OMB Control No. 2080-0021. Approval expires 05/31/2023

EPA

United States Environmental Protection Agency
Office of Enforcement and Compliance Assurance
**DMR-QA Study 42**
(This data is collected under the authority of Section 308 of the Clean Water Act.)

2022

# NPDES Permittee Data Report Form

**Attention:** Follow the instructions on the previous page to complete this form and submit data for evaluation.

| **Due September 9, 2022** | NPDES Permit Number (State + 7-digit ID) | Permit Extension |
|---|---|---|
| | AR 0 0 0 1 2 1 0 | |

Permittee Name
Georgia-Pacific Crossett LLC

Current Permittee Mailing Address
100 Mill Supply Road / P O Box 3333

| City | State | Zip Code |
|---|---|---|
| Crossett | AR | 71635 |

| Phone Number | Fax Number | E-Mail Address |
|---|---|---|
| 870-415-6352 | | rachel.johnson2@gapac.com |

Optional: If WP Study was used, list PT Provider name(s):

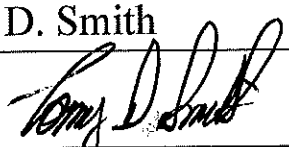
Optional: IF WP Study was used, list WP Study Number(s):

For DMR-QA Study 42, conducted in 2022, the Permittee ensured that their laboratory(ies) performing the required analyses:

| Received PT Samples | Submitted Complete and Accurate Data by July 15, 2022 | Received a Graded Report by August 12, 2022 |
|---|---|---|
| YES ☑ NO ☐ | YES ☑ NO ☐ | YES ☑ NO ☐ |

**Certification by Permit Holder or Authorized Representative**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) permit. Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S. EPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| Name of Certifying Official | Title |
|---|---|
| Tommy D. Smith | Vice President of Manufacturing |
| Signature  | Date 08/25/2022 |

***Address, phone number and e-mail of certifying official are required if different from above.***

| Address | | | Phone Number |
|---|---|---|---|
| 100 Mill Supply Road / P O Box 3333 | | | 870-415-6210 |
| **City** | **State** | **Zip Code** | **E-Mail Address** |
| Crossett | AR | 71635 | Tommy.Smith2@gapac.com |

OMB Control No. 2080-0021. Approval expires 05/31/2023

EPA

United States Environmental Protection Agency
Office of Enforcement and Compliance Assurance

# DMR-QA Study 42

(This data is collected under the authority of Section 308 of the Clean Water Act.)

2022

| Permittee Name | NPDES Permit Number (State + 7-digit ID) | Permit Extension |
|---|---|---|
| Georgia-Pacific Crossett LLC | AR 0 0 0 1 2 1 0 | |

## Identification of all CHEM, MICRO and WET laboratories who performed analyses for this permit

| Laboratory Name | Laboratory Address | U.S. EPA Lab Code | Lab Analysis (Check box(es) that apply) | | | Lab Type* | State-certified Lab** |
|---|---|---|---|---|---|---|---|
| | | | Chem | Micro | WET | | |
| Georgia-Pacific Crossett LLC | 100 Mill Supply Road Crossett, AR 71635 | AR00936 | ☒ | ☐ | ☐ | I | ☐ |
| Ramboll | 201 Summit View Drive, STE, 300, Brentwood, TN 37027 | TN00907 | ☐ | ☐ | ☒ | C | ☐ |
| American Interplex Corp. | 8600 Kanis Road Little Rock, AR 72204 | AR00016 | ☒ | ☐ | ☐ | C | ☒ |
| | | | ☐ | ☐ | ☐ | | ☐ |
| | | | ☐ | ☐ | ☐ | | ☐ |
| | | | ☐ | ☐ | ☐ | | ☐ |

* Lab Types: C = Commercial; F = Federal; G = Local Government; I = Industrial; O = Other; S = State

** See Footnote on page 5 (Frequently Asked Questions) for the current list of states with lab accreditation programs

*If you need additional space, please make a copy of this page for additional laboratories.*

Permittee Name Georgia-Pacific Crossett LLC NPDES Permit No. AR 0 0 0 1 2 1 0 EPA Lab Code A R 0 0 9 3 6

