

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-150673-1

Client Project/Site: Primary & Secondary Drinking Water

For: Lubrizol Advanced Materials, Inc 41 Tidal Road Deer Park, Texas 77536

Attn: Kenneth Berss

Lights

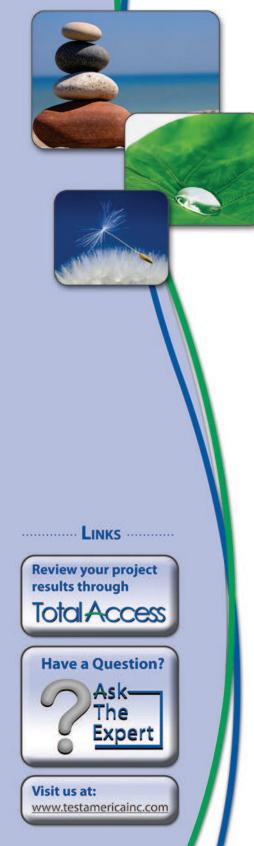
Authorized for release by: 4/24/2018 11:52:09 AM

Lindy Maingot, Project Manager I (210)344-9751

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

Qualifiers

| HPLC/IC | | Λ |
|------------|--|---|
| Qualifier | Qualifier Description | 4 |
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Metals | | |
| Qualifier | Qualifier Description | 6 |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. | |
| U | Indicates the analyte was analyzed for but not detected. | |
| General Cl | nemistry | |
| Qualifier | Qualifier Description | 8 |
| U | Indicates the analyte was analyzed for but not detected. | |
| | | 0 |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
|----------------|---|--|
| <u>¤</u> | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| PQL | Practical Quantitation Limit | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |

Sample Summary

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

TestAmerica Job ID: 680-150673-1

| Client Sample ID | Matrix | Collected | Received |
|------------------|--------|----------------|-----------------------------|
| LCR001 | Water | 04/03/18 08:00 | 04/04/18 09:10 |
| PBCU001 ELCR | Water | 04/03/18 08:00 | 04/04/18 09:10 |
| | | LCR001 Water | LCR001 Water 04/03/18 08:00 |

TestAmerica Job ID: 680-150673-1

1 2 3 4 5 6 7 8 9 10 11

Job ID: 680-150673-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative 680-150673-1

Comments

No additional comments.

Receipt

The samples were received on 4/4/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): LCR001 (680-150673-1) and PBCU001 ELCR (680-150673-2). The container labels list <EAST ADMIN ENTRY>, while the COC lists <EAST ADMIN SOURCE>. The client was contacted, and the lab was instructed to <log in per COC>.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

