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March 25, 2020

Griner Drilling  
P.O. Box 825  
Columbia, MS 39429

Attn: Joe Loftin

**REPORT NO.: 2003234**

**PROJECT NO.: CAGW Myrtle Ave. Baton Rouge, LA**

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received March 16, 2020.

If you have any questions about the results, please call. Thank you for using Bonner Analytical Testing for your analytical needs.

Sincerely,

Approved by:

A handwritten signature in black ink that reads "M.S. Bonner".

Michael S. Bonner, Ph.D.

*I certify that the data contained in this report has been generated and reviewed in accordance with the BATCO 's QAP & SOPs developed under guidelines provided by NELAP, EPA, ASTM or other certified test methods. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. Bonner reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature.*

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

**Sample Name: 2170 Foot Depth**      **Lab ID: 2003234-01**      **Sample Date&Time: 03/13/20 12:45**

| Analyte | Results | MDL | MRL | Units | Batch | Analyst | Prepared | Analyzed | Qualifiers |
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|

**EPA 120.1**

Specific conductance      1110      1.00      1.00      umhos/cm      B0C1619      RP      03/13/2020      03/13/2020

**EPA 200.7**

|               |       |         |        |      |         |     |            |            |   |
|---------------|-------|---------|--------|------|---------|-----|------------|------------|---|
| Arsenic       | ND    | 0.00150 | 0.0100 | mg/L | B0C1802 | TJB | 03/17/2020 | 03/24/2020 | U |
| Calcium       | 4.71  | 0.0251  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Iron          | 15.3  | 0.00370 | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Magnesium     | 0.587 | 0.00900 | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Manganese     | 0.256 | 0.00025 | 0.0150 | mg/L | "       | TJB | "          | "          |   |
| Potassium     | 0.899 | 0.0165  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Silica (SiO2) | 9.87  | 0.100   | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Sodium        | 205   | 0.00700 | 0.250  | mg/L | "       | TJB | "          | "          |   |

**EPA 300.1**

|          |     |      |     |      |         |       |            |            |   |
|----------|-----|------|-----|------|---------|-------|------------|------------|---|
| Bromide  | ND  | 0.40 | 10  | mg/L | B0C1608 | JPE   | 03/17/2020 | 03/17/2020 |   |
| Chloride | 220 | 2.0  | 10  | mg/L | "       | jeste | "          | 03/17/2020 |   |
| Fluoride | ND  | 0.40 | 2.0 | mg/L | "       | jeste | "          | "          |   |
| Sulfate  | ND  | 1.0  | 10  | mg/L | "       | jeste | "          | "          | U |

**SM 2320 B**

|                            |      |       |      |      |         |     |            |            |  |
|----------------------------|------|-------|------|------|---------|-----|------------|------------|--|
| Phenolphthalein Alkalinity | 38.7 | 0.820 | 4.00 | mg/L | B0C1615 | RSR | 03/20/2020 | 03/23/2020 |  |
| Total Alkalinity           | 172  | 0.820 | 4.00 | mg/L | "       | RSR | "          | "          |  |

**SM 4500-H+ B**

|    |     |  |  |          |         |    |            |            |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|
| pH | 9.6 |  |  | pH Units | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

**Sample Name: 2185 Foot Depth      Lab ID: 2003234-02      Sample Date&Time: 03/13/20 13:50**

| Analyte | Results | MDL | MRL | Units | Batch | Analyst | Prepared | Analyzed | Qualifiers |
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|

**EPA 120.1**

|                      |      |      |      |          |         |    |            |            |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|
| Specific conductance | 1120 | 1.00 | 1.00 | umhos/cm | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|

**EPA 200.7**

|               |       |         |        |      |         |     |            |            |   |
|---------------|-------|---------|--------|------|---------|-----|------------|------------|---|
| Arsenic       | ND    | 0.00150 | 0.0100 | mg/L | B0C1802 | TJB | 03/17/2020 | 03/24/2020 | U |
| Calcium       | 6.47  | 0.0251  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Iron          | 26.1  | 0.00370 | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Magnesium     | 1.87  | 0.00900 | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Manganese     | 0.547 | 0.00025 | 0.0150 | mg/L | "       | TJB | "          | "          |   |
| Potassium     | 1.73  | 0.0165  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Silica (SiO2) | 35.4  | 0.100   | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Sodium        | 214   | 0.00700 | 0.250  | mg/L | "       | TJB | "          | "          |   |

**EPA 300.1**

|          |     |      |     |      |         |       |            |            |   |
|----------|-----|------|-----|------|---------|-------|------------|------------|---|
| Bromide  | ND  | 0.40 | 10  | mg/L | B0C1608 | JPE   | 03/17/2020 | 03/17/2020 |   |
| Chloride | 230 | 2.0  | 10  | mg/L | "       | jeste | "          | 03/17/2020 |   |
| Fluoride | ND  | 0.40 | 2.0 | mg/L | "       | jeste | "          | "          |   |
| Sulfate  | ND  | 1.0  | 10  | mg/L | "       | jeste | "          | "          | U |

**SM 2320 B**

|                            |      |       |      |      |         |     |            |            |  |
|----------------------------|------|-------|------|------|---------|-----|------------|------------|--|
| Phenolphthalein Alkalinity | 28.1 | 0.820 | 4.00 | mg/L | B0C1615 | RSR | 03/20/2020 | 03/23/2020 |  |
| Total Alkalinity           | 169  | 0.820 | 4.00 | mg/L | "       | RSR | "          | "          |  |

**SM 4500-H+ B**

|    |     |  |  |          |         |    |            |            |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|
| pH | 9.5 |  |  | pH Units | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

**Sample Name: 2200 Foot Depth**      **Lab ID: 2003234-03**      **Sample Date&Time: 03/13/20 14:52**

| Analyte | Results | MDL | MRL | Units | Batch | Analyst | Prepared | Analyzed | Qualifiers |
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|

### EPA 120.1

|                      |      |      |      |          |         |    |            |            |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|
| Specific conductance | 1130 | 1.00 | 1.00 | umhos/cm | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|

### EPA 200.7

|               |       |         |        |      |         |     |            |            |   |
|---------------|-------|---------|--------|------|---------|-----|------------|------------|---|
| Arsenic       | ND    | 0.00150 | 0.0100 | mg/L | B0C1802 | TJB | 03/17/2020 | 03/24/2020 | U |
| Calcium       | 5.40  | 0.0251  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Iron          | 17.9  | 0.00370 | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Magnesium     | 1.16  | 0.00900 | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Manganese     | 0.337 | 0.00025 | 0.0150 | mg/L | "       | TJB | "          | "          |   |
| Potassium     | 1.32  | 0.0165  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Silica (SiO2) | 20.6  | 0.100   | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Sodium        | 217   | 0.00700 | 0.250  | mg/L | "       | TJB | "          | "          |   |