EPA

# Chemistry/Microbiology Analyte Checklist

DMR-QA Study 42

2022

| Analyte Test | Test Required | Method Number Used (Optional) | Laboratory's Graded Result | | Analyte determined by state-certified lab* |
|---|---|---|---|---|---|
| | | | Acceptable | Not Acceptable (Corrective Action Required) | |
| ***Microbiology*** | | | | | |
| E. coli, MF or MPN | ☐ | | ☐ | ☐ | ☐ |
| Fecal Coliform, MF or MPN | ☐ | | ☐ | ☐ | ☐ |
| Total Coliform, MF or MPN | ☐ | | ☐ | ☐ | ☐ |
| ***Trace Metals*** | | | | | |
| Aluminum | ☐ | | ☐ | ☐ | ☐ |
| Antimony | ☐ | | ☐ | ☐ | ☐ |
| Arsenic | ☐ | | ☐ | ☐ | ☐ |
| Barium | ☐ | | ☐ | ☐ | ☐ |
| Beryllium | ☐ | | ☐ | ☐ | ☐ |
| Cadmium | ☐ | | ☐ | ☐ | ☐ |
| Chromium, total | ☐ | | ☐ | ☐ | ☐ |
| Chromium, hexavalent | ☐ | | ☐ | ☐ | ☐ |
| Cobalt | ☐ | | ☐ | ☐ | ☐ |
| Copper | ☐ | | ☐ | ☐ | ☐ |
| Iron | ☐ | | ☐ | ☐ | ☐ |
| Lead | ☐ | | ☐ | ☐ | ☐ |
| Manganese | ☐ | | ☐ | ☐ | ☐ |
| Mercury | ☐ | | ☐ | ☐ | ☐ |
| Mercury (Low Level) | ☐ | | ☐ | ☐ | ☐ |
| Molybdenum | ☐ | | ☐ | ☐ | ☐ |
| Nickel | ☐ | | ☐ | ☐ | ☐ |
| Selenium | ☐ | | ☐ | ☐ | ☐ |
| Silver | ☐ | | ☐ | ☐ | ☐ |
| Thallium | ☐ | | ☐ | ☐ | ☐ |
| Vanadium | ☐ | | ☐ | ☐ | ☐ |
| Zinc | ☐ | | ☐ | ☐ | ☐ |
| ***Demands*** | | | | | |
| 5-day BOD | ☒ | | ☒ | ☐ | ☐ |
| 5-day Carbonaceous BOD | ☐ | | ☐ | ☐ | ☐ |
| COD | ☐ | | ☐ | ☐ | ☐ |
| TOC | ☐ | | ☐ | ☐ | ☐ |
| ***Minerals*** | | | | | |
| Alkalinity, total ($CaCO_3$) | ☐ | | ☐ | ☐ | ☐ |
| Chloride | ☐ | | ☐ | ☐ | ☐ |
| Fluoride | ☐ | | ☐ | ☐ | ☐ |
| Hardness, total ($CaCO_3$) | ☐ | | ☐ | ☐ | ☐ |
| Specific conductance (25°C) | ☐ | | ☐ | ☐ | ☐ |
| Sulfate | ☐ | | ☐ | ☐ | ☐ |
| Total Dissolved Solids (180°C) | ☐ | | ☐ | ☐ | ☐ |
| ***Nutrients*** | | | | | |
| Ammonia as N | ☐ | | ☐ | ☐ | ☐ |
| Nitrate as N | ☐ | | ☐ | ☐ | ☐ |
| Nitrite as N | ☐ | | ☐ | ☐ | ☐ |
| Orthophosphate as P | ☐ | | ☐ | ☐ | ☐ |
| Total Kjeldahl-Nitrogen as N | ☐ | | ☐ | ☐ | ☐ |
| Total Phosphorus as P | ☐ | | ☐ | ☐ | ☐ |
| ***Misc. Analytes*** | | | | | |
| Non-Filterable Residue (TSS) | ☒ | | ☒ | ☐ | ☐ |
| Oil and Grease | ☐ | | ☐ | ☐ | ☐ |
| pH | ☒ | | ☒ | ☐ | ☐ |
| Total Cyanide | ☐ | | ☐ | ☐ | ☐ |
| Total Phenolics (4-AAP) | ☐ | | ☐ | ☐ | ☐ |
| Total Residual Chlorine | ☐ | | ☐ | ☐ | ☐ |
| Total Residual Chlorine (Low-Level) | ☐ | | ☐ | ☐ | ☐ |
| Settleable Solids | ☐ | | ☐ | ☐ | ☐ |
| Turbidity | ☐ | | ☐ | ☐ | ☐ |

Name Tommy D. Smith Signature Tommy D Smith Date 08/25/2022

* See Footnote on page 5



**Complete a separate checklist for EACH lab.**

Permittee Name Georgia-Pacific Crossett LLC NPDES Permit No. AR 0 0 0 1 2 1 0 EPA Lab Code TN 0 0 9 0 7

