

Report Issued Date: 08/12/2022

Close Date: 07/15/2022

Open Date: 04/15/2022

DMR-QA Study

NPDES Permit: AR0022039

DMR-QA Proficiency Testing



Final Report

DMR-QA 42

Paul Holloway
West Memphis Utility
502 Rushing Rd.
West Memphis, AR 72301
USA

A Waters Company





A Waters Company

Study: DMR-QA 42
NPDES Permit #: AR0022039
Laboratory Name: West Memphis Utility

WET Results



Study # : DMR-QA 42



A Waters Company

August 12, 2022

Paul Holloway
West Memphis Utility
502 Rushing Rd.
West Memphis, AR 72301

Enclosed is your final report for ERA's DMR-QA 42 Proficiency Testing study. Please note that reports were sent on your behalf to your state or regional DMR-QA coordinator. As the permit holder, you are required to review and sign the attached EPA forms and checklists and forward them to your DMR-QA coordinator by September 9, 2022. Your coordinator's contact information is provided below.

All analytes in ERA's DMR-QA 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 Non-Potable Water and Whole Effluent Toxicity Testing-Non Potable Water Fields of Proficiency Testing (FoPT) tables.

If you have any "Not Acceptable" evaluations for the DMR-QA 42 study, a letter of corrective action and an order form for the required remedial samples are attached for your convenience. If you have a "Not Acceptable" evaluation, but there is not an order form or a list of standards for your in-house or outside laboratories, ERA recommends that you contact your DMR-QA coordinator for their corrective action requirements, if any.

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

Your DMR-QA coordinator is:

Arkansas Department of Energy and Environment
Yvette Wilkins

5301 Northshore Dr.
North Little Rock, AR 72118
Phone: 501-682-0637
waterlab@adeq.state.ar.us

Sincerely,

Matthew Seebeck
Quality Officer

attachments



DMR-QA 42 Definitions & Study Discussion



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

Report issued: 08/12/2022

DMRQA Study Definitions

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

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) table. A parameter not added to the standard is given an Assigned Value of "> PTRL" per the guidelines contained in the 2016 TNI Standard. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

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.

DMRQA Study Discussion

ERA's DMR-QA 42 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's DMR-QA 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 the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All analytes are included in ERA's AZLA accreditation, certification number 1539.01.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers: 880, 935, 079, 077, 080, 595, 595A, 576, 576A

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

ERA's DMR-QA 42 study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by participating laboratories to claim product endorsement by any agency of the U. S. government.

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.



Study #: DMR-QA 42



USEPA DMR-GA 42

NPDES PERMITTEE DATA REPORT FORM



Due September 9, 2022
USEPA NPDES AR0022039

Permit #: AR0022039 Permit Ext:

Permittee Name: West Memphis Utility

Facility Address: WEST MEMPHIS UTILITY

City: WEST MEMPHIS
State: AR Postal Code:

Phone Number: (870) 735-9862
Fax Number:
E-mail address: phol1owr@westmemphis.org

Optional: If WP study was used, list PT provider name:
Optional: WP study number(s):

For DMRGA-42, conducted in 2022, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples
Yes No

Submitted Complete and Accurate Data
by July 15, 2022
Yes No

Received a Graded Report by
August 12, 2022
Yes No

Certification by Permit Holder or Authorized Representative
(as per 40 C.F.R. Section 122.22)

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 from independent analyses conducted by us or any other laboratory before we reported our results to the USEPA. 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: Paul Holloway
Signature: Paul Holloway
Mailing Address: 502 Rushing Rd.
City: West Memphis State: AR Postal Code: 72301
E-mail address: phol1owr@westmemphis.org

Title: Superintendent
Date Signed: 9/18/2022

Please make corrections in boxes above

**United States
ENVIRONMENTAL PROTECTION AGENCY**
Laboratory Performance Evaluation
Laboratory DMR-QA Evaluation Study 42
USEPA NPDES Permit #: AR0022039
Permit Ext:

Identification of all CHEM, MICRO and TOX laboratories who did analyses for this permit

State-certified Lab**	Lab Type*	Lab Analysis Check box(es) that apply			U.S. EPA Lab Code	Address of Laboratory	Name of Laboratory
		CHEM	MICRO	TOX			
<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TN00012	2790 Whitten Road Memphis, TN 38133	Waypoint Analytical, LLC

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State
** See Footnote 2 on DMRQA-42, Frequently Asked Questions page