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| ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 | | | | | | La | ab Sample | ID: 680-150 Matrix: | |
|--|--|-----------------------------|---|--|--|----|--|--|----------------|
| Method: 300.0 - Anions, Ion Cl Analyte | | phy Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Sulfate | 2.7 | | 1.0 | 0.40 | mg/L | | | 04/11/18 12:59 | |
| Chloride | 59 | | 2.5 | | mg/L | | | 04/11/18 13:12 | : |
| Method: 200.7 Rev 4.4 - Metals | | | | | | | | | |
| Analyte | | Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fa |
| Calcium | 0.11 | | 0.50 | 0.025 | - | | | 04/12/18 21:17 | |
| ron | 0.017 | U | 0.050 | 0.017 | - | | 04/11/18 09:30 | 04/12/18 21:17 | |
| Manganese | 0.018 | | 0.010 | 0.0010 | - | | 04/11/18 09:30 | 04/12/18 21:17 | |
| Bodium | 130 | | 10 | 4.8 | mg/L | | 04/11/18 09:30 | 04/13/18 15:45 | 1 |
| lethod: 2340B-2011 - Total Ha | | | y calculation | | | | | | |
| Inalyte | | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fa |
| lardness as calcium carbonate | 3.3 | U | 3.3 | 3.3 | mg/L | | | 04/23/18 16:10 | |
| General Chemistry | | | | | | | | | |
| nalyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| pecific Conductivity | 710 | | 5.0 | 5.0 | umho/cm | | | 04/05/18 10:40 | |
| Alkalinity | 270 | | 5.0 | 5.0 | mg/L | | | 04/09/18 17:50 | |
| | | | | | | | | | |
| - | 370 | | 10 | 10 | mg/L | | | 04/07/18 08:28 | |
| Fotal Dissolved Solids | | | 10 | 10 | mg/L | La | ab Sample | | |
| Total Dissolved Solids Ilient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 | | | 10 | 10 | mg/∟ | La | ab Sample | ID: 680-150 Matrix: | |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 | 1 ELCR | phy | 10 | 10 | mg/L | La | ab Sample | ID: 680-150 | 673- |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl | 01 ELCR | phy Qualifier | 10 | | Unit | La | ab Sample Prepared | ID: 680-150 Matrix: | 0673-2 Wate |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl Analyte | 1 ELCR | | | MDL | Unit | | | ID: 680-150 | 0673-2 Wate |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl Analyte Sulfate | 01 ELCR | | RL | MDL 0.40 | | | | ID: 680-150 Matrix: Analyzed | 0673-2 Wate |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl Analyte Sulfate Chloride | hromatogra Result 2.8 67 | | RL 1.0 | MDL 0.40 | Unit mg/L | | | ID: 680-150 Matrix: Analyzed 04/11/18 13:25 | 0673-2 Wate |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl Analyte Sulfate Chloride Method: 200.7 Rev 4.4 - Metals | hromatogra Result 2.8 67 s (ICP) | | RL 1.0 | MDL 0.40 | Unit mg/L mg/L | | | ID: 680-150 Matrix: Analyzed 04/11/18 13:25 | 0673-/ Wate |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl Analyte Sulfate Chloride Method: 200.7 Rev 4.4 - Metals Malyte | hromatogra Result 2.8 67 s (ICP) | Qualifier | RL 1.0 2.5 | MDL 0.40 1.0 | Unit mg/L mg/L Unit | D | Prepared | ID: 680-150 Matrix: Analyzed 04/11/18 13:25 04/11/18 13:38 | Dil Fa |
| Total Dissolved Solids lient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl malyte Sulfate Chloride Method: 200.7 Rev 4.4 - Metals malyte Salcium | hromatogra Result 2.8 67 s (ICP) Result | Qualifier Qualifier | RL 1.0 2.5 RL | MDL 0.40 1.0 MDL | Unit mg/L mg/L Unit mg/L | D | Prepared 04/11/18 09:30 | ID: 680-150 Matrix: Analyzed 04/11/18 13:25 04/11/18 13:38 Analyzed | Dil Fa |
| ient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl nalyte sulfate shloride Method: 200.7 Rev 4.4 - Metals nalyte salcium on | hromatogra Result 2.8 67 s (ICP) Result 14 0.017 | Qualifier Qualifier | RL 1.0 2.5 RL 0.50 | MDL 0.40 1.0 MDL 0.025 0.017 | Unit mg/L mg/L Unit mg/L mg/L | D | Prepared 04/11/18 09:30 04/11/18 09:30 | ID: 680-150 Matrix: 04/11/18 13:25 04/11/18 13:38 Analyzed 04/12/18 21:22 | Dil Fa |
| ient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl malyte sulfate chloride Method: 200.7 Rev 4.4 - Metals malyte salcium on Manganese | hromatogra Result 2.8 67 s (ICP) Result 14 | Qualifier Qualifier | RL 1.0 2.5 RL 0.50 0.050 | MDL 0.40 1.0 MDL 0.025 0.017 0.0010 | Unit mg/L mg/L Unit mg/L mg/L | D | Prepared Prepared 04/11/18 09:30 04/11/18 09:30 04/11/18 09:30 | ID: 680-150 Matrix: 04/11/18 13:25 04/11/18 13:38 Analyzed 04/12/18 21:22 04/12/18 21:22 | Dil Fa |
| Total Dissolved Solids Iient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 ate Received: 04/04/18 09:10 Method: 300.0 - Anions, Ion Cl Analyte Sulfate Chloride Method: 200.7 Rev 4.4 - Metals Analyte Calcium ron Manganese Sodium | 1 ELCR hromatogra Result 2.8 67 s (ICP) Result 14 0.017 0.028 120 | Qualifier Qualifier U | RL 1.0 2.5 RL 0.50 0.050 0.010 10 | MDL 0.40 1.0 MDL 0.025 0.017 0.0010 4.8 | Unit mg/L mg/L Unit mg/L mg/L mg/L | D | Prepared Prepared 04/11/18 09:30 04/11/18 09:30 04/11/18 09:30 | ID: 680-150 Matrix: Analyzed 04/11/18 13:25 04/11/18 13:38 Analyzed 04/12/18 21:22 04/12/18 21:22 04/12/18 21:22 | Dil Fa |
| Total Dissolved Solids Iient Sample ID: PBCU00 ate Collected: 04/03/18 08:00 | 1 ELCR hromatogra Result 2.8 67 s (ICP) Result 14 0.017 0.028 120 ardness (as | Qualifier Qualifier U | RL 1.0 2.5 RL 0.50 0.050 0.010 10 | MDL 0.40 1.0 MDL 0.025 0.017 0.0010 4.8 | Unit mg/L mg/L Unit mg/L mg/L mg/L | D | Prepared Prepared 04/11/18 09:30 04/11/18 09:30 04/11/18 09:30 | ID: 680-150 Matrix: Analyzed 04/11/18 13:25 04/11/18 13:38 Analyzed 04/12/18 21:22 04/12/18 21:22 04/12/18 21:22 | 673-2 |

| | Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------------|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| | Specific Conductivity | 660 | | 5.0 | 5.0 | umho/cm | | | 04/05/18 10:41 | 1 |
| | Alkalinity | 250 | | 5.0 | 5.0 | mg/L | | | 04/09/18 17:40 | 1 |
| · | Total Dissolved Solids | 350 | | 10 | 10 | mg/L | | | 04/07/18 08:28 | 1 |

