



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
www.greenanalytical.com

27 September 2021

Kyle Siesser  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 09/03/21 11:15. 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. TNI Certificate Number: T104704514-21-12

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. TNI Certificate Number: T104704398-21-14



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Margaret Spaulding (OWP) 12-A  
Project Manager: Kyle Siesser

Reported:  
09/27/21 15:21

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  | Notes |
|-----------|---------------|--------|----------------|----------------|-------|
| SS01      | 2109058-01    | Solid  | 09/01/21 11:40 | 09/03/21 11:15 |       |
| SS02      | 2109058-02    | Solid  | 09/01/21 11:35 | 09/03/21 11:15 |       |
| SS03      | 2109058-03    | Solid  | 09/01/21 11:30 | 09/03/21 11:15 |       |
| SS04      | 2109058-04    | Solid  | 09/01/21 11:25 | 09/03/21 11:15 |       |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**SS01**

**2109058-01 (Soil)**

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

**General Chemistry**

|                     |        |       |        |       |    |                |                 |    |     |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|----|-----|
| Hexavalent Chromium | <0.250 | 0.250 | 0.0543 | mg/kg | 25 | 09/23/21 13:00 | 3060A/3500-Cr D | M5 | JDA |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|----|-----|

**Saturated Paste Extraction**

|              |      |       |       |                     |   |                |              |  |     |
|--------------|------|-------|-------|---------------------|---|----------------|--------------|--|-----|
| Calcium      | 104  | 0.100 | 0.058 | mg/L                | 1 | 09/23/21 13:59 | EPA200.7     |  | AES |
| Conductivity | 632  |       |       | umho/cm @<br>25.0°C | 1 | 09/23/21 09:50 | ASA#9 10-3.3 |  | VJW |
| Magnesium    | 12.2 | 0.100 | 0.065 | mg/L                | 1 | 09/23/21 13:59 | EPA200.7     |  | AES |
| pH           | 7.06 |       |       | pH Units            | 1 | 09/23/21 07:44 | ASA#9 10-3.2 |  | VJW |
| SAR          | 0.37 |       |       | No Unit             | 1 | 09/23/21 13:59 | Calculation  |  | AES |
| Sodium       | 14.8 | 1.00  | 0.079 | mg/L                | 1 | 09/23/21 13:59 | EPA200.7     |  | AES |

**Total Metals by ICP**

|          |       |      |       |           |     |                |       |     |     |
|----------|-------|------|-------|-----------|-----|----------------|-------|-----|-----|
| Barium   | 866   | 5.00 | 0.390 | mg/kg dry | 100 | 09/21/21 13:52 | 6010B |     | AES |
| Cadmium  | <5.00 | 5.00 | 1.10  | mg/kg dry | 100 | 09/21/21 13:52 | 6010B | SD2 | AES |
| Chromium | 85.7  | 5.00 | 0.400 | mg/kg dry | 100 | 09/21/21 13:52 | 6010B | SD2 | AES |
| Copper   | 46.4  | 5.00 | 2.39  | mg/kg dry | 100 | 09/21/21 13:52 | 6010B |     | AES |
| Lead     | 1020  | 10.0 | 0.906 | mg/kg dry | 100 | 09/21/21 13:52 | 6010B |     | AES |
| Nickel   | 35.1  | 5.00 | 0.874 | mg/kg dry | 100 | 09/21/21 13:52 | 6010B | SD2 | AES |
| Selenium | <20.0 | 20.0 | 4.70  | mg/kg dry | 100 | 09/21/21 13:52 | 6010B | SD2 | AES |
| Silver   | <1.00 | 1.00 | 0.688 | mg/kg dry | 100 | 09/21/21 13:52 | 6010B |     | AES |
| Zinc     | 128   | 10.0 | 1.71  | mg/kg dry | 100 | 09/21/21 13:52 | 6010B |     | AES |

**Total Metals by ICPMS**

|         |      |      |        |           |      |                |       |  |     |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|
| Arsenic | 4.12 | 1.00 | 0.0950 | mg/kg dry | 1000 | 09/17/21 14:12 | 6020A |  | AES |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|

**Hot Water Extractable**

|       |       |      |       |      |   |                |          |  |     |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|
| Boron | <1.20 | 1.20 | 0.568 | mg/L | 4 | 09/22/21 15:46 | EPA200.7 |  | AES |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

**S-06**

|                  |       |     |      |       |    |                |       |  |    |
|------------------|-------|-----|------|-------|----|----------------|-------|--|----|
| GRO C6-C10*      | 107   | 100 | 62.5 | mg/kg | 10 | 09/11/21 06:12 | 8015B |  | MS |
| DRO >C10-C28*    | 30500 | 100 | 42.6 | mg/kg | 10 | 09/11/21 06:12 | 8015B |  | MS |
| EXT DRO >C28-C36 | 12800 | 100 | 42.6 | mg/kg | 10 | 09/11/21 06:12 | 8015B |  | MS |

Surrogate: 1-Chlorooctane 134 % 44.3-133 09/11/21 06:12 8015B MS

Surrogate: 1-Chlorooctadecane 771 % 38.9-142 09/11/21 06:12 8015B MS

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

SS01

2109058-01 (Soil)

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

**VOLATILES BY GC/MS**

|                        |         |        |         |       |    |                |       |  |    |
|------------------------|---------|--------|---------|-------|----|----------------|-------|--|----|
| Benzene*               | 0.0279  | 0.0250 | 0.00885 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| Toluene*               | 0.0607  | 0.0250 | 0.00670 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| Ethylbenzene*          | <0.0250 | 0.0250 | 0.00405 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| m+p - Xylene*          | <0.0500 | 0.0500 | 0.0186  | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| o-Xylene*              | <0.0250 | 0.0250 | 0.00700 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| Total Xylenes*         | <0.0750 | 0.0750 | 0.0250  | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| 1,3,5-Trimethylbenzene | 0.0326  | 0.0250 | 0.00450 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| 1,2,4-Trimethylbenzene | <0.0250 | 0.0250 | 0.00650 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |
| Naphthalene*           | 0.0292  | 0.0250 | 0.00500 | mg/kg | 50 | 09/10/21 19:15 | 8260B |  | MS |

|                                 |  |  |        |          |  |                |       |      |    |
|---------------------------------|--|--|--------|----------|--|----------------|-------|------|----|
| Surrogate: Dibromofluoromethane |  |  | 37.4 % | 84.6-114 |  | 09/10/21 19:15 | 8260B | S-04 | MS |
| Surrogate: Toluene-d8           |  |  | 115 %  | 90.4-109 |  | 09/10/21 19:15 | 8260B | S-04 | MS |
| Surrogate: 4-Bromofluorobenzene |  |  | 116 %  | 82.5-117 |  | 09/10/21 19:15 | 8260B |      | MS |

**Polynuclear Aromatic Compounds by GC/MS**

|                         |        |       |       |       |     |                |       |  |    |
|-------------------------|--------|-------|-------|-------|-----|----------------|-------|--|----|
| Naphthalene*            | <0.153 | 0.400 | 0.153 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| 2-Methylnaphthalene*    | <0.226 | 0.400 | 0.226 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| 1-Methylnaphthalene     | <0.161 | 0.400 | 0.161 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Acenaphthylene*         | <0.196 | 0.400 | 0.196 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Acenaphthene*           | <0.235 | 0.400 | 0.235 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Fluorene*               | <0.142 | 0.400 | 0.142 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Phenanthrene*           | <0.214 | 0.400 | 0.214 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Anthracene*             | <0.172 | 0.400 | 0.172 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Carbazole*              | <0.190 | 0.400 | 0.190 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Fluoranthene*           | <0.185 | 0.400 | 0.185 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Pyrene*                 | 2.67   | 0.400 | 0.132 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Benzo[a]anthracene*     | <0.230 | 0.400 | 0.230 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Chrysene*               | 2.98   | 0.400 | 0.172 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Benzo[b]fluoranthene*   | 1.06   | 0.400 | 0.192 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Benzo[k]fluoranthene*   | <0.157 | 0.400 | 0.157 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Benzo[a]pyrene*         | <0.182 | 0.400 | 0.182 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Indeno[1,2,3-cd]pyrene* | <0.168 | 0.400 | 0.168 | mg/kg | 400 | 09/16/21 21:12 | 8270C |  | MS |