EPA

# Whole Effluent Toxicity (WET) Analyte Checklist

DMR-QA Study 42

2022

| Analyte Number | Organism / Conditions | Endpoint | Test Required | Laboratory's Graded Result: Acceptable | Laboratory's Graded Result: Not Acceptable (Corrective Action Required) | Analyte determined by state-certified lab* |
|---|---|---|---|---|---|---|
| **Test Code 13 (refer to EPA Method 2000.0)** | | | | | | |
| 754 | Fathead minnow *(Pimephales promelas)* - MHSF 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 14 (refer to EPA Method 2000.0)** | | | | | | |
| 755 | Fathead minnow *(Pimephales promelas)* - 20% DMW | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 15 (refer to EPA Method 1000.0)** | | | | | | |
| 756 | Fathead minnow *(Pimephales promelas)* - MHSF | NOEC SURVIVAL | ☒ | ☒ | ☐ | ☐ |
| 808 | Fathead minnow *(Pimephales promelas)* - MHSF | **IC25** (ON) GROWTH** | ☐ | ☐ | ☐ | ☐ |
| 810 | Fathead minnow *(Pimephales promelas)* - MHSF | NOEC (ON) GROWTH | ☒ | ☒ | ☐ | ☐ |
| **Test Code 16 (refer to EPA Method 1000.0)** | | | | | | |
| 759 | Fathead minnow *(Pimephales promelas)* - 20% DMW | NOEC SURVIVAL | ☐ | ☐ | ☐ | ☐ |
| 812 | Fathead minnow *(Pimephales promelas)* - 20% DMW | **IC25** (ON) GROWTH** | ☐ | ☐ | ☐ | ☐ |
| 814 | Fathead minnow *(Pimephales promelas)* - 20% DMW | NOEC (ON) GROWTH | ☐ | ☐ | ☐ | ☐ |
| **Test Code 19 (refer to EPA Method 2002.0)** | | | | | | |
| 764 | *Ceriodaphnia dubia* - MHSF 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 20 (refer to EPA Method 2002.0)** | | | | | | |
| 765 | *Ceriodaphnia dubia* - 20% DMW 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 21 (refer to EPA Method 1002.0)** | | | | | | |
| 766 | *Ceriodaphnia dubia* – MHSF | NOEC SURVIVAL | ☒ | ☒ | ☐ | ☐ |
| 767 | *Ceriodaphnia dubia* – MHSF | **IC25** REPRODUCTION** | ☐ | ☐ | ☐ | ☐ |
| 768 | *Ceriodaphnia dubia* – MHSF | NOEC REPRODUCTION | ☒ | ☒ | ☐ | ☐ |
| **Test Code 22 (refer to EPA Method 1002.0)** | | | | | | |
| 769 | *Ceriodaphnia dubia* - 20% DMW | NOEC SURVIVAL | ☐ | ☐ | ☐ | ☐ |
| 770 | *Ceriodaphnia dubia* - 20% DMW | **IC25** REPRODUCTION** | ☐ | ☐ | ☐ | ☐ |
| 771 | *Ceriodaphnia dubia* - 20% DMW | NOEC REPRODUCTION | ☐ | ☐ | ☐ | ☐ |
| **Test Code 32 (refer to EPA Method 2021.0)** | | | | | | |
| 788 | *Daphnia magna* - MHSF 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 38 (refer to EPA Method 2021.0)** | | | | | | |
| 794 | *Daphnia pulex* - MHSF 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 42 (refer to EPA Method 2007.0)** | | | | | | |
| 798 | Mysid *(Americamysis bahia, Mysidopsis bahia)* 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 43 (refer to EPA Method 1007.0)** | | | | | | |
| 799 | Mysid *(Americamysis bahia, Mysidopsis bahia)* | NOEC SURVIVAL | ☐ | ☐ | ☐ | ☐ |
| 816 | Mysid *(Americamysis bahia, Mysidopsis bahia)* | **IC25** (ON) GROWTH** | ☐ | ☐ | ☐ | ☐ |
| 818 | Mysid *(Americamysis bahia, Mysidopsis bahia)* | NOEC (ON) GROWTH | ☐ | ☐ | ☐ | ☐ |
| **Test Code 44 (refer to EPA Method 2006.0)** | | | | | | |
| 803 | Inland silverside *(Menidia beryllina)* 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 45 (refer to EPA Method 1006.0)** | | | | | | |
| 824 | Inland silverside *(Menidia beryllina)* | NOEC SURVIVAL | ☐ | ☐ | ☐ | ☐ |
| 825 | Inland silverside *(Menidia beryllina)* | **IC25** (ON) GROWTH** | ☐ | ☐ | ☐ | ☐ |
| 826 | Inland silverside *(Menidia beryllina)* | NOEC (ON) GROWTH | ☐ | ☐ | ☐ | ☐ |
| **Test Code 46 (refer to EPA Method 2004.0)** | | | | | | |
| 804 | Sheepshead minnow *(Cyprinodon variegatus)* 25°C | LC50 | ☐ | ☐ | ☐ | ☐ |
| **Test Code 47 (refer to EPA Method 1004.0)** | | | | | | |
| 805 | Sheepshead minnow *(Cyprinodon variegatus)* | NOEC SURVIVAL | ☐ | ☐ | ☐ | ☐ |
| 820 | Sheepshead minnow *(Cyprinodon variegatus)* | **IC25** (ON) GROWTH** | ☐ | ☐ | ☐ | ☐ |
| 822 | Sheepshead minnow *(Cyprinodon variegatus)* | NOEC (ON) GROWTH | ☐ | ☐ | ☐ | ☐ |