QC Sample Results

RL

1.0

0.50

MDL Unit

0.40 mg/L

0.20 mg/L

D

Prepared

Lab Sample ID: MB 680-519555/2

Lab Sample ID: LCS 680-519555/3

Matrix: Water

Matrix: Water

Analyte

Sulfate

Chloride

Iron Manganese Sodium

Analysis Batch: 519555

Method: 300.0 - Anions, Ion Chromatography

MB MB

0.40 U

0.20 U

Result Qualifier

Client Sample ID: Method Blank

Analyzed

04/11/18 10:25 1 04/11/18 10:25 1 ab Control Sample

Dil Fac

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

| Analysis Batch: 519555 | | | | | | | | |
|------------------------|-------|--------|-----------|------|---|------|----------|--|
| | Spike | LCS | LCS | | | | %Rec. | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Sulfate | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 | |
| Chloride | 10.0 | 9.77 | | mg/L | | 98 | 90 - 110 | |

Lab Sample ID: LCSD 680-519555/4 Matrix: Water Analysis Batch: 519555

| Analysis Batom stores | Spike | LCSD | LCSD | | | | %Rec. | | RPD | |
|-----------------------|-------|--------|-----------|------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Sulfate | 10.0 | 10.3 | | mg/L | | 103 | 90 - 110 | 2 | 15 | |
| Chloride | 10.0 | 9.78 | | mg/L | | 98 | 90 - 110 | 0 | 15 | |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Lab Sample ID: MB 680-519559/1-A Matrix: Water Analysis Batch: 519914 | | МВ | | | | | | le ID: Method Prep Type: To Prep Batch: 8 | otal/NA |
|---|--------|-----------|-------|--------|------|---|----------------|---|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Calcium | 0.025 | U | 0.50 | 0.025 | mg/L | | 04/11/18 09:30 | 04/12/18 20:12 | 1 |
| Iron | 0.017 | U | 0.050 | 0.017 | mg/L | | 04/11/18 09:30 | 04/12/18 20:12 | 1 |
| Manganese | 0.0010 | U | 0.010 | 0.0010 | mg/L | | 04/11/18 09:30 | 04/12/18 20:12 | 1 |
| Sodium | 0.48 | U | 1.0 | 0.48 | mg/L | | 04/11/18 09:30 | 04/12/18 20:12 | 1 |

Lab Sample ID: LCS 680-519559/2-A Matrix: Water Analysis Batch: 519914 Analyte ______ Added Rei Calcium ______ 2.00

Client Sample ID: Lab Control Sample

| Spike | | LCS | 11 | | % D = = | Prep Type: Total/NA Prep Batch: 519559 %Rec. | |
|----------|--------|-----------|------|---|----------------|--|---|
| Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 2.00 | 1.99 | | mg/L | | 99 | 85 - 115 | - |
| 2.00 | 2.01 | | mg/L | | 100 | 85 - 115 | |
| 0.200 | 0.204 | | mg/L | | 102 | 85 - 115 | |
| 2.00 | 1.77 | | mg/L | | 88 | 85 - 115 | |

Method: 2340B-2011 - Total Hardness (as CaCO3) by calculation

| Lab Sample ID: MB 680-521077/1 Matrix: Water Analysis Batch: 521077 | МВ | MD | | | | | | ple ID: Method Prep Type: To | |
|---|--------|-----------|-----|-----|------|---|----------|---------------------------------|---------|
| | | | | | | | | | |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Hardness as calcium carbonate | 3.3 | U | 3.3 | 3.3 | mg/L | | | 04/23/18 11:19 | 1 |