### EPA 300.1

|          |     |      |     |      |         |       |            |            |   |
|----------|-----|------|-----|------|---------|-------|------------|------------|---|
| Bromide  | ND  | 0.40 | 10  | mg/L | B0C1608 | JPE   | 03/17/2020 | 03/17/2020 |   |
| Chloride | 230 | 2.0  | 10  | mg/L | "       | jeste | "          | 03/17/2020 |   |
| Fluoride | ND  | 0.40 | 2.0 | mg/L | "       | jeste | "          | "          |   |
| Sulfate  | ND  | 1.0  | 10  | mg/L | "       | jeste | "          | "          | U |

### SM 2320 B

|                            |      |       |      |      |         |     |            |            |  |
|----------------------------|------|-------|------|------|---------|-----|------------|------------|--|
| Phenolphthalein Alkalinity | 35.1 | 0.820 | 4.00 | mg/L | B0C1615 | RSR | 03/20/2020 | 03/23/2020 |  |
| Total Alkalinity           | 179  | 0.820 | 4.00 | mg/L | "       | RSR | "          | "          |  |

### SM 4500-H+ B

|    |     |  |  |          |         |    |            |            |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|
| pH | 9.5 |  |  | pH Units | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|

## Certificate Of Analysis

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|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

**Sample Name: 2220 Foot Depth**      **Lab ID: 2003234-04**      **Sample Date&Time: 03/13/20 15:52**

| Analyte | Results | MDL | MRL | Units | Batch | Analyst | Prepared | Analyzed | Qualifiers |
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|

**EPA 120.1**

|                      |      |      |      |          |         |    |            |            |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|
| Specific conductance | 1120 | 1.00 | 1.00 | umhos/cm | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|

**EPA 200.7**

|               |       |         |        |      |         |     |            |            |   |
|---------------|-------|---------|--------|------|---------|-----|------------|------------|---|
| Arsenic       | ND    | 0.00150 | 0.0100 | mg/L | B0C1802 | TJB | 03/17/2020 | 03/24/2020 | U |
| Calcium       | 5.66  | 0.0251  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Iron          | 23.1  | 0.00370 | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Magnesium     | 1.36  | 0.00900 | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Manganese     | 0.408 | 0.00025 | 0.0150 | mg/L | "       | TJB | "          | "          |   |
| Potassium     | 1.50  | 0.0165  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Silica (SiO2) | 26.1  | 0.100   | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Sodium        | 214   | 0.00700 | 0.250  | mg/L | "       | TJB | "          | "          |   |

**EPA 300.1**

|          |     |      |     |      |         |       |            |            |   |
|----------|-----|------|-----|------|---------|-------|------------|------------|---|
| Bromide  | ND  | 0.40 | 10  | mg/L | B0C1608 | JPE   | 03/17/2020 | 03/17/2020 |   |
| Chloride | 230 | 2.0  | 10  | mg/L | "       | jeste | "          | 03/17/2020 |   |
| Fluoride | ND  | 0.40 | 2.0 | mg/L | "       | jeste | "          | "          |   |
| Sulfate  | ND  | 1.0  | 10  | mg/L | "       | jeste | "          | "          | U |

**SM 2320 B**

|                            |      |       |      |      |         |     |            |            |  |
|----------------------------|------|-------|------|------|---------|-----|------------|------------|--|
| Phenolphthalein Alkalinity | 52.7 | 0.820 | 4.00 | mg/L | B0C1615 | RSR | 03/20/2020 | 03/23/2020 |  |
| Total Alkalinity           | 200  | 0.820 | 4.00 | mg/L | "       | RSR | "          | "          |  |

**SM 4500-H+ B**

|    |     |  |  |          |         |    |            |            |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|
| pH | 9.5 |  |  | pH Units | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

**Sample Name: 2239 Foot Depth      Lab ID: 2003234-05      Sample Date&Time: 03/13/20 16:55**

| Analyte | Results | MDL | MRL | Units | Batch | Analyst | Prepared | Analyzed | Qualifiers |
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|
|---------|---------|-----|-----|-------|-------|---------|----------|----------|------------|

**EPA 120.1**

|                      |      |      |      |          |         |    |            |            |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|
| Specific conductance | 1140 | 1.00 | 1.00 | umhos/cm | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----------------------|------|------|------|----------|---------|----|------------|------------|--|

**EPA 200.7**

|               |       |         |        |      |         |     |            |            |   |
|---------------|-------|---------|--------|------|---------|-----|------------|------------|---|
| Arsenic       | ND    | 0.00150 | 0.0100 | mg/L | B0C1802 | TJB | 03/17/2020 | 03/24/2020 | U |
| Calcium       | 5.82  | 0.0251  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Iron          | 25.5  | 0.00370 | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Magnesium     | 1.46  | 0.00900 | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Manganese     | 0.459 | 0.00025 | 0.0150 | mg/L | "       | TJB | "          | "          |   |
| Potassium     | 1.48  | 0.0165  | 0.250  | mg/L | "       | TJB | "          | "          |   |
| Silica (SiO2) | 28.4  | 0.100   | 0.100  | mg/L | "       | TJB | "          | "          |   |
| Sodium        | 211   | 0.00700 | 0.250  | mg/L | "       | TJB | "          | "          |   |

**EPA 300.1**

|          |     |      |     |      |         |       |            |            |   |
|----------|-----|------|-----|------|---------|-------|------------|------------|---|
| Bromide  | ND  | 0.40 | 10  | mg/L | B0C1608 | JPE   | 03/17/2020 | 03/17/2020 |   |
| Chloride | 230 | 2.0  | 10  | mg/L | "       | jeste | "          | 03/17/2020 |   |
| Fluoride | ND  | 0.40 | 2.0 | mg/L | "       | jeste | "          | "          |   |
| Sulfate  | ND  | 1.0  | 10  | mg/L | "       | jeste | "          | "          | U |

**SM 2320 B**

|                            |      |       |      |      |         |     |            |            |   |
|----------------------------|------|-------|------|------|---------|-----|------------|------------|---|
| Phenolphthalein Alkalinity | 1.75 | 0.820 | 4.00 | mg/L | B0C2516 | RSR | 03/25/2020 | 03/25/2020 | J |
| Total Alkalinity           | 126  | 0.820 | 4.00 | mg/L | "       | RSR | "          | 03/25/2020 |   |

**SM 4500-H+ B**

|    |     |  |  |          |         |    |            |            |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|
| pH | 9.4 |  |  | pH Units | B0C1619 | RP | 03/13/2020 | 03/13/2020 |  |
|----|-----|--|--|----------|---------|----|------------|------------|--|



### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

#### CASE NARRATIVE SUMMARY

All reported results are within Bonner Analytical Testing Co. defined laboratory QAQC objectives unless listed below or otherwise qualified in this report.

