

**FINAL**

## **ANALYTICAL REPORT**

**ETL PROJECT ID: 17-0222**

**2/1/2017 - Revision 0**

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**CLIENT PROJECT NAME: CITY OF RAY CITY  
CLIENT PROJECT ID:  
FACILITY ID:**

Enclosed are the analytical results for sample(s) received by Environmental Testing Laboratories on January 19, 2017. Results reported herein are reported on an as received basis and conform to current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Sample analyses performed by Environmental Testing Laboratories, Inc. (ETL) unless otherwise noted. ETL is accredited through NELAC and the Florida Department of Health, Certification #E87684. Scope of analyses: RCRA/CERCLA Metals, General Chemistry, Extractable Organics, and Volatile Organics. Effective Dates: February 14, 2002 through June 30, 2017.

This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc. This report has been signed and authorized by the signatory using an electronic signature and is intended to be the legally binding equivalent of a traditionally handwritten signature.

Authorized for release by:



**ENVIRONMENTAL TESTING LABORATORIES INC**

412 W. Walcott Street | Thomasville, GA 31792 | Phone: (229)-228-2592 | Fax: (229)-228-2594

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## Laboratory Qualifiers

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- ! Data deviate from historically established concentration ranges.
- # Surrogate compound inadvertently omitted.
- \$ Due to dilution, surrogate compound was not detected.
- \* Not reported due to interference
- ? Data are rejected as should not be used.
- A Value reported is the arithmetic mean (average) of two or more determinations.
- B Results based upon colony counts outside the acceptable range.
- D Measurement made in the field.
- E Extra samples were taken at composite stations.
- F When reporting species, F indicates the female sex.
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value.
- K Off-scale low. Actual value is known to be less than the value given.
- L Off-scale high. Actual value is known to be greater than the value given.
- M Presence of material is verified but not quantified; the actual value is less than the value given.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed.
- Q Sample held beyond the accepted holding time.
- R Significant rain in the past 48 hours.
- S1 Surrogate recovery reported is outside of laboratory established QA/QC Limits
- S2 Analyte recovery reported is outside of laboratory established QA/QC Limits
- S3 Analyte precision reported is outside of laboratory established QA/QC Limits
- T Value reported is less than the laboratory method detection limit.
- U Compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y Laboratory analysis was from an improperly preserved sample. Data may not be accurate.
- Z Too many colonies were present; numeric value represents the filtration volume.

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## Project Narrative

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Environmental Testing Laboratories, Inc. is accredited through NELAC and the Florida Department of Health.



Solid samples are reported on a dry weight basis unless otherwise noted.



Please refer to Section 4.0 of the ETL Quality Assurance Manual for a measure of uncertainty.



All analyses are performed using EPA or FL-DEP methods and certified to meet NELAC requirements, except where noted.



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# Analytical Method Summary

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E87684      Environmental Testing Laboratories Inc.  
412 W. Walcott Street, Thomasville, GA 31792  
(229) 228-2592

EPA 1664 A  
EPA 350.1  
EPA 351.2  
EPA 353.2 (Nitrate-Nitrite (N))  
EPA 365.1 (Phosphorus -Total)  
SM18 2540 C  
Total Nitrogen

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# Sample Summary

| Laboratory<br>Sample ID | Client Sample ID | Matrix             | End Date / Time Sampled |      | Grab /<br>Composite | Percent<br>Moisture |
|-------------------------|------------------|--------------------|-------------------------|------|---------------------|---------------------|
| 208001                  | EFF              | AQUEOUS-Wastewater | 1/19/2017               | 7:30 | G                   |                     |
| 208002                  | EFF              | AQUEOUS-Wastewater | 1/19/2017               | 7:30 | G                   |                     |
| 208003                  | EFF              | AQUEOUS-Wastewater | 1/19/2017               | 7:30 | G                   |                     |

# Executive Summary

| Analyte                    | Analytical Method               | Result | Units | Qualifiers | Result Comments |
|----------------------------|---------------------------------|--------|-------|------------|-----------------|
| EFF (208002)               |                                 |        |       |            |                 |
| Residues- Filterable (TDS) | SM18 2540 C                     | 240    | mg/L  |            |                 |
| EFF (208003)               |                                 |        |       |            |                 |
| Nitrogen- Total Kjeldahl   | EPA 351.2                       | 8.6    | mg/L  |            |                 |
| Nitrogen- Total            | Total Nitrogen                  | 10     | mg/L  |            |                 |
| Nitrate-Nitrite (N)        | EPA 353.2 (Nitrate-Nitrite (N)) | 1.6    | mg/L  |            |                 |
| Phosphorus- Total          | EPA 365.1 (Phosphorus -Total)   | 2.2    | mg/L  |            |                 |
| Ammonia (N)                | EPA 350.1                       | 6.3    | mg/L  |            |                 |



