



# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

### ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S208016

Client: Fort Lonesome

Project Name: Outfalls - D-002 Quarterly

Date Received: 08/02/2022

Time Received: 13:00

Lab ID: S208016-01 (Water)      Sample Description: MLS D-002  
Date Sampled: 08/02/2022      Sample Method: Grab  
Time Sampled: 11:01      Source ID: 007002

| Parameter                          | Result  | Error   | Qualifier | Units    | MDL     | PQL    | Procedure                   | Analysis   |       | Analyst |
|------------------------------------|---------|---------|-----------|----------|---------|--------|-----------------------------|------------|-------|---------|
|                                    |         |         |           |          |         |        |                             | Date       | Time  |         |
| Chlorophyll a - free of pheophytin | 8.11    |         |           | ug/L     | 0.07    | 0.28   | EPA 445                     | 08/09/2022 | 09:07 | DJ      |
| Fluoride                           | 0.539   |         |           | mg/L     | 0.0800  | 0.300  | EPA 300.0                   | 08/11/2022 | 14:03 | AC      |
| Nitrate-Nitrite                    | 0.0680  |         | I         | mg/L     | 0.0400  | 0.160  | EPA 353.2                   | 08/05/2022 | 07:03 | KW      |
| Phosphorus, Total                  | 0.133   |         | I, J-3    | mg/L     | 0.0500  | 0.200  | EPA 365.4                   | 08/05/2022 | 08:29 | KW      |
| Residue-fixed                      | 1.00    |         | U         | mg/L     | 1.00    | 1.00   | EPA 160.4                   | 08/03/2022 | 07:07 | DJ      |
| Residue-nonfilterable (TSS)        | 3.11    |         |           | mg/L     | 1.00    | 1.00   | SM 2540 D                   | 08/03/2022 | 07:07 | DJ      |
| Sulfate                            | 90.5    |         |           | mg/L     | 1.40    | 5.00   | EPA 300.0                   | 08/11/2022 | 14:03 | AC      |
| Total Kjeldahl Nitrogen            | 0.794   |         |           | mg/L     | 0.100   | 0.400  | EPA 351.2                   | 08/05/2022 | 08:29 | KW      |
| Total N                            | 0.862   |         |           | mg/L     | 0.140   | 0.560  | TKN + Total nitrate-nitrite | 08/05/2022 | 08:29 | KW      |
| Arsenic                            | 0.00300 |         | U         | mg/L     | 0.00300 | 0.0120 | EPA 200.7                   | 08/10/2022 | 16:23 | VB      |
| Dissolved Oxygen Saturation        | 90.5    |         |           | per cent |         |        | FT 1500                     | 08/02/2022 | 11:01 | KC      |
| Flow Rate                          | 18.6    |         |           | MGD      |         |        | FT 1800                     | 08/02/2022 | 11:01 | KC      |
| pH                                 | 7.55    |         |           | SU       |         |        | FT 1100                     | 08/02/2022 | 11:01 | KC      |
| Specific Conductance               | 463     |         |           | umhos/cm |         |        | FT 1200                     | 08/02/2022 | 11:01 | KC      |
| Staff Gauge                        | 0.89    |         |           | feet     |         |        | Calculated                  | 08/02/2022 | 11:01 | KC      |
| Water Temperature                  | 30.2    |         |           | °C       |         |        | FT 1400                     | 08/02/2022 | 11:01 | KC      |
| Turbidity                          | 2.41    |         |           | NTU      |         |        | FT 1600                     | 08/02/2022 | 11:01 | KC      |
| Gross-Alpha                        | 3.9     | +/- 1.7 |           | pCi/L    | 1.4     | 1.4    | EPA 900.0                   | 08/16/2022 | 06:32 | FRS     |
| Radium-226                         | 0.7     | +/- 0.3 |           | pCi/L    | 0.2     | 0.2    | EPA 903.1                   | 08/17/2022 | 11:40 | FRS     |
| Radium-228                         | 0.6     | +/- 0.4 | U         | pCi/L    | 0.6     | 0.6    | Ra - 05                     | 08/16/2022 | 11:56 | FRS     |
| Oil and Grease                     | 1.37    |         | U         | MG/L     | 1.37    | 5.48   | EPA 1664A                   | 08/09/2022 | 13:21 | Bench   |



