

Arkansas Department of Health

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Little Rock, Arkansas 72205-3867

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Nathaniel Smith, MD, MPH, Director and State Health Officer

Engineering Section, Slot 37

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www.HealthyArkansas.gov/eng/

After Hours Emergency 800-554-5738

July 30, 2018

CITY OF WARD WARD WATERWORKS P.O. BOX 334 WARD AR 72176

System is in compliance with MCLs and dELs

RE: Stage 2 Disinfectants and Disinfection Byproducts Rule

Total Trihalomethanes and Haloacetic Acids (TTHM & HAA5) Analyses

PWS ID: 345

Dear Operator:

Attached are the results of the Stage 2 Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5) analyses of the water samples collected from your public water system during the third quarter, 2018. Also attached is a report summarizing compliance calculations and Operational Evaluation Levels (OELs) based on the results.

The Stage 2 Disinfectants and Disinfection Byproducts Rule establishes the Maximum Contaminant Levels (MCLs) to be 80 ppb for TTHM and 60 ppb for HAA5, as Locational Running Annual Averages (LRAAs) calculated quarterly at each monitoring site.

If an OEL exceeds 80 ppb or 60 ppb for TTHM or HAA5 respectively, the system must conduct an operational evaluation and submit a written report of the evaluation to the state no later than 90 days after the receipt of the analytical result that caused the exceedance. The written report must be made available to the public upon request. If a system is readily able to identify the cause of the OEL exceedance, it may request permission to limit the scope of the evaluation.

All TTHM and HAA5 LRAAs were within the allowable limits of the Primary Drinking Water Standards of the Safe Drinking Water Act, and no OELs were exceeded this monitoring period.

Federal law requires that the water system keep a copy of the analytical reports for a minimum of ten years. If you have any questions or need assistance, feel free to contact your district staff or me at 501-661-2623.

Sincerely,

Jack Wilson

Disinfection Byproducts Environmental Specialist

Engineering Section

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AH:CA:GAG:JC:GS:jw

enclosures

File: WARD WATERWORKS, 345

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Report of Sample Analysis

Organic Chemistry Laboratory
Arkansas Public Health Laboratory
201 South Monroe
Little Rock AR 72205

Program

PHE-SDWA **Collection Report Number:** 154953 Bottle ID # 25-133 Time: 10:00 By: Cary McManus Date: July 04, 2018 Receipt Information Date: July 05, 2018 Received By: **FGULLEY** Submitted By: Time: 10:39 Cary McManus Site Information PWS#: Water System: Ward Waterworks 345 Sampling site: 307 Cross Street, Bacti Site 345B002 District: 4 Location Site Code: County: 345YD010 Lonoke Sample Description Profile:THMMS Type:DIS Category: PUB Source:Well Condition: N/A Purpose: CMP Sample Number: O18186015302 Analytical Method 524.2 "Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectroscopy", 1995, U. S. EPA Environmental Monitoring Systems Laboratory, Cincinnati, Ohio 45268 (Revision 4.1) **Analytical Results** Regulated Analytes Bromoform <1.0 ug/L 55.0 Chloroform ug/L 1.0 Dibromochloromethane ug/L Dichlorobromomethane 7.3 ug/L Total Trihalomethanes 63.3 ug/L Result reported may differ from the summation of the individual analytes due to rounding. Sample Result Comments Sample Comments: Batch Run# 33538 07/11/2018 Analysis Date: 6 Jul 2018 6:32 pm Report Date: Extract Date: 07/06/18

BJ Jefferson, Chemist II

Dorothy Ferguson, Supervisor

Report of Sample Analysis

Organic Chemistry Laboratory
Arkansas Public Health Laboratory
201 South Monroe
Little Rock AR 72205

Program

PHE-SDWA Bottle ID # 25-132 Collection Report Number: 154954 Date: July 04, 2018 Time: 09:40 By: Cary McManus Receipt Information Date: July 05, 2018 Received By: **FGULLEY** Time: Submitted By: 10:39 Cary McManus Site Information PWS#: Water System: Ward Waterworks 345 4 Sampling site: 161 Prairie Lane, Bacti Site 345B005 District: Location Site Code: County: 345YD011 Lonoke Sample Description Condition:N/A Profile:THMMS Category: PUB Source: Well Purpose: CMP Type:DIS Sample Number: O18186015202 **Analytical Method** 524.2 "Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectroscopy", 1995, U. S. EPA Environmental Monitoring Systems Laboratory, Cincinnati, Ohio 45268 (Revision 4.1) **Analytical Results** Regulated Analytes Bromoform <1.0 ug/L Chloroform 57.3 ug/L Dibromochloromethane <1.0 ug/L 7.0 Dichlorobromomethane ug/L Total Trihalomethanes 64.3 ug/L Result reported may differ from the summation of the individual analytes due to rounding. Sample Result Comments Sample Comments: Batch Run# 33538 Analysis Date: 6 Jul 2018 7:03 pm 07/11/2018 07/06/18 Report Date: Extract Date: Darethy Mr. Finguson