Name Tommy D. Smith Signature Tommy D Smith Date 08/25/2022

*See Footnote on page 5

**Complete a separate checklist for EACH lab.**

** Preferred endpoint for DMR-QA performance test reporting

Permittee Name Georgia-Pacific Crossett LLC NPDES Permit No. AR 0 0 0 1 2 1 0 EPA Lab Code A R 0 0 0 1 6

EPA

# Chemistry/Microbiology Analyte Checklist

DMR-QA Study 42

2022

| Analyte Test | Test Required | Method Number Used (Optional) | Laboratory's Graded Result: Acceptable | Laboratory's Graded Result: Not Acceptable (Corrective Action Required) | Analyte determined by state-certified lab* |
|---|---|---|---|---|---|
| ***Microbiology*** | | | | | |
| E. coli, MF or MPN | ☐ | | ☐ | ☐ | ☐ |
| Fecal Coliform, MF or MPN | ☐ | | ☐ | ☐ | ☐ |
| Total Coliform, MF or MPN | ☐ | | ☐ | ☐ | ☐ |
| ***Trace Metals*** | | | | | |
| Aluminum | ☐ | | ☐ | ☐ | ☐ |
| Antimony | ☐ | | ☐ | ☐ | ☐ |
| Arsenic | ☐ | | ☐ | ☐ | ☐ |
| Barium | ☐ | | ☐ | ☐ | ☐ |
| Beryllium | ☐ | | ☐ | ☐ | ☐ |
| Cadmium | ☐ | | ☐ | ☐ | ☐ |
| Chromium, total | ☐ | | ☐ | ☐ | ☐ |
| Chromium, hexavalent | ☐ | | ☐ | ☐ | ☐ |
| Cobalt | ☐ | | ☐ | ☐ | ☐ |
| Copper | ☒ | | ☐ | ☐ | ☒ |
| Iron | ☐ | | ☐ | ☐ | ☐ |
| Lead | ☐ | | ☐ | ☐ | ☐ |
| Manganese | ☐ | | ☐ | ☐ | ☐ |
| Mercury | ☐ | | ☐ | ☐ | ☐ |
| Mercury (Low Level) | ☐ | | ☐ | ☐ | ☐ |
| Molybdenum | ☐ | | ☐ | ☐ | ☐ |
| Nickel | ☐ | | ☐ | ☐ | ☐ |
| Selenium | ☐ | | ☐ | ☐ | ☐ |
| Silver | ☐ | | ☐ | ☐ | ☐ |
| Thallium | ☐ | | ☐ | ☐ | ☐ |
| Vanadium | ☐ | | ☐ | ☐ | ☐ |
| Zinc | ☒ | | ☐ | ☐ | ☒ |
| ***Demands*** | | | | | |
| 5-day BOD | ☒ | | ☐ | ☐ | ☒ |
| 5-day Carbonaceous BOD | ☐ | | ☐ | ☐ | ☐ |
| COD | ☐ | | ☐ | ☐ | ☐ |
| TOC | ☐ | | ☐ | ☐ | ☐ |
| ***Minerals*** | | | | | |
| Alkalinity, total ($CaCO_3$) | ☐ | | ☐ | ☐ | ☐ |
| Chloride | ☐ | | ☐ | ☐ | ☐ |
| Fluoride | ☐ | | ☐ | ☐ | ☐ |
| Hardness, total ($CaCO_3$) | ☐ | | ☐ | ☐ | ☐ |
| Specific conductance (25°C) | ☐ | | ☐ | ☐ | ☐ |
| Sulfate | ☐ | | ☐ | ☐ | ☐ |
| Total Dissolved Solids (180°C) | ☐ | | ☐ | ☐ | ☐ |
| ***Nutrients*** | | | | | |
| Ammonia as N | ☐ | | ☐ | ☐ | ☐ |
| Nitrate as N | ☒ | | ☐ | ☐ | ☒ |
| Nitrite as N | ☐ | | ☐ | ☐ | ☐ |
| Orthophosphate as P | ☐ | | ☐ | ☐ | ☐ |
| Total Kjeldahl-Nitrogen as N | ☐ | | ☐ | ☐ | ☐ |
| Total Phosphorus as P | ☒ | | ☐ | ☐ | ☒ |
| ***Misc. Analytes*** | | | | | |
| Non-Filterable Residue (TSS) | ☒ | | ☐ | ☐ | ☒ |
| Oil and Grease | ☐ | | ☐ | ☐ | ☐ |
| pH | ☐ | | ☐ | ☐ | ☐ |
| Total Cyanide | ☐ | | ☐ | ☐ | ☐ |
| Total Phenolics (4-AAP) | ☐ | | ☐ | ☐ | ☐ |
| Total Residual Chlorine | ☐ | | ☐ | ☐ | ☐ |
| Total Residual Chlorine (Low-Level) | ☐ | | ☐ | ☐ | ☐ |
| Settleable Solids | ☐ | | ☐ | ☐ | ☐ |
| Turbidity | ☐ | | ☐ | ☐ | ☐ |