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A Waters Company

DMR-QA 42 Final Report

NPDES Permit #: AR0022039

Permit Holder:
Paul Holloway
Superintendent
West Memphis Utility
(870) 735-9862

ERA Customer Number: O184517

Report Issued: 08/12/2022
Study Dates: 04/15/2022 - 07/15/2022

Analyte Code	Test End Point	Performance Evaluation	Reported Value %	Assigned Value %	Acceptance Limits %	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
<i>DMRWet Fathead minnow (Test Code 14) (cat# WET003, lot# Q042-003)</i>										
<i>48Hr., Acute, Non-Renewal, 25° C, 20% DMW</i>										
<i>Potassium chloride</i>										
0755	LC50	Acceptable	39.16	49.9	28.0 - 71.7	EPA 2000.0 DMW 5th ED 2002	49.9	10.9	TN00012	DMRWet42
<i>DMRWet Fathead minnow (Test Code 14) (cat# WET003, lot# Q042-003)</i>										
<i>48Hr., Acute, Non-Renewal, 25° C, 20% DMW</i>										
<i>Potassium chloride</i>										
0755	LC50	Acceptable	39.16	49.9	28.0 - 71.7	EPA 2000.0 5th ED 2002	49.9	10.9	TN00012	DMRWet42
<i>DMRWet Daphnia pulex (Test Code 38) (cat# WET015, lot# Q042-015)</i>										
<i>48Hr., Acute, Non-Renewal, 25° C, MHSF</i>										
<i>Potassium chloride</i>										
0794	LC50	Acceptable	30.52	45.6	11.4 - 79.8	EPA 2021 Acute	45.6	17.1	TN00012	DMRWet42
<i>DMRWet Daphnia pulex (Test Code 38) (cat# WET015, lot# Q042-015)</i>										
<i>48Hr., Acute, Non-Renewal, 25° C, MHSF</i>										
<i>Potassium chloride</i>										
0794	LC50	Acceptable	30.52	45.6	11.4 - 79.8	EPA 2021.0 5th ED 2002	45.6	17.1	TN00012	DMRWet42
<i>DMRWet Daphnia pulex (Test Code 38) (cat# WET015, lot# Q042-015)</i>										
<i>48Hr., Acute, Non-Renewal, 25° C, MHSF</i>										
<i>Potassium chloride</i>										
0794	LC50	Acceptable	30.52	45.6	11.4 - 79.8	EPA 2021.0 Acute 5th ED 2002	45.6	17.1	TN00012	DMRWet42



Study #: DMR-QA 42

WET Organisms/Test Conditions/End Points Checklist

DMRWet Study 42

Analyte Number	Organisms / Conditions	End Points	Test Req	Laboratory's Graded Result		Analyte determined by state-certified lab
				Acceptable (Corrective Action Required)	Not Acceptable	
Fathead minnow (Test Code 13)						
0754	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
Fathead minnow (Test Code 14)						
0755	48Hr., Acute, Non-Renewal, 25° C, 20% DMW EPA 2000.0 DMW	LC50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fathead minnow (Test Code 15)						
0808	7-day Chronic, Daily Renewal, MHSF	IC25 (ON)				
0810	7-day Chronic, Daily Renewal, MHSF	Growth NOEC (ON)				
0756	7-day Chronic, Daily Renewal, MHSF	Growth NOEC Survival				
Fathead minnow (Test Code 16)						
0812	7-day Chronic, Daily Renewal, 20% DMW	IC25 (ON)				
0814	7-day Chronic, Daily Renewal, 20% DMW	Growth NOEC (ON)				
0759	7-day Chronic, Daily Renewal, 20% DMW	Growth NOEC Survival				
Ceriodaphnia dubia (Test Code 19)						
0764	48-Hr Acute, Nonrenewal, 25° C, MHSF	LC50				
Ceriodaphnia dubia (Test Code 20)						
0765	48-Hr Acute, Nonrenewal, 25° C, 20% DMW	LC50				
Ceriodaphnia dubia (Test Code 21)						
0767	3-Brod Chronic, Daily Renewal, MHSF	IC25				
0768	3-Brod Chronic, Daily Renewal, MHSF	Reproduction NOEC				
0766	3-Brod Chronic, Daily Renewal, MHSF	Reproduction NOEC Survival				
Ceriodaphnia dubia (Test Code 22)						
0770	3-Brod Chronic, Daily Renewal, 20% DMW	IC25				
0771	3-Brod Chronic, Daily Renewal, 20% DMW	Reproduction NOEC				
0769	3-Brod Chronic, Daily Renewal, 20% DMW	Reproduction NOEC Survival				
Daphnia magna (Test Code 32)						
0788	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
Daphnia pulex (Test Code 38)						
0794	48Hr., Acute, Non-Renewal, 25° C, MHSF EPA 2021 Acute	LC50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mysid (Test Code 42)						
0798	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
Mysid (Test Code 43)						
0816	7-day Chronic, Daily Renewal, SSW	IC25 (ON)				
0818	7-day Chronic, Daily Renewal, SSW	Growth NOEC (ON)				
0799	7-day Chronic, Daily Renewal, SSW	Growth NOEC Survival				

WET Organisms/Test Conditions/End Points Checklist

DMRWet Study 42

Analyte Number	Organisms / Conditions	End Points	Test Req	Laboratory's Graded Result		Analyte determined by state-certified lab
				Acceptable	Not Acceptable (Corrective Action Required)	
0803	Inland silverside (Test Code 44) 48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
0825	Inland Silverside (Test Code 45) 7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth NOEC (ON)				
0826	7-day Chronic, Daily Renewal, SSW	NOEC (ON) Growth NOEC Survival				
0824	7-day Chronic, Daily Renewal, SSW	NOEC Survival				
0804	Sheepshead minnow (Test Code 46) 48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
0820	Sheepshead minnow (Test Code 47) 7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth NOEC (ON)				
0822	7-day Chronic, Daily Renewal, SSW	Growth NOEC (ON)				
0805	7-day Chronic, Daily Renewal, SSW	Growth NOEC Survival				

Use a separate checklist for EACH lab used

Date
9/8/22

Print Name
Paul Holloway
Signature/Title
Superintendent