.97   | 0.050 | mg/kg | 2.00   |  | 98.4 | 72.2-131 |  |  |  |
| Ethylbenzene                          | 1.97   | 0.050 | mg/kg | 2.00   |  | 98.6 | 68.9-126 |  |  |  |
| Toluene                               | 1.90   | 0.050 | mg/kg | 2.00   |  | 94.8 | 71.7-126 |  |  |  |
| Total Xylenes                         | 5.61   | 0.150 | mg/kg | 6.00   |  | 93.5 | 71.4-125 |  |  |  |

##### LCS Dup (0123103-BSD1)

Prepared &amp; Analyzed: 12/31/20

|                                       |        |       |       |        |  |      |          |      |      |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0496 |       | mg/kg | 0.0500 |  | 99.3 | 73.3-129 |      |      |  |
| Benzene                               | 1.99   | 0.050 | mg/kg | 2.00   |  | 99.7 | 72.2-131 | 1.28 | 14.6 |  |
| Ethylbenzene                          | 2.01   | 0.050 | mg/kg | 2.00   |  | 100  | 68.9-126 | 1.74 | 18.9 |  |
| Toluene                               | 1.92   | 0.050 | mg/kg | 2.00   |  | 96.0 | 71.7-126 | 1.25 | 17.4 |  |
| Total Xylenes                         | 5.70   | 0.150 | mg/kg | 6.00   |  | 95.0 | 71.4-125 | 1.57 | 18.5 |  |

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Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

### Petroleum Hydrocarbons by GC FID - Quality Control

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch 1010403 - General Prep - Organics

##### Blank (1010403-BLK1)

Prepared & Analyzed: 01/04/21

|                               |      |      |       |      |  |     |          |  |  |  |
|-------------------------------|------|------|-------|------|--|-----|----------|--|--|--|
| Surrogate: 1-Chlorooctadecane | 50.1 |      | mg/kg | 50.0 |  | 100 | 42.2-156 |  |  |  |
| Surrogate: 1-Chlorooctane     | 52.6 |      | mg/kg | 50.0 |  | 105 | 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 (1010403-BS1)

Prepared & Analyzed: 01/04/21

|                               |      |      |       |      |  |      |          |  |  |  |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| Surrogate: 1-Chlorooctadecane | 55.3 |      | mg/kg | 50.0 |  | 111  | 42.2-156 |  |  |  |
| Surrogate: 1-Chlorooctane     | 55.6 |      | mg/kg | 50.0 |  | 111  | 44.3-144 |  |  |  |
| DRO >C10-C28                  | 195  | 10.0 | mg/kg | 200  |  | 97.7 | 80.4-133 |  |  |  |
| GRO C6-C10                    | 213  | 10.0 | mg/kg | 200  |  | 107  | 83.7-135 |  |  |  |
| Total TPH C6-C28              | 409  | 10.0 | mg/kg | 400  |  | 102  | 83.1-133 |  |  |  |

##### LCS Dup (1010403-BSD1)

Prepared & Analyzed: 01/04/21

|                               |      |      |       |      |  |     |          |      |      |  |
|-------------------------------|------|------|-------|------|--|-----|----------|------|------|--|
| Surrogate: 1-Chlorooctadecane | 56.0 |      | mg/kg | 50.0 |  | 112 | 42.2-156 |      |      |  |
| Surrogate: 1-Chlorooctane     | 56.8 |      | mg/kg | 50.0 |  | 114 | 44.3-144 |      |      |  |
| DRO >C10-C28                  | 202  | 10.0 | mg/kg | 200  |  | 101 | 80.4-133 | 3.33 | 22.1 |  |
| GRO C6-C10                    | 220  | 10.0 | mg/kg | 200  |  | 110 | 83.7-135 | 3.02 | 13.8 |  |
| Total TPH C6-C28              | 422  | 10.0 | mg/kg | 400  |  | 105 | 83.1-133 | 3.17 | 17.7 |  |

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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 YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch 0123114 - SW846-3510

##### Blank (0123114-BLK1)

Prepared: 12/31/20 Analyzed: 01/08/21

|                             |       |       |       |      |  |      |          |  |  |  |
|-----------------------------|-------|-------|-------|------|--|------|----------|--|--|--|
| 1-Methylnaphthalene         | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 1.55  |       | mg/kg | 2.00 |  | 77.4 | 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]fluoranthene        | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Benzo[g,h,i]perylene        | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Benzo[k]fluoranthene        | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Carbazole                   | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Chrysene                    | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Dibenz[a,h]anthracene       | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| 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 |      |  |      |          |  |  |  |
| Surrogate: Nitrobenzene-d5  | 1.51  |       | mg/kg | 2.00 |  | 75.7 | 11.5-118 |  |  |  |
| Phenanthrene                | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Pyrene                      | ND    | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Surrogate: Terphenyl-d14    | 0.859 |       | mg/kg | 2.00 |  | 43.0 | 20.1-127 |  |  |  |