Name Tommy D. Smith Signature Tommy D Smith Date 08/25/2022

* See Footnote on page 5



**Complete a separate checklist for EACH lab.**

ERA
A Waters Company

**Liza Heise**
**Ramboll Americas Engineering Solutions, Inc.**
**201 Summit View Dr. Suite 300**
**Brentwood, TN 37027**
**USA**

DMRWet-42 Final Report

DMR-QA Proficiency Report

# DMR-QA Study

## Open Date: 04/15/2022

## Close Date: 07/15/2022

## Report Issued Date: 08/12/2022

ERA
A Waters Company

August 12, 2022

Liza Heise
Ramboll Americas Engineering Solutions, Inc.
201 Summit View Dr. Suite 300
Brentwood, TN 37027

Enclosed is your final report for ERA's DMRWet 42 Proficiency Testing study. Your final report includes an evaluation of every result submitted by your facility to ERA.

All analytes in ERA's DMRWet 42 Proficiency Testing study have been evaluated by comparing the reported result to the acceptance limits generated using the criteria contained in the most current TNI Whole Effluent Toxicity Testing - Non-Potable Water FoPT table.

If you have any "Not Acceptable" evaluations for the DMRWet 42 study, please contact ERA's Customer Service Group at 1-800-372-0122, option 1, for your corrective action needs.

Thank you for your participation in ERA's DMRWet 42 Proficiency Testing study. If you have any questions regarding the study, please contact our Proficiency Testing Department at 1-800-372-0122, option 2.

Sincerely,

Matthew Seebeck
Quality Officer

attachments

ERA
A Waters Company

| Report Recipient | Contact/Phone Number | Reporting Type |
|---|---|---|
| Iowa | Kathleen Lee / 515-725-0343 | All Analytes |
| Kentucky | Patrick Garrity / 502-782-6954 | All Analytes |
| Louisiana | Paul Bergeron / 225-219-3247 | All Analytes |
| Oklahoma | David Caldwell / 405-702-1039 | All Analytes |
| South Carolina | Certification Officer / | All Analytes |
| West Virginia (DEP) | Justin D Carpenter / (304) 926-0499-1158 | All Analytes |

ERA
A Waters Company

# DMRWet-42 Definitions & Study Discussion

**Study Dates: 04/15/2022 - 07/15/2022**

**Report Issued: 08/12/2022**

## DMRWet Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The Assigned Values for NOEC Analytes are set to the Study Median of the data reported by laboratories using reported values of <6.25%, 6.25%, 12.5%, 25%, 50%, 100%, or >100%. If the Median falls between two of these values, then the Assigned Value is set to the higher value.

The Assigned Values for Non-NOEC Analytes are set to the Study Mean, calculated using reported values from 6.25% and 100%, inclusive.

