

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

June 12, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Bernhardt 013-07

Work Order # 2305416

Enclosed are the results of analyses for samples received by Summit Scientific on 05/17/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| FL01 3feet | 2305416-01 | Soil | 05/17/23 11:00 | 05/17/23 16:30 |
| FL06 3feet | 2305416-02 | Soil | 05/17/23 11:21 | 05/17/23 16:30 |
| FL20 4feet | 2305416-03 | Soil | 05/17/23 13:04 | 05/17/23 16:30 |

Case Narrative

Dan Peterson requested Metals be added to FL01-@3' on 5/31/2023. This report includes those results.



4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

| | |
|----------------|---------------------------|
| Lab ID | Page <u>1</u> of <u>1</u> |
| <u>2305416</u> | |

| | | | |
|-------------------------------|--|--|--|
| | | Send Data To: | Send Invoice To: |
| Client: Fremont Environmental | | Project Manager: Paul Henehan | Company: <u>NOBLE</u> |
| Address: | | E-Mail: Fremont Distribution List | Project Name/Location: <u>Bernhardt 013-07</u> |
| City/State/Zip: | | | AFE#: |
| Phone: 303-261-6246 | | Project Name: <u>Bernhardt 013-07</u> | PO/Billing Codes: <u>UWRWE-A2660-ABN</u> |
| Sampler Name: Stanley Gilbert | | Project Number: <u>UWRWE-A2660-ABN</u> | Contact: <u>Mike Montoya</u> |

| | | | | | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------------|--------|------|----------------|-------------|--------------------|-----|-----------|--------------------|--------------|------------------------|--|------|----------------------|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other _____ | Water | Soil | Air-Canister # | Other _____ | BTEX, TMBs, Naph. | TPH | PAH (915) | EC, SAR, Ph, Boron | Metals (915) | TDS, Chloride, Sulfate | | HOLD | |
| 1 | FL02 3 feet | 5/17/23 | 11:00 | 2 | | | X | | | X | | | X | X | X | X | | | | | |
| 2 | FL06 3 feet | 5/17/23 | 11:21 | 2 | | | X | | | X | | | X | X | X | X | | | | | |
| 3 | FL20 4 feet | 5/17/23 | 13:04 | 2 | | | X | | | X | | | X | X | X | X | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---------------------------------------|---------------------------------|----------------------------------|---------------------------------|-------------------|---------------|--------|
| Relinquished by: <u>[Signature]</u> | Date/Time: <u>5/17/23 15:08</u> | Received by: <u>Summit North</u> | Date/Time: <u>5/17/23 15:08</u> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: <u>SL</u> | Date/Time: <u>5/17/23 1630</u> | Received by: <u>[Signature]</u> | Date/Time: <u>5/17/23 1600</u> | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | X Field Turb. | |
| Temperature Upon Receipt: <u>12.2</u> | Corrected Temperature: <u>0</u> | IR gun #: | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order#

2305418

Client: Fremont

Client Project ID: Bernhardt 013-07

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

12.2

Thermometer #

1

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | on ice |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are samples due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples received intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |
| ⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative. | | | | |