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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

SS01

2109058-01 (Soil)

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

|                             |              |       |        |          |     |                |       |  |    |
|-----------------------------|--------------|-------|--------|----------|-----|----------------|-------|--|----|
| Dibenz[a,h]anthracene*      | <0.186       | 0.400 | 0.186  | mg/kg    | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Benzo[g,h,i]perylene*       | <b>0.851</b> | 0.400 | 0.186  | mg/kg    | 400 | 09/16/21 21:12 | 8270C |  | MS |
| Surrogate: Nitrobenzene-d5  |              |       | 85.1 % | 39.6-121 |     | 09/16/21 21:12 | 8270C |  | MS |
| Surrogate: 2-Fluorobiphenyl |              |       | 71.1 % | 39.8-134 |     | 09/16/21 21:12 | 8270C |  | MS |
| Surrogate: Terphenyl-d14    |              |       | 83.8 % | 33.3-136 |     | 09/16/21 21:12 | 8270C |  | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**SS02**

**2109058-02 (Soil)**

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

**General Chemistry**

|                     |        |       |        |       |    |                |                 |  |     |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|--|-----|
| Hexavalent Chromium | <0.250 | 0.250 | 0.0543 | mg/kg | 25 | 09/23/21 13:00 | 3060A/3500-Cr D |  | JDA |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|--|-----|

**Saturated Paste Extraction**

|              |      |       |       |                     |   |                |              |  |     |
|--------------|------|-------|-------|---------------------|---|----------------|--------------|--|-----|
| Calcium      | 48.9 | 0.100 | 0.058 | mg/L                | 1 | 09/23/21 14:00 | EPA200.7     |  | AES |
| Conductivity | 963  |       |       | umho/cm @<br>25.0°C | 1 | 09/23/21 09:50 | ASA#9 10-3.3 |  | VJW |
| Magnesium    | 10.4 | 0.100 | 0.065 | mg/L                | 1 | 09/23/21 14:00 | EPA200.7     |  | AES |
| pH           | 6.56 |       |       | pH Units            | 1 | 09/23/21 07:44 | ASA#9 10-3.2 |  | VJW |
| SAR          | 2.70 |       |       | No Unit             | 1 | 09/23/21 14:00 | Calculation  |  | AES |
| Sodium       | 79.6 | 1.00  | 0.079 | mg/L                | 1 | 09/23/21 14:00 | EPA200.7     |  | AES |

**Total Metals by ICP**

|          |       |      |       |           |     |                |       |  |     |
|----------|-------|------|-------|-----------|-----|----------------|-------|--|-----|
| Barium   | 96.9  | 5.00 | 0.390 | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Cadmium  | <5.00 | 5.00 | 1.10  | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Chromium | 6.92  | 5.00 | 0.400 | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Copper   | 13.0  | 5.00 | 2.39  | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Lead     | <10.0 | 10.0 | 0.906 | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Nickel   | 6.41  | 5.00 | 0.874 | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Selenium | <20.0 | 20.0 | 4.70  | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Silver   | <1.00 | 1.00 | 0.688 | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |
| Zinc     | 33.7  | 10.0 | 1.71  | mg/kg dry | 100 | 09/21/21 14:03 | 6010B |  | AES |

**Total Metals by ICPMS**

|         |      |      |        |           |      |                |       |  |     |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|
| Arsenic | 1.79 | 1.00 | 0.0950 | mg/kg dry | 1000 | 09/17/21 14:22 | 6020A |  | AES |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|

**Hot Water Extractable**

|       |       |      |       |      |   |                |          |  |     |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|
| Boron | <1.20 | 1.20 | 0.568 | mg/L | 4 | 09/22/21 15:50 | EPA200.7 |  | AES |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

**S-06**

|                  |       |     |      |       |    |                |       |  |    |
|------------------|-------|-----|------|-------|----|----------------|-------|--|----|
| GRO C6-C10*      | 1450  | 100 | 62.5 | mg/kg | 10 | 09/11/21 06:32 | 8015B |  | MS |
| DRO >C10-C28*    | 43200 | 100 | 42.6 | mg/kg | 10 | 09/11/21 06:32 | 8015B |  | MS |
| EXT DRO >C28-C36 | 16000 | 100 | 42.6 | mg/kg | 10 | 09/11/21 06:32 | 8015B |  | MS |

Surrogate: 1-Chlorooctane 185 % 44.3-133 09/11/21 06:32 8015B MS

Surrogate: 1-Chlorooctadecane 869 % 38.9-142 09/11/21 06:32 8015B MS

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Debbie Zufelt, Reports Manager

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|                       |  |                |
|-----------------------|--|----------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | Reported:      |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21 |

SS02

2109058-02 (Soil)

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

**VOLATILES BY GC/MS**

|                                 |        |       |        |          |     |                |       |      |    |
|---------------------------------|--------|-------|--------|----------|-----|----------------|-------|------|----|
| Benzene*                        | <0.250 | 0.250 | 0.0885 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| Toluene*                        | 0.776  | 0.250 | 0.0670 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| Ethylbenzene*                   | 0.631  | 0.250 | 0.0405 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| m+p - Xylene*                   | 6.30   | 0.500 | 0.186  | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| o-Xylene*                       | 4.98   | 0.250 | 0.0700 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| Total Xylenes*                  | 11.3   | 0.750 | 0.250  | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| 1,3,5-Trimethylbenzene          | 15.7   | 0.250 | 0.0450 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| 1,2,4-Trimethylbenzene          | 10.9   | 0.250 | 0.0650 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| Naphthalene*                    | 1.76   | 0.250 | 0.0500 | mg/kg    | 500 | 09/10/21 18:55 | 8260B |      | MS |
| Surrogate: Dibromofluoromethane |        |       | 102 %  | 84.6-114 |     | 09/10/21 18:55 | 8260B |      | MS |
| Surrogate: Toluene-d8           |        |       | 101 %  | 90.4-109 |     | 09/10/21 18:55 | 8260B |      | MS |
| Surrogate: 4-Bromofluorobenzene |        |       | 134 %  | 82.5-117 |     | 09/10/21 18:55 | 8260B | S-04 | MS |

**Polynuclear Aromatic Compounds by GC/MS**

|                         |        |       |       |       |     |                |       |  |      |
|-------------------------|--------|-------|-------|-------|-----|----------------|-------|--|------|
| Naphthalene*            | 4.34   | 0.400 | 0.153 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| 2-Methylnaphthalene*    | 16.2   | 0.400 | 0.226 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| 1-Methylnaphthalene     | 28.9   | 0.400 | 0.161 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Acenaphthylene*         | <0.196 | 0.400 | 0.196 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Acenaphthene*           | <0.235 | 0.400 | 0.235 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Fluorene*               | 8.22   | 0.400 | 0.142 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Phenanthrene*           | 25.5   | 0.400 | 0.214 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Anthracene*             | <0.172 | 0.400 | 0.172 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Carbazole*              | <0.190 | 0.400 | 0.190 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Fluoranthene*           | 1.90   | 0.400 | 0.185 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Pyrene*                 | 5.13   | 0.400 | 0.132 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Benzo[a]anthracene*     | <0.230 | 0.400 | 0.230 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Chrysene*               | 7.15   | 0.400 | 0.172 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Benzo[b]fluoranthene*   | 1.84   | 0.400 | 0.192 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Benzo[k]fluoranthene*   | <0.157 | 0.400 | 0.157 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Benzo[a]pyrene*         | 4.20   | 0.400 | 0.182 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | MS   |
| Indeno[1,2,3-cd]pyrene* | 0.283  | 0.400 | 0.168 | mg/kg | 400 | 09/16/21 21:42 | 8270C |  | J MS |

