



October 20, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Kehn USX AA #01-16

Project Number - [none]

Attached are your analytical results for Noble - Kehn USX AA #01-16 received by Origins Laboratory, Inc. October 05, 2023. This project is associated with Origins project number Y310187-01.

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



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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Kehn USX AA #01-16

### CROSS REFERENCE REPORT

| Sample ID       | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------------|---------------|--------|--------------------------|------------------|
| Background-01@2 | Y310187-01    | Soil   | September 21, 2023 14:58 | 10/05/2023 16:30 |

Origins Laboratory, Inc.

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# ORIGINS LABORATORY, INC

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Martin C Eckert III  
Project Number: [none]  
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Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: Y310187 Client: Eagle  
Client Project ID: Kehn USX AA

Checklist Completed by: TJH/EHS Shipped Via: TW  
Date/time completed: 10/10/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
Cooler Number/Temperature: 1 / 6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: T004

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

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

Reviewed by (Project Manager) Jb

Date/Time Reviewed 10-9-23

Origins Laboratory, Inc.  
*J Bynon*

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Kehn USX AA #01-16

Background-01@2'  
9/21/2023 2:58:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.  
Y310187-01 (Soil)

Table 915 metals by EPA 6020B

|          |       |        |       |    |         |     |            |            |  |
|----------|-------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic  | 3.28  | 0.0973 | mg/kg | 10 | B3J0903 | EDM | 10/09/2023 | 10/13/2023 |  |
| Lead     | ND    | 9.73   | "     | "  | "       | EDM | "          | "          |  |
| Selenium | 0.127 | 0.0973 | "     | "  | "       | EDM | "          | "          |  |

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Jordan A. Bynon, Project Manager



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Martin C Eckert III  
 Project Number: [none]  
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B3J0903 - EPA 3050B**

Prepared: 10/09/2023 Analyzed: 10/13/2023

**Blank (B3J0903-BLK1)**

|          |    |          |       |  |  |  |  |  |  |  |
|----------|----|----------|-------|--|--|--|--|--|--|--|
| Arsenic  | ND | 0.000100 | mg/kg |  |  |  |  |  |  |  |
| Barium   | ND | 0.0100   | "     |  |  |  |  |  |  |  |
| Cadmium  | ND | 0.000100 | "     |  |  |  |  |  |  |  |
| Copper   | ND | 0.0100   | "     |  |  |  |  |  |  |  |
| Lead     | ND | 0.0100   | "     |  |  |  |  |  |  |  |
| Nickel   | ND | 0.0100   | "     |  |  |  |  |  |  |  |
| Selenium | ND | 0.000100 | "     |  |  |  |  |  |  |  |
| Silver   | ND | 0.000100 | "     |  |  |  |  |  |  |  |
| Zinc     | ND | 0.100    | "     |  |  |  |  |  |  |  |

**LCS (B3J0903-BS1)**

Prepared: 10/09/2023 Analyzed: 10/13/2023

|          |        |          |       |        |     |        |  |  |  |  |
|----------|--------|----------|-------|--------|-----|--------|--|--|--|--|
| Arsenic  | 0.0513 | 0.000100 | mg/kg | 0.0500 | 103 | 80-120 |  |  |  |  |
| Barium   | 5.00   | 0.0100   | "     | 5.00   | 100 | 80-120 |  |  |  |  |
| Cadmium  | 0.0514 | 0.000100 | "     | 0.0500 | 103 | 80-120 |  |  |  |  |
| Copper   | 0.551  | 0.0100   | "     | 0.500  | 110 | 80-120 |  |  |  |  |
| Lead     | 0.0505 | 0.0100   | "     | 0.0500 | 101 | 80-120 |  |  |  |  |
| Nickel   | 0.0502 | 0.0100   | "     | 0.0500 | 100 | 80-120 |  |  |  |  |
| Selenium | 0.0509 | 0.000100 | "     | 0.0500 | 102 | 80-120 |  |  |  |  |
| Silver   | 0.0518 | 0.000100 | "     | 0.0500 | 104 | 80-120 |  |  |  |  |
| Zinc     | 0.525  | 0.100    | "     | 0.500  | 105 | 80-120 |  |  |  |  |