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Work Order Number: S208016  
Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                                      | Result | Qualifiers | Units | MDL                           | PQL   | Spike Level | Source Result | %REC                          | %REC Limits | RPD  | RPD Limit |
|--|--------|------------|-------|-------------------------------|-------|-------------|---------------|-------------------------------|-------------|------|-----------|
| <b>Batch B208053 - DEFAULT PREP Wet Chem</b> |        |            |       |                               |       |             |               |                               |             |      |           |
| <b>LCS (B208053-BS1)</b>                     |        |            |       | Prepared & Analyzed: 08/03/22 |       |             |               |                               |             |      |           |
| Residue-nonfilterable (TSS)                  | 44.0   |            | mg/L  | 1.00                          | 1.00  | 46.2        |               | 95.2                          | 90-110      |      |           |
| <b>Duplicate (B208053-DUP1)</b>              |        |            |       | Source: S208006-01            |       |             |               | Prepared & Analyzed: 01/01/80 |             |      |           |
| Residue-nonfilterable (TSS)                  | 5.56   |            | mg/L  | 1.00                          | 1.00  |             | 5.78          |                               |             | 3.92 | 5         |
| <b>Duplicate (B208053-DUP2)</b>              |        |            |       | Source: S208016-01            |       |             |               | Prepared & Analyzed: 08/03/22 |             |      |           |
| Residue-nonfilterable (TSS)                  | 3.11   |            | mg/L  | 1.00                          | 1.00  |             | 3.11          |                               |             | 0.00 | 5         |
| <b>Batch B208054 - DEFAULT PREP Wet Chem</b> |        |            |       |                               |       |             |               |                               |             |      |           |
| <b>Blank (B208054-BLK1)</b>                  |        |            |       | Prepared & Analyzed: 08/03/22 |       |             |               |                               |             |      |           |
| Residue-fixed                                | 1.00   | U          | mg/L  | 1.00                          | 1.00  |             |               |                               |             |      |           |
| <b>Duplicate (B208054-DUP1)</b>              |        |            |       | Source: S208006-01            |       |             |               | Prepared & Analyzed: 08/03/22 |             |      |           |
| Residue-fixed                                | 1.11   | J-2        | mg/L  | 1.00                          | 1.00  |             | 1.33          |                               |             | 18.2 | 5         |
| <b>Batch B208062 - Nutrient Prep</b>         |        |            |       |                               |       |             |               |                               |             |      |           |
| <b>Blank (B208062-BLK1)</b>                  |        |            |       | Prepared & Analyzed: 08/05/22 |       |             |               |                               |             |      |           |
| Phosphorus, Total                            | 0.0500 | U          | mg/L  | 0.0500                        | 0.200 |             |               |                               |             |      |           |
| Total Kjeldahl Nitrogen                      | 0.100  | U          | mg/L  | 0.100                         | 0.400 |             |               |                               |             |      |           |
| <b>Blank (B208062-BLK2)</b>                  |        |            |       | Prepared & Analyzed: 08/05/22 |       |             |               |                               |             |      |           |
| Total Kjeldahl Nitrogen                      | 0.100  | U          | mg/L  | 0.100                         | 0.400 |             |               |                               |             |      |           |
| Phosphorus, Total                            | 0.0500 | U          | mg/L  | 0.0500                        | 0.200 |             |               |                               |             |      |           |



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Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                              | Result | Qualifiers | Units | MDL                       | PQL   | Spike Level                   | Source Result | %REC | %REC Limits | RPD   | RPD Limit |
|--------------------------------------|--------|------------|-------|---------------------------|-------|-------------------------------|---------------|------|-------------|-------|-----------|
| <b>Batch B208062 - Nutrient Prep</b> |        |            |       |                           |       |                               |               |      |             |       |           |
| <b>LCS (B208062-BS1)</b>             |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       |                           |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Total Kjeldahl Nitrogen              | 2.12   |            | mg/L  | 0.100                     | 0.400 | 2.00                          |               | 106  | 90-110      |       |           |
| Phosphorus, Total                    | 2.04   |            | mg/L  | 0.0500                    | 0.200 | 2.00                          |               | 102  | 90-110      |       |           |
| <b>LCS (B208062-BS2)</b>             |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       |                           |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Total Kjeldahl Nitrogen              | 2.10   |            | mg/L  | 0.100                     | 0.400 | 2.00                          |               | 105  | 90-110      |       |           |
| Phosphorus, Total                    | 2.05   |            | mg/L  | 0.0500                    | 0.200 | 2.00                          |               | 102  | 90-110      |       |           |
| <b>Duplicate (B208062-DUP1)</b>      |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       | <b>Source: S208013-01</b> |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Phosphorus, Total                    | 1.37   |            | mg/L  | 0.0500                    | 0.200 |                               | 1.36          |      |             | 0.514 | 30        |
| Total Kjeldahl Nitrogen              | 1.36   |            | mg/L  | 0.100                     | 0.400 |                               | 1.36          |      |             | 0.294 | 30        |
| <b>Duplicate (B208062-DUP2)</b>      |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       | <b>Source: S208016-01</b> |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Phosphorus, Total                    | 0.128  | I, J-3     | mg/L  | 0.0500                    | 0.200 |                               | 0.133         |      |             | 3.83  | 30        |
| Total Kjeldahl Nitrogen              | 0.812  |            | mg/L  | 0.100                     | 0.400 |                               | 0.794         |      |             | 2.24  | 30        |
| <b>Duplicate (B208062-DUP3)</b>      |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       | <b>Source: S208025-03</b> |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Total Kjeldahl Nitrogen              | 0.743  |            | mg/L  | 0.100                     | 0.400 |                               | 0.617         |      |             | 18.5  | 30        |
| Phosphorus, Total                    | 0.690  |            | mg/L  | 0.0500                    | 0.200 |                               | 0.714         |      |             | 3.42  | 30        |
| <b>Duplicate (B208062-DUP4)</b>      |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       | <b>Source: S208031-05</b> |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Total Kjeldahl Nitrogen              | 1.14   |            | mg/L  | 0.100                     | 0.400 |                               | 1.13          |      |             | 1.14  | 30        |
| Phosphorus, Total                    | 1.52   |            | mg/L  | 0.0500                    | 0.200 |                               | 1.54          |      |             | 1.44  | 30        |
| <b>Matrix Spike (B208062-MS1)</b>    |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       | <b>Source: S208013-01</b> |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Total Kjeldahl Nitrogen              | 2.30   |            | mg/L  | 0.100                     | 0.400 | 1.00                          | 1.36          | 94.1 | 90-110      |       |           |
| Phosphorus, Total                    | 2.34   |            | mg/L  | 0.0500                    | 0.200 | 1.00                          | 1.36          | 98.0 | 90-110      |       |           |
| <b>Matrix Spike (B208062-MS2)</b>    |        |            |       |                           |       |                               |               |      |             |       |           |
|                                      |        |            |       | <b>Source: S208016-01</b> |       | Prepared & Analyzed: 08/05/22 |               |      |             |       |           |
| Phosphorus, Total                    | 1.27   | J-3        | mg/L  | 0.0500                    | 0.200 | 1.00                          | 0.133         | 114  | 90-110      |       |           |
| Total Kjeldahl Nitrogen              | 1.82   |            | mg/L  | 0.100                     | 0.400 | 1.00                          | 0.794         | 103  | 90-110      |       |           |