# Analytical Data

Client Sample ID: EFF

Laboratory Sample ID: 208001

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 01/19/2017 07:30 AM

Percent Moisture:

General Chemistry

| Analyte      | DF  | Result | Qualifier | Units | MDL | PQL | Analysis Date        |
|--------------|-----|--------|-----------|-------|-----|-----|----------------------|
| Oil & Grease | 1.0 | 1.4    | U         | mg/L  | 1.4 | 2.0 | 1/26/2017 9:00:00 AM |





# Analytical Data

Client Sample ID: EFF  
Sample Location:  
Date Collected: 01/19/2017 07:30 AM

Laboratory Sample ID: 208002  
Matrix: AQUEOUS-Wastewater  
Percent Moisture:

General Chemistry

| Analyte                    | DF  | Result | Qualifier | Units | MDL | PQL | Analysis Date         |
|----------------------------|-----|--------|-----------|-------|-----|-----|-----------------------|
| Residues- Filterable (TDS) | 1.0 | 240    |           | mg/L  | 13  | 20  | 1/24/2017 10:00:00 AM |

## Analytical Data

Client Sample ID: EFF

Laboratory Sample ID: 208003

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 01/19/2017 07:30 AM

Percent Moisture:

### General Chemistry

| Analyte                  | DF  | Result | Qualifier | Units | MDL   | PQL   | Analysis Date         |
|--------------------------|-----|--------|-----------|-------|-------|-------|-----------------------|
| Ammonia (N)              | 5.0 | 6.3    |           | mg/L  | 0.90  | 1.5   | 2/1/2017 11:00:00 AM  |
| Nitrate-Nitrite (N)      | 1.0 | 1.6    |           | mg/L  | 0.042 | 0.050 | 1/23/2017 11:18:00 AM |
| Nitrogen- Total          | 1.0 | 10     |           | mg/L  | 0.10  | 0.20  | 1/23/2017 11:18:00 AM |
| Nitrogen- Total Kjeldahl | 1.0 | 8.6    |           | mg/L  | 0.24  | 0.50  | 1/21/2017 11:18:00 AM |
| Phosphorus- Total        | 1.0 | 2.2    |           | mg/L  | 0.023 | 0.050 | 1/24/2017 11:33:00 AM |

PQL: Practical Quantitation Limit

MDL: Method Detection Limit

DF: Dilution Factor



## Data Chronicle

Client Sample ID: EFF

Laboratory Sample ID: 208001

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 01/19/2017 07:30 AM

Percent Moisture:

| Prep | Analysis | Analytical Method | Dilution | Batch     | Prepared             | Analyzed             | Analyst | Lab    |
|------|----------|-------------------|----------|-----------|----------------------|----------------------|---------|--------|
| TOT  | RES      | EPA 1664 A        | 1.0      | OGA012617 | 1/26/2017 9:00:00 AM | 1/26/2017 9:00:00 AM | DG      | E87684 |

Client Sample ID: EFF

Laboratory Sample ID: 208002

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 01/19/2017 07:30 AM

Percent Moisture:

| Prep | Analysis | Analytical Method | Dilution | Batch     | Prepared              | Analyzed              | Analyst | Lab    |
|------|----------|-------------------|----------|-----------|-----------------------|-----------------------|---------|--------|
| TOT  | RES      | SM18 2540 C       | 1.0      | TDS012417 | 1/24/2017 10:00:00 AM | 1/24/2017 10:00:00 AM | JE      | E87684 |

Client Sample ID: EFF

Laboratory Sample ID: 208003

Sample Location:

Matrix: AQUEOUS-Wastewater

Date Collected: 01/19/2017 07:30 AM

Percent Moisture:

| Prep | Analysis | Analytical Method               | Dilution | Batch       | Prepared              | Analyzed              | Analyst | Lab    |
|------|----------|---------------------------------|----------|-------------|-----------------------|-----------------------|---------|--------|
| TOT  | RES      | EPA 350.1                       | 5.0      | 020117ANH3  | 1/31/2017 1:56:00 PM  | 2/1/2017 11:00:00 AM  | GG      | E87684 |
| TOT  | RES      | EPA 351.2                       | 1.0      | 012117BTKN  | 1/20/2017 12:07:00 PM | 1/21/2017 11:18:00 AM | GG      | E87684 |
| TOT  | RES      | EPA 353.2 (Nitrate-Nitrite (N)) | 1.0      | 012317BNO23 | 1/23/2017 11:18:00 AM | 1/23/2017 11:18:00 AM | GG      | E87684 |
| TOT  | RES      | EPA 365.1 (Phosphorus -Total)   | 1.0      | 012417BTP   | 1/20/2017 12:09:00 PM | 1/24/2017 11:33:00 AM | GG      | E87684 |
| TOT  | RES      | Total Nitrogen                  | 1.0      | TN012317    | 1/23/2017 11:18:00 AM | 1/23/2017 11:18:00 AM | CALC    | E87684 |