The Lower Acceptance Limit for NOEC Analytes is the test dilution below the Median (or <6.25%, whichever is higher), the Upper Acceptance Limit is the test dilution above the Median (or >100%, whichever is lower). If the Median is between two test dilutions, then the Lower Acceptance Limit is the second test dilution below the Median and the Upper Acceptance Limit is the second test dilution above the Median.

The Acceptance Limits for Non-NOEC Analytes are the Study Mean +/- 2 Standard Deviations. If the upper limit is greater than 100%, then the Upper Acceptance Limit is set to >100%. If the lower limit is less than 6.25%, then the Lower Acceptance Limit is set to <6.25%.

The Performance Evaluation:

| | |
|---|---|
| Acceptable | = Reported Value falls within the Acceptance Limits. |
| Not Acceptable | = Reported Value falls outside the Acceptance Limits. |
| No Evaluation | = Reported Value cannot be evaluated. |
| Not Reported | = No Value reported. |

The Method Description is the method the laboratory reported to ERA.

## DMRWet Study Discussion

ERA's DMRWet 42 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard, Volume 3, and the criteria contained in the most current TNI Whole Effluent Toxicity Testing - Non-Potable Water FoPT table.

ERA's DMRWet 42 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in ththe 2016 TNI PT Standard and the criteria contained in the most current TNI Whole Effluent Toxicity Testing - Non-Potable Water FoPT table.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.



The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's DMRQA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122, option 2.

# DMRWet-42 Laboratory Exception Report

A Waters Company

**Liza Heise**
**Ramboll Americas Engineering Solutions, Inc.**
**201 Summit View Dr. Suite 300**
**Brentwood, TN 37027**
**(615) 277-7517**

| | |
|---|---|
| **EPA ID:** | **TN00907** |
| **ERA Customer Number:** | **E394911** |
| **Report Issued:** | **08/12/2022** |
| **Study Dates:** | **04/15/2022 - 07/15/2022** |

## Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.

ERA
A Waters Company

# Final Report Results For Laboratory
# Ramboll Americas Engineering Solutions, Inc.

ERA
A Waters Company

# Final Evaluation Report

Study: **DMRWet-42**

ERA Customer Number: **E394911**

Laboratory Name: **Ramboll Americas Engineering Solutions, Inc.**

## WET Results

# DMRWet-42 Final Report

A Waters Company

Liza Heise
Ramboll Americas Engineering Solutions, Inc.
201 Summit View Dr. Suite 300
Brentwood, TN 37027
(615) 277-7517

EPA ID: TN00907
ERA Customer Number: E394911
Report Issued: 08/12/2022
Study Dates: 04/15/2022 - 07/15/2022

| Analyte Code | Test End Point | Reported Value | Assigned Value % | Acceptance Limits % | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|---|---|---|---|---|---|---|---|---|---|---|---|

***DMRWet Fathead minnow (Test Code 13) (cat# WET002, lot# Q042-002)***
***48Hr., Acute, Non-Renewal, 25° C, MHSF***
***Potassium chloride***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0754 | LC50 | 61.3 | 60.3 | 40.5 - 80.2 | Acceptable | EPA 2000.0 MHSF 25 deg C 5th ED 2002 | 6/1/2022 | 0.0992 | 60.3 | 9.93 | |

| Analyte Code | Test End Point | Reported Value | Assigned Value % | Acceptance Limits % | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|---|---|---|---|---|---|---|---|---|---|---|---|

***DMRWet Fathead minnow (Test Code 15) (cat# WET004, lot# Q042-004)***
***7-day Chronic, Daily Renewal, MHSF***
***Potassium chloride***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0808 | IC25 (ON) Growth | 32.6 | 46.8 | 25.2 - 68.5 | Acceptable | EPA 1000.0 MHSF 2002 | 6/1/2022 | -1.31 | 46.8 | 10.8 | |
| 0810 | NOEC (ON) Growth | 25 | 25.0 | 12.5 - 50.0 | Acceptable | EPA 1000.0 MHSF 2002 | 6/1/2022 | | | | |
| 0756 | NOEC Survival | 50 | 25.0 | 12.5 - 50.0 | Acceptable | EPA 1000.0 MHSF 2002 | 6/1/2022 | | | | |

| Analyte Code | Test End Point | Reported Value | Assigned Value % | Acceptance Limits % | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|---|---|---|---|---|---|---|---|---|---|---|---|