AS
Custodian Printed Name5/17/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL01 3feet
2305416-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGE0708 | 05/19/23 | 05/20/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 109 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 95.9 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.0 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|-----------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | 79 | 50 | | mg/kg | 1 | BGE0710 | 05/19/23 | 05/20/23 | EPA 8015M | |
| C28-C36 (ORO) | 69 | 50 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 84.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL01 3feet
2305416-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------|----------------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGE0676 | 05/19/23 | 05/20/23 | EPA 8270D SIM | |
| Anthracene | 0.00718 | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | 0.0982 | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | 0.104 | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | 0.123 | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | 0.0444 | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | 0.0988 | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | 0.0140 | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | 0.191 | 0.00500 | | " | " | " | " | " | " | E |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | 0.0881 | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | 0.188 | 0.00500 | | " | " | " | " | " | " | E |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 85.1 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 40.4 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.150 | 0.0100 | | mg/L | 1 | BGE0819 | 05/23/23 | 05/26/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-----|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL01 3feet
2305416-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | | |
|----------|--------|--------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.73 | 0.238 | | mg/kg dry | 1 | BGF0090 | 06/02/23 | 06/08/23 | EPA 6020B |
| Barium | 100 | 0.475 | | " | " | " | " | " | " |
| Cadmium | ND | 0.238 | | " | " | " | " | " | " |
| Copper | 2.65 | 0.475 | | " | " | " | " | " | " |
| Lead | 14.5 | 0.238 | | " | " | " | " | " | " |
| Nickel | 2.79 | 0.475 | | " | " | " | " | " | " |
| Selenium | ND | 0.309 | 0.208 | " | " | " | " | " | " |
| Silver | 0.0242 | 0.0238 | | " | " | " | " | " | " |
| Zinc | 13.8 | 0.475 | | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting | | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | | mg/kg dry | 1 | BGF0260 | 06/07/23 | 06/08/23 | EPA 7196A | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting | | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | | |
| Calcium | 68.1 | 0.0594 | | | mg/L dry | 1 | BGE0828 | 05/23/23 | 05/26/23 | EPA 6020B | |
| Magnesium | 9.22 | 0.0594 | | | " | " | " | " | " | " | |
| Sodium | 15.2 | 0.0594 | | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting | | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------|--|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | | |
| Sodium Adsorption Ratio | 0.459 | 0.00100 | | | units | 1 | BGE0937 | 05/26/23 | 05/26/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL01 3feet
2305416-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 84.2 | | | % | 1 | BGE0761 | 05/22/23 | 05/22/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.298 | 0.0100 | | mmhos/cm | 1 | BGE0866 | 05/24/23 | 05/24/23 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/17/23 11:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.75 | | | pH Units | 1 | BGE0865 | 05/24/23 | 05/24/23 | EPA 9045D | |

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Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL06 3feet
2305416-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGE0708 | 05/19/23 | 05/20/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 116 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.5 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGE0710 | 05/19/23 | 05/20/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 86.1 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL06 3feet
2305416-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|----------------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGE0676 | 05/19/23 | 05/20/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | 0.00581 | 0.00500 | | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 87.3 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 51.2 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.226 | 0.0100 | | mg/L | 1 | BGE0819 | 05/23/23 | 05/26/23 | EPA 6020B | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-----|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL06 3feet
2305416-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

| | | | | | | | | |
|-----------|------|--------|----------|---|---------|----------|----------|-----------|
| Calcium | 44.0 | 0.0530 | mg/L dry | 1 | BGE0828 | 05/23/23 | 05/26/23 | EPA 6020B |
| Magnesium | 23.6 | 0.0530 | " | " | " | " | " | " |
| Sodium | 85.8 | 0.0530 | " | " | " | " | " | " |

Calculated Analysis

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.59 | 0.00100 | | units | 1 | BGE0937 | 05/26/23 | 05/26/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 94.3 | | | % | 1 | BGE0761 | 05/22/23 | 05/22/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|--------------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.08 | 0.0100 | | mmhos/cm | 1 | BGE0866 | 05/24/23 | 05/24/23 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/17/23 11:21**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.71 | | | pH Units | 1 | BGE0865 | 05/24/23 | 05/24/23 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL20 4feet
2305416-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGE0708 | 05/19/23 | 05/20/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 114 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 97.7 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 99.2 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGE0710 | 05/19/23 | 05/20/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 82.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL20 4feet
2305416-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGE0676 | 05/19/23 | 05/20/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 78.1 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 41.4 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.145 | 0.0100 | | mg/L | 1 | BGE0819 | 05/23/23 | 05/26/23 | EPA 6020B | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-----|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

FL20 4feet
2305416-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

| | | | | | | | | |
|-----------|------|--------|----------|---|---------|----------|----------|-----------|
| Calcium | 173 | 0.0555 | mg/L dry | 1 | BGE0828 | 05/23/23 | 05/26/23 | EPA 6020B |
| Magnesium | 75.6 | 0.0555 | " | " | " | " | " | " |
| Sodium | 2.01 | 0.0555 | " | " | " | " | " | " |

