

Tony Brown City of Siloam Springs PO Box 80 Siloam Springs, AR 72761 USA



DMR-QA Proficiency Testing

NPDES Permit: AR0020273

DMR-QA Study

Open Date: 04/15/2022

Close Date: 07/15/2022

Report Issued Date: 08/12/2022



August 12, 2022

Tony Brown City of Siloam Springs PO Box 80 Siloam Springs, AR 72761

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 A2LA 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 the 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.







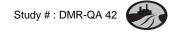
Study: DMR-QA 42

NPDES Permit #: **AR0020273**

Laboratory Name: City of Siloam Springs

Inorganic Results







DMR-QA 42 Final Report

NPDES Permit #: AR0020273
Permit Holder: Tony Brown

Wastewater Superintendent
City of Siloam Springs

975 Anderson Ave. Siloam Springs, AR 72761

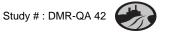
(479) 524-5623

ERA Customer Number: C465901 Report Issued: 08/12/2022

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

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA	DMRQA pH (cat# 577, lot# Q042-977)										
1900	рН	S.U.	Acceptable	7.86	7.83	7.63 - 8.03	SM 4500-H+ B-2000 2000	7.88	0.0752	AR20273	DMRQA42
DMRQA	DMRQA Total Residual Chlorine (cat# 587, lot# Q042-501)										
1940	Total Residual Chlorine	mg/L	Acceptable	1.59	1.72	1.27 - 2.02	SM 4500-CI G-2000 2000	1.61	0.114	AR20273	DMRQA42







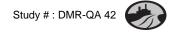
Study: DMR-QA 42

NPDES Permit #: **AR0020273**

Laboratory Name: City of Siloam Springs

Microbiology Results





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DMR-QA 42 Final Report

NPDES Permit #: AR0020273
Permit Holder: Tony Brown

Tony Brown Wastewater Superintendent

City of Siloam Springs 975 Anderson Ave.

Siloam Springs, AR 72761

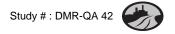
(479) 524-5623

ERA Customer Number: C465901 Report Issued: 08/12/2022

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

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA	DMRQA WasteWatR™ Coliform MicrobE™ (cat# 576, lot# Q042-083)										
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL	Acceptable	68.9	134	49.0 - 365	Colilert®-18 (Fecal Coliforms) 2010	134	52.7	AR20273	DMRQA42





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USEPA DMR-QA 42

NPDES PERMITTEE DATA REPORT FORM



A Waters Company

					1 3
		USEPA NPDES	AR0020273		
Due September 9, 2022				Permit Ext:	
		Permit #:		1 Silline Exter	
Permittee Name:	City of Siloam Springs				
Facility Address:	975 Anderson Ave.				
racility Address.	373 Aliderson Ave.				
City:	Siloam Springs		State: AR	Postal Code: 72761	
Phone Number:	(479) 524-5623		Fax Number:		
Thone Number.	(475) 524-5025		rax Number.		
E-mail address:	abrown@siloamspring	s.com			
Optional: If WP st	udy was used, list PT pr	ovider name:	Optiona	I: WP study number(s):	
		_			
For DMRQA-42, cor	nducted in 2022, the Per	mittee ensured that th	eir laboratory(s) per	forming the required analyses:	
Received PT S	amnles	Submitted Complete	e and Accurate Data	Received a Grad	led Penort by
Received 1 1 of	umpies	by July 15, 2022	e and Accurate Data	August 12, 2022	
Yes □ No	П	Yes □ No □	٦	Yes □ No	П
Ш	Ш				
	Се	rtification by Permit F		Representative	
I certify under penalty of	f law that this document and a	` ·	C.F.R. Section 122.22) ared under my direction of	r supervision in accordance with a sys	tem designed to assure that
qualified personnel prop	perly gather and evaluate the	information submitted. Ba	sed on my inquiry of the p	person or persons who manage the sy belief, true, accurate and complete. E	stem, or those persons directly
produced from a single	analytical run using the analy	tical system that rountinely	performs these analyses	s to produce compliance monitoring da	ata required under our National
other laboratory before	we reported our results to the			d our results from independent analys alties for submitting false information, i	
and imprisonment for kr	nowing violations.				
Name of Certifying Official:	Tony Brown		Title	e: Wastewater Superintendent	
Signature:	Tony Brown			Date Signed:	8/25 /2022
Mailing Address:	PO Box 80				
(enter only if different					
from address above)					
City:	Siloam Springs		State: AR	Postal Code: 72761	
Phone Number:	(479) 524-5623		E-mail address: at	prown@siloamsprings.com	
Hamber.					