***DMRWet Ceriodaphnia dubia (Test Code 19) (cat# WET008, lot# Q042-008)***
***48-Hr Acute, Nonrenewal, 25° C, MHSF***
***Potassium chloride***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0764 | LC50 | 36.1 | 58.3 | 31.7 - 84.9 | Acceptable | EPA 2002.0 nonrenewal MHSF 25°C 5th ED 2002 | 6/1/2022 | -1.67 | 58.3 | 13.3 | |

| Analyte Code | Test End Point | Reported Value | Assigned Value % | Acceptance Limits % | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|---|---|---|---|---|---|---|---|---|---|---|---|

# DMRWet-42 Final Report

A Waters Company

Liza Heise
Ramboll Americas Engineering Solutions, Inc.
201 Summit View Dr. Suite 300
Brentwood, TN 37027
(615) 277-7517

**EPA ID:** TN00907
**ERA Customer Number:** E394911
**Report Issued:** 08/12/2022
**Study Dates:** 04/15/2022 - 07/15/2022

***DMRWet Ceriodaphnia dubia (Test Code 21) (cat# WET010, lot# Q042-010)***
***3-Brood Chronic, Daily Renewal, MHSF***
***Potassium chloride***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0767 | IC25 Reproduction | 46.5 | 33.8 | 9.85 - 57.8 | Acceptable | EPA 1002.0 MHSF 2002 | 6/1/2022 | 1.06 | 33.8 | 12.0 | |
| 0768 | NOEC Reproduction | 25 | 25.0 | 12.5 - 50.0 | Acceptable | EPA 1002.0 MHSF 2002 | 6/1/2022 | | | | |
| 0766 | NOEC Survival | 50 | 50.0 | 25.0 - 100 | Acceptable | EPA 1002.0 MHSF 2002 | 6/1/2022 | | | | |

| Analyte Code | Test End Point | Reported Value | Assigned Value % | Acceptance Limits % | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|---|---|---|---|---|---|---|---|---|---|---|---|

***DMRWet Daphnia magna (Test Code 32) (cat# WET012, lot# Q042-012)***
***48Hr., Acute, Non-Renewal, 25° C, MHSF***
***Potassium chloride***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0788 | LC50 | 28.2 | 41.1 | 18.6 - 63.6 | Acceptable | EPA 2021.0 MHSF 25 deg C 5th ED 2002 | 6/7/2022 | -1.15 | 41.1 | 11.2 | |

| Analyte Code | Test End Point | Reported Value | Assigned Value % | Acceptance Limits % | Performance Evaluation | Method Description | Analysis Date | Z Score | Study Mean | Study Standard Deviation | Analyst Name |
|---|---|---|---|---|---|---|---|---|---|---|---|

***DMRWet Daphnia pulex (Test Code 38) (cat# WET015, lot# Q042-015)***
***48Hr., Acute, Non-Renewal, 25° C, MHSF***
***Potassium chloride***

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0794 | LC50 | 45.1 | 45.6 | 11.4 - 79.8 | Acceptable | EPA 2021.0 MHSF 25 deg C 5th ED 2002 | 6/7/2022 | -0.0318 | 45.6 | 17.1 | |

# CWA - Non-Potable Water
# FINAL Performance Evaluation Report
# NSI Laboratory Proficiency Testing Program
## Study DMRQA-42 - Shipped: 04/15/2022 - Closed: 07/15/2022 - Reports Printed On: 07/23/2022
## Participant USEPA Labcode: AR00936

Study Designed and Coordinated by:
NSI Lab Solutions
7212 ACC Blvd., Raleigh, NC 27617
ANAB Certificate#: AP-1693-1
1-800-234-7837

**This evaluation report is being submitted to:**
Georgia-Pacific, Crossett Paper
Attention: Rachel Johnson
PO Box 3333
Crossett, AR, 71635

**LabCode and Accreditation Information:**

| | |
|---|---|
| **Send Results to:** | State and EPA |
| **EPA Lab Code:** | AR00936 |
| **State Lab Code:** | |
| **Primary Agency:** | AR – Arkansas DEQPenny Semberski |
| Add'l Agencies below | 5301 Northshore Drive<br>North Little Rock, AR 72118-5317 |
| **Reports to:** | AR |
| | EPA Region VI |

**Participant Information**

| | |
|---|---|
| **NSI Lab Code:** | N08505 |
| **Permittee Code:** | AR0001210 |

This report was submitted by Rachel Johnson, Environmental Engineer
Georgia-Pacific, Crossett Paper
PO Box 3333
Crossett, AR, 71635
870-567-8170
Please contact Mark Hammersla at NSI Lab Solutions if you have any questions about this report.
(800) 234-7837 - mark.hammersla@nsilabsolutions.com
This PT report may contain data not covered under ANAB Accreditation. Such data is noted by an asterisk.