#### Qualifications:

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#### Analyte & Samples(s) Qualified:

#### Notes:

- MRL = Method Reporting Limit
- MDL = Method Detection Limit
- ND = Not Detected, below detection limit
- U = Below the minimum detection limit
- J = Detected, below reportable limit
- D = Dilution performed

- ug/l = Microgram per Liter = parts per billion (ppb)
- ug/kg = Microgram per kilogram = parts per billion (ppb)
- mg/l = Milligram per liter parts per million (ppm)
- mg/kg = Milligram per kilogram parts per million (ppm)
- CFU = Colony forming units

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Classical Chemistry Parameters - Quality Control

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

#### Batch B0C1615 - \*\*\* DEFAULT PREP \*\*\*

##### Blank (B0C1615-BLK1)

Prepared: 03/16/2020 Analyzed: 03/23/2020

|                            |    |      |      |  |  |  |  |  |  |  |
|----------------------------|----|------|------|--|--|--|--|--|--|--|
| Total Alkalinity           | ND | 4.00 | mg/L |  |  |  |  |  |  |  |
| Phenolphthalein Alkalinity | ND | 4.00 | "    |  |  |  |  |  |  |  |

##### LCS (B0C1615-BS1)

Prepared: 03/16/2020 Analyzed: 03/23/2020

|                            |      |      |      |  |  |  |        |  |  |  |
|----------------------------|------|------|------|--|--|--|--------|--|--|--|
| Total Alkalinity           | 90.6 | 4.00 | mg/L |  |  |  | 90-110 |  |  |  |
| Phenolphthalein Alkalinity | ND   | 4.00 | "    |  |  |  | 90-110 |  |  |  |

##### Duplicate (B0C1615-DUP1)

Source: 2003133-34

Prepared: 03/16/2020 Analyzed: 03/23/2020

|                  |      |      |      |  |      |  |  |      |    |   |
|------------------|------|------|------|--|------|--|--|------|----|---|
| Total Alkalinity | 3.16 | 4.00 | mg/L |  | 3.16 |  |  | 0.00 | 20 | J |
|------------------|------|------|------|--|------|--|--|------|----|---|



## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

Blank (B0C1802-BLK1)

Prepared: 03/17/2020 Analyzed: 03/18/2020

|               |           |         |      |  |  |  |  |  |  |   |
|---------------|-----------|---------|------|--|--|--|--|--|--|---|
| Aluminum      | ND        | 0.100   | mg/L |  |  |  |  |  |  | U |
| Antimony      | ND        | 0.0200  | "    |  |  |  |  |  |  | U |
| Arsenic       | ND        | 0.0100  | "    |  |  |  |  |  |  | U |
| Barium        | ND        | 0.0800  | "    |  |  |  |  |  |  | U |
| Beryllium     | 0.0000320 | 0.00200 | "    |  |  |  |  |  |  | J |
| Boron         | ND        | 0.0100  | "    |  |  |  |  |  |  | U |
| Cadmium       | ND        | 0.00500 | "    |  |  |  |  |  |  | U |
| Calcium       | ND        | 0.250   | "    |  |  |  |  |  |  | U |
| Cobalt        | 0.000297  | 0.0125  | "    |  |  |  |  |  |  | J |
| Copper        | 0.00139   | 0.0250  | "    |  |  |  |  |  |  | J |
| Chromium      | ND        | 0.0100  | "    |  |  |  |  |  |  | U |
| Iron          | ND        | 0.100   | "    |  |  |  |  |  |  | U |
| Lead          | ND        | 0.0100  | "    |  |  |  |  |  |  | U |
| Magnesium     | ND        | 0.250   | "    |  |  |  |  |  |  | U |
| Manganese     | ND        | 0.0150  | "    |  |  |  |  |  |  | U |
| Molybdenum    | ND        | 0.00500 | "    |  |  |  |  |  |  | U |
| Nickel        | 0.000416  | 0.0200  | "    |  |  |  |  |  |  | J |
| Phosphorus    | ND        | 0.200   | "    |  |  |  |  |  |  | U |
| Potassium     | ND        | 0.250   | "    |  |  |  |  |  |  | U |
| Selenium      | ND        | 0.0175  | "    |  |  |  |  |  |  | U |
| Silica (SiO2) | 0.179     | 0.100   | "    |  |  |  |  |  |  | J |
| Silver        | 0.00114   | 0.0100  | "    |  |  |  |  |  |  | J |
| Sodium        | 0.0110    | 0.250   | "    |  |  |  |  |  |  | J |
| Strontium     | ND        | 0.00500 | "    |  |  |  |  |  |  | U |
| Sulfur        | ND        | 0.200   | "    |  |  |  |  |  |  | U |
| Thallium      | ND        | 0.0200  | "    |  |  |  |  |  |  | U |
| Tin           | ND        | 0.0100  | "    |  |  |  |  |  |  | U |
| Titanium      | ND        | 0.0100  | "    |  |  |  |  |  |  | U |
| Vanadium      | ND        | 0.0200  | "    |  |  |  |  |  |  | U |
| Zinc          | ND        | 0.0400  | "    |  |  |  |  |  |  | U |
| Hardness      | ND        | 1.65    | "    |  |  |  |  |  |  | U |

### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

Blank (B0C1802-BLK2)

Prepared: 03/17/2020 Analyzed: 03/24/2020

|               |          |         |      |  |  |  |  |  |  |   |
|---------------|----------|---------|------|--|--|--|--|--|--|---|
| Aluminum      | ND       | 0.100   | mg/L |  |  |  |  |  |  | U |
| Antimony      | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Arsenic       | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Barium        | ND       | 0.0800  | "    |  |  |  |  |  |  | U |
| Beryllium     | ND       | 0.00200 | "    |  |  |  |  |  |  | U |
| Boron         | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Cadmium       | ND       | 0.00500 | "    |  |  |  |  |  |  | U |
| Calcium       | ND       | 0.250   | "    |  |  |  |  |  |  | U |
| Cobalt        | ND       | 0.0125  | "    |  |  |  |  |  |  | U |
| Copper        | 0.00118  | 0.0250  | "    |  |  |  |  |  |  | J |
| Chromium      | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Iron          | ND       | 0.100   | "    |  |  |  |  |  |  | U |
| Lead          | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Magnesium     | ND       | 0.250   | "    |  |  |  |  |  |  | U |
| Manganese     | ND       | 0.0150  | "    |  |  |  |  |  |  | U |
| Molybdenum    | ND       | 0.00500 | "    |  |  |  |  |  |  | U |
| Nickel        | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Phosphorus    | ND       | 0.200   | "    |  |  |  |  |  |  | U |
| Potassium     | ND       | 0.250   | "    |  |  |  |  |  |  | U |
| Selenium      | ND       | 0.0175  | "    |  |  |  |  |  |  | U |
| Silica (SiO2) | 1000     | 0.100   | "    |  |  |  |  |  |  | U |
| Silver        | 0.000588 | 0.0100  | "    |  |  |  |  |  |  | J |
| Sodium        | ND       | 0.250   | "    |  |  |  |  |  |  | U |
| Strontium     | 1000     | 0.00500 | "    |  |  |  |  |  |  | U |
| Sulfur        | ND       | 0.200   | "    |  |  |  |  |  |  | U |
| Thallium      | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Tin           | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Titanium      | 1000     | 0.0100  | "    |  |  |  |  |  |  | U |
| Vanadium      | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Zinc          | ND       | 0.0400  | "    |  |  |  |  |  |  | U |
| Hardness      | ND       | 1.65    | "    |  |  |  |  |  |  | U |

### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

#### LCS (B0C1802-BS1)

Prepared: 03/17/2020 Analyzed: 03/18/2020

|               |        |         |      |          |  |      |        |  |  |  |
|---------------|--------|---------|------|----------|--|------|--------|--|--|--|
| Aluminum      | 6.72   | 0.100   | mg/L | 7.0000   |  | 96.0 | 85-115 |  |  |  |
| Antimony      | 0.0996 | 0.0200  | "    | 0.10000  |  | 99.6 | 85-115 |  |  |  |
| Arsenic       | 0.0354 | 0.0100  | "    | 0.040000 |  | 88.6 | 85-115 |  |  |  |
| Barium        | 1.94   | 0.0800  | "    | 2.0000   |  | 96.8 | 85-115 |  |  |  |
| Beryllium     | 0.0469 | 0.00200 | "    | 0.050000 |  | 93.7 | 85-115 |  |  |  |
| Boron         | 0.104  | 0.0100  | "    | 0.10000  |  | 104  | 85-115 |  |  |  |
| Cadmium       | 0.0541 | 0.00500 | "    | 0.050000 |  | 108  | 85-115 |  |  |  |
| Calcium       | 5.02   | 0.250   | "    | 5.0000   |  | 100  | 85-115 |  |  |  |
| Cobalt        | 0.521  | 0.0125  | "    | 0.50000  |  | 104  | 85-115 |  |  |  |
| Copper        | 0.240  | 0.0250  | "    | 0.25000  |  | 95.8 | 85-115 |  |  |  |
| Chromium      | 0.212  | 0.0100  | "    | 0.20000  |  | 106  | 85-115 |  |  |  |
| Iron          | 6.18   | 0.100   | "    | 6.0000   |  | 103  | 85-115 |  |  |  |
| Lead          | 0.0189 | 0.0100  | "    | 0.020000 |  | 94.4 | 85-115 |  |  |  |
| Magnesium     | 4.91   | 0.250   | "    | 5.0000   |  | 98.2 | 85-115 |  |  |  |
| Manganese     | 0.528  | 0.0150  | "    | 0.50000  |  | 106  | 85-115 |  |  |  |
| Molybdenum    | 0.207  | 0.00500 | "    | 0.20000  |  | 104  | 85-115 |  |  |  |
| Nickel        | 0.469  | 0.0200  | "    | 0.50000  |  | 93.7 | 85-115 |  |  |  |
| Phosphorus    | 0.985  | 0.200   | "    | 1.0000   |  | 98.5 | 85-115 |  |  |  |
| Potassium     | 4.87   | 0.250   | "    | 5.0000   |  | 97.4 | 85-115 |  |  |  |
| Selenium      | 0.0843 | 0.0175  | "    | 0.10000  |  | 84.3 | 85-115 |  |  |  |
| Silica (SiO2) | 0.950  | 0.100   | "    | 1.0000   |  | 95.0 | 85-115 |  |  |  |
| Silver        | 0.0491 | 0.0100  | "    | 0.050000 |  | 98.1 | 85-115 |  |  |  |
| Sodium        | 4.44   | 0.250   | "    | 5.0000   |  | 88.8 | 85-115 |  |  |  |
| Strontium     | 0.0517 | 0.00500 | "    | 0.050000 |  | 103  | 85-115 |  |  |  |
| Sulfur        | 0.943  | 0.200   | "    | 1.0000   |  | 94.3 | 85-115 |  |  |  |
| Thallium      | 0.0506 | 0.0200  | "    | 0.050000 |  | 101  | 85-115 |  |  |  |
| Tin           | 0.106  | 0.0100  | "    | 0.10000  |  | 106  | 85-115 |  |  |  |
| Titanium      | 0.211  | 0.0100  | "    | 0.20000  |  | 105  | 85-115 |  |  |  |
| Vanadium      | 0.518  | 0.0200  | "    | 0.50000  |  | 104  | 85-115 |  |  |  |
| Zinc          | 0.470  | 0.0400  | "    | 0.50000  |  | 93.9 | 85-115 |  |  |  |

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

LCS (B0C1802-BS2)