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Debbie Zufelt, Reports Manager

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**SS02**

**2109058-02 (Soil)**

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

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Polynuclear Aromatic Compounds by GC/MS**

|                                    |             |       |        |          |     |                   |       |      |    |
|------------------------------------|-------------|-------|--------|----------|-----|-------------------|-------|------|----|
| <b>Dibenz[a,h]anthracene*</b>      | <0.186      | 0.400 | 0.186  | mg/kg    | 400 | 09/16/21 21:42    | 8270C |      | MS |
| <b>Benzo[g,h,i]perylene*</b>       | <b>1.13</b> | 0.400 | 0.186  | mg/kg    | 400 | 09/16/21 21:42    | 8270C |      | MS |
| <i>Surrogate: Nitrobenzene-d5</i>  |             |       | 340 %  | 39.6-121 |     | 09/16/21<br>21:42 | 8270C | S-06 | MS |
| <i>Surrogate: 2-Fluorobiphenyl</i> |             |       | 80.3 % | 39.8-134 |     | 09/16/21<br>21:42 | 8270C |      | MS |
| <i>Surrogate: Terphenyl-d14</i>    |             |       | 102 %  | 33.3-136 |     | 09/16/21<br>21:42 | 8270C |      | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**SS03**

**2109058-03 (Soil)**

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

**General Chemistry**

|                     |        |       |        |       |    |                |                 |  |     |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|--|-----|
| Hexavalent Chromium | <0.250 | 0.250 | 0.0543 | mg/kg | 25 | 09/23/21 13:00 | 3060A/3500-Cr D |  | JDA |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|--|-----|

**Saturated Paste Extraction**

|              |      |       |       |                     |   |                |              |  |     |
|--------------|------|-------|-------|---------------------|---|----------------|--------------|--|-----|
| Calcium      | 65.9 | 0.100 | 0.058 | mg/L                | 1 | 09/23/21 14:02 | EPA200.7     |  | AES |
| Conductivity | 486  |       |       | umho/cm @<br>25.0°C | 1 | 09/23/21 09:50 | ASA#9 10-3.3 |  | VJW |
| Magnesium    | 13.0 | 0.100 | 0.065 | mg/L                | 1 | 09/23/21 14:02 | EPA200.7     |  | AES |
| pH           | 7.33 |       |       | pH Units            | 1 | 09/23/21 07:44 | ASA#9 10-3.2 |  | VJW |
| SAR          | 0.65 |       |       | No Unit             | 1 | 09/23/21 14:02 | Calculation  |  | AES |
| Sodium       | 22.0 | 1.00  | 0.079 | mg/L                | 1 | 09/23/21 14:02 | EPA200.7     |  | AES |

**Total Metals by ICP**

|          |       |      |       |           |     |                |       |  |     |
|----------|-------|------|-------|-----------|-----|----------------|-------|--|-----|
| Barium   | 238   | 5.00 | 0.390 | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Cadmium  | <5.00 | 5.00 | 1.10  | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Chromium | 24.6  | 5.00 | 0.400 | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Copper   | 21.8  | 5.00 | 2.39  | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Lead     | 25.6  | 10.0 | 0.906 | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Nickel   | 12.7  | 5.00 | 0.874 | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Selenium | <20.0 | 20.0 | 4.70  | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Silver   | <1.00 | 1.00 | 0.688 | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |
| Zinc     | 66.6  | 10.0 | 1.71  | mg/kg dry | 100 | 09/21/21 14:07 | 6010B |  | AES |

**Total Metals by ICPMS**

|         |      |      |        |           |      |                |       |  |     |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|
| Arsenic | 2.57 | 1.00 | 0.0950 | mg/kg dry | 1000 | 09/17/21 14:25 | 6020A |  | AES |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|

**Hot Water Extractable**

|       |       |      |       |      |   |                |          |  |     |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|
| Boron | <1.20 | 1.20 | 0.568 | mg/L | 4 | 09/22/21 15:53 | EPA200.7 |  | AES |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

**S-04**

|                  |       |      |      |       |   |                |       |  |    |
|------------------|-------|------|------|-------|---|----------------|-------|--|----|
| GRO C6-C10*      | <10.0 | 10.0 | 6.25 | mg/kg | 1 | 09/13/21 10:41 | 8015B |  | MS |
| DRO >C10-C28*    | 1330  | 10.0 | 4.26 | mg/kg | 1 | 09/13/21 10:41 | 8015B |  | MS |
| EXT DRO >C28-C36 | 744   | 10.0 | 4.26 | mg/kg | 1 | 09/13/21 10:41 | 8015B |  | MS |

|                               |  |  |       |          |  |                   |       |  |    |
|-------------------------------|--|--|-------|----------|--|-------------------|-------|--|----|
| Surrogate: 1-Chlorooctane     |  |  | 101 % | 44.3-133 |  | 09/13/21<br>10:41 | 8015B |  | MS |
| Surrogate: 1-Chlorooctadecane |  |  | 158 % | 38.9-142 |  | 09/13/21<br>10:41 | 8015B |  | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

SS03

2109058-03 (Soil)

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

**VOLATILES BY GC/MS**

|                                 |               |        |         |          |    |                |       |  |    |
|---------------------------------|---------------|--------|---------|----------|----|----------------|-------|--|----|
| Benzene*                        | <0.0250       | 0.0250 | 0.00885 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| Toluene*                        | <0.0250       | 0.0250 | 0.00670 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| Ethylbenzene*                   | <0.0250       | 0.0250 | 0.00405 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| m+p - Xylene*                   | <0.0500       | 0.0500 | 0.0186  | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| o-Xylene*                       | <0.0250       | 0.0250 | 0.00700 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| Total Xylenes*                  | <0.0750       | 0.0750 | 0.0250  | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| 1,3,5-Trimethylbenzene          | <0.0250       | 0.0250 | 0.00450 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| 1,2,4-Trimethylbenzene          | <0.0250       | 0.0250 | 0.00650 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| Naphthalene*                    | <b>0.0422</b> | 0.0250 | 0.00500 | mg/kg    | 50 | 09/10/21 17:36 | 8260B |  | MS |
| Surrogate: Dibromofluoromethane |               |        | 104 %   | 84.6-114 |    | 09/10/21 17:36 | 8260B |  | MS |
| Surrogate: Toluene-d8           |               |        | 98.5 %  | 90.4-109 |    | 09/10/21 17:36 | 8260B |  | MS |
| Surrogate: 4-Bromofluorobenzene |               |        | 93.7 %  | 82.5-117 |    | 09/10/21 17:36 | 8260B |  | MS |

**Polynuclear Aromatic Compounds by GC/MS**

|                         |              |       |       |       |    |                |       |  |    |
|-------------------------|--------------|-------|-------|-------|----|----------------|-------|--|----|
| Naphthalene*            | <0.015       | 0.040 | 0.015 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| 2-Methylnaphthalene*    | <0.023       | 0.040 | 0.023 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| 1-Methylnaphthalene     | <b>0.041</b> | 0.040 | 0.016 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Acenaphthylene*         | <0.020       | 0.040 | 0.020 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Acenaphthene*           | <0.024       | 0.040 | 0.024 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Fluorene*               | <0.014       | 0.040 | 0.014 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Phenanthrene*           | <0.021       | 0.040 | 0.021 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Anthracene*             | <0.017       | 0.040 | 0.017 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Carbazole*              | <0.019       | 0.040 | 0.019 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Fluoranthene*           | <0.019       | 0.040 | 0.019 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Pyrene*                 | <b>0.138</b> | 0.040 | 0.013 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Benzo[a]anthracene*     | <0.023       | 0.040 | 0.023 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Chrysene*               | <b>0.193</b> | 0.040 | 0.017 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Benzo[b]fluoranthene*   | <b>0.058</b> | 0.040 | 0.019 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Benzo[k]fluoranthene*   | <0.016       | 0.040 | 0.016 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Benzo[a]pyrene*         | <b>0.219</b> | 0.040 | 0.018 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Indeno[1,2,3-cd]pyrene* | <0.017       | 0.040 | 0.017 | mg/kg | 40 | 09/20/21 18:43 | 8270C |  | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

