



Eagle Environmental Consulting, LLC
Alfred Garraffa
8000 W 44th Ave

October 01, 2024

Wheat Ridge CO 80033

Project Name - Noble - State #36-614

Project Number - [none]

Attached are your analytical results for Noble - State #36-614 received by Origins Laboratory September 16, 2024. This project is associated with Origins project number E409435-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|--------------------------|------------------|
| EX-FS-03-01@8' | E409435-01 | Soil | September 16, 2024 14:17 | 09/16/2024 16:32 |
| EX-SS-18-01@7' | E409435-02 | Soil | September 16, 2024 14:22 | 09/16/2024 16:32 |
| EX-SS-19-01@7' | E409435-03 | Soil | September 16, 2024 14:27 | 09/16/2024 16:32 |
| EX-SS-20-01@7' | E409435-04 | Soil | September 16, 2024 14:32 | 09/16/2024 16:32 |
| EX-SS-21-01@7' | E409435-05 | Soil | September 16, 2024 14:47 | 09/16/2024 16:32 |
| EX-SS-22-01@7' | E409435-06 | Soil | September 16, 2024 14:52 | 09/16/2024 16:32 |
| EX-SS-23-01@7' | E409435-07 | Soil | September 16, 2024 14:57 | 09/16/2024 16:32 |

Origins Laboratory



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Eagle Environmental Consulting, LLC
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Alfred Garraffa
Project Number: [none]
Project: Noble - State #36-614

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: E409435

Client: Eagle
Client Project ID: State #36-614

Checklist Completed by: KK

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/16/24

Airbill #: _____

Matrix(s) Received: (Check all that apply): Soil/Solid _____ Water _____ Other: _____

Cooler Number/Temperature: 1 / 4.3 °c _____ / _____ °c _____ / _____ °c _____ / _____ °c (Describe)

Thermometer ID: T005

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | / | | | |
| Is there ice present (document if blue ice is used) | / | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | / | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | / | | |
| Were all samples received intact ⁽¹⁾ ? | / | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | / | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | / | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | / | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | / | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | / | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | / | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | / | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH) | | | / | |
| Additional Comments (if any): | | | | |

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) AK

Date/Time Reviewed 9/16/24

Origins Laboratory



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Alfred Garraffa
 Project Number: [none]
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EX-FS-03-01@8'

9/16/2024 2:17:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory
 E409435-01 (Soil)**

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.53 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/25/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 2.51 | | 0.258 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 142 | | 8.89 | " | " | " | " | " | |

Origins Laboratory



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EX-SS-18-01@7'

9/16/2024 2:22:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory
 E409435-02 (Soil)**

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.48 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/25/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 6.06 | | 0.268 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 83.6 | | 9.25 | " | " | " | " | " | |

Origins Laboratory



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Alfred Garraffa
 Project Number: [none]
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EX-SS-19-01@7'

9/16/2024 2:27:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory
E409435-03 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.51 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/25/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 4.25 | | 0.281 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 105 | | 9.70 | " | " | " | " | " | |

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EX-SS-20-01@7'

9/16/2024 2:32:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory
 E409435-04 (Soil)**

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.54 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/25/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 4.88 | | 0.252 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 90.0 | | 8.71 | " | " | " | " | " | |

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EX-SS-21-01@7'

9/16/2024 2:47:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory
E409435-05 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.58 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/26/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 5.29 | | 0.268 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 163 | | 9.24 | " | " | " | " | " | |

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EX-SS-22-01@7'

9/16/2024 2:52:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory
 E409435-06 (Soil)**

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.46 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/26/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 11.4 | | 0.263 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 80.0 | | 9.06 | " | " | " | " | " | |

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

EX-SS-23-01@7'

9/16/2024 2:57:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory
 E409435-07 (Soil)**

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.44 | | | pH Units | 1 | B412414 | 09/24/2024 | 09/26/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 4.70 | | 0.261 | mg/kg | 10 | B411650 | 09/16/2024 | 09/17/2024 | |
| Barium | 79.8 | | 8.99 | " | " | " | " | " | |

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

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

Batch B4I1650 - EPA 3050B

Blank (B4I1650-BLK1)

Prepared: 09/16/2024 Analyzed: 09/17/2024

| | | | | | | | | | | |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.290 | mg/kg | | | | | | | |
| Barium | ND | 10.0 | " | | | | | | | |
| Cadmium | ND | 0.100 | " | | | | | | | |
| Copper | ND | 10.0 | " | | | | | | | |
| Lead | ND | 1.00 | " | | | | | | | |
| Nickel | ND | 1.00 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.100 | " | | | | | | | |
| Zinc | ND | 37.0 | " | | | | | | | |

LCS (B4I1650-BS1)