Calculated Analysis

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0321 | 0.00100 | | units | 1 | BGE0937 | 05/26/23 | 05/26/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.1 | | | % | 1 | BGE0761 | 05/22/23 | 05/22/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.134 | 0.0100 | | mmhos/cm | 1 | BGE0866 | 05/24/23 | 05/24/23 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/17/23 13:04**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 6.67 | | | pH Units | 1 | BGE0865 | 05/24/23 | 05/24/23 | EPA 9045D | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGE0708 - EPA 5030 Soil MS

Blank (BGE0708-BLK1)

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0443 | | " | 0.0400 | | 111 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0386 | | " | 0.0400 | | 96.4 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0374 | | " | 0.0400 | | 93.4 | 50-150 | | | |

LCS (BGE0708-BS1)

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0769 | 0.0020 | mg/kg | 0.100 | | 76.9 | 70-130 | | | |
| Toluene | 0.0925 | 0.0050 | " | 0.100 | | 92.5 | 70-130 | | | |
| Ethylbenzene | 0.116 | 0.0050 | " | 0.100 | | 116 | 70-130 | | | |
| m,p-Xylene | 0.233 | 0.010 | " | 0.200 | | 117 | 70-130 | | | |
| o-Xylene | 0.107 | 0.0050 | " | 0.100 | | 107 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.0050 | " | 0.100 | | 125 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.129 | 0.0050 | " | 0.100 | | 129 | 70-130 | | | |
| Naphthalene | 0.0869 | 0.0038 | " | 0.100 | | 86.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0398 | | " | 0.0400 | | 99.6 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0373 | | " | 0.0400 | | 93.2 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0408 | | " | 0.0400 | | 102 | 50-150 | | | |

Matrix Spike (BGE0708-MS1)

Source: 2305388-01

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0783 | 0.0020 | mg/kg | 0.100 | ND | 78.3 | 70-130 | | | |
| Toluene | 0.0943 | 0.0050 | " | 0.100 | ND | 94.3 | 70-130 | | | |
| Ethylbenzene | 0.114 | 0.0050 | " | 0.100 | ND | 114 | 70-130 | | | |
| m,p-Xylene | 0.231 | 0.010 | " | 0.200 | ND | 115 | 70-130 | | | |
| o-Xylene | 0.106 | 0.0050 | " | 0.100 | ND | 106 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.124 | 0.0050 | " | 0.100 | ND | 124 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.126 | 0.0050 | " | 0.100 | ND | 126 | 70-130 | | | |
| Naphthalene | 0.0824 | 0.0038 | " | 0.100 | ND | 82.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0378 | | " | 0.0400 | | 94.5 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0385 | | " | 0.0400 | | 96.3 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0381 | | " | 0.0400 | | 95.3 | 50-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGE0708 - EPA 5030 Soil MS

| Matrix Spike Dup (BGE0708-MSD1) | Source: 2305388-01 | | | Prepared: 05/19/23 Analyzed: 05/20/23 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene | 0.0760 | 0.0020 | mg/kg | 0.100 | ND | 76.0 | 70-130 | 2.92 | 30 | |
| Toluene | 0.0940 | 0.0050 | " | 0.100 | ND | 94.0 | 70-130 | 0.319 | 30 | |
| Ethylbenzene | 0.115 | 0.0050 | " | 0.100 | ND | 115 | 70-130 | 1.05 | 30 | |
| m,p-Xylene | 0.232 | 0.010 | " | 0.200 | ND | 116 | 70-130 | 0.376 | 30 | |
| o-Xylene | 0.105 | 0.0050 | " | 0.100 | ND | 105 | 70-130 | 0.934 | 30 | |
| 1,2,4-Trimethylbenzene | 0.122 | 0.0050 | " | 0.100 | ND | 122 | 70-130 | 1.20 | 30 | |
| 1,3,5-Trimethylbenzene | 0.129 | 0.0050 | " | 0.100 | ND | 129 | 70-130 | 1.91 | 30 | |
| Naphthalene | 0.0902 | 0.0038 | " | 0.100 | ND | 90.2 | 70-130 | 9.11 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0370 | | " | 0.0400 | | 92.6 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0384 | | " | 0.0400 | | 95.9 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0386 | | " | 0.0400 | | 96.6 | 50-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0710 - EPA 3550A