## QUALITY ASSURANCE / QUALITY CONTROL DATA

J

|                                  |      |                               |        |                            |                                  |              |       |                                      |   |                  |      |             |
|----------------------------------|------|-------------------------------|--------|----------------------------|----------------------------------|--------------|-------|--------------------------------------|---|------------------|------|-------------|
| Preparation Batch ID: 012117BTKN |      |                               |        | Analysis Method: EPA 351.2 |                                  |              |       | Preparation Type: 351.2              |   |                  |      |             |
| Method Batch ID: M012117BTKN     |      |                               |        | Preparation Date:          |                                  |              |       |                                      |   |                  |      |             |
| Analyte                          | MDL  | PQL                           | Result | Qual                       | Units                            | Spike Amount | % REC | % REC Low Limit                      | - | % REC High Limit | %RPD | % RPD Limit |
| QA/QC Type: MB                   |      | Lab Sample ID: 012117BTKNMB   |        |                            | Client Sample ID: 012117BTKNMB   |              |       | Date Analyzed: 1/21/2017 10:53:00 AM |   |                  |      |             |
| Nitrogen- Total Kjeldahl         | 0.24 | 0.50                          | 0.24   | U                          | mg/L                             |              |       |                                      |   |                  |      |             |
| QA/QC Type: LCS                  |      | Lab Sample ID: 012117BTKNLCS  |        |                            | Client Sample ID: 012117BTKNLCS  |              |       | Date Analyzed: 1/21/2017 10:46:00 AM |   |                  |      |             |
| Nitrogen- Total Kjeldahl         | 0.24 | 0.50                          | 4.26   |                            | mg/L                             | 4.50         | 94.7  | 90                                   | - | 110              |      |             |
| QA/QC Type: LCSD                 |      | Lab Sample ID: 012117BTKNLCSD |        |                            | Client Sample ID: 012117BTKNLCSD |              |       | Date Analyzed: 1/21/2017 10:48:00 AM |   |                  |      |             |
| Nitrogen- Total Kjeldahl         | 0.24 | 0.50                          | 4.29   |                            | mg/L                             | 4.50         | 95.3  | 90                                   | - | 110              | 0.70 | 20          |
| QA/QC Type: MS                   |      | Lab Sample ID: 012117BTKNMS   |        |                            | Client Sample ID: 207934MS       |              |       | Date Analyzed: 1/21/2017 11:01:00 AM |   |                  |      |             |
| Nitrogen- Total Kjeldahl         | 0.24 | 0.50                          | 5.86   |                            | mg/L                             | 5.00         | 104   | 90                                   | - | 110              |      |             |
| QA/QC Type: MSD                  |      | Lab Sample ID: 012117BTKNMSD  |        |                            | Client Sample ID: 207934MSD      |              |       | Date Analyzed: 1/21/2017 11:02:00 AM |   |                  |      |             |
| Nitrogen- Total Kjeldahl         | 0.24 | 0.50                          | 5.86   |                            | mg/L                             | 5.00         | 104   | 90                                   | - | 110              | 0    | 20          |
| QA/QC Type: DUP                  |      | Lab Sample ID: 012117BTKNDUP  |        |                            | Client Sample ID: 207934DUP      |              |       | Date Analyzed: 1/21/2017 11:00:00 AM |   |                  |      |             |
| Nitrogen- Total Kjeldahl         | 0.24 | 0.50                          | 0.64   |                            | mg/L                             |              |       |                                      |   |                  | 0    | 20          |

### Comments:

|                                   |       |                                |        |  |                                   |              |       |   |   |                  |      |             |
|-----------------------------------|-------|--------------------------------|--------|--|-----------------------------------|--------------|-------|---|---|------------------|------|-------------|
| Preparation Batch ID: 012317BNO23 |       |                                |        | Analysis Method: EPA 353.2 (Nitrate (N)) |                                   |              |       | Preparation Type: Gen Prep              |   |                  |      |             |
| Method Batch ID: M012317BNO23     |       |                                |        |  |                                   |              |       | Preparation Date: 1/23/2017 11:03:00 AM |   |                  |      |             |
| Analyte                           | MDL   | PQL                            | Result | Qual                                     | Units                             | Spike Amount | % REC | % REC Low Limit                         | - | % REC High Limit | %RPD | % RPD Limit |
| QA/QC Type: MB                    |       | Lab Sample ID: 012317BNO23MB   |        |  | Client Sample ID: 012317BNO23MB   |              |       | Date Analyzed: 1/23/2017 11:03:00 AM    |   |                  |      |             |
| Nitrate (N)                       | 0.042 | 0.050                          | 0.042  | U  | mg/L                              |              |       |   |   |                  |      |             |
| Nitrate-Nitrite (N)               | 0.042 | 0.050                          | 0.042  | U  | mg/L                              |              |       |   |   |                  |      |             |
| QA/QC Type: LCS                   |       | Lab Sample ID: 012317BNO23LCS  |        |  | Client Sample ID: 012317BNO23LCS  |              |       | Date Analyzed: 1/23/2017 10:57:00 AM    |   |                  |      |             |
| Nitrate-Nitrite (N)               | 0.042 | 0.050                          | 2.04   |  | mg/L                              | 2.04         | 100   | 90                                      | - | 110              |      |             |
| Nitrate (N)                       | 0.042 | 0.050                          | 2.04   |  | mg/L                              | 2.04         | 100   | 90                                      | - | 110              |      |             |
| QA/QC Type: LCSD                  |       | Lab Sample ID: 012317BNO23LCSD |        |  | Client Sample ID: 012317BNO23LCSD |              |       | Date Analyzed: 1/23/2017 10:58:00 AM    |   |                  |      |             |