##### LCS (0123114-BS1)

Prepared: 12/31/20 Analyzed: 01/08/21

|                             |       |       |       |       |  |      |          |  |  |  |
|-----------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| 1-Methylnaphthalene         | 0.366 | 0.040 | mg/kg | 0.400 |  | 91.4 | 41.5-115 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 1.52  |       | mg/kg | 2.00  |  | 76.2 | 19.4-118 |  |  |  |
| 2-Methylnaphthalene         | 0.352 | 0.040 | mg/kg | 0.400 |  | 88.0 | 41.3-115 |  |  |  |
| Acenaphthene                | 0.349 | 0.040 | mg/kg | 0.400 |  | 87.2 | 40.8-115 |  |  |  |
| Acenaphthylene              | 0.351 | 0.040 | mg/kg | 0.400 |  | 87.8 | 39.6-115 |  |  |  |
| Anthracene                  | 0.360 | 0.040 | mg/kg | 0.400 |  | 90.1 | 41.6-116 |  |  |  |
| Benzo[a]anthracene          | 0.393 | 0.040 | mg/kg | 0.400 |  | 98.2 | 38.1-120 |  |  |  |
| Benzo[a]pyrene              | 0.361 | 0.040 | mg/kg | 0.400 |  | 90.3 | 43.2-122 |  |  |  |
| Benzo[b]fluoranthene        | 0.343 | 0.040 | mg/kg | 0.400 |  | 85.8 | 36-129   |  |  |  |
| Benzo[g,h,i]perylene        | 0.338 | 0.040 | mg/kg | 0.400 |  | 84.4 | 29.6-131 |  |  |  |
| Benzo[k]fluoranthene        | 0.337 | 0.040 | mg/kg | 0.400 |  | 84.2 | 40.9-123 |  |  |  |
| Carbazole                   | 0.374 | 0.040 | mg/kg | 0.400 |  | 93.6 | 41.3-117 |  |  |  |
| Chrysene                    | 0.428 | 0.040 | mg/kg | 0.400 |  | 107  | 39.4-118 |  |  |  |
| Dibenz[a,h]anthracene       | 0.348 | 0.040 | mg/kg | 0.400 |  | 87.0 | 37-123   |  |  |  |
| Fluoranthene                | 0.367 | 0.040 | mg/kg | 0.400 |  | 91.7 | 42.5-116 |  |  |  |

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Debbie Zufelt, Reports Manager

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Kinder Morgan  
17801 Hwy 491  
Cortez CO, 81321

Project: Table 910  
Project Name / Number: Yellow Jacket YC Cluster T-501  
Project Manager: Michael Hannigan

Reported:  
01/18/21 11:05

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 0123114 - SW846-3510 (Continued)**

**LCS (0123114-BS1) (Continued)**

Prepared: 12/31/20 Analyzed: 01/08/21

|                            |       |       |       |       |  |      |          |  |  |  |
|----------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Fluorene                   | 0.348 | 0.040 | mg/kg | 0.400 |  | 86.9 | 40.8-115 |  |  |  |
| Indeno[1,2,3-cd]pyrene     | 0.352 | 0.040 | mg/kg | 0.400 |  | 88.0 | 40.5-121 |  |  |  |
| Naphthalene                | 0.350 | 0.040 | mg/kg | 0.400 |  | 87.4 | 37.2-118 |  |  |  |
| Surrogate: Nitrobenzene-d5 | 1.57  |       | mg/kg | 2.00  |  | 78.3 | 11.5-118 |  |  |  |
| Phenanthrene               | 0.354 | 0.040 | mg/kg | 0.400 |  | 88.4 | 41.6-117 |  |  |  |
| Pyrene                     | 0.386 | 0.040 | mg/kg | 0.400 |  | 96.5 | 38.2-121 |  |  |  |
| Surrogate: Terphenyl-d14   | 0.959 |       | mg/kg | 2.00  |  | 48.0 | 20.1-127 |  |  |  |