SS03

2109058-03 (Soil)

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

|                             |        |       |        |          |    |                |       |  |    |
|-----------------------------|--------|-------|--------|----------|----|----------------|-------|--|----|
| Dibenz[a,h]anthracene*      | <0.019 | 0.040 | 0.019  | mg/kg    | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Benzo[g,h,i]perylene*       | 0.113  | 0.040 | 0.019  | mg/kg    | 40 | 09/20/21 18:43 | 8270C |  | MS |
| Surrogate: Nitrobenzene-d5  |        |       | 61.9 % | 39.6-121 |    | 09/20/21 18:43 | 8270C |  | MS |
| Surrogate: 2-Fluorobiphenyl |        |       | 71.0 % | 39.8-134 |    | 09/20/21 18:43 | 8270C |  | MS |
| Surrogate: Terphenyl-d14    |        |       | 71.1 % | 33.3-136 |    | 09/20/21 18:43 | 8270C |  | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**SS04**

**2109058-04 (Soil)**

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

**General Chemistry**

|                     |        |       |        |       |    |                |                 |  |     |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|--|-----|
| Hexavalent Chromium | <0.250 | 0.250 | 0.0543 | mg/kg | 25 | 09/23/21 13:00 | 3060A/3500-Cr D |  | JDA |
|---------------------|--------|-------|--------|-------|----|----------------|-----------------|--|-----|

**Saturated Paste Extraction**

|              |      |       |       |                     |   |                |              |  |     |
|--------------|------|-------|-------|---------------------|---|----------------|--------------|--|-----|
| Calcium      | 41.2 | 0.100 | 0.058 | mg/L                | 1 | 09/23/21 14:04 | EPA200.7     |  | AES |
| Conductivity | 771  |       |       | umho/cm @<br>25.0°C | 1 | 09/23/21 09:50 | ASA#9 10-3.3 |  | VJW |
| Magnesium    | 11.0 | 0.100 | 0.065 | mg/L                | 1 | 09/23/21 14:04 | EPA200.7     |  | AES |
| pH           | 7.17 |       |       | pH Units            | 1 | 09/23/21 07:44 | ASA#9 10-3.2 |  | VJW |
| SAR          | 4.54 |       |       | No Unit             | 1 | 09/23/21 14:04 | Calculation  |  | AES |
| Sodium       | 127  | 1.00  | 0.079 | mg/L                | 1 | 09/23/21 14:04 | EPA200.7     |  | AES |

**Total Metals by ICP**

|          |       |      |       |           |     |                |       |  |     |
|----------|-------|------|-------|-----------|-----|----------------|-------|--|-----|
| Barium   | 234   | 5.00 | 0.390 | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Cadmium  | <5.00 | 5.00 | 1.10  | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Chromium | 25.5  | 5.00 | 0.400 | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Copper   | 23.0  | 5.00 | 2.39  | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Lead     | 13.5  | 10.0 | 0.906 | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Nickel   | 14.8  | 5.00 | 0.874 | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Selenium | <20.0 | 20.0 | 4.70  | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Silver   | <1.00 | 1.00 | 0.688 | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |
| Zinc     | 54.6  | 10.0 | 1.71  | mg/kg dry | 100 | 09/21/21 14:11 | 6010B |  | AES |

**Total Metals by ICPMS**

|         |      |      |        |           |      |                |       |  |     |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|
| Arsenic | 4.05 | 1.00 | 0.0950 | mg/kg dry | 1000 | 09/17/21 14:29 | 6020A |  | AES |
|---------|------|------|--------|-----------|------|----------------|-------|--|-----|

**Hot Water Extractable**

|       |       |      |       |      |   |                |          |  |     |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|
| Boron | <1.20 | 1.20 | 0.568 | mg/L | 4 | 09/22/21 15:59 | EPA200.7 |  | AES |
|-------|-------|------|-------|------|---|----------------|----------|--|-----|

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

**S-04**

|                  |      |      |      |       |   |                |       |  |    |
|------------------|------|------|------|-------|---|----------------|-------|--|----|
| GRO C6-C10*      | 88.3 | 10.0 | 6.25 | mg/kg | 1 | 09/13/21 10:57 | 8015B |  | MS |
| DRO >C10-C28*    | 1540 | 10.0 | 4.26 | mg/kg | 1 | 09/13/21 10:57 | 8015B |  | MS |
| EXT DRO >C28-C36 | 558  | 10.0 | 4.26 | mg/kg | 1 | 09/13/21 10:57 | 8015B |  | MS |

|                               |  |  |       |          |  |                   |       |  |    |
|-------------------------------|--|--|-------|----------|--|-------------------|-------|--|----|
| Surrogate: 1-Chlorooctane     |  |  | 145 % | 44.3-133 |  | 09/13/21<br>10:57 | 8015B |  | MS |
| Surrogate: 1-Chlorooctadecane |  |  | 195 % | 38.9-142 |  | 09/13/21<br>10:57 | 8015B |  | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

SS04

2109058-04 (Soil)

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

**VOLATILES BY GC/MS**

|                                 |              |       |        |          |      |                |       |  |    |
|---------------------------------|--------------|-------|--------|----------|------|----------------|-------|--|----|
| Benzene*                        | <0.500       | 0.500 | 0.177  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| Toluene*                        | <0.500       | 0.500 | 0.134  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| Ethylbenzene*                   | <0.500       | 0.500 | 0.0810 | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| m+p - Xylene*                   | <1.00        | 1.00  | 0.372  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| o-Xylene*                       | <b>0.898</b> | 0.500 | 0.140  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| Total Xylenes*                  | <1.50        | 1.50  | 0.500  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| 1,3,5-Trimethylbenzene          | <b>41.2</b>  | 0.500 | 0.0900 | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| 1,2,4-Trimethylbenzene          | <0.500       | 0.500 | 0.130  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| Naphthalene*                    | <0.500       | 0.500 | 0.100  | mg/kg    | 1000 | 09/13/21 13:44 | 8260B |  | MS |
| Surrogate: Dibromofluoromethane |              |       | 100 %  | 84.6-114 |      | 09/13/21 13:44 | 8260B |  | MS |
| Surrogate: Toluene-d8           |              |       | 96.0 % | 90.4-109 |      | 09/13/21 13:44 | 8260B |  | MS |
| Surrogate: 4-Bromofluorobenzene |              |       | 95.9 % | 82.5-117 |      | 09/13/21 13:44 | 8260B |  | MS |

**Polynuclear Aromatic Compounds by GC/MS**

|                         |              |       |       |       |    |                |       |  |    |
|-------------------------|--------------|-------|-------|-------|----|----------------|-------|--|----|
| Naphthalene*            | <b>0.197</b> | 0.040 | 0.015 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| 2-Methylnaphthalene*    | <0.023       | 0.040 | 0.023 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| 1-Methylnaphthalene     | <b>0.069</b> | 0.040 | 0.016 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Acenaphthylene*         | <0.020       | 0.040 | 0.020 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Acenaphthene*           | <0.024       | 0.040 | 0.024 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Fluorene*               | <0.014       | 0.040 | 0.014 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Phenanthrene*           | <0.021       | 0.040 | 0.021 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Anthracene*             | <0.017       | 0.040 | 0.017 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Carbazole*              | <0.019       | 0.040 | 0.019 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Fluoranthene*           | <0.019       | 0.040 | 0.019 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Pyrene*                 | <b>0.234</b> | 0.040 | 0.013 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Benzo[a]anthracene*     | <0.023       | 0.040 | 0.023 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Chrysene*               | <b>0.577</b> | 0.040 | 0.017 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Benzo[b]fluoranthene*   | <0.019       | 0.040 | 0.019 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Benzo[k]fluoranthene*   | <0.016       | 0.040 | 0.016 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Benzo[a]pyrene*         | <b>0.497</b> | 0.040 | 0.018 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |
| Indeno[1,2,3-cd]pyrene* | <0.017       | 0.040 | 0.017 | mg/kg | 40 | 09/20/21 19:13 | 8270C |  | MS |