## QUALITY ASSURANCE / QUALITY CONTROL DATA

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Preparation Batch ID: 012317BNO23  
Method Batch ID: M012317BNO23

Analysis Method: EPA 353.2 (Nitrate (N))

Preparation Type: Gen Prep

Preparation Date: 1/23/2017 11:03:00 AM

| Analyte   | MDL   | PQL   | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---|-------|-------|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|
| QA/QC Type: LCSD      Lab Sample ID: 012317BNO23LCSD      Client Sample ID: 012317BNO23LCSD      Date Analyzed: 1/23/2017 10:58:00 AM |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Nitrate-Nitrite (N)   | 0.042 | 0.050 | 1.98   |      | mg/L  | 2.04         | 97.1  | 90              | - | 110              | 3.0  | 20          |
| Nitrate (N)   | 0.042 | 0.050 | 1.98   |      | mg/L  | 2.04         | 97.1  | 90              | - | 110              | 3.0  | 20          |
| QA/QC Type: MS      Lab Sample ID: 012317BNO23MS      Client Sample ID: 207955MS      Date Analyzed: 1/23/2017 11:10:00 AM            |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Nitrate (N)   | 0.042 | 0.050 | 1.32   | S2   | mg/L  | 1.00         | 111   | 90              | - | 110              |      |             |
| QA/QC Type: MSD      Lab Sample ID: 012317BNO23MSD      Client Sample ID: 207955MSD      Date Analyzed: 1/23/2017 11:11:00 AM         |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Nitrate (N)   | 0.042 | 0.050 | 1.32   | S2   | mg/L  | 1.00         | 111   | 90              | - | 110              | 0    | 20          |
| QA/QC Type: DUP      Lab Sample ID: 012317BNO23DUP      Client Sample ID: 207955DUP      Date Analyzed: 1/23/2017 11:09:00 AM         |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Nitrate-Nitrite (N)   | 0.042 | 0.050 | 0.24   |      | mg/L  |              |       |                 |   |                  |      | 20          |
| Nitrate (N)   | 0.042 | 0.050 | 0.24   |      | mg/L  |              |       |                 |   |                  | 13   | 20          |

### Comments:

Preparation Batch ID: 012417BTP  
Method Batch ID: M012417BTP

Analysis Method: EPA 365.1 (Phosphorus -Total)

Preparation Type: 365.1

Preparation Date:

| Analyte   | MDL   | PQL   | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---|-------|-------|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|
| QA/QC Type: MB      Lab Sample ID: 012417BTPMB      Client Sample ID: 012417BTPMB      Date Analyzed: 1/24/2017 11:06:00 AM       |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Phosphorus- Total   | 0.023 | 0.050 | 0.023  | U    | mg/L  |              |       |                 |   |                  |      |             |
| QA/QC Type: LCS      Lab Sample ID: 012417BTPLCS      Client Sample ID: 012417BTPLCS      Date Analyzed: 1/24/2017 10:59:00 AM    |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Phosphorus- Total   | 0.023 | 0.050 | 2.36   |      | mg/L  | 2.35         | 100   | 90              | - | 110              |      |             |
| QA/QC Type: LCSD      Lab Sample ID: 012417BTPLCSD      Client Sample ID: 012417BTPLCSD      Date Analyzed: 1/24/2017 11:00:00 AM |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Phosphorus- Total   | 0.023 | 0.050 | 2.38   |      | mg/L  | 2.35         | 101   | 90              | - | 110              | 0.84 | 20          |
| QA/QC Type: MS      Lab Sample ID: 012417BTPMS      Client Sample ID: 207997MS      Date Analyzed: 1/24/2017 11:16:00 AM          |       |       |        |      |       |              |       |                 |   |                  |      |             |
| Phosphorus- Total   | 0.023 | 0.050 | 1.52   |      | mg/L  | 1.00         | 104   | 90              | - | 110              |      |             |
| QA/QC Type: MSD      Lab Sample ID: 012417BTPMSD      Client Sample ID: 207997MSD      Date Analyzed: 1/24/2017 11:18:00 AM       |       |       |        |      |       |              |       |                 |   |                  |      |             |