QC Sample Results

Lab Sample ID: MB 680-518904/7

Method: 2510B-2011 - Conductivity, Specific Conductance

Client Sample ID: Method Blank Prep Type: Total/NA

5

6

| | | | | | | | | | | Prep Typ | | tal/N/ |
|--|-------------------|-----------------|-----------------------|-----------------------|----------------------------|------------------------------|----------------------|-------------|---|--|---|----------------------------------|
| Matrix: Water | | | | | | | | | | | be: 10 | |
| Analysis Batch: 518904 | | | | | | | | | | | | |
| | MB | MB | | | | | | | | | | |
| Analyte | Result | Qualifier | | RL | | RL Unit | | DF | Prepared | Analyz | zed | Dil Fa |
| Specific Conductivity | 5.0 | U | | 5.0 | | 5.0 umhc | /cm | | | 04/05/18 | 10:35 | |
| Lab Sample ID: LCS 680-518904/8 | | | | | | | Clie | nt Sa | mple II |): Lab Cor | ntrol Sa | ampl |
| Matrix: Water | | | | | | | | | | Prep Typ | pe: To | tal/N |
| Analysis Batch: 518904 | | | | | | | | | | | | |
| | | | Spike | L | s I | LCS | | | | %Rec. | | |
| Analyte | | | Added | Res | ult (| Qualifier | Unit | D | %Rec | Limits | | |
| Specific Conductivity | | | 1000 | 10 | 10 | | umho/cn | n – | 101 | 90 - 110 | | |
| lethod: SM 2320B - Alkalinity | , | | | | | | | | | | | |
| | | | | | | | | | | | | Plan |
| Lab Sample ID: MB 680-519417/7 | | | | | | | | Cli | ent Sar | nple ID: M | ethod | DIdi |
| the second se | | | | | | | | Cli | ent Sar | nple ID: M Prep Tvi | | |
| Matrix: Water | | | | | | | | Cli | ent Sar | nple ID: M Prep Tyj | | |
| Lab Sample ID: MB 680-519417/7 Matrix: Water Analysis Batch: 519417 | МВ | МВ | | | | | | Cli | ent Sar | | | |
| Matrix: Water Analysis Batch: 519417 | | MB Qualifier | | RL | | RL Unit | | | ent Sar Prepared | | pe: To | |
| Matrix: Water Analysis Batch: 519417 Analyte | | Qualifier | | RL 5.0 | | RL Unit | | | | Prep Ty | pe: To | tal/N |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 | Result | Qualifier | | | | | | <u>D</u> _F | Prepared | Prep Typ | zed 17:25 | Dil Fa |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water | Result | Qualifier | | | | | | <u>D</u> _F | Prepared | Prep Typ | zed 17:25 | Dil Fa |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water | Result | Qualifier | | 5.0 | ! | 5.0 mg/L | | <u>D</u> _F | Prepared | Prep Tyr Analyz 04/09/18 D: Lab Cor Prep Tyr | zed 17:25 | Dil Fa |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water Analysis Batch: 519417 | Result | Qualifier | Spike | 5.0 L | s I | 5.0 mg/L | Clie | D F | Prepared | Prep Typ Analyz 04/09/18 D: Lab Cor Prep Typ %Rec. | zed 17:25 | Dil Fa |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water Analysis Batch: 519417 Analyte | Result | Qualifier | Spike Added 250 | 5.0 Li Res | s I | 5.0 mg/L | | <u>D</u> | Prepared | Prep Tyr Analyz 04/09/18 D: Lab Cor Prep Tyr | zed 17:25 | tal/N Dil Fa |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water Analysis Batch: 519417 Analyte | Result 5.0 | Qualifier | Added | 5.0 Li Res | S I | 5.0 mg/L LCS Qualifier | Clie Unit mg/L | D F | Prepared Imple II <u>%Rec</u> 99 | Analyz 04/09/18 0: Lab Corr Prep Typ %Rec. Limits 80 - 120 | 2ed 17:25 htrol Sape: Tot | Dil Fa amp tal/N |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCSD 680-519417/2 | Result 5.0 | Qualifier | Added | 5.0 Li Res | S I | 5.0 mg/L LCS Qualifier | Clie Unit mg/L | D F | Prepared Imple II <u>%Rec</u> 99 | Prep Typ Analyz 04/09/18 D: Lab Con Prep Typ %Rec. Limits 80 - 120 b Control S | ee: To red 17:25 htrol Sape: To Sampl | tal/N Dil Fa ampl tal/N |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCSD 680-519417/2 Matrix: Water | Result 5.0 | Qualifier | Added | 5.0 Li Res | S I | 5.0 mg/L LCS Qualifier | Clie Unit mg/L | D F | Prepared Imple II <u>%Rec</u> 99 | Analyz 04/09/18 0: Lab Corr Prep Typ %Rec. Limits 80 - 120 | ee: To red 17:25 htrol Sape: To Sampl | tal/N Dil Fa ampl tal/N |
| Matrix: Water | Result 5.0 | Qualifier | Added | 5.0 Ll Res 2 | :S ult (48 | 5.0 mg/L LCS Qualifier | Clie Unit mg/L | D F | Prepared Imple II <u>%Rec</u> 99 | Prep Typ Analyz 04/09/18 D: Lab Con Prep Typ %Rec. Limits 80 - 120 b Control S | ee: To red 17:25 htrol Sape: To Sampl | tal/N Dil Fa ampl tal/N |
| Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCS 680-519417/8 Matrix: Water Analysis Batch: 519417 Analyte Alkalinity Lab Sample ID: LCSD 680-519417/2 Matrix: Water | Result 5.0 | Qualifier | Added 250 | 5.0 Lt Res 2 | S 11 (18 - | 5.0 mg/L LCS Qualifier | Clie Unit mg/L | D F | Prepared Imple II <u>%Rec</u> 99 e ID: La | Prep Tyr Analyz 04/09/18 D: Lab Cor Prep Tyr %Rec. Limits 80 - 120 b Control S Prep Tyr | ee: To red 17:25 htrol Sape: To Sampl | Dil Fa ampl tal/N |

