



P.O. Box 1089 Coldspring Tx 77331  
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January 24, 2020

Texas A&M Agrilife  
Texas A and M AgriLife  
1335 Regents Park Dr. Ste. 260  
Houston, TX 77058

**TX A and M Community Stormwater**

Enclosed are the results of analyses for samples received by the laboratory on 01/11/20 11:46, with Lab ID Number C0A2408. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Mark Bourgeois". The signature is written in black ink and is positioned above a solid black horizontal line.

Mark Bourgeois  
Special Projects Manager



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 Houston TX, 77058

**LABORATORY ANALYTICAL REPORT**

Project: TX A and M Community Stormwater  
 Sample Matrix: Water  
 Client Matrix: Water

Sample Date & Time: 01/11/2020 07:43  
 Collector: CT  
 Sample Type: Grab  
 Print Date: 1/24/2020

**EGI 202-3  
 C0A2408-01 (Water)**

| Analyte                           | Result | Reporting Limit | Units     | Nelac Status | Batch   | Analyzed Date & Time | Method        | Notes |
|-----------------------------------|--------|-----------------|-----------|--------------|---------|----------------------|---------------|-------|
| <b><u>Metals</u></b>              |        |                 |           |              |         |                      |               |       |
| Total Phosphorus                  | 0.118  | 0.0600          | mg/L      | A            | B0A2562 | 01/22/2020 15:53     | EPA 200.7     |       |
| <b><u>Microbiological Lab</u></b> |        |                 |           |              |         |                      |               |       |
| E coli IDEXX                      | 24200  | 10              | mpn/100ml | A            | B0A1514 | 01/11/2020 12:26     | Colilert 18   | 15    |
| <b><u>Wet Lab</u></b>             |        |                 |           |              |         |                      |               |       |
| Ammonia as N                      | 0.1    | 0.1             | mg/L      | A            | B0A1496 | 01/13/2020 17:36     | SM 4500 NH3 G |       |
| Nitrate+Nitrite as N              | 0.23   | 0.02            | mg/L      | A            | B0A1546 | 01/14/2020 10:00     | SM 4500 NO3 F |       |
| TSS                               | 23.2   | 1.0             | mg/L      | A            | B0A1505 | 01/13/2020 17:45     | SM 2540 D     |       |



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**SM 4500 NH3 G - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

| Analyte                              | Result | Reporting Limit | Units     | Spike Level  | Source Result | %REC   | %REC Limits | RPD  | RPD Limit | Notes |
|--------------------------------------|--------|-----------------|-----------|--|---------------|--|-------------|------|-----------|-------|
| <b>Batch B0A1496 - No Prep</b>       |        |                 |           |  |               |  |             |      |           |       |
| <b>Blank (B0A1496-BLK1)</b>          |        |                 |           | <b>Prepared &amp; Analyzed: 1/13/2020 5:10:00PM</b>  |               |  |             |      |           |       |
| Ammonia as N                         | ND     | 0.1             | mg/L      |  |               |  |             |      |           |       |
| <b>LCS (B0A1496-BS1)</b>             |        |                 |           | <b>Prepared &amp; Analyzed: 1/14/2020 7:41:00AM</b>  |               |  |             |      |           |       |
| Ammonia as N                         | 1.98   |                 | mg/L      | 2.00   |               | 99.0   | 90-110      |      |           |       |
| <b>LCS Dup (B0A1496-BSD1)</b>        |        |                 |           | <b>Prepared &amp; Analyzed: 1/14/2020 7:39:00AM</b>  |               |  |             |      |           |       |
| Ammonia as N                         | 2.03   |                 | mg/L      | 2.00   |               | 101  | 90-110      | 2.35 | 20        |       |
| <b>MRL Check (B0A1496-MRL1)</b>      |        |                 |           | <b>Prepared &amp; Analyzed: 1/13/2020 5:12:00PM</b>  |               |  |             |      |           |       |
| Ammonia as N                         | 0.118  |                 | mg/L      | 0.100  |               | 118  | 0-200       |      |           |       |
| <b>Matrix Spike (B0A1496-MS1)</b>    |        |                 |           | <b>Source: C0A2069-01</b>                            |               | <b>Prepared &amp; Analyzed: 1/13/2020 5:14:00PM</b>  |             |      |           |       |
| Ammonia as N                         | 2.6    | 0.1             | mg/L      | 2.50   | ND            | 104  | 80-120      |      |           |       |
| <b>Batch B0A1505 - No Prep</b>       |        |                 |           |  |               |  |             |      |           |       |
| <b>Blank (B0A1505-BLK1)</b>          |        |                 |           | <b>Prepared &amp; Analyzed: 1/13/2020 5:45:00PM</b>  |               |  |             |      |           |       |
| TSS                                  | ND     | 1.0             | mg/L      |  |               |  |             |      |           |       |
| <b>Duplicate (B0A1505-DUP1)</b>      |        |                 |           | <b>Source: C0A2080-01</b>                            |               | <b>Prepared &amp; Analyzed: 1/13/2020 5:45:00PM</b>  |             |      |           |       |
| TSS                                  | 214    | 1.0             | mg/L      |  | 214           |  |             | 0.00 | 10        |       |
| <b>Batch B0A1514 - No Prep Micro</b> |        |                 |           |  |               |  |             |      |           |       |
| <b>Blank (B0A1514-BLK1)</b>          |        |                 |           | <b>Prepared &amp; Analyzed: 1/11/2020 12:26:00PM</b> |               |  |             |      |           |       |
| E coli IDEXX                         | ND     | 1               | mpn/100ml |  |               |  |             |      |           | 15    |
| <b>Duplicate (B0A1514-DUP1)</b>      |        |                 |           | <b>Source: C0A2410-01</b>                            |               | <b>Prepared &amp; Analyzed: 1/11/2020 12:26:00PM</b> |             |      |           |       |
| E coli IDEXX                         | ND     | 10              | mpn/100ml |  | 63            |  |             |      | 200       | 15    |
| <b>Batch B0A1546 - No Prep</b>       |        |                 |           |  |               |  |             |      |           |       |
| <b>Blank (B0A1546-BLK1)</b>          |        |                 |           | <b>Prepared &amp; Analyzed: 1/14/2020 10:00:00AM</b> |               |  |             |      |           |       |
| Nitrate+Nitrite as N                 | ND     | 0.02            | mg/L      |  |               |  |             |      |           |       |
| <b>LCS (B0A1546-BS1)</b>             |        |                 |           | <b>Prepared &amp; Analyzed: 1/14/2020 10:00:00AM</b> |               |  |             |      |           |       |
| Nitrate+Nitrite as N                 | 1.09   |                 | mg/L      | 1.00   |               | 109  | 90-110      |      |           |       |
| <b>LCS Dup (B0A1546-BSD1)</b>        |        |                 |           | <b>Prepared &amp; Analyzed: 1/14/2020 10:00:00AM</b> |               |  |             |      |           |       |
| Nitrate+Nitrite as N                 | 1.11   |                 | mg/L      | 1.00   |               | 111  | 90-110      | 1.82 | 20        |       |

