

LEGEND

| | <table border="1"> <thead> <tr> <th colspan="2">11/9/18 Floor@5'</th> </tr> </thead> <tbody> <tr><td>B</td><td><0.002</td></tr> <tr><td>T</td><td><0.005</td></tr> <tr><td>E</td><td><0.005</td></tr> <tr><td>X</td><td><0.005</td></tr> <tr><td>N</td><td><0.010</td></tr> <tr><td>G</td><td><50</td></tr> <tr><td>D</td><td><50</td></tr> <tr><td>EC</td><td>NA</td></tr> <tr><td>pH</td><td>NA</td></tr> <tr><td>SAR</td><td>NA</td></tr> </tbody> </table> <p style="text-align: center;">NA NOT ANALYZED</p> | 11/9/18 Floor@5' | | B | <0.002 | T | <0.005 | E | <0.005 | X | <0.005 | N | <0.010 | G | <50 | D | <50 | EC | NA | pH | NA | SAR | NA | <p>DATE SAMPLED LOCATION and DEPTH (ft)</p> <p>BENZENE (mg/kg) TOLUENE (mg/kg) ETHYLBENZENE (mg/kg) TOTAL XYLENES (mg/kg) NAPHTHALENE (mg/kg) TPH-GRO (mg/kg) TPH-DRO (mg/kg) EC mmhos/cm pH Units SAR Units</p> |
|---------------------|--|---------------------|--|---|--------|---|--------|---|--------|---|--------|---|--------|---|-----|---|-----|----|----|----|----|-----|----|--|
| 11/9/18 Floor@5' | | | | | | | | | | | | | | | | | | | | | | | | |
| B | <0.002 | | | | | | | | | | | | | | | | | | | | | | | |
| T | <0.005 | | | | | | | | | | | | | | | | | | | | | | | |
| E | <0.005 | | | | | | | | | | | | | | | | | | | | | | | |
| X | <0.005 | | | | | | | | | | | | | | | | | | | | | | | |
| N | <0.010 | | | | | | | | | | | | | | | | | | | | | | | |
| G | <50 | | | | | | | | | | | | | | | | | | | | | | | |
| D | <50 | | | | | | | | | | | | | | | | | | | | | | | |
| EC | NA | | | | | | | | | | | | | | | | | | | | | | | |
| pH | NA | | | | | | | | | | | | | | | | | | | | | | | |
| SAR | NA | | | | | | | | | | | | | | | | | | | | | | | |

Figure 1
SITE PLAN
NOBLE STATE DILLARD 16-21
 North Vault ~ 40.57988, -104.56381
 South Vault ~ 40.57985, -104.56381
 NENW Sec 16, T7N, R64W, Weld County, Colorado
 Facility ID - 306727

| | | | |
|--------------------------------|--------------------------|--------------------------|--|
| API No. 05-123-25164 | Prepared by | Drawn by TDA | |
| Date 1// | Reviewed by EB | Filename V345A | |

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 19, 2018

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - State Dillard 16-21

Enclosed are the results of analyses for samples received by Summit Scientific on 11/12/18 16:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury
Laboratory Manager



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
Project Manager: Paul Henehan

Reported:
11/19/18 09:52

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|----------------|----------------|
| North Wall 4ft | 1811130-01 | Soil | 11/09/18 00:00 | 11/12/18 16:01 |
| South Wall 4ft | 1811130-02 | Soil | 11/09/18 00:00 | 11/12/18 16:01 |
| East Wall 4ft | 1811130-03 | Soil | 11/09/18 00:00 | 11/12/18 16:01 |
| West Wall 4ft | 1811130-04 | Soil | 11/09/18 00:00 | 11/12/18 16:01 |
| Floor 5ft | 1811130-05 | Soil | 11/09/18 00:00 | 11/12/18 16:01 |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1811130