Blank (BGE0710-BLK1)

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: o-Terphenyl | 9.61 | | " | 12.5 | | 76.9 | 30-150 | | | |

LCS (BGE0710-BS1)

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 491 | 50 | mg/kg | 500 | | 98.2 | 70-130 | | | |
| Surrogate: o-Terphenyl | 9.56 | | " | 12.5 | | 76.5 | 30-150 | | | |

Matrix Spike (BGE0710-MS1)

Source: 2305388-01

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 506 | 50 | mg/kg | 500 | 12.4 | 98.7 | 70-130 | | | |
| Surrogate: o-Terphenyl | 9.66 | | " | 12.5 | | 77.3 | 30-150 | | | |

Matrix Spike Dup (BGE0710-MSD1)

Source: 2305388-01

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 524 | 50 | mg/kg | 500 | 12.4 | 102 | 70-130 | 3.61 | 20 | |
| Surrogate: o-Terphenyl | 9.70 | | " | 12.5 | | 77.6 | 30-150 | | | |



Fremont Environmental
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Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN
Project Manager: Paul Henehan

Reported:
06/12/23 11:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0676 - EPA 5030 Soil MS

Blank (BGE0676-BLK1)

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0294 | | " | 0.0333 | | 88.2 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0274 | | " | 0.0333 | | 82.1 | 40-150 | | | |

LCS (BGE0676-BS1)

Prepared: 05/19/23 Analyzed: 05/20/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0310 | 0.00500 | mg/kg | 0.0333 | | 93.0 | 31-137 | | | |
| Anthracene | 0.0302 | 0.00500 | " | 0.0333 | | 90.7 | 30-120 | | | |
| Benzo (a) anthracene | 0.0333 | 0.00500 | " | 0.0333 | | 100 | 30-120 | | | |
| Benzo (a) pyrene | 0.0297 | 0.00500 | " | 0.0333 | | 89.2 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0301 | 0.00500 | " | 0.0333 | | 90.3 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0295 | 0.00500 | " | 0.0333 | | 88.5 | 30-120 | | | |
| Chrysene | 0.0324 | 0.00500 | " | 0.0333 | | 97.1 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0306 | 0.00500 | " | 0.0333 | | 91.9 | 30-120 | | | |
| Fluoranthene | 0.0262 | 0.00500 | " | 0.0333 | | 78.7 | 30-120 | | | |
| Fluorene | 0.0290 | 0.00500 | " | 0.0333 | | 87.1 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0325 | 0.00500 | " | 0.0333 | | 97.4 | 30-120 | | | |
| Pyrene | 0.0328 | 0.00500 | " | 0.0333 | | 98.5 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0391 | 0.00500 | " | 0.0333 | | 117 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0393 | 0.00500 | " | 0.0333 | | 118 | 35-142 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0383 | | " | 0.0333 | | 115 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0277 | | " | 0.0333 | | 83.0 | 40-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0676 - EPA 5030 Soil MS

| Matrix Spike (BGE0676-MS1) | | | Source: 2305388-01 | | Prepared: 05/19/23 Analyzed: 05/20/23 | | | | | |
|------------------------------------|--------|---------|--------------------|--------|---------------------------------------|------|--------|--|--|--|
| Acenaphthene | 0.0179 | 0.00500 | mg/kg | 0.0333 | ND | 53.7 | 31-137 | | | |
| Anthracene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.7 | 30-120 | | | |
| Benzo (a) anthracene | 0.0196 | 0.00500 | " | 0.0333 | ND | 58.9 | 30-120 | | | |
| Benzo (a) pyrene | 0.0155 | 0.00500 | " | 0.0333 | ND | 46.4 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0177 | 0.00500 | " | 0.0333 | ND | 53.1 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0173 | 0.00500 | " | 0.0333 | ND | 52.0 | 30-120 | | | |
| Chrysene | 0.0193 | 0.00500 | " | 0.0333 | ND | 58.0 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.9 | 30-120 | | | |
| Fluoranthene | 0.0163 | 0.00500 | " | 0.0333 | ND | 48.8 | 30-120 | | | |
| Fluorene | 0.0166 | 0.00500 | " | 0.0333 | ND | 49.7 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0151 | 0.00500 | " | 0.0333 | ND | 45.3 | 30-120 | | | |
| Pyrene | 0.0194 | 0.00500 | " | 0.0333 | ND | 58.3 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0285 | 0.00500 | " | 0.0333 | ND | 85.6 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.1 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0278 | | " | 0.0333 | | 83.5 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0168 | | " | 0.0333 | | 50.3 | 40-150 | | | |