**Matrix Spike (B3J0903-MS1)**

Source: Y310157-01

Prepared: 10/09/2023 Analyzed: 10/13/2023

|         |      |        |       |      |       |      |        |  |  |       |
|---------|------|--------|-------|------|-------|------|--------|--|--|-------|
| Arsenic | 8.77 | 0.0881 | mg/kg | 4.40 | 21.3  | NR   | 75-125 |  |  | QM-07 |
| Barium  | 579  | 8.81   | "     | 440  | 152   | 97.1 | 75-125 |  |  |       |
| Cadmium | 4.56 | 0.0881 | "     | 4.40 | 0.393 | 94.5 | 75-125 |  |  |       |
| Copper  | 55.6 | 8.81   | "     | 44.0 | 25.4  | 68.5 | 75-125 |  |  | QM-07 |
| Lead    | 12.9 | 8.81   | "     | 4.40 | 11.8  | 24.1 | 75-125 |  |  | QM-07 |

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B3J0903 - EPA 3050B

**Matrix Spike (B3J0903-MS1)**

Source: Y310157-01

Prepared: 10/09/2023 Analyzed: 10/13/2023

|          |      |        |       |      |        |      |        |  |  |       |
|----------|------|--------|-------|------|--------|------|--------|--|--|-------|
| Nickel   | 15.6 | 8.81   | mg/kg | 4.40 | 15.0   | 14.3 | 75-125 |  |  | QM-07 |
| Selenium | 4.13 | 0.0881 | "     | 4.40 | 0.389  | 84.9 | 75-125 |  |  |       |
| Silver   | 4.40 | 0.0881 | "     | 4.40 | 0.0361 | 99.1 | 75-125 |  |  |       |
| Zinc     | 81.7 | 88.1   | "     | 44.0 | 48.3   | 75.8 | 75-125 |  |  |       |

**Matrix Spike Dup (B3J0903-MSD1)**

Source: Y310157-01

Prepared: 10/09/2023 Analyzed: 10/13/2023

|          |      |        |       |      |        |      |        |      |    |       |
|----------|------|--------|-------|------|--------|------|--------|------|----|-------|
| Arsenic  | 8.17 | 0.0842 | mg/kg | 4.21 | 21.3   | NR   | 75-125 | 7.03 | 20 | QM-07 |
| Barium   | 630  | 8.42   | "     | 421  | 152    | 114  | 75-125 | 8.38 | 20 |       |
| Cadmium  | 4.28 | 0.0842 | "     | 4.21 | 0.393  | 92.2 | 75-125 | 6.33 | 20 |       |
| Copper   | 51.6 | 8.42   | "     | 42.1 | 25.4   | 62.3 | 75-125 | 7.35 | 20 | QM-07 |
| Lead     | 12.0 | 8.42   | "     | 4.21 | 11.8   | 3.58 | 75-125 | 7.33 | 20 | QM-07 |
| Nickel   | 14.9 | 8.42   | "     | 4.21 | 15.0   | NR   | 75-125 | 4.83 | 20 | QM-07 |
| Selenium | 4.08 | 0.0842 | "     | 4.21 | 0.389  | 87.7 | 75-125 | 1.02 | 20 |       |
| Silver   | 4.15 | 0.0842 | "     | 4.21 | 0.0361 | 97.6 | 75-125 | 5.97 | 20 |       |
| Zinc     | 77.9 | 84.2   | "     | 42.1 | 48.3   | 70.2 | 75-125 | 4.77 | 20 | QM-07 |

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Martin C Eckert III  
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## 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 at a wet weight basis.

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