United States

ENVIRONMENTAL PROTECTION AGENCY

Laboratory Performance Evaluation
Laboratory DMR-QA Evaluation Study 42

USEPA NPDES Permit #: AR0020273 Permit Ext:

Identification of all CHEM, MICRO and TOX laboratories who did analyses for this permit							
Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code		b Analy k box(es apply		Lab	State- certified
•		ode	CHEM	MICRO	тох	Type*	Lab**
City of Siloam Springs	PO Box 80 Siloam Springs,AR 72761	AR20273	30		200		

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Permittee Name: City of Siloam Springs Permit Number: AR0020273 EPA Lab Code: AR20273

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

		I aborate	pry's Graded Result	
		Laborate	Analyte determined by	
Analyte Test / Method	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	state-certified lab
<u>Minerals</u>				
Alkalinity as CaCO3				
Chloride				
Conductivity at 25°C				
Fluoride				
Potassium Sodium				
Sulfate				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Hardness				
Total Suspended Solids				
Calcium				
Magnesium				
Calcium Hardness as CaCO3				
Total Hardness as CaCO3				
pH SM 4500-H+ B-2000		<u> </u>		
Settleable Solids		X		
Settleable Solids Solids Concentrate				
Total Suspended Solids Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Solids				
Total Suspended Solids				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Simple Nutrients				
Ammonia as N				
Nitrate + Nitrite as N				
Nitrate as N				
ortho-Phosphate as P Total Nitrogen				
Complex Nutrients				
Total Kjeldahl Nitrogen				
Total phosphorus as P				
Nitrite				
Nitrite as N				
Demand				
BOD				
CBOD				
COD				

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Permittee Name: City of Siloam Springs Permit Number: AR0020273 EPA Lab Code: AR20273

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

		Laborate		
Analyte Test / Method	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified lab
TOC				
Oil & Grease Concentrate				
n-Hexane Extractable Material(O&G)				
(Grav)				
Oil & Grease				
n-Hexane Extractable Material(O&G)				
(Grav)				
n-Hexane Extractable Material(O&G)				
(IR)				
Trace Metals				
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Manganese				
Molybdenum				
Nickel				
Selenium				
Silver				
Strontium				
Thallium				
Vanadium				
Zinc				
Mercury				
Mercury				
Low-Level Mercury				
Low Level Mercury				
Hexavalent Chromium				
Hexavalent Chromium Turbidity				
Turbidity				
Total Cyanide				
Cyanide, total				
Amenable Cyanide				
Available Cyanide				

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Permittee Name: City of Siloam Springs Permit Number: AR0020273 EPA Lab Code: AR20273

Chemistry/Microbiology Analyte Checklist

DMRQA Study 42

		Laborato	ory's Graded Result	
Analyte Test / Method	Test Required	Acceptable	Not Acceptable (Corrective Action Required)	Analyte determined by state-certified lab
Total Phenolics (4-AAP)				
Phenolics, total				
Total Residual Chlorine				
Free Residual Chlorine				
Total Residual Chlorine	_		<u>_</u>	_
SM 4500-Cl G-2000		X		
Low-Level Total Residual Chlorine				
Low Level Total Residual Chlorine				
WasteWatR™ Coliform MicrobE™				
Total Coliforms (MF)				
Fecal Coliforms (MF)				
E.coli (MF)				
Total Coliform (MPN-Multiple Well)				
Fecal Coliform (MPN-Multiple Well) Colilert®-18 (Fecal Coliforms)		[[]		
,		☒		
E.coli (MPN-Multiple Well) WasteWatR™ Coliform MicrobE™ - SM				
9221				
Total Coliform (MPN-Multiple Tube)				
Fecal Coliform (MPN-Multiple Tube)				
E.coli (MPN-Multiple Tube)				

Tony Brown		8/25/2022
Print Name Brown	Wastewater Superintendent	Date
Signature/Title	<u> </u>	Use a separate checklist for EACH lab used

CERTIFICATE OF RECOGNITION

ERA congratulates CITY OF SILOAM SPRINGS

for your participation and successful evaluation in DMR-QA 42. We recognize the performance of this laboratory for achieving acceptable evaluations for the following analytes.

Fecal Coliform (MPN-Multiple pH Well)

Total Residual Chlorine

Matthew Seebeck
Quality Officer