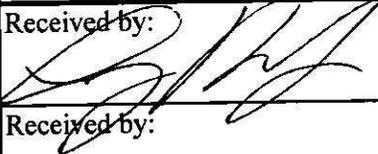
Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

| | |
|--------------------------------------|---|
| Client: Fremont Environmental | Project Manager: Paul Henehan |
| Address: P.O Box 1289 | E-Mail: paulh@fremontenv.com, kenr@fremontenv.com |
| City/State/Zip: Wellington, CO 80549 | Bill to: Howard |
| Phone: 303-956-8714 | Project Name: Noble - State Dillard 16-21 |
| Sampler Name: Black | Project Number: C018-184 |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|-------------|-----|-----|-----|----|----------------------|----|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEX | Naphthalene | GRO | DRO | SAR | EC | | pH |
| 1 | NORTH WALL 4FT | 11/9/18 | | 1 | | | X | | | X | | | | X | X | X | X | X | X | |
| 2 | SOUTH WALL 4FT | I | | I | | | I | | | I | | | | I | I | I | I | | | |
| 3 | EAST WALL 4FT | I | | I | | | I | | | I | | | | I | I | I | I | | | |
| 4 | WEST WALL 4FT | I | | I | | | I | | | I | | | | I | I | I | I | | | |
| 5 | FLOOR 5FT | I | | I | | | I | | | I | | | | I | I | I | I | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|------------------------------|--------------------------|--|--------------------------|---|
| Relinquished by: Ethan Black | Date/Time: 11/17/18 1601 | Received by:  | Date/Time: 11.12.18 1601 | Turn Around Time (Check) Standard 72 hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/> |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 48 hours <input type="checkbox"/> Sample Integrity: |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Temperature Upon Receipt: 1.8 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No |

Sample Receipt Checklist

S2 Work Order 1811130

Client: Fremont Client Project ID: Noble - State Dillard 16-21

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

| | |
|-----------|------------|
| Temp (°C) | <u>1.8</u> |
|-----------|------------|

Thermometer ID: 61857155-K

| | Yes | No | N/A | Comments (if any) |
|--|-------------------------------------|--------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun. | | | | |
| 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"/> | |
| If custody seals are present, are they intact ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> | |
| 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"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded ⁽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⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect | | | | |
| 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.

UP
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

11.12.18 1315
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
Project Manager: Paul Henehan

Reported:
11/19/18 09:52

**North Wall 4ft
1811130-01 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | 1811180 | 11/14/18 | 11/15/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 81.2 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 96.5 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.2 % | | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | 1811182 | 11/14/18 | 11/15/18 | EPA 8015M | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | | 99.1 % | | 30-150 | | " | " | " | " | |

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 488 | 10.9 | | mg/kg dry | 1 | 1811170 | 11/13/18 | 11/13/18 | EPA 6020B | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

**North Wall 4ft
 1811130-01 (Soil)**

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Magnesium | 193 | 5.45 | mg/kg dry | 1 | 1811170 | 11/13/18 | 11/13/18 | EPA 6020B | |
| Sodium | 19.6 | 5.45 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.190 | 0.100 | units | 1 | 1811236 | 11/19/18 | 11/19/18 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|----------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.7 | | % | 1 | 1811174 | 11/14/18 | 11/14/18 | Calculation | |
| pH | 8.21 | | pH Units | " | 1811176 | 11/14/18 | 11/14/18 | EPA 9045D | |

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.566 | 0.0100 | mmhos/cm | 1 | 1811175 | 11/14/18 | 11/15/18 | EPA 120.1 | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

**South Wall 4ft
 1811130-02 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1811180 | 11/14/18 | 11/15/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 84.5 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.8 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.7 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1811182 | 11/14/18 | 11/15/18 | EPA 8015M | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 99.7 % | 30-150 | | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

**East Wall 4ft
 1811130-03 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1811180 | 11/14/18 | 11/15/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 82.6 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 97.6 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 96.7 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1811182 | 11/14/18 | 11/15/18 | EPA 8015M | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 98.7 % | 30-150 | | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

**West Wall 4ft
 1811130-04 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1811180 | 11/14/18 | 11/15/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 84.5 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 99.0 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.5 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1811182 | 11/14/18 | 11/15/18 | EPA 8015M | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 99.2 % | 30-150 | | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

Floor 5ft
1811130-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | 1811180 | 11/14/18 | 11/15/18 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 84.2 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 97.0 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.3 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 1811182 | 11/14/18 | 11/15/18 | EPA 8015M | |

Date Sampled: **11/09/18 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 101 % | 30-150 | | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
Project Manager: Paul Henehan

Reported:
11/19/18 09:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1811180 - EPA 5030 Soil MS

Blank (1811180-BLK1)