wethod: Sivi 2540C Solids, Total Dissolved (TDS)

| Lab Sample ID: MB 680-519169/1 Matrix: Water Analysis Batch: 519169 | MD | МВ | | | | | | | Clie | ent Sam | ple ID: Method Prep Type: To | |
|--|-----|-----------|----------------------|-----|----------------|-----|--------|--------------|-------|------------|----------------------------------|---------|
| Analyte | | Qualifier | | RL | | RL | Unit | D | Р | repared | Analyzed | Dil Fac |
| Total Dissolved Solids | 5.0 | U | | 5.0 | | 5.0 | mg/L | | | | 04/07/18 08:28 | 1 |
| Lab Sample ID: LCS 680-519169/2 Matrix: Water Analysis Batch: 519169 | | | | | | | | Clien | t Sai | mple ID | : Lab Control S Prep Type: To | |
| | | | Spike | | LCS | LCS | | | | | %Rec. | |
| Analyte Total Dissolved Solids | | | Added 68.8 | | Result 62.0 | Qua | lifier | Unit mg/L | D | %Rec 90 | Limits | |

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Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

| Lab Sample ID: LCSD 680-519169/3 Matrix: Water Analysis Batch: 519169 | | | (| Client S | ample | ID: Lat | Control Prep Ty | | |
|---|-------|--------|-----------|----------|-------|---------|--------------------|-----|-------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Total Dissolved Solids | 68.8 | 62.0 | | mg/L | | 90 | 80 - 120 | 0 | 25 |

QC Association Summary

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

HPLC/IC

| Analy | vsis | Batch: | 519 | 9555 |
|-------|------|---------------|-----|------|
| Alla | 1010 | Buton. | | |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 680-150673-1 | LCR001 | Total/NA | Water | 300.0 | |
| 680-150673-1 | LCR001 | Total/NA | Water | 300.0 | |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 300.0 | |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 300.0 | |
| MB 680-519555/2 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 680-519555/3 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCSD 680-519555/4 | Lab Control Sample Dup | Total/NA | Water | 300.0 | |

Metals

Prep Batch: 519559

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-150673-1 | LCR001 | Total/NA | Water | 200 | |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 200 | |
| MB 680-519559/1-A | Method Blank | Total/NA | Water | 200 | |
| LCS 680-519559/2-A | Lab Control Sample | Total/NA | Water | 200 | |

Analysis Batch: 519914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method I | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 680-150673-1 | LCR001 | Total/NA | Water | 200.7 Rev 4.4 | 519559 |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 200.7 Rev 4.4 | 519559 |
| MB 680-519559/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 519559 |
| LCS 680-519559/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 519559 |

Analysis Batch: 520147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------------|------------|
| 680-150673-1 | LCR001 | Total/NA | Water | 200.7 Rev 4.4 | 519559 |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 200.7 Rev 4.4 | 519559 |

Analysis Batch: 521077

| Lab Sample ID 680-150673-1 | Client Sample ID | Prep Type Total/NA | Matrix Water | Method 2340B-2011 | Prep Batch |
|-------------------------------|------------------|-----------------------|-----------------|-------------------|------------|
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 2340B-2011 | |
| MB 680-521077/1 | Method Blank | Total/NA | Water | 2340B-2011 | |

General Chemistry

Analysis Batch: 518904

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|------------|------------|
| 680-150673-1 | LCR001 | Total/NA | Water | 2510B-2011 | |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | 2510B-2011 | |
| MB 680-518904/7 | Method Blank | Total/NA | Water | 2510B-2011 | |
| LCS 680-518904/8 | Lab Control Sample | Total/NA | Water | 2510B-2011 | |

Analysis Batch: 519169

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 680-150673-1 | LCR001 | Total/NA | Water | SM 2540C | |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | SM 2540C | |
| MB 680-519169/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 680-519169/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

QC Association Summary

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

1 2 3 4 5 6 7 8 8 9

General Chemistry (Continued)

Analysis Batch: 519169 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| LCSD 680-519169/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540C | |
| Analysis Batch: 5194 | 17 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 680-150673-1 | LCR001 | Total/NA | Water | SM 2320B | |
| 680-150673-2 | PBCU001 ELCR | Total/NA | Water | SM 2320B | |
| MB 680-519417/7 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 680-519417/8 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCSD 680-519417/20 | Lab Control Sample Dup | Total/NA | Water | SM 2320B | |