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Debbie Zufelt, Reports Manager

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**SS04**

**2109058-04 (Soil)**

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

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Polynuclear Aromatic Compounds by GC/MS**

|                                    |              |       |        |          |    |                |       |  |    |
|------------------------------------|--------------|-------|--------|----------|----|----------------|-------|--|----|
| <b>Dibenz[a,h]anthracene*</b>      | <0.019       | 0.040 | 0.019  | mg/kg    | 40 | 09/20/21 19:13 | 8270C |  | MS |
| <b>Benzo[g,h,i]perylene*</b>       | <b>0.158</b> | 0.040 | 0.019  | mg/kg    | 40 | 09/20/21 19:13 | 8270C |  | MS |
| <i>Surrogate: Nitrobenzene-d5</i>  |              |       | 63.1 % | 39.6-121 |    | 09/20/21 19:13 | 8270C |  | MS |
| <i>Surrogate: 2-Fluorobiphenyl</i> |              |       | 69.4 % | 39.8-134 |    | 09/20/21 19:13 | 8270C |  | MS |
| <i>Surrogate: Terphenyl-d14</i>    |              |       | 78.7 % | 33.3-136 |    | 09/20/21 19:13 | 8270C |  | MS |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**General Chemistry - Quality Control**

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

**Batch B212205 - General Prep - Wet Chem**

|                             |                                       |       |       |      |  |      |        |  |  |  |
|-----------------------------|---------------------------------------|-------|-------|------|--|------|--------|--|--|--|
| <b>Blank (B212205-BLK1)</b> | Prepared: 09/17/21 Analyzed: 09/23/21 |       |       |      |  |      |        |  |  |  |
| Hexavalent Chromium         | ND                                    | 0.250 | mg/kg |      |  |      |        |  |  |  |
| <b>LCS (B212205-BS1)</b>    | Prepared: 09/17/21 Analyzed: 09/23/21 |       |       |      |  |      |        |  |  |  |
| Hexavalent Chromium         | 1.92                                  | 0.250 | mg/kg | 2.00 |  | 96.1 | 85-115 |  |  |  |

**Saturated Paste Extraction - Quality Control**

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

**Batch B212243 - Paste Extract**

|                                 |  |       |         |  |      |  |  |       |    |  |
|---------------------------------|--|-------|---------|--|------|--|--|-------|----|--|
| <b>Blank (B212243-BLK1)</b>     | Prepared: 09/21/21 Analyzed: 09/23/21                    |       |         |  |      |  |  |       |    |  |
| Calcium                         | ND   | 0.100 | mg/L    |  |      |  |  |       |    |  |
| Magnesium                       | ND   | 0.100 | mg/L    |  |      |  |  |       |    |  |
| Sodium                          | ND   | 1.00  | mg/L    |  |      |  |  |       |    |  |
| <b>Duplicate (B212243-DUP1)</b> | Source: 2109059-03 Prepared: 09/21/21 Analyzed: 09/23/21 |       |         |  |      |  |  |       |    |  |
| Calcium                         | 158  | 0.200 | mg/L    |  | 164  |  |  | 3.65  | 20 |  |
| Magnesium                       | 12.1   | 0.200 | mg/L    |  | 12.1 |  |  | 0.177 | 20 |  |
| SAR                             | 3.37   |       | No Unit |  | 3.41 |  |  | 1.18  | 20 |  |
| Sodium                          | 163  | 2.00  | mg/L    |  | 168  |  |  | 3.20  | 20 |  |

**Batch B212244 - Paste Extract**

|                                 |  |  |                  |  |      |  |  |      |    |  |
|---------------------------------|--|--|------------------|--|------|--|--|------|----|--|
| <b>Duplicate (B212244-DUP1)</b> | Source: 2109059-03 Prepared: 09/21/21 Analyzed: 09/23/21 |  |                  |  |      |  |  |      |    |  |
| Conductivity                    | 1490   |  | umho/cm @ 25.0°C |  | 1510 |  |  | 1.60 | 20 |  |

**Batch B212245 - Paste Extract**

|                                 |  |  |          |  |      |  |  |       |    |  |
|---------------------------------|--|--|----------|--|------|--|--|-------|----|--|
| <b>Duplicate (B212245-DUP1)</b> | Source: 2109059-03 Prepared: 09/21/21 Analyzed: 09/23/21 |  |          |  |      |  |  |       |    |  |
| pH                              | 7.28   |  | pH Units |  | 7.23 |  |  | 0.689 | 20 |  |

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|                       |  |                  |
|-----------------------|--|------------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                  |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | <b>Reported:</b> |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21   |

**Total Metals by ICP - Quality Control**

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

**Batch B212138 - EPA 3050**

**Blank (B212138-BLK1)**

Prepared: 09/10/21 Analyzed: 09/21/21

|          |    |      |           |  |  |  |  |  |  |  |
|----------|----|------|-----------|--|--|--|--|--|--|--|
| 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 (B212138-BS1)**

Prepared: 09/10/21 Analyzed: 09/21/21

|          |      |      |           |      |  |      |        |  |  |  |
|----------|------|------|-----------|------|--|------|--------|--|--|--|
| Barium   | 174  | 5.00 | mg/kg dry | 200  |  | 87.1 | 80-120 |  |  |  |
| Cadmium  | 161  | 5.00 | mg/kg dry | 200  |  | 80.4 | 80-120 |  |  |  |
| Chromium | 177  | 5.00 | mg/kg dry | 200  |  | 88.4 | 80-120 |  |  |  |
| Copper   | 368  | 5.00 | mg/kg dry | 400  |  | 92.0 | 80-120 |  |  |  |
| Lead     | 166  | 10.0 | mg/kg dry | 200  |  | 83.1 | 80-120 |  |  |  |
| Nickel   | 167  | 5.00 | mg/kg dry | 200  |  | 83.3 | 80-120 |  |  |  |
| Selenium | 739  | 20.0 | mg/kg dry | 800  |  | 92.3 | 80-120 |  |  |  |
| Silver   | 8.96 | 1.00 | mg/kg dry | 10.0 |  | 89.6 | 80-120 |  |  |  |
| Zinc     | 163  | 10.0 | mg/kg dry | 200  |  | 81.6 | 80-120 |  |  |  |

**LCS Dup (B212138-BSD1)**

Prepared: 09/10/21 Analyzed: 09/21/21

|          |      |      |           |      |  |      |        |       |    |  |
|----------|------|------|-----------|------|--|------|--------|-------|----|--|
| Barium   | 176  | 5.00 | mg/kg dry | 200  |  | 87.9 | 80-120 | 0.947 | 20 |  |
| Cadmium  | 163  | 5.00 | mg/kg dry | 200  |  | 81.4 | 80-120 | 1.27  | 20 |  |
| Chromium | 178  | 5.00 | mg/kg dry | 200  |  | 89.1 | 80-120 | 0.754 | 20 |  |
| Copper   | 373  | 5.00 | mg/kg dry | 400  |  | 93.2 | 80-120 | 1.30  | 20 |  |
| Lead     | 168  | 10.0 | mg/kg dry | 200  |  | 84.0 | 80-120 | 1.09  | 20 |  |
| Nickel   | 169  | 5.00 | mg/kg dry | 200  |  | 84.7 | 80-120 | 1.72  | 20 |  |
| Selenium | 745  | 20.0 | mg/kg dry | 800  |  | 93.2 | 80-120 | 0.892 | 20 |  |
| Silver   | 9.52 | 1.00 | mg/kg dry | 10.0 |  | 95.2 | 80-120 | 6.12  | 20 |  |
| Zinc     | 166  | 10.0 | mg/kg dry | 200  |  | 82.8 | 80-120 | 1.50  | 20 |  |