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Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                              | Result | Qualifiers | Units                                    | MDL    | PQL   | Spike Level                              | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--------------------------------------|--------|------------|--|--------|-------|--|---------------|------|-------------|-----|-----------|
| <b>Batch B208062 - Nutrient Prep</b> |        |            |  |        |       |  |               |      |             |     |           |
| <b>Matrix Spike (B208062-MS3)</b>    |        |            | <b>Source: S208025-03</b>                |        |       | <b>Prepared &amp; Analyzed: 08/05/22</b> |               |      |             |     |           |
| Phosphorus, Total                    | 1.72   |            | mg/L                                     | 0.0500 | 0.200 | 1.00                                     | 0.714         | 101  | 90-110      |     |           |
| Total Kjeldahl Nitrogen              | 1.70   |            | mg/L                                     | 0.100  | 0.400 | 1.00                                     | 0.617         | 109  | 90-110      |     |           |
| <b>Matrix Spike (B208062-MS4)</b>    |        |            | <b>Source: S208031-05</b>                |        |       | <b>Prepared &amp; Analyzed: 08/05/22</b> |               |      |             |     |           |
| Total Kjeldahl Nitrogen              | 2.12   |            | mg/L                                     | 0.100  | 0.400 | 1.00                                     | 1.13          | 99.0 | 90-110      |     |           |
| Phosphorus, Total                    | 2.55   |            | mg/L                                     | 0.0500 | 0.200 | 1.00                                     | 1.54          | 101  | 90-110      |     |           |
| <b>Reference (B208062-SRM1)</b>      |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b> |        |       |  |               |      |             |     |           |
| Total Kjeldahl Nitrogen              | 2.10   |            | mg/L                                     | 0.100  | 0.400 | 2.00                                     |               | 105  | 90-110      |     |           |
| Phosphorus, Total                    | 1.99   |            | mg/L                                     | 0.0500 | 0.200 | 2.00                                     |               | 99.6 | 90-110      |     |           |
| <b>Batch B208065 - Nutrient Prep</b> |        |            |  |        |       |  |               |      |             |     |           |
| <b>Blank (B208065-BLK1)</b>          |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b> |        |       |  |               |      |             |     |           |
| Nitrate-Nitrite                      | 0.0400 | U          | mg/L                                     | 0.0400 | 0.160 |  |               |      |             |     |           |
| <b>Blank (B208065-BLK2)</b>          |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b> |        |       |  |               |      |             |     |           |
| Nitrate-Nitrite                      | 0.0400 | U          | mg/L                                     | 0.0400 | 0.160 |  |               |      |             |     |           |
| <b>Blank (B208065-BLK3)</b>          |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b> |        |       |  |               |      |             |     |           |
| Nitrate-Nitrite                      | 0.0400 | U          | mg/L                                     | 0.0400 | 0.160 |  |               |      |             |     |           |
| <b>LCS (B208065-BS1)</b>             |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b> |        |       |  |               |      |             |     |           |
| Nitrate-Nitrite                      | 1.02   |            | mg/L                                     | 0.0400 | 0.160 | 1.00                                     |               | 102  | 90-110      |     |           |
| <b>LCS (B208065-BS2)</b>             |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b> |        |       |  |               |      |             |     |           |
| Nitrate-Nitrite                      | 1.02   |            | mg/L                                     | 0.0400 | 0.160 | 1.00                                     |               | 102  | 90-110      |     |           |



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Work Order Number: S208016  
Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                              | Result | Qualifiers | Units | MDL    | PQL   | Spike Level                                      | Source Result | %REC | %REC Limits | RPD  | RPD Limit |
|--------------------------------------|--------|------------|-------|--------|-------|--|---------------|------|-------------|------|-----------|
| <b>Batch B208065 - Nutrient Prep</b> |        |            |       |        |       |  |               |      |             |      |           |
| <b>LCS (B208065-BS3)</b>             |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Prepared & Analyzed: 08/05/22                    |               |      |             |      |           |
| Nitrate-Nitrite                      | 1.01   |            | mg/L  | 0.0400 | 0.160 | 1.00   |               | 101  | 90-110      |      |           |
| <b>Duplicate (B208065-DUP1)</b>      |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208010-03 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.203  |            | mg/L  | 0.0400 | 0.160 |  | 0.203         |      |             | 0.00 | 30        |
| <b>Duplicate (B208065-DUP2)</b>      |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208016-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.0690 | I          | mg/L  | 0.0400 | 0.160 |  | 0.0680        |      |             | 1.46 | 30        |
| <b>Duplicate (B208065-DUP3)</b>      |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208022-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.0660 | I          | mg/L  | 0.0400 | 0.160 |  | 0.0680        |      |             | 2.99 | 30        |
| <b>Duplicate (B208065-DUP4)</b>      |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208031-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.0570 | I          | mg/L  | 0.0400 | 0.160 |  | 0.0560        |      |             | 1.77 | 30        |
| <b>Duplicate (B208065-DUP5)</b>      |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208034-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.0400 | U          | mg/L  | 0.0400 | 0.160 |  | U             |      |             |      | 30        |
| <b>Matrix Spike (B208065-MS1)</b>    |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208010-03 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.676  |            | mg/L  | 0.0400 | 0.160 | 0.500  | 0.203         | 94.6 | 90-110      |      |           |
| <b>Matrix Spike (B208065-MS2)</b>    |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208016-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.543  |            | mg/L  | 0.0400 | 0.160 | 0.500  | 0.0680        | 95.0 | 90-110      |      |           |
| <b>Matrix Spike (B208065-MS3)</b>    |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208022-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.547  |            | mg/L  | 0.0400 | 0.160 | 0.500  | 0.0680        | 95.8 | 90-110      |      |           |
| <b>Matrix Spike (B208065-MS4)</b>    |        |            |       |        |       |  |               |      |             |      |           |
|                                      |        |            |       |        |       | Source: S208031-01 Prepared & Analyzed: 08/05/22 |               |      |             |      |           |
| Nitrate-Nitrite                      | 0.542  |            | mg/L  | 0.0400 | 0.160 | 0.500  | 0.0560        | 97.2 | 90-110      |      |           |