Initial

Amount

5 mL

5 mL

50 mL

50 mL

50 mL

Batch

Number

519555

519555

519559

519914

519559

520147

521077

518904

519417

519169

Final

Amount

5 mL

5 mL

50 mL

50 mL

100 mL

Dil

5

1

10

1

1

Factor

Run

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

Client Sample ID: LCR001

Date Collected: 04/03/18 08:00

Date Received: 04/04/18 09:10

Prep Type

Total/NA

Batch

Туре

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Prep

Prep

Batch

300.0

300.0

200

200

Instrument ID: NOEQUIP

Instrument ID: MANTECH

Instrument ID: MANTECH

Instrument ID: NOEQUIP

200.7 Rev 4.4

200.7 Rev 4.4

2340B-2011

2510B-2011

SM 2320B

SM 2540C

Instrument ID: CICK

Instrument ID: CICK

Instrument ID: ICPF

Instrument ID: ICPF

Method

Lab Sample ID: 680-150673-1

Analyst

UI

Prepared

or Analyzed

04/11/18 12:59

04/11/18 13:12 UI

04/11/18 09:30 AJR

04/12/18 21:17 BCB

04/11/18 09:30 AJR

04/13/18 15:45 BCB

04/23/18 16:10 RSW

04/05/18 10:40 JEC

04/09/18 17:50 BTD

04/07/18 08:28 JEC

Lab Sample ID: 680-150673-2

Matrix: Water

Lab

TAL SAV

Matrix: Water

8

Client Sample ID: PBCU001 ELCR Date Collected: 04/03/18 08:00

Date Received: 04/04/18 09:10

Dil Batch Batch Initial Final Batch Prepared Prep Type Method Number or Analyzed Type Run Factor Amount Amount Analyst Lab Total/NA 300.0 5 mL 519555 04/11/18 13:25 UI TAL SAV Analysis 5 ml 1 Instrument ID: CICK 04/11/18 13:38 UI Total/NA Analysis 300.0 5 519555 TAL SAV 5 ml 5 mL Instrument ID: CICK Total/NA Prep 200 50 mL 50 mL 519559 04/11/18 09:30 AJR TAL SAV Total/NA Analysis 200.7 Rev 4.4 TAL SAV 1 519914 04/12/18 21:22 BCB Instrument ID: ICPF Total/NA 200 50 mL 04/11/18 09:30 AJR TAL SAV Prep 50 mL 519559 Total/NA Analysis 200.7 Rev 4.4 10 520147 04/13/18 15:50 BCB TAL SAV Instrument ID: ICPF Total/NA Analysis 2340B-2011 521077 04/23/18 16:10 RSW TAL SAV 1 Instrument ID: NOEQUIP Total/NA 518904 04/05/18 10:41 JEC TAL SAV Analysis 2510B-2011 1 Instrument ID: MANTECH SM 2320B Total/NA Analysis 519417 04/09/18 17:40 BTD TAL SAV 1 Instrument ID: MANTECH Total/NA Analysis SM 2540C 1 50 mL 100 mL 519169 04/07/18 08:28 JEC TAL SAV Instrument ID: NOEQUIP

Lab Chronicle

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

TestAmerica Job ID: 680-150673-1

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water TestAmerica Job ID: 680-150673-1

1 2 3 4 5 6 7 8 9 10

| Laboratory: TestAmerica Savannah | L | aborator | y: Test | America | Savannah | |
|----------------------------------|---|----------|---------|---------|----------|--|
|----------------------------------|---|----------|---------|---------|----------|--|