Eastex Environmental Laboratory - Coldspring

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

\*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved



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**SM 4500 NO3 F - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

| Analyte                           | Result  | Reporting Limit | Units | Spike Level | Source Result   | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|-----------------------------------|---------|-----------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B0A1546 - No Prep</b>    |         |                 |       |             |   |      |             |      |           |       |
| <b>MRL Check (B0A1546-MRL1)</b>   |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/14/2020 10:00:00AM</b>                    |      |             |      |           |       |
| Nitrate+Nitrite as N              | 0.0150  |                 | mg/L  | 0.0200      |   | 75.0 | 0-200       |      |           |       |
| <b>Matrix Spike (B0A1546-MS1)</b> |         |                 |       |             | <b>Source: C0A2070-04 Prepared &amp; Analyzed: 1/14/2020 10:00:00AM</b> |      |             |      |           |       |
| Nitrate+Nitrite as N              | 1.16    | 0.02            | mg/L  | 1.00        | 0.190   | 97.0 | 80-120      |      |           |       |
| <b>Batch B0A2562 - EPA 200.7</b>  |         |                 |       |             |   |      |             |      |           |       |
| <b>Blank (B0A2562-BLK1)</b>       |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 3:06:47PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | ND      | 0.0600          | mg/L  |             |   |      |             |      |           |       |
| <b>Blank (B0A2562-BLK2)</b>       |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 4:11:28PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | ND      | 0.0600          | mg/L  |             |   |      |             |      |           |       |
| <b>Blank (B0A2562-BLK3)</b>       |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 5:22:53PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | ND      | 0.0600          | mg/L  |             |   |      |             |      |           |       |
| <b>LCS (B0A2562-BS1)</b>          |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 3:15:42PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 2.31    | 0.0600          | mg/L  | 2.52        |   | 91.8 | 85-115      |      |           |       |
| <b>LCS (B0A2562-BS2)</b>          |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 4:15:55PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 2.15    | 0.0600          | mg/L  | 2.52        |   | 85.5 | 85-115      |      |           |       |
| <b>LCS (B0A2562-BS3)</b>          |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 5:27:19PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 2.15    | 0.0600          | mg/L  | 2.52        |   | 85.4 | 85-115      |      |           |       |
| <b>LCS Dup (B0A2562-BSD1)</b>     |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 3:11:14PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 2.56    | 0.0600          | mg/L  | 2.52        |   | 102  | 85-115      | 10.2 | 20        |       |
| <b>LCS Dup (B0A2562-BSD2)</b>     |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 4:20:21PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 2.19    | 0.0600          | mg/L  | 2.52        |   | 87.0 | 85-115      | 1.77 | 20        |       |
| <b>LCS Dup (B0A2562-BSD3)</b>     |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 5:31:47PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 2.34    | 0.0600          | mg/L  | 2.52        |   | 93.0 | 85-115      | 8.48 | 20        |       |
| <b>MRL Check (B0A2562-MRL1)</b>   |         |                 |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 3:02:18PM</b>                     |      |             |      |           |       |
| Total Phosphorus                  | 0.00660 |                 | mg/L  | 0.0600      |   | 11.0 | 0-200       |      |           |       |
| <b>Matrix Spike (B0A2562-MS1)</b> |         |                 |       |             | <b>Source: C0A2069-01 Prepared &amp; Analyzed: 1/22/2020 3:24:38PM</b>  |      |             |      |           |       |
| Total Phosphorus                  | 2.44    | 0.0600          | mg/L  | 2.52        | 0.0482  | 95.0 | 70-130      |      |           |       |
| <b>Matrix Spike (B0A2562-MS2)</b> |         |                 |       |             | <b>Source: C0A2410-01 Prepared &amp; Analyzed: 1/22/2020 4:29:15PM</b>  |      |             |      |           |       |