## QUALITY ASSURANCE / QUALITY CONTROL DATA

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Preparation Batch ID: 012417BTP  
Method Batch ID: M012417BTP

Analysis Method: EPA 365.1 (Phosphorus -Total)

Preparation Type: 365.1  
Preparation Date:

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|

|                   |                             |                             |                                      |
|-------------------|-----------------------------|-----------------------------|--------------------------------------|
| QA/QC Type: MSD   | Lab Sample ID: 012417BTPMSD | Client Sample ID: 207997MSD | Date Analyzed: 1/24/2017 11:18:00 AM |
| Phosphorus- Total | 0.023                       | 0.050                       | 1.53                                 |
|                   |                             | mg/L                        | 1.00                                 |
|                   |                             |                             | 105                                  |
|                   |                             |                             | 90                                   |
|                   |                             |                             | -                                    |
|                   |                             |                             | 110                                  |
|                   |                             |                             | 0.66                                 |
|                   |                             |                             | 20                                   |

|                   |                             |                             |                                      |
|-------------------|-----------------------------|-----------------------------|--------------------------------------|
| QA/QC Type: DUP   | Lab Sample ID: 012417BTPDUP | Client Sample ID: 207997DUP | Date Analyzed: 1/24/2017 11:14:00 AM |
| Phosphorus- Total | 0.023                       | 0.050                       | 0.49                                 |
|                   |                             | mg/L                        |                                      |
|                   |                             |                             |                                      |
|                   |                             |                             |                                      |
|                   |                             |                             |                                      |
|                   |                             |                             |                                      |
|                   |                             |                             | 2.1                                  |
|                   |                             |                             | 20                                   |

### Comments:

Preparation Batch ID: 020117ANH3  
Method Batch ID: M020117ANH3

Analysis Method: EPA 350.1

Preparation Type: Distillation  
Preparation Date:

| Analyte | MDL | PQL | Result | Qual | Units | Spike Amount | % REC | % REC Low Limit | - | % REC High Limit | %RPD | % RPD Limit |
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|
|---------|-----|-----|--------|------|-------|--------------|-------|-----------------|---|------------------|------|-------------|

|                |                             |                                |                                     |
|----------------|-----------------------------|--------------------------------|-------------------------------------|
| QA/QC Type: MB | Lab Sample ID: 020117ANH3MB | Client Sample ID: 020117ANH3MB | Date Analyzed: 2/1/2017 10:05:00 AM |
| Ammonia (N)    | 0.18                        | 0.30                           | 0.18                                |
|                |                             | mg/L                           |                                     |
|                |                             |                                | U                                   |

|                 |                              |                                 |                                    |
|-----------------|------------------------------|---------------------------------|------------------------------------|
| QA/QC Type: LCS | Lab Sample ID: 020117ANH3LCS | Client Sample ID: 020117ANH3LCS | Date Analyzed: 2/1/2017 9:57:00 AM |
| Ammonia (N)     | 0.18                         | 0.30                            | 3.36                               |
|                 |                              | mg/L                            | 3.30                               |
|                 |                              |                                 | 102                                |
|                 |                              |                                 | 90                                 |
|                 |                              |                                 | -                                  |
|                 |                              |                                 | 110                                |

|                  |                               |                                  |                                    |
|------------------|-------------------------------|----------------------------------|------------------------------------|
| QA/QC Type: LCSD | Lab Sample ID: 020117ANH3LCSD | Client Sample ID: 020117ANH3LCSD | Date Analyzed: 2/1/2017 9:59:00 AM |
| Ammonia (N)      | 0.18                          | 0.30                             | 3.44                               |
|                  |                               | mg/L                             | 3.30                               |
|                  |                               |                                  | 104                                |
|                  |                               |                                  | 90                                 |
|                  |                               |                                  | -                                  |
|                  |                               |                                  | 110                                |
|                  |                               |                                  | 2.4                                |
|                  |                               |                                  | 20                                 |

|                |                             |                            |                                     |
|----------------|-----------------------------|----------------------------|-------------------------------------|
| QA/QC Type: MS | Lab Sample ID: 020117ANH3MS | Client Sample ID: 207995MS | Date Analyzed: 2/1/2017 10:14:00 AM |
| Ammonia (N)    | 0.18                        | 0.30                       | 1.29                                |
|                |                             | mg/L                       | 1.00                                |
|                |                             |                            | 101                                 |
|                |                             |                            | 90                                  |
|                |                             |                            | -                                   |
|                |                             |                            | 110                                 |