Prepared: 03/17/2020 Analyzed: 03/24/2020

|               |        |         |      |          |  |      |        |  |  |  |
|---------------|--------|---------|------|----------|--|------|--------|--|--|--|
| Aluminum      | 7.10   | 0.100   | mg/L | 7.0000   |  | 101  | 85-115 |  |  |  |
| Antimony      | 0.0977 | 0.0200  | "    | 0.10000  |  | 97.7 | 85-115 |  |  |  |
| Arsenic       | 0.0379 | 0.0100  | "    | 0.040000 |  | 94.8 | 85-115 |  |  |  |
| Barium        | 1.98   | 0.0800  | "    | 2.0000   |  | 98.8 | 85-115 |  |  |  |
| Beryllium     | 0.0476 | 0.00200 | "    | 0.050000 |  | 95.1 | 85-115 |  |  |  |
| Boron         | 0.0967 | 0.0100  | "    | 0.10000  |  | 96.7 | 85-115 |  |  |  |
| Cadmium       | 0.0490 | 0.00500 | "    | 0.050000 |  | 97.9 | 85-115 |  |  |  |
| Calcium       | 4.91   | 0.250   | "    | 5.0000   |  | 98.1 | 85-115 |  |  |  |
| Cobalt        | 0.486  | 0.0125  | "    | 0.50000  |  | 97.2 | 85-115 |  |  |  |
| Copper        | 0.245  | 0.0250  | "    | 0.25000  |  | 98.0 | 85-115 |  |  |  |
| Chromium      | 0.197  | 0.0100  | "    | 0.20000  |  | 98.3 | 85-115 |  |  |  |
| Iron          | 5.81   | 0.100   | "    | 6.0000   |  | 96.9 | 85-115 |  |  |  |
| Lead          | 0.0185 | 0.0100  | "    | 0.020000 |  | 92.6 | 85-115 |  |  |  |
| Magnesium     | 4.83   | 0.250   | "    | 5.0000   |  | 96.6 | 85-115 |  |  |  |
| Manganese     | 0.501  | 0.0150  | "    | 0.50000  |  | 100  | 85-115 |  |  |  |
| Molybdenum    | 0.202  | 0.00500 | "    | 0.20000  |  | 101  | 85-115 |  |  |  |
| Nickel        | 0.503  | 0.0200  | "    | 0.50000  |  | 101  | 85-115 |  |  |  |
| Phosphorus    | 0.951  | 0.200   | "    | 1.0000   |  | 95.1 | 85-115 |  |  |  |
| Potassium     | 4.98   | 0.250   | "    | 5.0000   |  | 99.6 | 85-115 |  |  |  |
| Selenium      | 0.100  | 0.0175  | "    | 0.10000  |  | 100  | 85-115 |  |  |  |
| Silica (SiO2) | 0.993  | 0.100   | "    | 1.0000   |  | 99.3 | 85-115 |  |  |  |
| Silver        | 0.0497 | 0.0100  | "    | 0.050000 |  | 99.3 | 85-115 |  |  |  |
| Sodium        | 4.91   | 0.250   | "    | 5.0000   |  | 98.3 | 85-115 |  |  |  |
| Strontium     | 0.0495 | 0.00500 | "    | 0.050000 |  | 99.0 | 85-115 |  |  |  |
| Sulfur        | 1.04   | 0.200   | "    | 1.0000   |  | 104  | 85-115 |  |  |  |
| Thallium      | 0.0454 | 0.0200  | "    | 0.050000 |  | 90.7 | 85-115 |  |  |  |
| Tin           | 0.0968 | 0.0100  | "    | 0.10000  |  | 96.8 | 85-115 |  |  |  |
| Titanium      | 0.190  | 0.0100  | "    | 0.20000  |  | 95.0 | 85-115 |  |  |  |
| Vanadium      | 0.499  | 0.0200  | "    | 0.50000  |  | 99.9 | 85-115 |  |  |  |
| Zinc          | 0.472  | 0.0400  | "    | 0.50000  |  | 94.4 | 85-115 |  |  |  |

## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

Duplicate (B0C1802-DUP1)

Source: 2003195-01

Prepared: 03/17/2020 Analyzed: 03/18/2020

| Analyte       | Result    | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD   | RPD Limit | Qualifiers |
|---------------|-----------|-----------------|-------|-------------|---------------|------|-------------|-------|-----------|------------|
| Aluminum      | 0.524     | 0.100           | mg/L  |             | 0.526         |      |             | 0.312 | 20        |            |
| Antimony      | ND        | 0.0200          | "     |             | ND            |      |             |       | 20        | U          |
| Arsenic       | 0.00152   | 0.0100          | "     |             | ND            |      |             |       | 20        | J          |
| Barium        | 0.0786    | 0.0800          | "     |             | 0.0856        |      |             | 8.55  | 20        | J          |
| Beryllium     | ND        | 0.00200         | "     |             | ND            |      |             |       | 20        | U          |
| Boron         | 0.0669    | 0.0100          | "     |             | 0.0709        |      |             | 5.88  | 20        |            |
| Cadmium       | 0.0000896 | 0.00500         | "     |             | 0.000120      |      |             | 28.6  | 20        | J          |
| Calcium       | 6.57      | 0.250           | "     |             | 7.12          |      |             | 7.98  | 20        |            |
| Cobalt        | 0.000841  | 0.0125          | "     |             | 0.000910      |      |             | 7.93  | 20        | J          |
| Copper        | 0.00313   | 0.0250          | "     |             | 0.00273       |      |             | 13.4  | 20        | J          |
| Chromium      | 0.000478  | 0.0100          | "     |             | 0.000474      |      |             | 0.881 | 20        | J          |
| Iron          | 1.10      | 0.100           | "     |             | 1.16          |      |             | 5.73  | 20        |            |
| Lead          | 0.00257   | 0.0100          | "     |             | 0.00171       |      |             | 40.4  | 20        | J          |
| Magnesium     | 1.40      | 0.250           | "     |             | 1.49          |      |             | 6.60  | 20        |            |
| Manganese     | 0.147     | 0.0150          | "     |             | 0.157         |      |             | 6.70  | 20        |            |
| Molybdenum    | ND        | 0.00500         | "     |             | ND            |      |             |       | 20        | U          |
| Nickel        | 0.000604  | 0.0200          | "     |             | 0.000544      |      |             | 10.3  | 20        | J          |
| Phosphorus    | ND        | 0.200           | "     |             | ND            |      |             |       | 20        | U          |
| Potassium     | 0.910     | 0.250           | "     |             | 0.988         |      |             | 8.24  | 20        |            |
| Selenium      | ND        | 0.0175          | "     |             | ND            |      |             |       | 20        | U          |
| Silica (SiO2) | 8.72      | 0.100           | "     |             | 9.26          |      |             | 5.95  | 20        |            |
| Silver        | 0.00131   | 0.0100          | "     |             | 0.00138       |      |             | 5.72  | 20        | J          |
| Sodium        | 26.6      | 0.250           | "     |             | 28.2          |      |             | 5.61  | 20        |            |
| Strontium     | 0.225     | 0.00500         | "     |             | 0.243         |      |             | 7.68  | 20        |            |
| Sulfur        | 5.94      | 0.200           | "     |             | 6.12          |      |             | 2.83  | 20        |            |
| Thallium      | ND        | 0.0200          | "     |             | ND            |      |             |       | 20        | U          |
| Tin           | ND        | 0.0100          | "     |             | ND            |      |             |       | 20        | U          |
| Titanium      | ND        | 0.0100          | "     |             | ND            |      |             |       | 20        | U          |
| Vanadium      | ND        | 0.0200          | "     |             | 0.000642      |      |             |       | 20        | U          |
| Zinc          | ND        | 0.0400          | "     |             | ND            |      |             |       | 20        | U          |
| Hardness      | 22.2      | 1.65            | "     |             | 23.9          |      |             | 7.62  | 20        |            |

### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

#### Leach Fluid Blank (B0C1802-LBK1)

Prepared: 03/17/2020 Analyzed: 03/18/2020

|               |          |         |      |  |  |  |  |  |  |   |
|---------------|----------|---------|------|--|--|--|--|--|--|---|
| Aluminum      | ND       | 0.100   | mg/L |  |  |  |  |  |  | U |
| Antimony      | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Arsenic       | 0.00477  | 0.0100  | "    |  |  |  |  |  |  | J |
| Barium        | ND       | 0.0800  | "    |  |  |  |  |  |  | U |
| Beryllium     | ND       | 0.00200 | "    |  |  |  |  |  |  | U |
| Boron         | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Cadmium       | ND       | 0.00500 | "    |  |  |  |  |  |  | U |
| Calcium       | ND       | 0.250   | "    |  |  |  |  |  |  | U |
| Cobalt        | ND       | 0.0125  | "    |  |  |  |  |  |  | U |
| Copper        | 0.0101   | 0.0250  | "    |  |  |  |  |  |  | J |
| Chromium      | 0.00164  | 0.0100  | "    |  |  |  |  |  |  | J |
| Iron          | 0.00804  | 0.100   | "    |  |  |  |  |  |  | J |
| Lead          | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Magnesium     | ND       | 0.250   | "    |  |  |  |  |  |  | U |
| Manganese     | 0.000271 | 0.0150  | "    |  |  |  |  |  |  | J |
| Molybdenum    | ND       | 0.00500 | "    |  |  |  |  |  |  | U |
| Nickel        | 0.00716  | 0.0200  | "    |  |  |  |  |  |  | J |
| Phosphorus    | ND       | 0.200   | "    |  |  |  |  |  |  | U |
| Potassium     | 0.641    | 0.250   | "    |  |  |  |  |  |  |   |
| Selenium      | ND       | 0.0175  | "    |  |  |  |  |  |  | U |
| Silica (SiO2) | 0.193    | 0.100   | "    |  |  |  |  |  |  |   |
| Silver        | 0.00143  | 0.0100  | "    |  |  |  |  |  |  | J |
| Sodium        | 1310     | 0.250   | "    |  |  |  |  |  |  |   |
| Strontium     | ND       | 0.00500 | "    |  |  |  |  |  |  | U |
| Sulfur        | ND       | 0.200   | "    |  |  |  |  |  |  | U |
| Thallium      | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Tin           | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Titanium      | ND       | 0.0100  | "    |  |  |  |  |  |  | U |
| Vanadium      | ND       | 0.0200  | "    |  |  |  |  |  |  | U |
| Zinc          | 0.00557  | 0.0400  | "    |  |  |  |  |  |  | J |
| Hardness      | ND       | 1.65    | "    |  |  |  |  |  |  | U |

### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

#### Batch B0C1802 - 200.7

#### Matrix Spike (B0C1802-MS1)

Source: 2003195-01

Prepared: 03/17/2020 Analyzed: 03/18/2020

| Analyte       | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qualifiers |
|---------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------------|
| Aluminum      | 8.39   | 0.100           | mg/L  | 7.0000      | 0.526         | 112  | 75-125      |     |           |            |
| Antimony      | 0.105  | 0.0200          | "     | 0.10000     | ND            | 106  | 75-125      |     |           |            |
| Arsenic       | 0.0366 | 0.0100          | "     | 0.040000    | ND            | 88.8 | 75-125      |     |           |            |
| Barium        | 2.10   | 0.0800          | "     | 2.0000      | 0.0856        | 101  | 75-125      |     |           |            |
| Beryllium     | 0.0483 | 0.00200         | "     | 0.050000    | ND            | 96.9 | 75-125      |     |           |            |
| Boron         | 0.176  | 0.0100          | "     | 0.10000     | 0.0709        | 105  | 75-125      |     |           |            |
| Cadmium       | 0.0555 | 0.00500         | "     | 0.050000    | 0.000120      | 111  | 75-125      |     |           |            |
| Calcium       | 11.9   | 0.250           | "     | 5.0000      | 7.12          | 95.3 | 75-125      |     |           |            |
| Cobalt        | 0.543  | 0.0125          | "     | 0.50000     | 0.000910      | 108  | 75-125      |     |           |            |
| Copper        | 0.261  | 0.0250          | "     | 0.25000     | 0.00273       | 103  | 75-125      |     |           |            |
| Chromium      | 0.220  | 0.0100          | "     | 0.20000     | 0.000474      | 110  | 75-125      |     |           |            |
| Iron          | 7.67   | 0.100           | "     | 6.0000      | 1.16          | 108  | 75-125      |     |           |            |
| Lead          | 0.0209 | 0.0100          | "     | 0.020000    | 0.00171       | 96.1 | 75-125      |     |           |            |
| Magnesium     | 6.48   | 0.250           | "     | 5.0000      | 1.49          | 99.7 | 75-125      |     |           |            |
| Manganese     | 0.687  | 0.0150          | "     | 0.50000     | 0.157         | 106  | 75-125      |     |           |            |
| Molybdenum    | 0.216  | 0.00500         | "     | 0.20000     | ND            | 108  | 75-125      |     |           |            |
| Nickel        | 0.492  | 0.0200          | "     | 0.50000     | 0.000544      | 98.3 | 75-125      |     |           |            |
| Phosphorus    | 1.12   | 0.200           | "     | 1.0000      | ND            | 106  | 75-125      |     |           |            |
| Potassium     | 6.08   | 0.250           | "     | 5.0000      | 0.988         | 102  | 75-125      |     |           |            |
| Selenium      | 0.0911 | 0.0175          | "     | 0.10000     | ND            | 90.6 | 75-125      |     |           |            |
| Silica (SiO2) | 12.4   | 0.100           | "     | 1.0000      | 9.26          | 312  | 75-125      |     |           |            |
| Silver        | 0.0516 | 0.0100          | "     | 0.050000    | 0.00138       | 101  | 75-125      |     |           |            |
| Sodium        | 32.0   | 0.250           | "     | 5.0000      | 28.2          | 76.2 | 75-125      |     |           |            |
| Strontium     | 0.287  | 0.00500         | "     | 0.050000    | 0.243         | 87.2 | 75-125      |     |           |            |
| Sulfur        | 7.10   | 0.200           | "     | 1.0000      | 6.12          | 98.9 | 75-125      |     |           |            |
| Thallium      | 0.0513 | 0.0200          | "     | 0.050000    | ND            | 103  | 75-125      |     |           |            |
| Tin           | 0.107  | 0.0100          | "     | 0.10000     | ND            | 107  | 75-125      |     |           |            |
| Titanium      | 0.226  | 0.0100          | "     | 0.20000     | ND            | 110  | 75-125      |     |           |            |
| Vanadium      | 0.542  | 0.0200          | "     | 0.50000     | 0.000642      | 108  | 75-125      |     |           |            |
| Zinc          | 0.490  | 0.0400          | "     | 0.50000     | ND            | 97.6 | 75-125      |     |           |            |

### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Metals - Quality Control

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

### Batch B0C1802 - 200.7

#### Matrix Spike Dup (B0C1802-MSD1)

Source: 2003195-01

Prepared: 03/17/2020 Analyzed: 03/18/2020

| Analyte       | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD     | RPD Limit | Qualifiers |
|---------------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|------------|
| Aluminum      | 8.30   | 0.100           | mg/L  | 7.0000      | 0.526         | 111  | 75-125      | 1.19    | 200       |            |
| Antimony      | 0.101  | 0.0200          | "     | 0.10000     | ND            | 101  | 75-125      | 4.72    | 200       |            |
| Arsenic       | 0.0367 | 0.0100          | "     | 0.040000    | ND            | 89.1 | 75-125      | 0.303   | 200       |            |
| Barium        | 2.06   | 0.0800          | "     | 2.0000      | 0.0856        | 98.9 | 75-125      | 2.02    | 200       |            |
| Beryllium     | 0.0469 | 0.00200         | "     | 0.050000    | ND            | 94.0 | 75-125      | 3.04    | 200       |            |
| Boron         | 0.170  | 0.0100          | "     | 0.10000     | 0.0709        | 99.0 | 75-125      | 3.30    | 200       |            |
| Cadmium       | 0.0540 | 0.00500         | "     | 0.050000    | 0.000120      | 108  | 75-125      | 2.68    | 200       |            |
| Calcium       | 11.8   | 0.250           | "     | 5.0000      | 7.12          | 94.1 | 75-125      | 0.532   | 200       |            |
| Cobalt        | 0.526  | 0.0125          | "     | 0.50000     | 0.000910      | 105  | 75-125      | 3.21    | 200       |            |
| Copper        | 0.251  | 0.0250          | "     | 0.25000     | 0.00273       | 99.4 | 75-125      | 3.80    | 200       |            |
| Chromium      | 0.215  | 0.0100          | "     | 0.20000     | 0.000474      | 107  | 75-125      | 2.58    | 200       |            |
| Iron          | 7.61   | 0.100           | "     | 6.0000      | 1.16          | 108  | 75-125      | 0.750   | 200       |            |
| Lead          | 0.0220 | 0.0100          | "     | 0.020000    | 0.00171       | 102  | 75-125      | 5.12    | 200       |            |
| Magnesium     | 6.48   | 0.250           | "     | 5.0000      | 1.49          | 99.7 | 75-125      | 0.00771 | 200       |            |
| Manganese     | 0.684  | 0.0150          | "     | 0.50000     | 0.157         | 105  | 75-125      | 0.551   | 200       |            |
| Molybdenum    | 0.210  | 0.00500         | "     | 0.20000     | ND            | 105  | 75-125      | 2.76    | 200       |            |
| Nickel        | 0.475  | 0.0200          | "     | 0.50000     | 0.000544      | 94.9 | 75-125      | 3.50    | 200       |            |
| Phosphorus    | 1.13   | 0.200           | "     | 1.0000      | ND            | 107  | 75-125      | 1.57    | 200       |            |
| Potassium     | 6.00   | 0.250           | "     | 5.0000      | 0.988         | 100  | 75-125      | 1.19    | 200       |            |
| Selenium      | 0.0860 | 0.0175          | "     | 0.10000     | ND            | 85.5 | 75-125      | 5.77    | 200       |            |
| Silica (SiO2) | 12.1   | 0.100           | "     | 1.0000      | 9.26          | 287  | 75-125      | 2.04    | 200       |            |
| Silver        | 0.0501 | 0.0100          | "     | 0.050000    | 0.00138       | 97.4 | 75-125      | 3.04    | 200       |            |
| Sodium        | 31.6   | 0.250           | "     | 5.0000      | 28.2          | 69.3 | 75-125      | 1.09    | 200       |            |
| Strontium     | 0.283  | 0.00500         | "     | 0.050000    | 0.243         | 79.4 | 75-125      | 1.37    | 200       |            |
| Sulfur        | 6.94   | 0.200           | "     | 1.0000      | 6.12          | 82.8 | 75-125      | 2.29    | 200       |            |
| Thallium      | 0.0515 | 0.0200          | "     | 0.050000    | ND            | 103  | 75-125      | 0.418   | 200       |            |
| Tin           | 0.105  | 0.0100          | "     | 0.10000     | ND            | 105  | 75-125      | 2.00    | 200       |            |
| Titanium      | 0.225  | 0.0100          | "     | 0.20000     | ND            | 110  | 75-125      | 0.368   | 200       |            |
| Vanadium      | 0.524  | 0.0200          | "     | 0.50000     | 0.000642      | 105  | 75-125      | 3.35    | 200       |            |
| Zinc          | 0.476  | 0.0400          | "     | 0.50000     | ND            | 94.8 | 75-125      | 2.85    | 200       |            |



## Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

### Cations and Anions by Ion Chromatography - Quality Control

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

#### Batch B0C1608 - NO PREP

##### Blank (B0C1608-BLK1)

Prepared & Analyzed: 03/17/2020

|          |    |      |      |  |  |  |  |  |  |   |
|----------|----|------|------|--|--|--|--|--|--|---|
| Chloride | ND | 1.0  | mg/L |  |  |  |  |  |  |   |
| Sulfate  | ND | 1.0  | "    |  |  |  |  |  |  | U |
| Fluoride | ND | 0.20 | "    |  |  |  |  |  |  |   |

##### LCS (B0C1608-BS1)

Prepared & Analyzed: 03/17/2020

|          |       |      |      |         |  |      |        |  |  |  |
|----------|-------|------|------|---------|--|------|--------|--|--|--|
| Chloride | 4.90  | 1.0  | mg/L | 5.0000  |  | 98.0 | 85-115 |  |  |  |
| Sulfate  | 4.68  | 1.0  | "    | 5.0000  |  | 93.6 | 75-125 |  |  |  |
| Fluoride | 0.581 | 0.20 | "    | 0.50000 |  | 116  | 75-125 |  |  |  |

##### Duplicate (B0C1608-DUP1)

Source: 2003234-01

Prepared & Analyzed: 03/17/2020

|          |     |     |      |  |     |  |  |      |    |   |
|----------|-----|-----|------|--|-----|--|--|------|----|---|
| Chloride | 226 | 10  | mg/L |  | 222 |  |  | 1.83 | 20 |   |
| Sulfate  | ND  | 10  | "    |  | ND  |  |  |      | 20 | U |
| Fluoride | ND  | 2.0 | "    |  | ND  |  |  |      | 20 |   |

##### Matrix Spike (B0C1608-MS1)

Source: 2003234-01

Prepared & Analyzed: 03/17/2020

|          |      |     |      |        |     |      |        |  |  |   |
|----------|------|-----|------|--------|-----|------|--------|--|--|---|
| Chloride | 361  | 11  | mg/L | 111.11 | 222 | 125  | 75-125 |  |  |   |
| Sulfate  | 108  | 11  | "    | 111.11 | ND  | 97.4 | 75-125 |  |  | D |
| Fluoride | 12.1 | 2.2 | "    | 55.556 | ND  | 21.8 | 75-125 |  |  |   |

### Certificate Of Analysis

|                            |  |
|----------------------------|--|
| <b>Griner Drilling</b>     | Project: Myrtle Avenue Baton Rouge, LA       |
| P.O. Box 825               | Project Number: CAGW Myrtle Ave. Baton Rouge |
| Columbia MS, 39429         | Project Manager: Joe Loftin                  |
| Received: 03/16/2020 10:45 | Reported: 03/25/2020 16:08                   |