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All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-------------------------|---------------|------------|-----------------------|-----------------|
| | AFCEE | | SAVLAB | |
| Alabama | State Program | 4 | 41450 | 06-30-18 |
| Alaska | State Program | 10 | | 06-30-18 |
| Alaska (UST) | State Program | 10 | UST-104 | 09-22-19 |
| Arizona | State Program | 9 | AZ0808 | 12-14-18 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-19 |
| California | State Program | 9 | 2939 | 06-30-18 |
| Colorado | State Program | 8 | N/A | 12-31-18 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-19 |
| Florida | NELAP | 4 | E87052 | 06-30-18 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 06-12-18 |
| Georgia | State Program | 4 | 803 | 06-30-18 |
| Hawaii | State Program | 9 | N/A | 06-30-18 |
| Illinois | NELAP | 5 | 200022 | 11-30-18 |
| Indiana | State Program | 5 | N/A | 06-30-18 |
| Iowa | State Program | 7 | 353 | 06-30-19 |
| Kentucky (DW) | State Program | 4 | 90084 | 12-31-18 |
| Kentucky (UST) | State Program | 4 | 18 | 06-30-18 |
| Kentucky (WW) | State Program | 4 | 90084 | 12-31-18 * |
| L-A-B | DoD ELAP | | L2463 | 09-22-19 |
| L-A-B | ISO/IEC 17025 | | L2463.01 | 09-22-19 |
| Louisiana | NELAP | 6 | 30690 | 06-30-18 |
| Louisiana (DW) | NELAP | 6 | LA160019 | 12-31-18 |
| Maine | State Program | 1 | GA00006 | 09-24-18 |
| Maryland | State Program | 3 | 250 | 12-31-18 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-18 |
| Michigan | State Program | 5 | 9925 | 06-30-18 |
| Mississippi | State Program | 4 | N/A | 06-30-18 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-18 |
| New Jersey | NELAP | 2 | GA769 | 06-30-18 |
| New Mexico | State Program | 6 | N/A | 06-30-18 |
| New York | NELAP | 2 | 10842 | 03-31-19 |
| North Carolina (DW) | State Program | 4 | 13701 | 07-31-18 |
| North Carolina (WW/SW) | State Program | 4 | 269 | 12-31-18 |
| Oklahoma | State Program | 6 | 9984 | 08-31-18 |
| Pennsylvania | NELAP | 3 | 68-00474 | 06-30-18 |
| Puerto Rico | State Program | 2 | GA00006 | 12-31-18 |
| South Carolina | State Program | 4 | 98001 | 06-30-18 |
| Tennessee | State Program | 4 | TN02961 | 06-30-18 |
| Texas | NELAP | 6 | T104704185-16-9 | 11-30-18 |
| Texas | State Program | 6 | T104704185 | 06-30-18 |
| US Fish & Wildlife | Federal | | LE058448-0 | 07-31-18 |
| USDA | Federal | | P330-17-00213 | 06-14-20 * |
| Virginia | NELAP | 3 | 460161 | 06-14-18 |
| Washington | State Program | 10 | C805 | 06-10-18 |
| West Virginia (DW) | State Program | 3 | 9950C | 12-31-18 |
| West Virginia DEP | State Program | 3 | 094 | 06-30-18 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-18 |
| Wyoming | State Program | 8 | 8TMS-L | 06-30-16 * |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Lubrizol Advanced Materials, Inc Project/Site: Primary & Secondary Drinking Water

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| 5 |
| 6 |
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| 8 |
| 9 |
| 10 |

| Method | Method Description | Protocol | Laboratory |
|---------------|--|----------|------------|
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL SAV |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL SAV |
| 2340B-2011 | Total Hardness (as CaCO3) by calculation | SM | TAL SAV |
| 2510B-2011 | Conductivity, Specific Conductance | SM | TAL SAV |
| SM 2320B | Alkalinity | SM | TAL SAV |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL SAV |
| 200 | Preparation, Metals | EPA | TAL SAV |

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

| 5102 LaRoche Avenue Savannah, GA 31404 Phone (912) 354-7858 Fax (912) 352-0165 | Chain e | of Custo | Chain of Custody Record | q | | IESTAMENCO |
|---|--------------------------------------|-----------------------------|---|---|---|---|
| | Sampler: | | Lab PM: Maingot, Lindy | ý | Certier Tracking No(s): | COC No: 680-88332-35752.1 |
| Barre Dusty LUCAS | Phone: | | E-Mail: | | | Page: Page 1 of 1 |
| rporation | | | | Analysis Re | Requested | Job #: |
| | Due Date Requested: | | abb | | | ð |
| Clty: Deer Park | TAT Requested (days): | | | | | B - NGOH N - NGNE B - NBOH N - NGNE C - Zh Acetate 0 - AsNa02 |
| State, ZIp: TX, 77536 | | | 5 52404 | | | |
| Phone: | Po #; Purchase Order not required | P | | | | P |
| Email | WO #: | | (0) | | | I - Ice J - DI Water |
| Project Name: Secondary Drinking Water | Project #: 68019150 | | 1 10 64 | W 280 | | K - EDTA L - EDA |
| | SSOW#: | |) as | ORGF | | of Other: |
| | 2018 | | Matrix (www.matrix Filtered 5 Filtered 5 Filtered 5 | ulfate 300 M, Iron, M | |) 19dmulk |
| Sample Identification | ę | (C=comp, on G=grab) sr-n | Perfo | S pue | | Special Instructions/Note: |
| | | 1000 | X | Z | 「「「「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」 | の理論 |
| EAST ADMIN SOURCE | 4-3 6800 | CRAB V | Water | x x | | |
| 5 | 1.30 050 U | GRAPS 11 | 20 | XX | | |
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| | | - | | 680-150673 Chain of Custody | ustody | |
| | | | | | | |
| Daasible Bessed Manification | | - | - | | | |
| Possible nazard identification | Unknown | Radiological | | Sample Disposal (A ree may be ass Return To Client Disp | essed if samples are re losal By Lab | itained longer than 1 month) Archive For Months |
| Anter and a particular in the second s | | | naric | | | |
| Empty Kit RelingDisted by: | Date: | | Time: | | Method of Shipment: | 1110 1110 |
| A la | 18 0 | SCG Company | Company R | ALTER SAULS | 4+3-2K | 11:24 SUDAVION |
| Allow SAULS | DeterTimie: -3-18 15:1 | 2 Sep | A | eceived by | The Detertime: | COSICO Company |
| | Date/Time: | Oốmp |) | CO-4 CCFAC. IXO | · S Date/Time: | Company |
| Custody Seals Intact: Custody Seal No.: | | | 0 | Cooler Temperature(s) ^a C and Other Remarks. | temarks: | |
| | | | • | 11 12 | 7 8 9 10 | 1 2 3 4 5 6 |