|                 |                              |                             |                                     |
|-----------------|------------------------------|-----------------------------|-------------------------------------|
| QA/QC Type: MSD | Lab Sample ID: 020117ANH3MSD | Client Sample ID: 207995MSD | Date Analyzed: 2/1/2017 10:15:00 AM |
| Ammonia (N)     | 0.18                         | 0.30                        | 1.29                                |
|                 |                              | mg/L                        | 1.00                                |
|                 |                              |                             | 101                                 |
|                 |                              |                             | 90                                  |
|                 |                              |                             | -                                   |
|                 |                              |                             | 110                                 |
|                 |                              |                             | 0                                   |
|                 |                              |                             | 20                                  |

|                 |                              |                             |                                     |
|-----------------|------------------------------|-----------------------------|-------------------------------------|
| QA/QC Type: DUP | Lab Sample ID: 020117ANH3DUP | Client Sample ID: 207995DUP | Date Analyzed: 2/1/2017 10:12:00 AM |
| Ammonia (N)     | 0.18                         | 0.30                        | 0.27                                |
|                 |                              | mg/L                        |                                     |
|                 |                              |                             |                                     |
|                 |                              |                             |                                     |
|                 |                              |                             |                                     |
|                 |                              |                             |                                     |
|                 |                              |                             | 3.6                                 |
|                 |                              |                             | 20                                  |

### Comments:

## QUALITY ASSURANCE / QUALITY CONTROL DATA



Preparation Batch ID: OGA012617  
Method Batch ID: MOGA012617

Analysis Method: EPA 1664 A

Preparation Type: No Prep  
Preparation Date: 1/26/2017 9:00:00 AM

| Analyte          | MDL | PQL                          | Result | Qual | Units                           | Spike Amount | % REC | % REC Low Limit                     | - | % REC High Limit | %RPD | % RPD Limit |
|------------------|-----|------------------------------|--------|------|---------------------------------|--------------|-------|-------------------------------------|---|------------------|------|-------------|
| QA/QC Type: MB   |     | Lab Sample ID: OGA012617MB   |        |      | Client Sample ID: OGA012617MB   |              |       | Date Analyzed: 1/26/2017 9:00:00 AM |   |                  |      |             |
| Oil & Grease     | 1.4 | 2.0                          | 1.4    | U    | mg/L                            |              |       |                                     |   |                  |      |             |
| QA/QC Type: LCS  |     | Lab Sample ID: OGA012617LCS  |        |      | Client Sample ID: OGA012617LCS  |              |       | Date Analyzed: 1/26/2017 9:00:00 AM |   |                  |      |             |
| Oil & Grease     | 1.4 | 2.0                          | 31.6   |      | mg/L                            | 40.0         | 79.0  | 78                                  | - | 114              |      |             |
| QA/QC Type: LCSD |     | Lab Sample ID: OGA012617LCSD |        |      | Client Sample ID: OGA012617LCSD |              |       | Date Analyzed: 1/26/2017 9:00:00 AM |   |                  |      |             |
| Oil & Grease     | 1.4 | 2.0                          | 31.6   |      | mg/L                            | 40.0         | 79.0  | 78                                  | - | 114              | 0    | 18          |
| QA/QC Type: MS   |     | Lab Sample ID: OGA012617MS   |        |      | Client Sample ID: 207920MS      |              |       | Date Analyzed: 1/26/2017 9:00:00 AM |   |                  |      |             |
| Oil & Grease     | 1.4 | 2.0                          | 33.4   |      | mg/L                            | 40.0         | 78.8  | 78                                  | - | 114              |      |             |
| QA/QC Type: DUP  |     | Lab Sample ID: OGA012617DUP  |        |      | Client Sample ID: 207966DUP     |              |       | Date Analyzed: 1/26/2017 9:00:00 AM |   |                  |      |             |
| Oil & Grease     | 1.4 | 2.0                          | 4.3    | S3   | mg/L                            |              |       |                                     |   |                  | 38   | 18          |