| Matrix Spike Dup (BGE0676-MSD1) | | | Source: 2305388-01 | | Prepared: 05/19/23 Analyzed: 05/20/23 | | | | | |
|------------------------------------|--------|---------|--------------------|--------|---------------------------------------|------|--------|------|----|--|
| Acenaphthene | 0.0150 | 0.00500 | mg/kg | 0.0333 | ND | 45.0 | 31-137 | 17.5 | 30 | |
| Anthracene | 0.0152 | 0.00500 | " | 0.0333 | ND | 45.6 | 30-120 | 18.2 | 30 | |
| Benzo (a) anthracene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.4 | 30-120 | 15.5 | 30 | |
| Benzo (a) pyrene | 0.0160 | 0.00500 | " | 0.0333 | ND | 48.0 | 30-120 | 3.23 | 30 | |
| Benzo (b) fluoranthene | 0.0149 | 0.00500 | " | 0.0333 | ND | 44.7 | 30-120 | 17.1 | 30 | |
| Benzo (k) fluoranthene | 0.0146 | 0.00500 | " | 0.0333 | ND | 43.9 | 30-120 | 16.8 | 30 | |
| Chrysene | 0.0163 | 0.00500 | " | 0.0333 | ND | 48.8 | 30-120 | 17.2 | 30 | |
| Dibenz (a,h) anthracene | 0.0148 | 0.00500 | " | 0.0333 | ND | 44.3 | 30-120 | 17.7 | 30 | |
| Fluoranthene | 0.0133 | 0.00500 | " | 0.0333 | ND | 40.0 | 30-120 | 19.8 | 30 | |
| Fluorene | 0.0149 | 0.00500 | " | 0.0333 | ND | 44.6 | 30-120 | 10.9 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0162 | 0.00500 | " | 0.0333 | ND | 48.5 | 30-120 | 6.92 | 30 | |
| Pyrene | 0.0163 | 0.00500 | " | 0.0333 | ND | 48.9 | 35-142 | 17.6 | 30 | |
| 1-Methylnaphthalene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.3 | 15-130 | 23.9 | 50 | |
| 2-Methylnaphthalene | 0.0162 | 0.00500 | " | 0.0333 | ND | 48.7 | 15-130 | 21.0 | 50 | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0221 | | " | 0.0333 | | 66.2 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0139 | | " | 0.0333 | | 41.8 | 40-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BGE0819 - EPA 3050B

Blank (BGE0819-BLK1)

Prepared: 05/23/23 Analyzed: 05/26/23

Boron ND 0.0100 mg/L

LCS (BGE0819-BS1)

Prepared: 05/23/23 Analyzed: 05/26/23

Boron 7.00 0.0100 mg/L 6.25 112 80-120

Duplicate (BGE0819-DUP1)

Source: 2305414-01

Prepared: 05/23/23 Analyzed: 05/26/23

Boron 0.630 0.0100 mg/L 0.291 73.5 20 QR-03

Matrix Spike (BGE0819-MS1)

Source: 2305414-01

Prepared: 05/23/23 Analyzed: 05/26/23

Boron 6.60 0.0100 mg/L 6.25 0.291 101 75-125

Matrix Spike Dup (BGE0819-MSD1)

Source: 2305414-01

Prepared: 05/23/23 Analyzed: 05/26/23

Boron 6.77 0.0100 mg/L 6.25 0.291 104 75-125 2.58 25



Fremont Environmental
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Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0090 - EPA 3050B