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Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                                      | Result | Qualifiers | Units  | MDL    | PQL   | Spike Level                                  | Source Result | %REC | %REC Limits | RPD  | RPD Limit |
|--|--------|------------|--|--------|-------|--|---------------|------|-------------|------|-----------|
| <b>Batch B208065 - Nutrient Prep</b>         |        |            |  |        |       |  |               |      |             |      |           |
| <b>Matrix Spike (B208065-MS5)</b>            |        |            | <b>Source: S208034-01</b>                    |        |       | <b>Prepared &amp; Analyzed: 08/05/22</b>     |               |      |             |      |           |
| Nitrate-Nitrite                              | 0.489  |            | mg/L   | 0.0400 | 0.160 | 0.500  | U             | 97.8 | 90-110      |      |           |
| <b>Reference (B208065-SRM1)</b>              |        |            | <b>Prepared &amp; Analyzed: 08/05/22</b>     |        |       |  |               |      |             |      |           |
| Nitrate-Nitrite                              | 1.06   |            | mg/L   | 0.0400 | 0.160 | 1.00   |               | 106  | 90-110      |      |           |
| <b>Batch B208094 - DEFAULT PREP Wet Chem</b> |        |            |  |        |       |  |               |      |             |      |           |
| <b>Blank (B208094-BLK1)</b>                  |        |            | <b>Prepared: 08/03/22 Analyzed: 08/09/22</b> |        |       |  |               |      |             |      |           |
| Chlorophyll a - free of pheophytin           | 0.07   | U          | ug/L   | 0.07   | 0.28  |  |               |      |             |      |           |
| <b>LCS (B208094-BS1)</b>                     |        |            | <b>Prepared: 08/08/22 Analyzed: 08/09/22</b> |        |       |  |               |      |             |      |           |
| Chlorophyll a - free of pheophytin           | 61.2   |            | ug/L   | 0.07   | 0.28  | 58.7   |               | 104  | 90-110      |      |           |
| <b>Duplicate (B208094-DUP1)</b>              |        |            | <b>Source: S207196-11</b>                    |        |       | <b>Prepared: 07/28/22 Analyzed: 08/09/22</b> |               |      |             |      |           |
| Chlorophyll a - free of pheophytin           | 0.90   |            | ug/L   | 0.07   | 0.28  |  | 0.95          |      |             | 5.41 | 30        |
| <b>Batch B208128 - Anion Prep</b>            |        |            |  |        |       |  |               |      |             |      |           |
| <b>Blank (B208128-BLK1)</b>                  |        |            | <b>Prepared &amp; Analyzed: 08/10/22</b>     |        |       |  |               |      |             |      |           |
| Sulfate                                      | 1.40   | U          | mg/L   | 1.40   | 5.00  |  |               |      |             |      |           |
| Fluoride                                     | 0.0800 | U          | mg/L   | 0.0800 | 0.300 |  |               |      |             |      |           |
| <b>Blank (B208128-BLK2)</b>                  |        |            | <b>Prepared &amp; Analyzed: 08/11/22</b>     |        |       |  |               |      |             |      |           |
| Sulfate                                      | 1.40   | U          | mg/L   | 1.40   | 5.00  |  |               |      |             |      |           |
| Fluoride                                     | 0.0800 | U          | mg/L   | 0.0800 | 0.300 |  |               |      |             |      |           |



# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

### QC REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S208016  
Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                           | Result | Qualifiers | Units                     | MDL    | PQL   | Spike Level                   | Source Result | %REC | %REC Limits | RPD   | RPD Limit |
|-----------------------------------|--------|------------|---------------------------|--------|-------|-------------------------------|---------------|------|-------------|-------|-----------|
| <b>Batch B208128 - Anion Prep</b> |        |            |                           |        |       |                               |               |      |             |       |           |
| <b>LCS (B208128-BS1)</b>          |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            |                           |        |       | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Sulfate                           | 19.8   |            | mg/L                      | 1.40   | 5.00  | 20.0                          |               | 98.8 | 90-110      |       |           |
| Fluoride                          | 2.04   |            | mg/L                      | 0.0800 | 0.300 | 2.00                          |               | 102  | 90-110      |       |           |
| <b>LCS (B208128-BS2)</b>          |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            |                           |        |       | Prepared & Analyzed: 08/11/22 |               |      |             |       |           |
| Fluoride                          | 2.13   |            | mg/L                      | 0.0800 | 0.300 | 2.00                          |               | 106  | 90-110      |       |           |
| Sulfate                           | 20.4   |            | mg/L                      | 1.40   | 5.00  | 20.0                          |               | 102  | 90-110      |       |           |
| <b>Duplicate (B208128-DUP1)</b>   |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            | <b>Source: S208018-01</b> |        |       | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Fluoride                          | 0.993  |            | mg/L                      | 0.0800 | 0.300 |                               | 1.03          |      |             | 4.05  | 20        |
| Sulfate                           | 9.46   |            | mg/L                      | 1.40   | 5.00  |                               | 9.84          |      |             | 3.91  | 20        |
| <b>Duplicate (B208128-DUP2)</b>   |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            | <b>Source: S208018-02</b> |        |       | Prepared & Analyzed: 08/11/22 |               |      |             |       |           |
| Fluoride                          | 0.626  |            | mg/L                      | 0.0800 | 0.300 |                               | 0.588         |      |             | 6.26  | 20        |
| Sulfate                           | 4.69   | I          | mg/L                      | 1.40   | 5.00  |                               | 4.52          |      |             | 3.80  | 20        |
| <b>Duplicate (B208128-DUP3)</b>   |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            | <b>Source: S208018-04</b> |        |       | Prepared & Analyzed: 08/11/22 |               |      |             |       |           |
| Sulfate                           | 20.2   | J-3        | mg/L                      | 1.40   | 5.00  |                               | 20.4          |      |             | 0.694 | 20        |
| Fluoride                          | 0.313  |            | mg/L                      | 0.0800 | 0.300 |                               | 0.316         |      |             | 0.954 | 20        |
| <b>Matrix Spike (B208128-MS1)</b> |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            | <b>Source: S208018-01</b> |        |       | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Sulfate                           | 28.4   |            | mg/L                      | 1.40   | 5.00  | 20.0                          | 9.84          | 92.9 | 90-110      |       |           |
| Fluoride                          | 3.12   |            | mg/L                      | 0.0800 | 0.300 | 2.00                          | 1.03          | 104  | 90-110      |       |           |
| <b>Matrix Spike (B208128-MS2)</b> |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            | <b>Source: S208018-02</b> |        |       | Prepared & Analyzed: 08/11/22 |               |      |             |       |           |
| Fluoride                          | 2.64   |            | mg/L                      | 0.0800 | 0.300 | 2.00                          | 0.588         | 103  | 90-110      |       |           |
| Sulfate                           | 22.7   |            | mg/L                      | 1.40   | 5.00  | 20.0                          | 4.52          | 90.9 | 90-110      |       |           |
| <b>Matrix Spike (B208128-MS3)</b> |        |            |                           |        |       |                               |               |      |             |       |           |
|                                   |        |            | <b>Source: S208018-04</b> |        |       | Prepared & Analyzed: 08/11/22 |               |      |             |       |           |
| Fluoride                          | 2.39   |            | mg/L                      | 0.0800 | 0.300 | 2.00                          | 0.316         | 104  | 90-110      |       |           |
| Sulfate                           | 38.2   | J-3        | mg/L                      | 1.40   | 5.00  | 20.0                          | 20.4          | 89.1 | 90-110      |       |           |



# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

### QC REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S208016  
Project Name: Outfalls - D-002 Quarterly

#### Wet Chemistry - Quality Control

| Analyte                           | Result | Qualifiers | Units | MDL                           | PQL   | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------------|--------|------------|-------|-------------------------------|-------|-------------|---------------|------|-------------|-----|-----------|
| <b>Batch B208128 - Anion Prep</b> |        |            |       |                               |       |             |               |      |             |     |           |
| <b>Reference (B208128-SRM1)</b>   |        |            |       | Prepared & Analyzed: 08/10/22 |       |             |               |      |             |     |           |
| Fluoride                          | 10.4   |            | mg/L  | 0.0800                        | 0.300 | 10.0        |               | 104  | 90-110      |     |           |
| Sulfate                           | 99.9   |            | mg/L  | 1.40                          | 5.00  | 100         |               | 99.9 | 90-110      |     |           |





# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

### QC REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S208016  
Project Name: Outfalls - D-002 Quarterly

#### Metals - Quality Control

| Analyte                                | Result  | Qualifiers | Units                     | MDL     | PQL    | Spike Level                   | Source Result | %REC | %REC Limits | RPD   | RPD Limit |
|--|---------|------------|---------------------------|---------|--------|-------------------------------|---------------|------|-------------|-------|-----------|
| <b>Batch B208139 - EPA 200.7</b>       |         |            |                           |         |        |                               |               |      |             |       |           |
| <b>Blank (B208139-BLK1)</b>            |         |            |                           |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.00300 | U          | mg/L                      | 0.00300 | 0.0120 |                               |               |      |             |       |           |
| <b>Blank (B208139-BLK2)</b>            |         |            |                           |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.00300 | U          | mg/L                      | 0.00300 | 0.0120 |                               |               |      |             |       |           |
| <b>LCS (B208139-BS1)</b>               |         |            |                           |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.321   |            | mg/L                      | 0.00300 | 0.0120 | 0.320                         |               | 100  | 90-110      |       |           |
| <b>LCS (B208139-BS2)</b>               |         |            |                           |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.333   |            | mg/L                      | 0.00300 | 0.0120 | 0.320                         |               | 104  | 90-110      |       |           |
| <b>Matrix Spike (B208139-MS1)</b>      |         |            | <b>Source: S208018-02</b> |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.170   |            | mg/L                      | 0.00300 | 0.0120 | 0.160                         | U             | 106  | 70-130      |       |           |
| <b>Matrix Spike (B208139-MS2)</b>      |         |            | <b>Source: S208032-03</b> |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.163   |            | mg/L                      | 0.00300 | 0.0120 | 0.160                         | U             | 102  | 70-130      |       |           |
| <b>Matrix Spike (B208139-MS3)</b>      |         |            | <b>Source: S208034-02</b> |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.167   |            | mg/L                      | 0.00300 | 0.0120 | 0.160                         | U             | 104  | 70-130      |       |           |
| <b>Matrix Spike Dup (B208139-MSD1)</b> |         |            | <b>Source: S208018-02</b> |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.165   |            | mg/L                      | 0.00300 | 0.0120 | 0.160                         | U             | 103  | 70-130      | 3.13  | 20        |
| <b>Matrix Spike Dup (B208139-MSD2)</b> |         |            | <b>Source: S208032-03</b> |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.165   |            | mg/L                      | 0.00300 | 0.0120 | 0.160                         | U             | 103  | 70-130      | 0.928 | 20        |
| <b>Matrix Spike Dup (B208139-MSD3)</b> |         |            | <b>Source: S208034-02</b> |         |        | Prepared & Analyzed: 08/10/22 |               |      |             |       |           |
| Arsenic                                | 0.168   |            | mg/L                      | 0.00300 | 0.0120 | 0.160                         | U             | 105  | 70-130      | 0.530 | 20        |



# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

### QC REPORT

THESE RESULTS MEET NELAP STANDARDS

Work Order Number: S208016  
Project Name: Outfalls - D-002 Quarterly

#### Metals - Quality Control

| Analyte                          | Result | Qualifiers | Units | MDL                           | PQL    | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|----------------------------------|--------|------------|-------|-------------------------------|--------|-------------|---------------|------|-------------|-----|-----------|
| <b>Batch B208139 - EPA 200.7</b> |        |            |       |                               |        |             |               |      |             |     |           |
| <b>Reference (B208139-SRM1)</b>  |        |            |       | Prepared & Analyzed: 08/10/22 |        |             |               |      |             |     |           |
| Arsenic                          | 0.318  |            | mg/L  | 0.00300                       | 0.0120 | 0.320       |               | 99.3 | 0-200       |     |           |



# Mosaic Fertilizer, L.L.C.

## Environmental Lab



NELAP Certification #  
E 84578

*Courtney King*

08/22/2022

Courtney King For Joshua Lipham / Technical Director

Date

### DATA QUALIFIERS THAT MAY APPLY:

- U = Not detected at or above the adjusted reporting limit
- I = The value is between the MDL and the PQL
- V = The analyte was detected in both the sample and the associated method blank
- J-3 = A sample matrix interference is suspected. Does not interfere with data usability.
- J-2 = The reported value failed to meet the established quality control criteria for either precision or accuracy. The data usability is not effected.

### NOTES:

- MDL = Method Detection Limit
- PQL = Practical Quantification Limit
- %REC = Percent Recovery
- RPD = Relative Percent Difference

For questions and comments regarding these results, please contact Joshua Lipham @ (863) 428-2732 (email: Joshua.Lipham@mosaicco.com).  
*Results relate only to the samples.*

Mosaic  
Minerals Environmental  
13830 Circa Crossing Drive  
Lithia, FL 33547

Date: 8/2/2022 S208016  
COC #: \_\_\_\_\_

Mosaic Environmental Lab  
7450 C.R. 630  
Mulberry, FL. 33860  
(863) 428 - 2761

Samples For: Compliance: \_\_\_\_\_  
Non-Compliance: \_\_\_\_\_

Owner: Mike Mooneyham

Revised Date: 08/01/2022

| Sampled By (Print): |       | Anthony Annibali, Phillip Baxter |             | Report to:     |      | Project Name: Lonesome D-002 - DeSoto County Split Sample |                               |                                   |  |  |                 |                                |
|---------------------|-------|----------------------------------|-------------|----------------|------|---|-------------------------------|-----------------------------------|--|--|-----------------|--------------------------------|
| Sampler Signature:  |       | <i>[Signature]</i>               |             |                |      | C   | D                             | <del>A</del> B                    | A  | G  | E               | F                              |
| Date:               | Time: | LAB ID #                         | SOURCE ID # | Sample ID      | Type | Unpreserved 950ml:<br>TSS, FSS                            | Unpreserved 250 ml:<br>F, SO4 | H2SO4 500 ml: Total P,<br>Total N | Unpreserved 500 ml<br>Amber:<br>Chloro-a | H2SO4 950ml Glass<br>Amber: Oil and Grease | HNO3 250 ml: As | HNO3 1/2 gal: GA,<br>Ra226/228 |
| 8/2/22              | 11:01 | -01                              | 007002      | Lonesome D-002 | G    | 1   | 1                             | 1                                 | 1  | 1  | 1               | 1                              |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |
|                     |       |                                  |             |                |      |   |                               |                                   |  |  |                 |                                |

| Items: | Relinquished By: | Accepted By:       | Date / Time:  |
|--------|------------------|--------------------|---------------|
| 7      | Anthony Annibali | <i>[Signature]</i> | 8/2/22 @ 1300 |
|        |                  |                    |               |