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WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679

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| | S. | Section I (PWS Information) | Information | 1 | | | | - T. | Section II (Completed by Laboratory) | I Co | mplet | ed by | Labo | rator | R | | İ | T |
| PWS Name: EHGM + " | PWS NAME: 240M + 749 546. 1313() | 4 | PWS Type: | | Community 🗆 | NTNC | | Lab Name: | | | | | | | | | | |
| PWS Conta | PWS Contact Name: New Lucas | | Population: | | <50,000 5 >100,000 | 50,001 to 100,000 | 00,000 | Test America | 250 | $\left(\right)$ | XX | Rucmah | 2 | | | | | |
| Compliance | ance 🔲 Noncompliance | <u> </u> | Tap Copper Exceedance | | Tap Lead Exceedance | xceedance | | Laboratory Address: 5 | Idres | 5 | 200 | 2v | < Rex he | 5 | | Ave | | 1 |
| Distribut | Distribution System | # DS Samp | # DS Samples Required: | | # DS Samples Submitted: | Submitted: | | Laboratory Contact Name: | Intacl | Nan | le: | | | ł | | | | Γ |
| Entry Point | int | # EP Samp | # EP Samples Required:# EP Samples Submitted: | d:# E | P Samples | Submitted | | Trond | Kickla | Kla | Y | 2 | | | | | | |
| Inhibitor o | Inhibitor or stabilizer used: 🗌 phosphate 🔲 calcium carbonate 🛛 | te 🗌 calcium | i carbonate | 🗌 sílica | | | | Lab Phone: 912 - 3551 - 7858 | 4 8 5 5 8 | rame quired ibitor en the pendi | Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silicate are used, then these parameters should also be tested depending on which is used. | eques e para aining ameter which i | sted: meter PO4 o rs sho s use | *Anal s chec r silica uld al | yses ked. ate al | are If e us test | ed | |
| Source ID (e.g. DS01, EP001) | Sample Location | Sample Collection Date (MMDDYY) | Sample Collection Time (HHMM) | рН (1925) | pH method | Temp (°C) (1996) | Temp Method | Sample | Calcium (1919) Calcium (1919) | Chloride (1017) | Conductivity((1064) | (SIGI) ssəupseH | Iron (1028) | (201) muibos | Sulfate (1055) | (0267) SQT | (++01) standsond-O | (6401) Sollic |
| LCROGI | EAST ADMIN 1315T | 61-3-18 | 0810 | 2 | | 74.6 | | (50673-3. | 1 | > | > | > | > | > | > | > | * | * |
| PBCUGON | EAST ADMIN SOURCE | 4-3-18 | 0800 | ~ | | J.4.C | | 150C73-1 | > | > | > | > | > | > | > | > | * | * |
| ELCR | | | | | | | | | 1 | > | > | > | > | > | > | > | * | * |
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| | | (| | | | | | | > | > | > | > | > | > | > | > | * | * |
| I acknowledd instructions immediately | I acknowledge that the information on this form is true and correct and sites selected for sampling following TCEQ instructions including but not limited to the measurement of pN and temperature according to approved methods immediately upon collection (within 15 minutes) | rm is true and reasurement o es) | of ph and tem | sites select perature a | ted for samp ccording to a | ling followin approved me | g TCEQ | Containers | | Cond I Ic | Conditions Upon Receipt | a Upo Amb n Red | n Re ient | Geipt | . 5 | |] | |
| Name | | Signature | Ð | | | Date | e | 1 L preserved | | Corre | Corrected Temp Upon Receipt: (| Tem | d n d | on Re | ecei | pt: | à | 10 |
| J risv (| 1005 400 | | -h | 3-18 | | 0800 | 5 | upon receipt | - | Com | Comments: Cullar | 20: | DV/O | 7 | | | | |
| Relinquished I | Relinquished By (Name, Signature) | | Date | | | Time | | Received By: (Name, Signature) | Si Si | gnatu | (ə. | 2 | Date 1-3-7 | 3 | Time | 7 | | |
| Altou | SAULS | | 81-2-18 | | | 15:12 | | | | | | | | | | | | ĺ |
| (For TCEQ us | (For TCEQ use only) 🗌 Disapproved 🔲 Accepted | pted Comments: | nts: | | | | | | | | | | | 1 | | | | |
| | | | | | | | | | | | | | | | | | | |

Login Number: 150673 List Number: 1 Creator: Edwards, Jessica R

| Question | Answer | Comment |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | False | IDs on containers do not match the COC. Logged in per COC. |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Job Number: 680-150673-1

List Source: TestAmerica Savannah