Blank (BGF0090-BLK1)

Prepared: 06/02/23 Analyzed: 06/08/23

| | | | |
|----------|----|--------|-----------|
| Arsenic | ND | 0.200 | mg/kg wet |
| Barium | ND | 0.400 | " |
| Cadmium | ND | 0.200 | " |
| Copper | ND | 0.400 | " |
| Lead | ND | 0.200 | " |
| Nickel | ND | 0.400 | " |
| Selenium | ND | 0.260 | " |
| Silver | ND | 0.0200 | " |
| Zinc | ND | 0.400 | " |

LCS (BGF0090-BS1)

Prepared: 06/02/23 Analyzed: 06/08/23

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 38.9 | 0.200 | mg/kg wet | 40.0 | 97.3 | 80-120 |
| Barium | 39.5 | 0.400 | " | 40.0 | 98.9 | 80-120 |
| Cadmium | 1.99 | 0.200 | " | 2.00 | 99.3 | 80-120 |
| Copper | 40.6 | 0.400 | " | 40.0 | 102 | 80-120 |
| Lead | 20.6 | 0.200 | " | 20.0 | 103 | 80-120 |
| Nickel | 39.7 | 0.400 | " | 40.0 | 99.3 | 80-120 |
| Selenium | 4.26 | 0.260 | " | 4.00 | 106 | 80-120 |
| Silver | 2.00 | 0.0200 | " | 2.00 | 100 | 80-120 |
| Zinc | 39.0 | 0.400 | " | 40.0 | 97.4 | 80-120 |

Duplicate (BGF0090-DUP1)

Source: 2305416-01

Prepared: 06/02/23 Analyzed: 06/08/23

| | | | | | | |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic | 2.41 | 0.238 | mg/kg dry | 2.73 | 12.7 | 20 |
| Barium | 101 | 0.475 | " | 100 | 1.12 | 20 |
| Cadmium | 0.154 | 0.238 | " | 0.154 | 0.309 | 20 |
| Copper | 2.51 | 0.475 | " | 2.65 | 5.58 | 20 |
| Lead | 15.1 | 0.238 | " | 14.5 | 3.94 | 20 |
| Nickel | 2.64 | 0.475 | " | 2.79 | 5.38 | 20 |
| Selenium | ND | 0.309 | " | ND | | 20 |
| Silver | 0.0257 | 0.0238 | " | 0.0242 | 5.71 | 20 |
| Zinc | 13.1 | 0.475 | " | 13.8 | 5.53 | 20 |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0090 - EPA 3050B

| Matrix Spike (BGF0090-MS1) | | Source: 2305416-01 | | | Prepared: 06/02/23 | | Analyzed: 06/08/23 | | | | |
|----------------------------|------|--------------------|-----------|------|--------------------|------|--------------------|--|--|--|-------|
| Arsenic | 16.1 | 0.238 | mg/kg dry | 47.5 | 2.73 | 28.1 | 75-125 | | | | QM-05 |
| Barium | 121 | 0.475 | " | 47.5 | 100 | 43.8 | 75-125 | | | | QM-05 |
| Cadmium | 2.36 | 0.238 | " | 2.38 | 0.154 | 92.9 | 75-125 | | | | |
| Copper | 16.8 | 0.475 | " | 47.5 | 2.65 | 29.8 | 75-125 | | | | QM-05 |
| Lead | 34.0 | 0.238 | " | 23.8 | 14.5 | 82.1 | 75-125 | | | | |
| Nickel | 17.2 | 0.475 | " | 47.5 | 2.79 | 30.3 | 75-125 | | | | QM-05 |
| Selenium | 4.09 | 0.309 | " | 4.75 | ND | 86.1 | 75-125 | | | | |
| Silver | 2.27 | 0.0238 | " | 2.38 | 0.0242 | 94.5 | 75-125 | | | | |
| Zinc | 28.2 | 0.475 | " | 47.5 | 13.8 | 30.1 | 75-125 | | | | QM-05 |