### Comments:

Preparation Batch ID: TDS012417  
Method Batch ID: MTDS012417

Analysis Method: SM18 2540 C

Preparation Type: No Prep  
Preparation Date: 1/24/2017 10:00:00 AM

| Analyte                    | MDL | PQL                          | Result | Qual | Units                           | Spike Amount | % REC | % REC Low Limit                      | - | % REC High Limit | %RPD | % RPD Limit |
|----------------------------|-----|------------------------------|--------|------|---------------------------------|--------------|-------|--------------------------------------|---|------------------|------|-------------|
| QA/QC Type: MB             |     | Lab Sample ID: TDS012417MB   |        |      | Client Sample ID: TDS012417MB   |              |       | Date Analyzed: 1/24/2017 10:00:00 AM |   |                  |      |             |
| Residues- Filterable (TDS) | 13  | 20                           | 13     | U    | mg/L                            |              |       |                                      |   |                  |      |             |
| QA/QC Type: LCS            |     | Lab Sample ID: TDS012417LCS  |        |      | Client Sample ID: TDS012417LCS  |              |       | Date Analyzed: 1/24/2017 10:00:00 AM |   |                  |      |             |
| Residues- Filterable (TDS) | 13  | 20                           | 494    |      | mg/L                            | 500          | 98.8  | 80                                   | - | 120              |      |             |
| QA/QC Type: LCSD           |     | Lab Sample ID: TDS012417LCSD |        |      | Client Sample ID: TDS012417LCSD |              |       | Date Analyzed: 1/24/2017 10:00:00 AM |   |                  |      |             |
| Residues- Filterable (TDS) | 13  | 20                           | 487    |      | mg/L                            | 500          | 97.4  | 80                                   | - | 120              | 1.4  | 20          |
| QA/QC Type: DUP            |     | Lab Sample ID: TDS012417DUP  |        |      | Client Sample ID: 208005DUP     |              |       | Date Analyzed: 1/24/2017 10:00:00 AM |   |                  |      |             |
| Residues- Filterable (TDS) | 26  | 40                           | 430    |      | mg/L                            |              |       |                                      |   |                  | 2.4  | 20          |

Comments:



## Chain of Custody Record

| Company: <b>City of Ray City</b>   |              |             |            |   |                    | Environmental Testing Laboratories, Inc.<br>412 W. Walcott Street<br>Thomasville, GA 31792-4359<br>229/228-2592 (telephone)<br>229/228-2594 (telefax) |            |  |                    |          |             | Page <b>1</b> of <b>1</b>                 |                           |  |  |                           |         |               |  |
|--|--------------|-------------|------------|---|--------------------|---|------------|--|--------------------|----------|-------------|---|---------------------------|--|--|---------------------------|---------|---------------|--|
| Address: <b>P.O. Box 1063 Nashville GA 31639</b>                                   |              |             |            |   |                    | <b>ETL</b><br><small>ENVIRONMENTAL TESTING LABORATORIES, INC.</small><br><b>www.etl-inc.com</b>   |            |  |                    |          |             | Project Name: <b>City of Ray City</b>     |                           |  |  |                           |         |               |  |
| Telephone Number:  |              |             |            |   |                    | Telefax Number:   |            |  |                    |          |             | Project Number:                           |                           |  |  |                           |         |               |  |
| Sampled by [Print Name(s)] / Affiliation<br><b>Brandon Rice 539 6976</b>           |              |             |            |   |                    | Analyses Requested  |            |  |                    |          |             | Project Manager:                          |                           |  |  |                           |         |               |  |
| Sampler(s) Signature(s)<br><b>[Signature]</b>                                      |              |             |            |   |                    |   |            |  |                    |          |             | Facility ID Number:                       |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             | REQUESTED DUE DATE<br><b>/ /</b>          |                           |  |  |                           |         |               |  |
| Item No.   | Field ID No. | Sample      |            | Grab or Composite   | Matrix (see Codes) | Number of Containers  | Oil/Grease | TDS  | TP NH <sub>3</sub> | TKW      | Nitrate + N |   |                           |  |  |                           | Remarks | Lab Number    |  |
|  |              | Date        | Time       |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
| <b>1</b>   | <b>EFF</b>   | <b>1/19</b> | <b>730</b> | <b>G</b>  | <b>WW</b>          | <b>2</b>  | <b>✓</b>   | <b>✓</b>   | <b>•</b>           | <b>•</b> | <b>•</b>    |   |                           |  |  |                           |         | <b>208001</b> |  |
| <b>2</b>   | <b>EFF</b>   | <b>1/19</b> | <b>730</b> | <b>G</b>  | <b>WW</b>          | <b>1</b>  |            | <b>✓</b>   | <b>•</b>           | <b>•</b> | <b>•</b>    |   |                           |  |  |                           |         | <b>↓ 002</b>  |  |
| <b>3</b>   | <b>EFF</b>   | <b>1/19</b> | <b>730</b> | <b>G</b>  | <b>WW</b>          | <b>1</b>  |            |  | <b>✓</b>           | <b>✓</b> | <b>✓</b>    |   |                           |  |  |                           |         | <b>↓ 003</b>  |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
|  |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
| Shipment Method  |              |             |            | Total Number of Containers <b>4</b>   |                    |   |            | Preservatives (see Codes) ICE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                    |          |             |   |                           |  |  |                           |         |               |  |
| Out:   | <b>/ /</b>   | Via:        | Item No.   |   |                    | Relinquished by / Affiliation   |            |  | Date               |          | Time        |   | Accepted by / Affiliation |  |  | Date                      |         | Time          |  |
| Returned:  | <b>/ /</b>   | Via:        | <b>BZ</b>  |   |                    |   |            |  | <b>1/19/17</b>     |          | <b>830</b>  |   | <b>[Signature]</b>        |  |  | <b>1/19/17</b>            |         | <b>830</b>    |  |
| Additional Comments:<br><b>DO 7.4 mg/L</b><br><b>12°C</b><br><b>7.6 pH 0.0 TRC</b> |              |             |            | Cooler Number(s) / Temperature(s) (°C)<br><b>on ice @ 3.5°C</b>   |                    |   |            | Sampling Kit Number  |                    |          |             | Received in Lab By:<br><b>[Signature]</b> |                           |  |  | <b>1-19-17 1255</b>       |         |               |  |
| MATRIX CODES:  |              |             |            | A = Air   GW = Groundwater   SE = Sediment   SO = Soil   SW = Surface Water   WW = Wastewater   O = Other (specify) |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
| PRESERVATIVE CODES:  |              |             |            | H = Hydrochloric acid   S = Sulfuric acid   N = Nitric   Na = Sodium Hydroxide   O = Other (specify)                |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
| PRESERVATIVE CODES:  |              |             |            | SOIL VOCS   MS = Methanol / Sodium Bisulfate   MD = Methanol / DI Water   |                    |   |            |  |                    |          |             |   |                           |  |  |                           |         |               |  |
| ETL PROJECT NO. <b>17-0222</b>   |              |             |            |   |                    |   |            |  |                    |          |             |   |                           |  |  | Page <b>2</b> of <b>2</b> |         |               |  |