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|   |   |                             |
|---|---|-----------------------------|
| Cottonwood Consulting<br>PO Box 1653<br>Durango CO, 81302 | Project: COGCC Table 915-1<br>Project Name / Number: Margaret Spaulding (OWP) 12-A<br>Project Manager: Kyle Siesser | Reported:<br>09/27/21 15:21 |
|---|---|-----------------------------|

**Total Metals by ICPMS - Quality Control**

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

**Batch B212142 - EPA 3050M**

**Blank (B212142-BLK1)**

Prepared: 09/10/21 Analyzed: 09/17/21

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

**LCS (B212142-BS1)**

Prepared: 09/10/21 Analyzed: 09/17/21

|         |      |       |           |      |  |     |        |  |  |  |
|---------|------|-------|-----------|------|--|-----|--------|--|--|--|
| Arsenic | 5.10 | 0.100 | mg/kg dry | 5.00 |  | 102 | 80-120 |  |  |  |
|---------|------|-------|-----------|------|--|-----|--------|--|--|--|

**LCS Dup (B212142-BSD1)**

Prepared: 09/10/21 Analyzed: 09/17/21

|         |      |       |           |      |  |      |        |      |    |  |
|---------|------|-------|-----------|------|--|------|--------|------|----|--|
| Arsenic | 4.63 | 0.100 | mg/kg dry | 5.00 |  | 92.7 | 80-120 | 9.66 | 20 |  |
|---------|------|-------|-----------|------|--|------|--------|------|----|--|

**Hot Water Extractable - Quality Control**

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

**Batch B212179 - Hot Water Soluble Metals Extract**

**Blank (B212179-BLK1)**

Prepared: 09/15/21 Analyzed: 09/22/21

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

**Duplicate (B212179-DUP1)**

Source: 2109058-01 Prepared: 09/15/21 Analyzed: 09/22/21

|       |       |      |      |  |       |  |  |      |     |  |
|-------|-------|------|------|--|-------|--|--|------|-----|--|
| Boron | 0.606 | 1.20 | mg/L |  | 0.654 |  |  | 7.66 | 200 |  |
|-------|-------|------|------|--|-------|--|--|------|-----|--|

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|                       |  |                  |
|-----------------------|--|------------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                  |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | <b>Reported:</b> |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21   |

**Petroleum Hydrocarbons by GC FID - Quality Control**

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

**Batch 1091002 - General Prep - Organics**

**Blank (1091002-BLK1)**

Prepared: 09/10/21 Analyzed: 09/11/21

|                               |      |      |       |      |  |      |          |  |  |  |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| Surrogate: 1-Chlorooctadecane | 49.6 |      | mg/kg | 50.0 |  | 99.3 | 38.9-142 |  |  |  |
| Surrogate: 1-Chlorooctane     | 51.7 |      | mg/kg | 50.0 |  | 103  | 44.3-133 |  |  |  |
| 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 (1091002-BS1)**

Prepared: 09/10/21 Analyzed: 09/11/21

|                               |      |      |       |      |  |      |          |  |  |  |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| Surrogate: 1-Chlorooctadecane | 48.5 |      | mg/kg | 50.0 |  | 97.0 | 38.9-142 |  |  |  |
| Surrogate: 1-Chlorooctane     | 50.0 |      | mg/kg | 50.0 |  | 100  | 44.3-133 |  |  |  |
| DRO >C10-C28                  | 198  | 10.0 | mg/kg | 200  |  | 99.0 | 79.3-136 |  |  |  |
| GRO C6-C10                    | 186  | 10.0 | mg/kg | 200  |  | 93.1 | 83.4-129 |  |  |  |
| Total TPH C6-C28              | 384  | 10.0 | mg/kg | 400  |  | 96.1 | 85.3-130 |  |  |  |

**LCS Dup (1091002-BSD1)**

Prepared: 09/10/21 Analyzed: 09/11/21

|                               |      |      |       |      |  |      |          |      |      |  |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|--|
| Surrogate: 1-Chlorooctadecane | 52.6 |      | mg/kg | 50.0 |  | 105  | 38.9-142 |      |      |  |
| Surrogate: 1-Chlorooctane     | 54.6 |      | mg/kg | 50.0 |  | 109  | 44.3-133 |      |      |  |
| DRO >C10-C28                  | 214  | 10.0 | mg/kg | 200  |  | 107  | 79.3-136 | 7.90 | 12.1 |  |
| GRO C6-C10                    | 197  | 10.0 | mg/kg | 200  |  | 98.5 | 83.4-129 | 5.65 | 12.6 |  |
| Total TPH C6-C28              | 411  | 10.0 | mg/kg | 400  |  | 103  | 85.3-130 | 6.82 | 11.6 |  |

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|                       |  |                |
|-----------------------|--|----------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | Reported:      |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21 |

**VOLATILES BY GC/MS - Quality Control**

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

**Batch 1090907 - Volatiles**

**Blank (1090907-BLK1)**

Prepared: 09/09/21 Analyzed: 09/10/21

|  |      |        |       |      |  |      |          |  |  |  |
|--|------|--------|-------|------|--|------|----------|--|--|--|
| 1,2,4-Trimethylbenzene                 | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| 1,3,5-Trimethylbenzene                 | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 1.05 |        | mg/kg | 1.25 |  | 83.7 | 82.5-117 |  |  |  |
| Benzene                                | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| <i>Surrogate: Dibromofluoromethane</i> | 1.28 |        | mg/kg | 1.25 |  | 103  | 84.6-114 |  |  |  |
| Ethylbenzene                           | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| m+p - Xylene                           | ND   | 0.0500 | mg/kg |      |  |      |          |  |  |  |
| Naphthalene                            | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| o-Xylene                               | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| Toluene                                | ND   | 0.0250 | mg/kg |      |  |      |          |  |  |  |
| <i>Surrogate: Toluene-d8</i>           | 1.24 |        | mg/kg | 1.25 |  | 98.9 | 90.4-109 |  |  |  |
| Total Xylenes                          | ND   | 0.0750 | mg/kg |      |  |      |          |  |  |  |

**LCS (1090907-BS1)**

Prepared: 09/09/21 Analyzed: 09/10/21

|  |       |        |       |       |  |      |          |  |  |  |
|--|-------|--------|-------|-------|--|------|----------|--|--|--|
| 1,2,4-Trimethylbenzene                 | 0.469 | 0.0250 | mg/kg | 0.500 |  | 93.9 | 62.4-140 |  |  |  |
| 1,3,5-Trimethylbenzene                 | 0.473 | 0.0250 | mg/kg | 0.500 |  | 94.5 | 64.4-138 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 1.17  |        | mg/kg | 1.25  |  | 93.3 | 82.5-117 |  |  |  |
| Benzene                                | 0.495 | 0.0250 | mg/kg | 0.500 |  | 99.0 | 73-130   |  |  |  |
| <i>Surrogate: Dibromofluoromethane</i> | 1.25  |        | mg/kg | 1.25  |  | 100  | 84.6-114 |  |  |  |
| Ethylbenzene                           | 0.476 | 0.0250 | mg/kg | 0.500 |  | 95.3 | 75.4-127 |  |  |  |
| m+p - Xylene                           | 0.966 | 0.0500 | mg/kg | 1.00  |  | 96.6 | 71.8-133 |  |  |  |
| Naphthalene                            | 0.423 | 0.0250 | mg/kg | 0.500 |  | 84.7 | 28.7-158 |  |  |  |
| o-Xylene                               | 0.465 | 0.0250 | mg/kg | 0.500 |  | 92.9 | 78.6-125 |  |  |  |
| Toluene                                | 0.484 | 0.0250 | mg/kg | 0.500 |  | 96.9 | 79-122   |  |  |  |
| <i>Surrogate: Toluene-d8</i>           | 1.23  |        | mg/kg | 1.25  |  | 98.1 | 90.4-109 |  |  |  |
| Total Xylenes                          | 1.43  | 0.0750 | mg/kg | 1.50  |  | 95.4 | 74.6-130 |  |  |  |