| Matrix Spike Dup (BGF0090-MSD1) | | Source: 2305416-01 | | | Prepared: 06/02/23 | | Analyzed: 06/08/23 | | | | |
|---------------------------------|------|--------------------|-----------|------|--------------------|------|--------------------|------|----|--|-------|
| Arsenic | 16.5 | 0.238 | mg/kg dry | 47.5 | 2.73 | 28.9 | 75-125 | 2.37 | 25 | | QM-05 |
| Barium | 127 | 0.475 | " | 47.5 | 100 | 56.2 | 75-125 | 4.75 | 25 | | QM-05 |
| Cadmium | 2.54 | 0.238 | " | 2.38 | 0.154 | 100 | 75-125 | 7.25 | 25 | | |
| Copper | 17.2 | 0.475 | " | 47.5 | 2.65 | 30.7 | 75-125 | 2.35 | 25 | | QM-05 |
| Lead | 35.6 | 0.238 | " | 23.8 | 14.5 | 88.6 | 75-125 | 4.44 | 25 | | |
| Nickel | 17.6 | 0.475 | " | 47.5 | 2.79 | 31.1 | 75-125 | 2.29 | 25 | | QM-05 |
| Selenium | 4.42 | 0.309 | " | 4.75 | ND | 93.0 | 75-125 | 7.68 | 25 | | |
| Silver | 2.36 | 0.0238 | " | 2.38 | 0.0242 | 98.5 | 75-125 | 4.04 | 25 | | |
| Zinc | 28.9 | 0.475 | " | 47.5 | 13.8 | 31.8 | 75-125 | 2.72 | 25 | | QM-05 |

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGF0260 - 3060A Mod

Blank (BGF0260-BLK1)

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGF0260-BS1)

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent 23.4 0.30 mg/kg wet 25.0 93.6 80-120

Duplicate (BGF0260-DUP1)

Source: 2305319-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGF0260-MS1)

Source: 2305319-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent 33.4 0.30 mg/kg dry 32.2 ND 104 75-125

Matrix Spike Dup (BGF0260-MSD1)

Source: 2305319-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent 35.0 0.30 mg/kg dry 32.2 ND 109 75-125 4.52 20



Fremont Environmental
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Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0828 - General Preparation

Blank (BGE0828-BLK1)

Prepared: 05/23/23 Analyzed: 05/26/23

| | | | |
|-----------|----|--------|----------|
| Calcium | ND | 0.0500 | mg/L wet |
| Magnesium | ND | 0.0500 | " |
| Sodium | ND | 0.0500 | " |

LCS (BGE0828-BS1)

Prepared: 05/23/23 Analyzed: 05/26/23

| | | | | | | |
|-----------|------|--------|----------|------|------|--------|
| Calcium | 3.53 | 0.0500 | mg/L wet | 5.00 | 70.6 | 70-130 |
| Magnesium | 5.68 | 0.0500 | " | 5.00 | 114 | 70-130 |
| Sodium | 5.79 | 0.0500 | " | 5.00 | 116 | 70-130 |

Summit Scientific

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Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0866 - General Preparation

Blank (BGE0866-BLK1)

Prepared & Analyzed: 05/24/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0866-BS1)

Prepared & Analyzed: 05/24/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGE0866-DUP1)

Source: 2305086-05

Prepared & Analyzed: 05/24/23

Specific Conductance (EC) 0.572 0.0100 mmhos/cm 0.574 0.314 20



Fremont Environmental
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Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN

Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0865 - General Preparation

LCS (BGE0865-BS1)

Prepared & Analyzed: 05/24/23

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.03 | pH Units | 9.18 | 98.4 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BGE0865-DUP1)

Source: 2305086-05

Prepared & Analyzed: 05/24/23

| | | | | | |
|----|------|----------|------|------|----|
| pH | 7.58 | pH Units | 7.48 | 1.33 | 20 |
|----|------|----------|------|------|----|



Fremont Environmental
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Wellington CO, 80549

Project: Noble - Bernhardt 013-07

Project Number: UWRWE-A2660-ABN
Project Manager: Paul Henehan

Reported:
06/12/23 11:53

Notes and Definitions

| | |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| QM-05 | The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid. |
| E | The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. |
| 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 |
| RPD | Relative Percent Difference |