TEMP 7.9 C  
THERMOMETER ID  
2011207  
PHX2 ✓ INITW  
PH PAPER ID  
0091201



SURFACE WATER DATA SHEET

Project: Lonesome D 002- DeSoto County Split Sample

Anthony Annibali, Phillip Baxter

| Source ID | Location       | TYPE       | TIME  | FDEP-FT-1100      | FDEP-FT-1200 | FDEP-FT-1400 | FDEP-FT-1600 | FDEP-FT-1500 | DO Sat | SAMPLE DEPTH | FLOW  | STAFF GAUGE | WATER ELEVATION | COLOR |
|-----------|----------------|------------|-------|-------------------|--------------|--------------|--------------|--------------|--------|--------------|-------|-------------|-----------------|-------|
|           |                |            |       | PH                | COND         | TEMP         | Turbidity    | DO           |        |              |       |             |                 |       |
|           |                | Grab/Comp. |       | 6.0< PH <8.5 S.U. | <1275 µS     | °C           | <29 NTU's    | >5.0 mg/L    | >38 %  | Feet         | MGD   | Feet        | MSL             |       |
| 007002    | Lonesome D-002 | Grab       | 11:01 | 7.55              | 463          | 30.2         | 2.41         | 6.47         | 90.5   | Towc         | 18.65 | 0.89        | A-4             | T     |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |
|           |                |            |       |                   |              |              |              |              |        |              |       |             |                 |       |

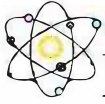
| Source ID | Location | Width (ft) | x Depth (ft) | x Velocity (ft/s) | = CFS | x 0.64632 = MGD |
|-----------|----------|------------|--------------|-------------------|-------|-----------------|
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |
|           |          |            |              |                   |       |                 |

Sampling Sequence: VOC, Organics, Metals, Microbio, Inorganics/Physical, Rad

BEGIN TIME 11:01 END TIME 11:01

FIELD CONDITIONS FOR SAMPLING DATE : CLOUD COVER: Clear / Scattered / Broken / Overcast WIND DIRECTION: N / NE / E / SE / S / SW / W / NW / Variable / Calm AMBIENT TEMP. (°C) start: 31 end: 31 VISIBILITY start: Clear end: Clear

COMMENTS: Tide gauge blocked by vegetation



# Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Certification I. D. # E83033

Work Order #: 2208066

Report Date: 08/17/22

Report to:

Mosaic Fe ~~Testing~~ LLC.

13830 Circe Crossing Drive

Lithia, FL 33547

Attention: Joshua Lipham / Adriana Rivers

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and TNI Standards. The test results in this report relate only to the samples received.

Signed



Michael J. Naumann – President

Shawn M. Naumann – Laboratory Manager

Date 8-17-22



Florida Radiochemistry Services, Inc.

**Sample Login**

|                        |   |                             |  |
|------------------------|---|-----------------------------|--|
| <b>Client:</b>         | <b>The Mosaic Company</b>                       | <b>Date / Time Received</b> | <b>Work order #</b>                                |
|                        |   | <b>08/09/22 11:00</b>       | <b>2208066</b>                                     |
| <b>Client Contact:</b> | <b>Joshua Lipham/Adriana Rivers</b>             |                             |  |
| <b>Project I.D.</b>    | <b>Fort Lonesome Outfalls - D-002 Quarterly</b> |                             |  |
| <b>Lab Sample I.D.</b> | <b>Client Sample I.D.</b>                       | <b>Sample Date/Time</b>     | <b>Analysis Requested</b>                          |
| <b>2208066-01</b>      | <b>S208016-01<br/>MSL D-002</b>                 | <b>08/02/22 11:01</b>       | <b>Ga, Ra226, Ra228<br/>Combined Ra226 + Ra228</b> |

**Analysis Results**

|                      |                 |                      |                 |
|----------------------|-----------------|----------------------|-----------------|
| <b>Gross Alpha</b>   | <b>3.9</b>      | <b>Combined</b>      |                 |
| <b>Error +/-</b>     | <b>1.7</b>      | <b>Ra226 + Ra228</b> | <b>0.8</b>      |
| <b>MDL</b>           | <b>1.4</b>      | <b>Error +/-</b>     | <b>0.5</b>      |
| <b>EPA Method</b>    | <b>900.0</b>    | <b>MDL</b>           | <b>0.6</b>      |
| <b>Prep Date</b>     | <b>08/15/22</b> |                      |                 |
| <b>Prep Time</b>     | <b>09:05</b>    |                      |                 |
| <b>Analysis Date</b> | <b>08/16/22</b> |                      |                 |
| <b>Analysis Time</b> | <b>06:32</b>    |                      |                 |
| <b>Analyst</b>       | <b>MJN</b>      |                      |                 |
| <br>                 |                 |                      |                 |
| <b>Radium 226</b>    | <b>0.7</b>      | <b>Radium 228</b>    | <b>0.6U</b>     |
| <b>Error +/-</b>     | <b>0.3</b>      | <b>Error +/-</b>     | <b>0.4</b>      |
| <b>MDL</b>           | <b>0.2</b>      | <b>MDL</b>           | <b>0.6</b>      |
| <b>EPA Method</b>    | <b>903.0</b>    | <b>EPA Method</b>    | <b>Ra-05</b>    |
| <b>Prep Date</b>     | <b>08/10/22</b> | <b>Prep Date</b>     | <b>08/10/22</b> |
| <b>Prep Time</b>     | <b>08:40</b>    | <b>Prep Time</b>     | <b>08:40</b>    |
| <b>Analysis Date</b> | <b>08/17/22</b> | <b>Analysis Date</b> | <b>08/16/22</b> |
| <b>Analysis Time</b> | <b>11:40</b>    | <b>Analysis Time</b> | <b>11:56</b>    |
| <b>Analyst</b>       | <b>MJN</b>      | <b>Analyst</b>       | <b>SN</b>       |
| <br>                 |                 |                      |                 |
| <b>Units</b>         | <b>pCi/l</b>    | <b>Units</b>         | <b>pCi/l</b>    |