**PEI-026 Demand** - Georgia-Pacific, Crossett Paper - NSI Lab Solutions/DMRQA-42

| TNI Analyte | Analyte | TNI Method Code | Method Description | Reported Value | Study Mean | Assigned Value | Units | Standard Deviation | EPA Code[1] | Acceptance Limits | Evaluation | Analysis Date | Analyst's Name |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1530 | Biochemical oxygen demand | 20134605 | SM 5210 B | 35.0 | 35.1 | 33.8 | mg/L | 10.4 | AR00936 | 17.0 to 50.5 | ACCEPT. | 5/19/22 | K. Phillips |
| 1565 | Chemical Oxygen Demand (COD) | -- Not Reported -- | | | | | | | | | | | |
| 2040 | Total Organic Carbon (TOC) | -- Not Reported -- | | | | | | | | | | | |
| 1555 | Carbonaceous BOD (CBOD) | -- Not Reported -- | | | | | | | | | | | |

**PEI-035 pH** - Georgia-Pacific, Crossett Paper - NSI Lab Solutions/DMRQA-42

| TNI Analyte | Analyte | TNI Method Code | Method Description | Reported Value | Study Mean | Assigned Value | Units | Standard Deviation | EPA Code[1] | Acceptance Limits | Evaluation | Analysis Date | Analyst's Name |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1900 | pH | 20104603 | SM 4500-H+ B | 5.90 | 5.96 | 5.93 | units | 0.272 | AR00936 | 5.73 to 6.13 | ACCEPT. | 5/19/22 | K. Phillips |

**PEI-079 Residue** - Georgia-Pacific, Crossett Paper - NSI Lab Solutions/DMRQA-42

| TNI Analyte | Analyte | TNI Method Code | Method Description | Reported Value | Study Mean | Assigned Value | Units | Standard Deviation | EPA Code[1] | Acceptance Limits | Evaluation | Analysis Date | Analyst's Name |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1960 | Residue-nonfilterable (TSS) | 20050606 | SM 2540 D | 74.0 | 76.2 | 82.5 | mg/L | 7.83 | AR00936 | 67.5 to 91.8 | ACCEPT. | 5/19/22 | K. Phillips |
| 1950 | Residue-total (TS) | -- Not Reported -- | | | | | | | | | | | |

Assigned Values

All assigned values are established in a manner compliant with the current TNI FOT for Non-Potable Water. With the exception of TDS and Specific Conductance assigned values are equal to the analytically verified gravimetric true value of the PT sample. For TDS and Specific Conductance, the assigned value is set at the robust study mean.

Accuracy/Traceability/Uncertainty

All assigned values are analytically verified for formulation accuracy prior to shipment. A total of 10 randomly chosen samples are taken from the production run and analyzed against NIST SRMs or CRMs. Traceability to SI is established through microbalance calibration with NIST traceable test masses. The expanded uncertainty at 95% CI with K=2 of each assigned value is available upon request and is typically <0.50%.

Batch Homogeneity

Each individual PT sample batch is thoroughly mixed in production and guaranteed to be homogeneous. Homogeneity is verified analytically according to in-house SOP.

Stability

Each analyte has been verified stable through the end of the PT study by either long term monitoring or study closing stability testing.

Acceptance Limits

Acceptance limits are set according to current TNI limits. Where no limits are set by TNI, limits are set to ±3 standard deviations around the study mean after outlier correction.

Accredited Analytes

All analytes are included under our ISO 17043/TNI scope of accreditation (Certificate #: AP-1693-1) unless otherwise noted with an asterisk (*).

PT Study Summary

To view a summary of the PT study results, please see Study Summary Report available in our PT Datalink at www.nsilabsolutions.com.

* The study mean and standard deviation are presented after outlier correction and are based upon pooled reported results without consideration for analytical technology.

1 If present, the EPA Code of the lab that actually performed the analysis for this analyte.

Reviewed/Approved By: _____ Date: 07/23/2022
Mark Hammersla, President

Add'l Agencies: EPA Region VI -- EPA Region VI (6EN-WC)
Magda Dallemagne
1445 Ross Avenue Special Projects Section (6EN-WS)
Dallas, TX 75202

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**Should you disagree with any element of this PT report, please submit your complaint to nsi@nsilabsolutions.com. Include the study number, your contact information, NSI Labcode, and the nature of your disagreement. An NSI Lab Solutions representative will contact you within 48 hours.**