**LCS Dup (1090907-BSD1)**

Prepared: 09/09/21 Analyzed: 09/10/21

|  |       |        |       |       |  |      |          |       |      |  |
|--|-------|--------|-------|-------|--|------|----------|-------|------|--|
| 1,2,4-Trimethylbenzene                 | 0.461 | 0.0250 | mg/kg | 0.500 |  | 92.3 | 62.4-140 | 1.74  | 38.2 |  |
| 1,3,5-Trimethylbenzene                 | 0.462 | 0.0250 | mg/kg | 0.500 |  | 92.4 | 64.4-138 | 2.23  | 39.1 |  |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 1.20  |        | mg/kg | 1.25  |  | 96.4 | 82.5-117 |       |      |  |
| Benzene                                | 0.508 | 0.0250 | mg/kg | 0.500 |  | 102  | 73-130   | 2.64  | 17.1 |  |
| <i>Surrogate: Dibromofluoromethane</i> | 1.25  |        | mg/kg | 1.25  |  | 99.8 | 84.6-114 |       |      |  |
| Ethylbenzene                           | 0.482 | 0.0250 | mg/kg | 0.500 |  | 96.5 | 75.4-127 | 1.23  | 16.5 |  |
| m+p - Xylene                           | 0.958 | 0.0500 | mg/kg | 1.00  |  | 95.8 | 71.8-133 | 0.859 | 19.1 |  |
| Naphthalene                            | 0.406 | 0.0250 | mg/kg | 0.500 |  | 81.2 | 28.7-158 | 4.20  | 64   |  |
| o-Xylene                               | 0.460 | 0.0250 | mg/kg | 0.500 |  | 92.1 | 78.6-125 | 0.936 | 13.2 |  |
| Toluene                                | 0.497 | 0.0250 | mg/kg | 0.500 |  | 99.4 | 79-122   | 2.64  | 18.3 |  |

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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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|                       |  |                  |
|-----------------------|--|------------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                  |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | <b>Reported:</b> |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21   |

**VOLATILES BY GC/MS - Quality Control (Continued)**

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

**Batch 1090907 - Volatiles (Continued)**

**LCS Dup (1090907-BSD1) (Continued)**

Prepared: 09/09/21 Analyzed: 09/10/21

|                       |      |        |       |      |  |      |          |       |      |  |
|-----------------------|------|--------|-------|------|--|------|----------|-------|------|--|
| Surrogate: Toluene-d8 | 1.22 |        | mg/kg | 1.25 |  | 97.4 | 90.4-109 |       |      |  |
| Total Xylenes         | 1.42 | 0.0750 | mg/kg | 1.50 |  | 94.6 | 74.6-130 | 0.884 | 16.5 |  |

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|                       |  |                  |
|-----------------------|--|------------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                  |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | <b>Reported:</b> |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21   |

**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 1090904 - SW846-3510**

**Blank (1090904-BLK1)**

Prepared: 09/09/21 Analyzed: 09/16/21

|                                    |      |       |       |      |  |      |          |  |  |  |
|------------------------------------|------|-------|-------|------|--|------|----------|--|--|--|
| 1-Methylnaphthalene                | ND   | 0.040 | mg/kg |      |  |      |          |  |  |  |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 1.53 |       | mg/kg | 2.00 |  | 76.7 | 39.8-134 |  |  |  |
| 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              | 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 |      |  |      |          |  |  |  |
| <i>Surrogate: Nitrobenzene-d5</i>  | 1.48 |       | mg/kg | 2.00 |  | 74.2 | 39.6-121 |  |  |  |
| Phenanthrene                       | ND   | 0.040 | mg/kg |      |  |      |          |  |  |  |
| Pyrene                             | ND   | 0.040 | mg/kg |      |  |      |          |  |  |  |
| <i>Surrogate: Terphenyl-d14</i>    | 1.57 |       | mg/kg | 2.00 |  | 78.3 | 33.3-136 |  |  |  |

**LCS (1090904-BS1)**

Prepared: 09/09/21 Analyzed: 09/16/21

|                                    |       |       |       |       |  |      |          |  |  |  |
|------------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| 1-Methylnaphthalene                | 0.301 | 0.040 | mg/kg | 0.400 |  | 75.2 | 57.6-108 |  |  |  |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 1.59  |       | mg/kg | 2.00  |  | 79.6 | 39.8-134 |  |  |  |
| 2-Methylnaphthalene                | 0.319 | 0.040 | mg/kg | 0.400 |  | 79.9 | 59-106   |  |  |  |
| Acenaphthene                       | 0.326 | 0.040 | mg/kg | 0.400 |  | 81.6 | 60.9-105 |  |  |  |
| Acenaphthylene                     | 0.328 | 0.040 | mg/kg | 0.400 |  | 82.1 | 57.4-107 |  |  |  |
| Anthracene                         | 0.313 | 0.040 | mg/kg | 0.400 |  | 78.1 | 60.8-105 |  |  |  |
| Benzo[a]anthracene                 | 0.327 | 0.040 | mg/kg | 0.400 |  | 81.8 | 56.1-121 |  |  |  |
| Benzo[a]pyrene                     | 0.283 | 0.040 | mg/kg | 0.400 |  | 70.8 | 56.7-115 |  |  |  |
| Benzo[b]flouranthene               | 0.327 | 0.040 | mg/kg | 0.400 |  | 81.8 | 45.4-128 |  |  |  |
| Benzo[g,h,i]perylene               | 0.313 | 0.040 | mg/kg | 0.400 |  | 78.3 | 56.5-107 |  |  |  |
| Benzo[k]flouranthene               | 0.340 | 0.040 | mg/kg | 0.400 |  | 85.0 | 49.6-119 |  |  |  |
| Carbazole                          | 0.332 | 0.040 | mg/kg | 0.400 |  | 82.9 | 59.7-107 |  |  |  |
| Chrysene                           | 0.317 | 0.040 | mg/kg | 0.400 |  | 79.3 | 12.2-190 |  |  |  |
| Dibenz[a,h]anthracene              | 0.305 | 0.040 | mg/kg | 0.400 |  | 76.2 | 59.1-111 |  |  |  |
| Fluoranthene                       | 0.309 | 0.040 | mg/kg | 0.400 |  | 77.2 | 60.6-111 |  |  |  |

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Debbie Zufelt, Reports Manager

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|                       |  |                |
|-----------------------|--|----------------|
| Cottonwood Consulting | Project: COGCC Table 915-1                           |                |
| PO Box 1653           | Project Name / Number: Margaret Spaulding (OWP) 12-A | Reported:      |
| Durango CO, 81302     | Project Manager: Kyle Siesser                        | 09/27/21 15:21 |

**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 1090904 - SW846-3510 (Continued)**

**LCS (1090904-BS1) (Continued)**

Prepared: 09/09/21 Analyzed: 09/16/21

|                                   |             |       |       |             |  |             |                 |  |  |  |
|-----------------------------------|-------------|-------|-------|-------------|--|-------------|-----------------|--|--|--|
| Fluorene                          | 0.307       | 0.040 | mg/kg | 0.400       |  | 76.8        | 59.3-108        |  |  |  |
| Indeno[1,2,3-cd]pyrene            | 0.311       | 0.040 | mg/kg | 0.400       |  | 77.8        | 53.4-116        |  |  |  |
| Naphthalene                       | 0.308       | 0.040 | mg/kg | 0.400       |  | 76.9        | 56.5-106        |  |  |  |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>1.37</i> |       | mg/kg | <i>2.00</i> |  | <i>68.5</i> | <i>39.6-121</i> |  |  |  |
| Phenanthrene                      | 0.320       | 0.040 | mg/kg | 0.400       |  | 79.9        | 59.9-107        |  |  |  |
| Pyrene                            | 0.305       | 0.040 | mg/kg | 0.400       |  | 76.3        | 51.5-122        |  |  |  |
| <i>Surrogate: Terphenyl-d14</i>   | <i>1.56</i> |       | mg/kg | <i>2.00</i> |  | <i>78.2</i> | <i>33.3-136</i> |  |  |  |