#### Certified Analyses included in this Report

| Analyte                      | CAS #      | Certifications |
|------------------------------|------------|----------------|
| <b>EPA 120.1 in Water</b>    |            |                |
| Specific conductance         |            | C-2,C-3        |
| <b>EPA 200.7 in Water</b>    |            |                |
| Arsenic                      | 7440-38-2  | C-3,C-2        |
| Calcium                      | 7440-70-2  | C-3,C-2        |
| Iron                         | 7439-89-6  | C-3,C-2        |
| Magnesium                    | 7439-95-4  | C-3,C-2        |
| Manganese                    | 7439-96-5  | C-3,C-2        |
| Potassium                    | 7440-09-7  | C-3,C-2        |
| Sodium                       | 7440-23-5  | C-3,C-2        |
| <b>EPA 300.1 in Water</b>    |            |                |
| Bromide                      | 24959-67-9 | C-2,C-3        |
| Chloride                     | 16887-00-6 | C-2,C-3        |
| Sulfate                      | 14808-79-8 | C-2,C-3        |
| Fluoride                     | 16984-48-8 | C-2,C-3        |
| <b>SM 4500-H+ B in Water</b> |            |                |
| pH                           |            | C-2,C-3        |

#### List of Certifications

| Code | Description                                      | Number   | Expires    |
|------|--|----------|------------|
| C-1  | Ms Department of Health (Coliform, E coli & HPC) | MS00013  | 12/31/2019 |
| C-2  | La Environmental Lab Accreditation Program       | 03002    | 06/30/2020 |
| C-3  | National Environmental Lab Accreditation Program | TNI02178 | 06/30/2020 |



2703 Oak Grove Road, Hattiesburg, MS 39402 www.batco.com  
 Phone No. 601-264-2854 Fax No. 601-268-7084

COMPANY NAME: Griner Drilling  
 STREET ADDRESS: P. O. Box 825  
 CITY: Columbia STATE: MS ZIP: 39429

NAME OF PERSON TO CONTACT: Joe Loftin - cell 601-441-3312  
 CONTACT PERSON'S PHONE: (601) 736-6347 FAX: (601) 731-1853  
 CONTACT PERSON'S EMAIL:

CLIENT PROJECT NO. CLIENT P.O.# CLIENT PROJECT NAME  
 CAGW - Myrtle Avenue, Baton Rouge, LA

| SAMPLE DESCRIPTION | DATE      | TIME | MATRIX* |
|--------------------|-----------|------|---------|
| 2170 foot depth    | 3/13/2020 | 1245 | GW      |
| 2170 foot depth    | 3/13/2020 | 1245 | GW      |
| 2185 foot depth    | 3/13/2020 | 1350 | GW      |
| 2185 foot depth    | 3/13/2020 | 1350 | GW      |
| 2200 foot depth    | 3/13/2020 | 1452 | GW      |
| 2200 foot depth    | 3/13/2020 | 1452 | GW      |
| 2220 foot depth    | 3/13/2020 | 1552 | GW      |
| 2220 foot depth    | 3/13/2020 | 1552 | GW      |
| 2239 foot depth    | 3/13/2020 | 1655 | GW      |
| 2239 foot depth    | 3/13/2020 | 1655 | GW      |

Print Name: Rob Pearson  
 Signature: *[Signature]*  
 Relinquished By: Rob Pearson  
 Received By: *[Signature]*  
 Relinquished By: *[Signature]*  
 Received By:

Company: BATCO  
 Date: 3/16/20  
 Time: 0800  
 1045  
 Signature: *[Signature]*  
 Date: 3/16/20  
 Time: 1045

Matrix: SW=(Surface Water), GW=(Ground Water), WW=(Waste Water), DW=(Drinking Water), SL=(Sludge), SO=(Soil), AS=(asbestos), LPG=(Liquid Petroleum), AG=(Air/Gas), Other: LIST  
 REMARKS: \*\*\* Na, Ca, Mg, K, Fe, Mn, SiO2, As  
 REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS (Signature)  
 IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF \$30.00 PER SAMPLE WILL BE ASSESSED.  
 DCN: BA-001  
 REV# 1.5  
 ED:05/07/2015

# SAMPLE RECEIPT FORM

Client: Griener Drilling

Work Order: 2003234

Does this project fall under: NPDES, RCRA, CLP, Litigation or other EPA guidelines or Yes or No

Shipping Method: Lab Fed Ex UPS  
 Courier: US Postal Other:  
 Airbill Number:

| Cooler ID                          | Custody Sealed Yes/No | Custody Seal Intact Yes/No/NA | Ice Present Yes/No | Temperature  | Therm. ID   |
|------------------------------------|-----------------------|-------------------------------|--------------------|--------------|-------------|
| <u>WIP</u>                         | <u>W</u>              | <u>W</u>                      | <u>Y</u>           | <u>3.6°C</u> | <u>0011</u> |
| <u>Batched for water in cooler</u> |                       |                               |                    |              |             |
| <u>AT Batch 3/13/2015</u>          |                       |                               |                    |              |             |

If no ice, were the samples received within one hour of collection? Yes  No   
 If samples were collected within 1 to 6 hours, has chilling begun? Yes  No   
 Was a Temperature Blank used? Yes  No   
 If not, temperature was taken from \_\_\_\_\_  
 Packing Material: Bubblewrap, peanuts, vermiculite, ice, other: ice  
 Sample Containers: Yes  No   
 Cooler: Yes  No  NA

Sample containers received intact Yes  No  NA   
 Custody seals present on bottles Yes  No  NA   
 Correct containers used for the tests indicated? Who's: BATCO/client Yes  No   
 Correct preservation used Yes  No  NA   
 Sample pH <2 or >12 for required analysis Yes  No  NA   
 Sufficient aliquot of sample for tests indicated Yes  No   
 Samples requiring no headspace, headspace free? (VOA vials cannot have air bubbles greater than 6mm) Yes  No  NA   
 Chains of custody filled out properly? (ink, signed, dates, etc.) Yes  No   
 Bottle labels complete and agree with COC? (ID, time, date, preservation?) Yes  No   
 Samples received within holding times for requested analysis? Yes  No

If this project is for compliance purposes, do all samples conform (All Yes or NA) to criteria required for the requested analyses? Yes  No  NA   
 If No, the client must be notified before the analysis can be started. A Corrective Action, containing the client contacted, date and time of phone call, who contacted the client and whether the client would like to continue with testing.

Corrective Action #: \_\_\_\_\_

\* IF client request 72 HOUR or less TAT or a sample is received with an EXPIRING or < 72 Holding Times, it is the Signers Responsibility to notify the department immediately \_\_\_\_\_

Signature: [Signature]  
 Initial [Initials]