Prepared: 11/14/18 Analyzed: 11/15/18

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | | |
| Naphthalene | ND | 0.010 | " | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 50 | " | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0326 | | " | 0.0396 | | 82.2 | 23-173 | | | | |
| Surrogate: Toluene-d8 | 0.0385 | | " | 0.0400 | | 96.3 | 20-170 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0388 | | " | 0.0400 | | 97.1 | 21-167 | | | | |

LCS (1811180-BS1)

Prepared: 11/14/18 Analyzed: 11/15/18

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | 0.0989 | 0.0020 | mg/kg | 0.100 | | 98.9 | 70-130 | | | | |
| Toluene | 0.102 | 0.0050 | " | 0.100 | | 102 | 70-130 | | | | |
| Ethylbenzene | 0.103 | 0.0050 | " | 0.100 | | 103 | 70-130 | | | | |
| m,p-Xylene | 0.207 | 0.010 | " | 0.200 | | 104 | 70-130 | | | | |
| o-Xylene | 0.102 | 0.0050 | " | 0.100 | | 102 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0328 | | " | 0.0396 | | 82.8 | 23-173 | | | | |
| Surrogate: Toluene-d8 | 0.0395 | | " | 0.0400 | | 98.7 | 20-170 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0389 | | " | 0.0400 | | 97.2 | 21-167 | | | | |

Matrix Spike (1811180-MS1)

Source: 181128-01

Prepared: 11/14/18 Analyzed: 11/15/18

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene | 0.101 | 0.0020 | mg/kg | 0.100 | ND | 101 | 70-130 | | | | |
| Toluene | 0.103 | 0.0050 | " | 0.100 | ND | 103 | 70-130 | | | | |
| Ethylbenzene | 0.104 | 0.0050 | " | 0.100 | ND | 104 | 70-130 | | | | |
| m,p-Xylene | 0.210 | 0.010 | " | 0.200 | ND | 105 | 70-130 | | | | |
| o-Xylene | 0.103 | 0.0050 | " | 0.100 | ND | 103 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0330 | | " | 0.0396 | | 83.3 | 23-173 | | | | |
| Surrogate: Toluene-d8 | 0.0400 | | " | 0.0400 | | 100 | 20-170 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0388 | | " | 0.0400 | | 97.0 | 21-167 | | | | |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1811180 - EPA 5030 Soil MS

| Matrix Spike Dup (1811180-MSD1) | Source: 1811128-01 | | | Prepared: 11/14/18 Analyzed: 11/15/18 | | | | | |
|--|---------------------------|--------|-------|---------------------------------------|----|------|--------|------|----|
| Benzene | 0.0878 | 0.0020 | mg/kg | 0.100 | ND | 87.8 | 70-130 | 13.9 | 30 |
| Toluene | 0.0905 | 0.0050 | " | 0.100 | ND | 90.5 | 70-130 | 13.0 | 30 |
| Ethylbenzene | 0.0922 | 0.0050 | " | 0.100 | ND | 92.2 | 70-130 | 12.5 | 30 |
| m,p-Xylene | 0.184 | 0.010 | " | 0.200 | ND | 92.0 | 70-130 | 13.4 | 30 |
| o-Xylene | 0.0911 | 0.0050 | " | 0.100 | ND | 91.1 | 70-130 | 12.2 | 30 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0322 | | " | 0.0396 | | 81.4 | 23-173 | | |
| Surrogate: Toluene-d8 | 0.0400 | | " | 0.0400 | | 99.9 | 20-170 | | |
| Surrogate: 4-Bromofluorobenzene | 0.0392 | | " | 0.0400 | | 97.9 | 21-167 | | |

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 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1811182 - EPA 3550A

Blank (1811182-BLK1)

Prepared & Analyzed: 11/14/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1811182-BS1)

Prepared & Analyzed: 11/14/18

C10-C28 (DRO) 476 50 mg/kg 500 95.2 70-130

Matrix Spike (1811182-MS1)

Source: 1811128-01

Prepared & Analyzed: 11/14/18

C10-C28 (DRO) 457 50 mg/kg 500 32.0 85.0 70-130

Matrix Spike Dup (1811182-MSD1)

Source: 1811128-01

Prepared & Analyzed: 11/14/18

C10-C28 (DRO) 444 50 mg/kg 500 32.0 82.3 70-130 2.97 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1811170 - General Preparation