**LCS Dup (0123114-BS1)**

Prepared: 12/31/20 Analyzed: 01/08/21

|                             |       |       |       |       |  |      |          |       |      |       |
|-----------------------------|-------|-------|-------|-------|--|------|----------|-------|------|-------|
| 1-Methylnaphthalene         | 0.354 | 0.040 | mg/kg | 0.400 |  | 88.4 | 41.5-115 | 3.38  | 5.67 |       |
| Surrogate: 2-Fluorobiphenyl | 1.53  |       | mg/kg | 2.00  |  | 76.5 | 19.4-118 |       |      |       |
| 2-Methylnaphthalene         | 0.353 | 0.040 | mg/kg | 0.400 |  | 88.3 | 41.3-115 | 0.298 | 5.43 |       |
| Acenaphthene                | 0.352 | 0.040 | mg/kg | 0.400 |  | 87.9 | 40.8-115 | 0.794 | 5.45 |       |
| Acenaphthylene              | 0.340 | 0.040 | mg/kg | 0.400 |  | 85.0 | 39.6-115 | 3.24  | 4.49 |       |
| Anthracene                  | 0.351 | 0.040 | mg/kg | 0.400 |  | 87.7 | 41.6-116 | 2.78  | 3.74 |       |
| Benzo[a]anthracene          | 0.376 | 0.040 | mg/kg | 0.400 |  | 94.1 | 38.1-120 | 4.25  | 3.05 | QR-02 |
| Benzo[a]pyrene              | 0.352 | 0.040 | mg/kg | 0.400 |  | 88.0 | 43.2-122 | 2.56  | 3.42 |       |
| Benzo[b]fluoranthene        | 0.349 | 0.040 | mg/kg | 0.400 |  | 87.3 | 36-129   | 1.74  | 32.9 |       |
| Benzo[g,h,i]perylene        | 0.340 | 0.040 | mg/kg | 0.400 |  | 85.0 | 29.6-131 | 0.714 | 6.1  |       |
| Benzo[k]fluoranthene        | 0.337 | 0.040 | mg/kg | 0.400 |  | 84.3 | 40.9-123 | 0.181 | 6.97 |       |
| Carbazole                   | 0.363 | 0.040 | mg/kg | 0.400 |  | 90.8 | 41.3-117 | 3.07  | 5.33 |       |
| Chrysene                    | 0.413 | 0.040 | mg/kg | 0.400 |  | 103  | 39.4-118 | 3.64  | 2.77 | QR-02 |
| Dibenz[a,h]anthracene       | 0.349 | 0.040 | mg/kg | 0.400 |  | 87.2 | 37-123   | 0.284 | 5.52 |       |
| Fluoranthene                | 0.363 | 0.040 | mg/kg | 0.400 |  | 90.7 | 42.5-116 | 1.06  | 6.41 |       |
| Fluorene                    | 0.343 | 0.040 | mg/kg | 0.400 |  | 85.8 | 40.8-115 | 1.19  | 5.01 |       |
| Indeno[1,2,3-cd]pyrene      | 0.351 | 0.040 | mg/kg | 0.400 |  | 87.9 | 40.5-121 | 0.162 | 4.92 |       |
| Naphthalene                 | 0.343 | 0.040 | mg/kg | 0.400 |  | 85.7 | 37.2-118 | 2.00  | 4.51 |       |
| Surrogate: Nitrobenzene-d5  | 1.52  |       | mg/kg | 2.00  |  | 76.2 | 11.5-118 |       |      |       |
| Phenanthrene                | 0.338 | 0.040 | mg/kg | 0.400 |  | 84.6 | 41.6-117 | 4.41  | 4.53 |       |
| Pyrene                      | 0.381 | 0.040 | mg/kg | 0.400 |  | 95.2 | 38.2-121 | 1.32  | 8.61 |       |
| Surrogate: Terphenyl-d14    | 0.969 |       | mg/kg | 2.00  |  | 48.5 | 20.1-127 |       |      |       |

Green Analytical Laboratories

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 YC Cluster T-501  
Project Manager: Michael Hannigan

**Reported:**  
01/18/21 11:05

### Notes and Definitions

|       |   |
|-------|---|
| 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.                 |
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| Q1    | Sample received outside of acceptable temperature range for analyses requiring cold storage.  |
| 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<br>*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  |

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006

COC - Revision 5.0

(970) 247-4220  
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com  
75 Suttle St Durango, CO 81303

ANALYSIS REQUEST

Bill to (if different):

Company or Client: Kinder Morgan CO2 Company, L.P.  
Address: 17801 U.S. Highway 491  
City: Cortez State: CO Zip: 81321

P.O. #:

Phone #: (970) 882-5532

Contact Person: Michael Hannigan  
Email Report to: michael\_hannigan@kindermorgan.com

Project Name (optional): YELLOW JACKET YC CU SUB T-501

Sample Name (Print): Michael Hannigan

Matrix (check one)

Phone #:

Email:

Company:

Attn:

Address:

City:

State:

Zip:

Matrix (check one)

GROUNDWATER

SURFACEWATER

WASTEWATER

PRODUCEDWATER

SOIL

DRINKING WATER

OTHER :

No preservation (general)

HNO<sub>3</sub>

HCl

H<sub>2</sub>SO<sub>4</sub>

Other:

Other:

# of containers

3

CDGCL TABLE 910-1 FULL SUITE  
(ORGANICS/INORGANICS/METALS)

2012-198,01

YC PWS1

14/26/20 11:30

For Lab Use

Sample Name or Location

Collected

Date

Time

Relinquished By: Michael Hannigan

Date: 12/28/20

Time: 11:00

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

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