Prepared: 09/16/2024 Analyzed: 09/17/2024

| | | | | | | | | | | |
|----------|------|-------|-------|------|--|------|--------|--|--|--|
| Arsenic | 4.95 | 0.290 | mg/kg | 5.00 | | 99.1 | 80-120 | | | |
| Barium | 472 | 10.0 | " | 500 | | 94.4 | 80-120 | | | |
| Cadmium | 4.71 | 0.100 | " | 5.00 | | 94.3 | 80-120 | | | |
| Copper | 48.8 | 10.0 | " | 50.0 | | 97.5 | 80-120 | | | |
| Lead | 4.76 | 1.00 | " | 5.00 | | 95.2 | 80-120 | | | |
| Nickel | 5.15 | 1.00 | " | 5.00 | | 103 | 80-120 | | | |
| Selenium | 4.79 | 0.260 | " | 5.00 | | 95.8 | 80-120 | | | |
| Silver | 4.84 | 0.100 | " | 5.00 | | 96.7 | 80-120 | | | |
| Zinc | 48.0 | 37.0 | " | 50.0 | | 96.0 | 80-120 | | | |

Matrix Spike (B4I1650-MS1)

Source: E409428-01

Prepared: 09/16/2024 Analyzed: 09/17/2024

| | | | | | | | | | | |
|---------|------|--------|-------|------|-------|------|--------|--|--|--|
| Arsenic | 6.79 | 0.269 | mg/kg | 4.64 | 2.60 | 90.2 | 75-125 | | | |
| Barium | 522 | 9.29 | " | 464 | 72.5 | 96.8 | 75-125 | | | |
| Cadmium | 4.55 | 0.0929 | " | 4.64 | 0.115 | 95.6 | 75-125 | | | |
| Copper | 52.0 | 9.29 | " | 46.4 | 7.12 | 96.6 | 75-125 | | | |
| Lead | 11.7 | 0.929 | " | 4.64 | 7.09 | 99.4 | 75-125 | | | |

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|---------------------------|-------------|---------------|---|-------------|------|-----------|-------|
| Batch B4I1650 - EPA 3050B | | | | | | | | | | |
| Matrix Spike (B4I1650-MS1) | | | Source: E409428-01 | | | Prepared: 09/16/2024 Analyzed: 09/17/2024 | | | | |
| Nickel | 11.4 | 0.929 | mg/kg | 4.64 | 7.46 | 84.6 | 75-125 | | | |
| Selenium | 4.65 | 0.241 | " | 4.64 | 0.146 | 96.9 | 75-125 | | | |
| Silver | 1.38 | 0.0929 | " | 4.64 | 0.0434 | 28.8 | 75-125 | | | QM-07 |
| Zinc | 70.7 | 34.4 | " | 46.4 | 31.8 | 83.6 | 75-125 | | | |
| Matrix Spike Dup (B4I1650-MSD1) | | | Source: E409428-01 | | | Prepared: 09/16/2024 Analyzed: 09/17/2024 | | | | |
| Arsenic | 7.46 | 0.279 | mg/kg | 4.81 | 2.60 | 101 | 75-125 | 9.36 | 20 | |
| Barium | 537 | 9.62 | " | 481 | 72.5 | 96.6 | 75-125 | 2.92 | 20 | |
| Cadmium | 4.88 | 0.0962 | " | 4.81 | 0.115 | 98.9 | 75-125 | 6.82 | 20 | |
| Copper | 56.7 | 9.62 | " | 48.1 | 7.12 | 103 | 75-125 | 8.76 | 20 | |
| Lead | 12.1 | 0.962 | " | 4.81 | 7.09 | 104 | 75-125 | 3.28 | 20 | |
| Nickel | 12.3 | 0.962 | " | 4.81 | 7.46 | 102 | 75-125 | 8.06 | 20 | |
| Selenium | 4.95 | 0.250 | " | 4.81 | 0.146 | 99.8 | 75-125 | 6.33 | 20 | |
| Silver | 1.46 | 0.0962 | " | 4.81 | 0.0434 | 29.5 | 75-125 | 5.70 | 20 | QM-07 |
| Zinc | 80.0 | 35.6 | " | 48.1 | 31.8 | 100 | 75-125 | 12.4 | 20 | |

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Project Number: [none]
Project: Noble - State #36-614

Saturated Paste - Quality Control
Origins Laboratory

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

Batch B4I2414 - Saturated Paste pH/EC

Duplicate (B4I2414-DUP1)

Source: E409415-20

Prepared: 09/24/2024 Analyzed: 09/25/2024

| | | | | | | | | | | |
|----|------|--|----------|--|------|--|--|-------|----|--|
| pH | 8.65 | | pH Units | | 8.66 | | | 0.116 | 25 | |
|----|------|--|----------|--|------|--|--|-------|----|--|

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - State #36-614

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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