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**EPA 200.7 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

| Analyte                           | Result | Reporting Limit           | Units | Spike Level | Source Result                                       | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B0A2562 - EPA 200.7</b>  |        |                           |       |             |   |      |             |     |           |       |
| <b>Matrix Spike (B0A2562-MS2)</b> |        | <b>Source: C0A2410-01</b> |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 4:29:15PM</b> |      |             |     |           |       |
| Total Phosphorus                  | 2.15   | 0.0600                    | mg/L  | 2.52        | 0.0108  | 85.0 | 70-130      |     |           |       |
| <b>Matrix Spike (B0A2562-MS3)</b> |        | <b>Source: C0A3045-01</b> |       |             | <b>Prepared &amp; Analyzed: 1/22/2020 5:40:46PM</b> |      |             |     |           |       |
| Total Phosphorus                  | 1.98   | 0.0600                    | mg/L  | 2.52        | 0.0624  | 76.1 | 70-130      |     |           |       |



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### Notes and Definitions

- 15 Duplicate precision associated with sample batch outside of acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



**EASTEX ENVIRONMENTAL LABORATORY, INC.**  
 P.O. Box 1089 \* Goldspring, TX 77331 P.O. Box 631375 \* Nacogdoches, TX 75963-1375  
 (936) 553-3249 \* (800) 525-0508 (936) 569-8879 \* FAX (936) 569-8951  
 www.eastexlabs.com

White Copy-Follows Samples  
 Yellow Copy-Laboratory  
 Pink Copy-Client Copy

REPORT TO: Christie Taylor

INVOICE TO: Christie Taylor

Company: TWP Agric Life Ext.

Company: TWP Agric Life Ext

Address: 1335 Regents Park 260

Address: 1335 Regents Park 260

Houston TX 77058

Houston TX 77058

Attn: Christie Taylor

Attn: Christie Taylor

Phone#: 979-399-4009

Phone#: 979-399-4009

Email: ctaylor@tamv.edu

P.O. #:

Sampler's Name (print): Christie Taylor

Sampler's Signature: [Signature]

Project Name: TWP Stormwater Sampling

Work Order ID: 21108

Sample ID: EGI-202-2

Date: 1-11-20

| Time | Matrix | C or G | DO  | pH   | Cl2 | Flow | Temp   | # | Size | Type | Pres | Field Data |  | Containers |
|------|--------|--------|-----|------|-----|------|--------|---|------|------|------|------------|--|------------|
|      |        |        |     |      |     |      |        |   |      |      |      |            |  |            |
| 7:43 | OT     | C      | 8.4 | 7.38 | -   | -    | 17.1°C | 1 | 3    | P    | C    |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |
|      |        |        |     |      |     |      |        |   |      |      |      |            |  | X          |

ANALYSIS REQUESTED

TSS  
 Total Phosphate  
 E. coli  
 NO<sub>2</sub> + NO<sub>3</sub>  
 NH<sub>3</sub> N

Relinquished By: Christie Taylor

Received By: [Signature]

Relinquished By: Christie Taylor

Received By: [Signature]

Relinquished By: [Signature]

Received By: [Signature]

LAB USE ONLY

Sample Condition Acceptable: YES / NO

Alternate Check In: [Signature]

Date: 1-11-20 Time: 11:46 Temp °C: 42 \*Therm ID: 15 Logged In By: [Signature]