Dorothy Ferguson, Supervisor

Page 1 of 1

BJ Jefferson, Chemist II

Date: July 04, 2018

Report of Sample Analysis

Organic Chemistry Laboratory Arkansas Public Health Laboratory 201 South Monroe Little Rock AR 72205

Program

Collection Report Number:

154953

PHE-SDWA

Time: 10:00

Bottle ID # 27-699

Cary McManus

Receipt Information Date: July 05, 2018 Time: 10:39

Received By: FGULLEY Submitted By:

Cary McManus

Site Information

Water System:

Ward Waterworks

PWS#:

345

Sampling site:

307 Cross Street, Bacti Site 345B002

District:

4

Location Site Code:

345YD010

County:

Lonoke

By:

Sample Description

Profile:HAA

Type:DIS

Category: PUB

Source:Well

Condition: N/A

Purpose: CMP

Sample Number:

O18186015301

Analytical Method

552.2

"Determination of Haloacetic Acids and Dalapon by Liquid-Liquid Extraction, Derivatization, and Gas Chromatography with Electron Capture Detection", 1995, U.S. EPA Environmental Monitoring

Systems, Cincinnati, Ohio 45268 (Revision 1.0)

Analytical Results

Regulated Analytes

<1.0 ug/L **DBAA DCAA** 14.2 ug/L <1.0 **MBAA** ug/L **MCAA** 2.6 ug/L 9.9 ug/L **TCAA** 26.7 ug/L Total HAA

Result reported may differ from the summation of the individual analytes due to

rounding.

Unregulated Analytes

2.1

ug/L

Sample Result Comments

Sample Comments:

Batch Run#

33546

07/24/2018 Report Date:

Extract Date: 07/14/18

Analysis Date: 7/16/2018

2:15:09 AM

Jimmy Threet, Chemist I

Dorothy Ferguson, Supervisor

Report of Sample Analysis

Organic Chemistry Laboratory
Arkansas Public Health Laboratory
201 South Monroe
Little Rock AR 72205

Program

PHE-SDWA Bottle ID # 27-696 154954 Collection Report Number: Time: 09:40 By: Cary McManus Date: July 04, 2018 Receipt Information Received By: Date: **FGULLEY** July 05, 2018 Time: Submitted By: 10:39 Cary McManus Site Information PWS#: Water System: Ward Waterworks 345 161 Prairie Lane, Bacti Site 345B005 District: 4 Sampling site: County: Lonoke Location Site Code: 345YD011 Sample Description Condition:N/A Purpose: CMP Source:Well Profile:HAA Type:DIS Category: PUB Sample Number: O18186015201 **Analytical Method** "Determination of Haloacetic Acids and Dalapon by Liquid-Liquid Extraction, Derivatization, and 552.2 Gas Chromatography with Electron Capture Detection", 1995, U.S. EPA Environmental Monitoring Systems, Cincinnati, Ohio 45268 (Revision 1.0) Analytical Results Regulated Analytes <1.0 ug/L **DBAA** 14.5 ug/L **DCAA** <1.0 ug/L **MBAA** 2.6 ug/L **MCAA** 9.7 ug/L **TCAA** 26.9 ug/L Total HAA Result reported may differ from the summation of the individual analytes due to rounding. Unregulated Analytes 2.0 ug/L **BCAA** Sample Result Comments Sample Comments: Batch Run# 33546 Analysis Date: 7/16/2018 2:57:43 AM Extract Date: 07/14/18 Report Date: 07/24/2018

Jimmy Threet, Chemist I

Dorothy Ferguson, Supervisor

Stage 2 D/DBPR TTHM/HAA5 LRAA and OEL Calculations Report

PWS ID: 345

PWS Name: Ward Waterworks

3rd Quarter, 2018

Status: Reduced

Frequency: Every 90 Days

Pop: 11635

Number of Sites: 2

Frequency Approved: 1/23/2018

Sample Site	Analyte	Jan, Feb, Mar	Apr, May, Jun	Jul, Aug, Sep	Oct, Nov, Dec	OEL	LRAA
345YD008	TTHM	14.5	27.1		36.4		***************************************
345YD009	TTHM	11.4	23.2		33.7		
345YD010	TTHM	15.4	29.7	63.3	39.7	43	37
345YD011	TTHM	15.9	32.4	64.3	42.7	44	39
345YD008	HAA	10.8	16.4		16		
345YD009	HAA	8.8	16.9	THE STATE OF THE S	14.3	- 100 mm of management (100 mm of 100 mm of 10	and the second of the second s
345YD010	HAA	10.9	13.5	26.7	15.7	19	17
345YD011	HAA	11.1	16.4	26.9	13.1	20	17