ENVIRONMENTAL TESTING LABORATORIES, INC.

## Project Receipt Summary

17-0222

### Project Details

Client: SOUTHLAND COMPLIANCE SERVICES

Project Name: CITY OF RAY CITY

### Shipping and Receiving

Date/Time Received: 1/19/2017 12:55:00 PM If present, were cooler custody seals intact?

Sampling Personnel: BRABNDON RICE ☐ Yes ☐ No ☒ N/A

Shipping Method: Laboratory Courier If present, were sample bottle custody seals intact

Shipping Tracking Number: ☐ Yes ☐ No ☒ N/A

### Thermal Preservation

Cooler Temp Method: Sample Temperature Were cooler temperatures in compliance? (0.1-6.0C)

Thermometer ID: 160372413 ☒ Yes ☐ No ☐ N/A

Number of Coolers: 1 Cooler Temperatures: 3.5

### Chain of Custody

Was the chain-of-custody received in coolers? ☒ Yes ☐ No ☐ N/A

Was the chain-of-custody signed and properly relinquished? ☒ Yes ☐ No ☐ N/A

Does the chain-of-custody agree with samples and analyses? ☒ Yes ☐ No ☐ N/A

### Container Receipt

Were samples received in appropriate bottleware for analyses? ☒ Yes ☐ No ☐ N/A

Was sufficient volume submitted for analyses requested? ☒ Yes ☐ No ☐ N/A

Were samples received within method holding times? ☒ Yes ☐ No ☐ N/A

Were VOA vials received with zero headspace? ☐ Yes ☐ No ☒ N/A

Were aqueous samples received at an acceptable pH? ☒ Yes ☐ No ☐ N/A

pH Test Strip Lot: HC689794

### Comments

I certify I have answered the questions contained herein to the best of my knowledge and have affixed labels with unique IDs onto each sample container received. I certify any discrepancies regarding the samples as received by the laboratory have been documented completely in the comments section of this form.

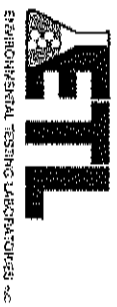
Dillian Gilliard

## Project Receipt Summary

**17-0222**

### Project Sample Detail

| Lab Sample ID                  | Client Sample ID | Matrix                    | TRPH                     | MaVPH                    | SPLP                     | Speciation | MaEPH |
|--------------------------------|------------------|---------------------------|--------------------------|--------------------------|--------------------------|------------|-------|
| <b>208001</b>                  | <b>EFF</b>       | <b>AQUEOUS-Wastewater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |            |       |
| 208001-E1 (Oil & Grease)       |                  |                           |                          |                          |                          |            |       |
| 208001-E2 (Oil & Grease)       |                  |                           |                          |                          |                          |            |       |
| <b>208002</b>                  | <b>EFF</b>       | <b>AQUEOUS-Wastewater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |            |       |
| 208002-E1 (TDS)                |                  |                           |                          |                          |                          |            |       |
| <b>208003</b>                  | <b>EFF</b>       | <b>AQUEOUS-Wastewater</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |            |       |
| 208003-E1 (NO2+NO3/TKN/TP/NH3) |                  |                           |                          |                          |                          |            |       |



Project Receipt Summary

17-0222

Project Bottle Count Summary

| Container Type  | Preservative | Number of Containers |
|-----------------|--------------|----------------------|
| 1-L Amber Glass | HCL          | 2                    |
| HDPE Plastic    | H2SO4        | 1                    |
| HDPE Plastic    | NONE         | 1                    |
| Total           |              | 4                    |