Blank (1811170-BLK1)

Prepared & Analyzed: 11/13/18

| | | | | | | | | | |
|-----------|----|------|-----------|--|--|--|--|--|--|
| Calcium | ND | 10.0 | mg/kg wet | | | | | | |
| Magnesium | ND | 5.00 | " | | | | | | |
| Sodium | ND | 5.00 | " | | | | | | |

LCS (1811170-BS1)

Prepared & Analyzed: 11/13/18

| | | | | | | | | | |
|-----------|-----|------|-----------|-----|-----|--------|--|--|--|
| Calcium | 560 | 10.0 | mg/kg wet | 500 | 112 | 70-130 | | | |
| Magnesium | 554 | 5.00 | " | 500 | 111 | 70-130 | | | |
| Sodium | 543 | 5.00 | " | 500 | 109 | 70-130 | | | |

Duplicate (1811170-DUP1)

Source: 1811128-01

Prepared & Analyzed: 11/13/18

| | | | | | | | | | |
|-----------|------|------|-----------|------|--|--|------|----|--|
| Calcium | 2380 | 11.3 | mg/kg dry | 2440 | | | 2.51 | 20 | |
| Magnesium | 607 | 5.67 | " | 644 | | | 5.92 | 20 | |
| Sodium | 59.1 | 5.67 | " | 58.4 | | | 1.15 | 20 | |

Matrix Spike (1811170-MS1)

Source: 1811128-01

Prepared & Analyzed: 11/13/18

| | | | | | | | | | |
|-----------|------|------|-----------|-----|------|------|--------|--|--|
| Calcium | 3050 | 11.3 | mg/kg dry | 567 | 2440 | 107 | 70-130 | | |
| Magnesium | 1180 | 5.67 | " | 567 | 644 | 94.3 | 70-130 | | |
| Sodium | 642 | 5.67 | " | 567 | 58.4 | 103 | 70-130 | | |

Matrix Spike Dup (1811170-MSD1)

Source: 1811128-01

Prepared & Analyzed: 11/13/18

| | | | | | | | | | |
|-----------|------|------|-----------|-----|------|------|--------|------|----|
| Calcium | 2970 | 11.3 | mg/kg dry | 567 | 2440 | 94.4 | 70-130 | 2.45 | 25 |
| Magnesium | 1150 | 5.67 | " | 567 | 644 | 90.0 | 70-130 | 2.10 | 25 |
| Sodium | 629 | 5.67 | " | 567 | 58.4 | 101 | 70-130 | 2.00 | 25 |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1811174 - General Preparation

| | | | | | | | | | | |
|---------------------------------|------|---------------------------|---|--|-------------------------------|--|--|-------|----|--|
| Duplicate (1811174-DUP1) | | Source: 1811128-01 | | | Prepared & Analyzed: 11/14/18 | | | | | |
| % Solids | 88.2 | | % | | 88.3 | | | 0.113 | 20 | |

Batch 1811176 - General Preparation

| | | | | | | | | | | |
|---------------------------------|-----|-------------------------------|----------|------|-------------------------------|--------|------|----|--|--|
| LCS (1811176-BS1) | | Prepared & Analyzed: 11/14/18 | | | | | | | | |
| pH | 9.1 | | pH Units | 9.18 | 99.0 | 95-105 | | | | |
| Duplicate (1811176-DUP1) | | Source: 1809418-01 | | | Prepared & Analyzed: 11/14/18 | | | | | |
| pH | 7.5 | | pH Units | 7.6 | | | 1.07 | 20 | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
 Project Manager: Paul Henehan

Reported:
 11/19/18 09:52

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 1811175 - General Preparation

Blank (1811175-BLK1)

Prepared & Analyzed: 11/14/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1811175-BS1)

Prepared & Analyzed: 11/14/18

Specific Conductance (EC) 0.757 0.0100 mmhos/cm 0.750 101 90-110

Duplicate (1811175-DUP1)

Source: 1809418-01

Prepared & Analyzed: 11/14/18

Specific Conductance (EC) 4.88 0.0100 mmhos/cm 4.64 4.92 20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - State Dillard 16-21

Project Number: CO18-184
Project Manager: Paul Henehan

Reported:
11/19/18 09:52

Notes and Definitions

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