**LCS Dup (1090904-BS1)**

Prepared: 09/09/21 Analyzed: 09/16/21

|                                    |             |       |       |             |  |             |                 |        |      |  |
|------------------------------------|-------------|-------|-------|-------------|--|-------------|-----------------|--------|------|--|
| 1-Methylnaphthalene                | 0.302       | 0.040 | mg/kg | 0.400       |  | 75.4        | 57.6-108        | 0.236  | 6.22 |  |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>1.58</i> |       | mg/kg | <i>2.00</i> |  | <i>79.0</i> | <i>39.8-134</i> |        |      |  |
| 2-Methylnaphthalene                | 0.325       | 0.040 | mg/kg | 0.400       |  | 81.2        | 59-106          | 1.64   | 6.23 |  |
| Acenaphthene                       | 0.318       | 0.040 | mg/kg | 0.400       |  | 79.6        | 60.9-105        | 2.50   | 8.18 |  |
| Acenaphthylene                     | 0.321       | 0.040 | mg/kg | 0.400       |  | 80.2        | 57.4-107        | 2.29   | 5    |  |
| Anthracene                         | 0.309       | 0.040 | mg/kg | 0.400       |  | 77.3        | 60.8-105        | 1.04   | 3.68 |  |
| Benzo[a]anthracene                 | 0.314       | 0.040 | mg/kg | 0.400       |  | 78.6        | 56.1-121        | 3.90   | 9.01 |  |
| Benzo[a]pyrene                     | 0.282       | 0.040 | mg/kg | 0.400       |  | 70.4        | 56.7-115        | 0.584  | 4.92 |  |
| Benzo[b]fluoranthene               | 0.347       | 0.040 | mg/kg | 0.400       |  | 86.8        | 45.4-128        | 5.95   | 7.63 |  |
| Benzo[g,h,i]perylene               | 0.304       | 0.040 | mg/kg | 0.400       |  | 76.0        | 56.5-107        | 2.97   | 12.5 |  |
| Benzo[k]fluoranthene               | 0.316       | 0.040 | mg/kg | 0.400       |  | 79.1        | 49.6-119        | 7.21   | 10.6 |  |
| Carbazole                          | 0.324       | 0.040 | mg/kg | 0.400       |  | 81.0        | 59.7-107        | 2.36   | 8.65 |  |
| Chrysene                           | 0.311       | 0.040 | mg/kg | 0.400       |  | 77.9        | 12.2-190        | 1.85   | 21.8 |  |
| Dibenz[a,h]anthracene              | 0.298       | 0.040 | mg/kg | 0.400       |  | 74.5        | 59.1-111        | 2.34   | 11.6 |  |
| Fluoranthene                       | 0.304       | 0.040 | mg/kg | 0.400       |  | 76.0        | 60.6-111        | 1.65   | 7.54 |  |
| Fluorene                           | 0.323       | 0.040 | mg/kg | 0.400       |  | 80.6        | 59.3-108        | 4.89   | 5.49 |  |
| Indeno[1,2,3-cd]pyrene             | 0.311       | 0.040 | mg/kg | 0.400       |  | 77.8        | 53.4-116        | 0.0353 | 22.3 |  |
| Naphthalene                        | 0.310       | 0.040 | mg/kg | 0.400       |  | 77.4        | 56.5-106        | 0.667  | 4.56 |  |
| <i>Surrogate: Nitrobenzene-d5</i>  | <i>1.47</i> |       | mg/kg | <i>2.00</i> |  | <i>73.5</i> | <i>39.6-121</i> |        |      |  |
| Phenanthrene                       | 0.311       | 0.040 | mg/kg | 0.400       |  | 77.7        | 59.9-107        | 2.83   | 5.21 |  |
| Pyrene                             | 0.318       | 0.040 | mg/kg | 0.400       |  | 79.4        | 51.5-122        | 4.02   | 10.6 |  |
| <i>Surrogate: Terphenyl-d14</i>    | <i>1.67</i> |       | mg/kg | <i>2.00</i> |  | <i>83.7</i> | <i>33.3-136</i> |        |      |  |

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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Margaret Spaulding (OWP) 12-A  
Project Manager: Kyle Siesser

Reported:  
09/27/21 15:21

Notes and Definitions

- SD2 Serial Dilution RPD exceeded the laboratory control limit. All other QC for analyte acceptable.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- 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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Debbie Zufelt, Reports Manager

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

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

|  |  |               |  |                                |  |                                |  |
|--|--|---------------|--|--------------------------------|--|--------------------------------|--|
| Company Name: Cottonwood Consulting LLC          |  | P.O. #:       |  | Bill to (if different):        |  | ANALYSIS REQUEST               |  |
| Project Manager: Kyle Siesser                    |  | Company:      |  |                                |  |                                |  |
| Address: PO Box 1653                             |  | Attn:         |  |                                |  |                                |  |
| City: Durango                                    |  | State: CO     |  | Zip: 81302                     |  |                                |  |
| Phone #: 970-764-7356                            |  | Address:      |  |                                |  |                                |  |
| Email: ksiesser@cottonwoodconsulting.com         |  | City:         |  |                                |  |                                |  |
| Additional Report To:                            |  | State:        |  | Zip:                           |  |                                |  |
| Project Name: Margaret Spaulding cows 1A-A       |  | Phone #:      |  |                                |  |                                |  |
| Project Number:                                  |  | Fax or Email: |  |                                |  |                                |  |
| Sampler Name (Print): Emma Miller / Kyle Siesser |  |               |  |                                |  |                                |  |
| FOR LAB USE ONLY                                 |  | Collected     |  | Matrix (check one)             |  | # of containers                |  |
| Lab I.D.   |  | Date          |  | GROUNDWATER                    |  | No preservation (general)      |  |
| Sample Name or Location                          |  | Time          |  | SURFACEWATER                   |  | HNO <sub>3</sub>               |  |
| 2109-058-01                                      |  | 9/1/21        |  | WASTEWATER                     |  | HCl                            |  |
| -02  |  | 1140          |  | PRODUCEDWATER                  |  | H <sub>2</sub> SO <sub>4</sub> |  |
| SSO1   |  | 1135          |  | SOIL                           |  | Other:                         |  |
| -03  |  | 1130          |  | OTHER :                        |  | COGCC Table 915                |  |
| SSO3   |  | 1125          |  | No preservation (general)      |  |                                |  |
| -04  |  | ↑             |  | HNO <sub>3</sub>               |  |                                |  |
| SSO4   |  | 1125          |  | HCl                            |  |                                |  |
|  |  |               |  | H <sub>2</sub> SO <sub>4</sub> |  |                                |  |
|  |  |               |  | Other:                         |  |                                |  |
|  |  |               |  | Other:                         |  |                                |  |

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|                  |               |                                   |               |
|------------------|---------------|-----------------------------------|---------------|
| Relinquished By: | Date: 9/13/21 | Received By:                      | Date: 9/13/21 |
| Relinquished By: | Time: 1115    | Received By: <i>Dollie Zupelt</i> | Time:         |
| Relinquished By: | Date:         | Received By:                      | Date:         |
| Relinquished By: | Time:         | Received By:                      | Time:         |

Delivered By: (Circle One)  UPS - FedEx - Kangaroo - Other:  Temperature at receipt: 5.215.1°C CHECKED BY: *DZ*

ADDITIONAL REMARKS: #3 Laser On Ice

Report to State? (Circle)  Yes  No

\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.