QA Page

| Analyte     | Sample #   | Date Analyzed | Sample Result | Amount Spiked | Spike Result | Spike /Dup Result | Spike % Rec. | Spike Dup % Rpd |
|-------------|------------|---------------|---------------|---------------|--------------|-------------------|--------------|-----------------|
| Gross Alpha | 2208066-01 | 08/16/22      | 3.9           | 10.0          | 12.5         | 12.1              | 86           | 3.3             |
| Radium 226  | 2208059-01 | 08/17/22      | 12.7          | 4.42          | 16.5         | 16.4              | 86           | 0.6             |
| Radium 228  | 2208059-01 | 08/16/22      | <0.7          | 3.22          | 3.9          | 3.8               | 121          | 2.6             |

|             | Quality | Control | Limits |
|-------------|---------|---------|--------|
|             | % RPD   |         | % Rec. |
| Gross Alpha | 20.0    |         | 70-130 |
| Radium 226  | 20.0    |         | 80-120 |
| Radium 228  | 20.0    |         | 70-130 |



SUBCONTRACT ORDER  
Mosaic Fertilizer, LLC Environmental Laboratory



Fort Lonesome  
Outfalls - D-002 Quarterly

S208016

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory  
7450 CR 630 Building 1  
Mulberry, FL 33865  
Phone: 863-428-2764  
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Florida Radiochemistry Service  
5456 Hoffner Avenue #201  
Orlando, FL 32812-2517  
Phone :(407) 382-7733

Sub Lab ID

Sample ID: S208016-01 007002

MLS D-002

Water Sampled: 08/02/22 11:01

Gross-Alpha

Radium 226

Radium 228

Containers

*Kropper*

Released By

*McNamm*

Received By

*8.9.22 @*

Date

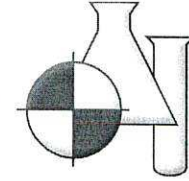
*11:02*

Released By

Received By

Date

# BENCHMARK



NELAP Certification #E84167

EnviroAnalytical, Inc.

## ANALYTICAL TEST REPORT THESE RESULTS MEET NELAP STANDARDS

Submission Number : 22080198

Mosaic Fertilizer, L L C  
13830 Circa Crossing Drive  
Lithia, FL 33547

Project Name : FORT LONESOME OUTFALLS - D-002 Q  
Project ID : S208016  
Date Received : 08/03/2022  
Time Received : 14:56

Joshua Lipham

|                    |            |                     |            |
|--------------------|------------|---------------------|------------|
| Submission Number: | 22080198   | Sample Point:       | 007002     |
| Sample Number:     | 001        | Sample ID:          | S208016-01 |
| Sample Date:       | 08/02/2022 | Sample Description: | MLS D-002  |
| Sample Time:       | 11:01      | Sample Method:      | Grab       |

| Parameter    | Result | Units | MDL  | PQL  | Procedure | Analysis Date/Time | Analyst |
|--------------|--------|-------|------|------|-----------|--------------------|---------|
| OIL & GREASE | 1.37 U | MG/L  | 1.37 | 5.48 | 1664A     | 08/09/2022 13:21   | PN      |

Dale D. Dixon / Laboratory Director

08/19/2022

Date

Haley Richardson / QA Officer

Tülay Tannrisever / QC Officer

### DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.  
B = Results based upon colony counts outside the ideal range.  
H = Value based on field kit determination. Results may not be accurate.  
I = Reported value is between the laboratory MDL and the PQL.  
J1 = Estimated value. Surrogate recovery limits exceeded.  
J2 = Estimated value. No quality control criteria exists for component.  
J3 = Estimated value. Quality control criteria for precision or accuracy not met.  
J4 = Estimated value. Sample matrix interference suspected.  
J5 = Estimated value. Data questionable due to improper lab or field protocols.  
K = Off-scale low. Value is known to be < the value reported.  
L = Off-scale high. Value is known to be > the value reported.  
N = Presumptive evidence of presence of material.  
O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.  
T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.  
U = Analyte analyzed but not detected at the value indicated.  
V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.  
Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.  
Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.  
! = Data deviate from historically established concentration ranges.  
? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.  
\* = Not reported due to interference.  
Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

### NOTES:

PQL = 4xMDL.  
MBAS calculated as LAS; molecular weight = 340.  
ND = Not detected at or above the adjusted reporting limit.  
X = Value exceeds MCL.

### COMMENTS:

The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

SUBCONTRACT ORDER  
Mosaic Fertilizer, LLC Environmental Laboratory



Fort Lonesome  
Outfalls - D-002 Quarterly

S208016

SENDING LABORATORY:

Mosaic Fertilizer, LLC Environmental Laboratory  
7450 CR 630 Building 1  
Mulberry, FL 33865  
Phone: 863-428-2764  
Project Manager: Joshua Lipham

RECEIVING LABORATORY:

Benchmark Analytical  
1711 12th St. E.  
Palmetto, FL 34221  
Phone :(941) 723-9986

Sub Lab ID

Sample ID: S208016-01 007002

MLS D-002

Water Sampled: 08/02/22 11:01

220801981

Oil & Grease, EPA 1664A

Sample Receipt Temp. 0.4 °C

Thermometer ID: 258

pH < 2 ✓ Init. AK

Containers:

1

*Joshua Lipham*  
Released By

*Patricia D. ...*  
Received By

8-3-22

1353

Date

*Patricia D. ...*  
Released By

*Karen M. ...*  
Received By

ASA

8/3/22 1456

Date