



September 07, 2017
Client: Rogers Co. RWD #12
9838 North Cadbury Ridge
Owasso, OK 74055

Requested By: James Mitschke



National
Environmental
Laboratory
Accreditation
Program
Kansas CERT # E-10219

Sample Project Name: Stage II Disinfection Byproducts (DBP)

Date Samples Received: August 30, 2017 Time: 15:06 sample temp upon arrival at lab = 9°C - On Ice

Matrix: Drinking Water

Lab Log Numbers: **7H30111-01**

Work Order: 7H30111

Report # 7H30111-0907170802

EPA Lab ID#'s: **Stillwater OK00092 Tulsa OK00983 OKC OK00129 ICR OK 001**

Oklahoma Certification: Stillwater WasteWater, DEQ 8316/ Drinking Water, DEQ D9602
Tulsa WasteWater, DEQ 9905 / Drinking Water, DEQ D9901
Oklahoma City WasteWater DEQ 7202 / Drinking Water, DEQ D9937

Kansas Certification: Stillwater NELAP CERT # E-10219

New Jersey Certification: Oklahoma City Drinking Water NELAP CERT # OK005

Texas Certification: Stillwater Drinking Water NELAP CERT # T105704533-14-1

Method Reference: 40 CFR 136, 141, and 261 Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020, March 1983. Test Methods for Evaluating Solid Wastes, SW-846, Final Update III. Standard Methods 1998 (20th Edition), Standard Methods 2005 (21st Edition) and Standard Methods 2011 (22nd Edition) for the Examination of Water and Wastewater.

Analysis Reference: If qualifiers present in "Prep Info" or "Analysis Info", then analysis performed as follows: @= Tulsa Lab and * = OKC Lab. If no qualifiers present, then analysis performed at Stillwater Lab.

Accurate Environmental Laboratories certify that the test results performed at the Stillwater lab meet all requirements of NELAP. Any exceptions to this can be found in the report footer or Quality Control Section of the report.

This report is to only be replicated in its entirety.

Accurate Environmental sampling protocol was followed for any sampling performed by Accurate Field Services.

Sample: **DBPMX**

Location Code: DBPMX

PWSID#: OK3006648

Collection Type: Grab

Sample Time: 8/30/17 10:30

Lab Log# 7H30111-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
THMs by EPA Method 524.3	Chloroform	26.5 ug/L		1.00	09/01/17 09:45 MW	09/01/17 15:06 MW
THMs by EPA Method 524.3	Bromodichloromethane	13.5 ug/L		1.00	09/01/17 09:45 MW	09/01/17 15:06 MW
THMs by EPA Method 524.3	Dibromochloromethane	4.63 ug/L		1.00	09/01/17 09:45 MW	09/01/17 15:06 MW
THMs by EPA Method 524.3	Bromoform	BPQL ug/L		1.00	09/01/17 09:45 MW	09/01/17 15:06 MW
THMs by EPA Method 524.3	Total THMs	44.6 ug/L		1.00	09/01/17 09:45 MW	09/01/17 15:06 MW
HAAs by EPA Method 552.2	Monochloroacetic acid	BPQL ug/L		2.00	09/01/17 08:13 MMV	09/02/17 05:48 MMV
HAAs by EPA Method 552.2	Monobromoacetic acid	BPQL ug/L		1.00	09/01/17 08:13 MMV	09/02/17 05:48 MMV
HAAs by EPA Method 552.2	Dichloroacetic acid	9.17 ug/L		1.00	09/01/17 08:13 MMV	09/02/17 05:48 MMV
HAAs by EPA Method 552.2	Dibromoacetic acid	BPQL ug/L		1.00	09/01/17 08:13 MMV	09/02/17 05:48 MMV
HAAs by EPA Method 552.2	Trichloroacetic acid	7.00 ug/L		1.00	09/01/17 08:13 MMV	09/02/17 05:48 MMV
HAAs by EPA Method 552.2	Total HAAs	16.2 ug/L		1.00	09/01/17 08:13 MMV	09/02/17 05:48 MMV

Notes and Definitions

MCL Analyte concentration may exceed Maximum Contaminant Limit (MCL) for EPA Primary or Secondary Drinking Water Regulations.

Analyte concentration may exceed regulatory limit.

PQL Practical Quantitation Limit - the method reporting limit (MRL) adjusted for any dilutions or other changes made to the sample to deal with interferences/matrix effects

BPQL Below Practical Quantitation Limit (if applicable).

The "Prep Date" of the QC analysis coincides with the characters of the appropriate QC Lab ID. (Example: S 9 A 02 15 - BLK = 2009, Jan 2, Batch #15 - Blank)

Lab Manager



Quality Control Data

Blank Data

QC Lab #	Test Group	Test	Result	PQL	Flags
S7I0102-BLK1	THMs by EPA Method 524.3	Chloroform	BPQL ug/L	1.00	
S7I0102-BLK1	THMs by EPA Method 524.3	Bromodichloromethane	BPQL ug/L	1.00	
S7I0102-BLK1	THMs by EPA Method 524.3	Dibromochloromethane	BPQL ug/L	1.00	
S7I0102-BLK1	THMs by EPA Method 524.3	Bromoform	BPQL ug/L	1.00	
S7I0102-BLK1	THMs by EPA Method 524.3	Total THMs	BPQL ug/L	1.00	
S7I0112-BLK1	HAAs by EPA Method 552.2	Monochloroacetic acid	BPQL ug/L	2.00	
S7I0112-BLK1	HAAs by EPA Method 552.2	Monobromoacetic acid	BPQL ug/L	1.00	
S7I0112-BLK1	HAAs by EPA Method 552.2	Dichloroacetic acid	BPQL ug/L	1.00	
S7I0112-BLK1	HAAs by EPA Method 552.2	Dibromoacetic acid	BPQL ug/L	1.00	
S7I0112-BLK1	HAAs by EPA Method 552.2	Trichloroacetic acid	BPQL ug/L	1.00	
S7I0112-BLK1	HAAs by EPA Method 552.2	Total HAAs	BPQL ug/L	1.00	

Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
S7I0102-BS1	THMs by EPA Method 524.3	Chloroform	160	150.0	ug/L	107	85 - 115	
S7I0102-BS1	THMs by EPA Method 524.3	Bromodichloromethane	146	150.0	ug/L	97	83.8 - 115	
S7I0102-BS1	THMs by EPA Method 524.3	Dibromochloromethane	154	150.0	ug/L	102	85 - 115	
S7I0102-BS1	THMs by EPA Method 524.3	Bromoform	152	150.0	ug/L	101	85 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	Chloroform	55.2	50.00	ug/L	110	85 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	Bromodichloromethane	55.2	50.00	ug/L	110	83.8 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	Dibromochloromethane	54.3	50.00	ug/L	109	85 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	Bromoform	52.6	50.00	ug/L	105	85 - 115	
S7I0102-CCV1	THMs by EPA Method 524.3	Chloroform	1.05	1.000	ug/L	105	50 - 150	
S7I0102-CCV1	THMs by EPA Method 524.3	Bromodichloromethane	1.07	1.000	ug/L	107	50 - 150	
S7I0102-CCV1	THMs by EPA Method 524.3	Dibromochloromethane	1.02	1.000	ug/L	102	50 - 150	
S7I0102-CCV1	THMs by EPA Method 524.3	Bromoform	0.990	1.000	ug/L	99	50 - 150	
S7I0112-BS1	HAAs by EPA Method 552.2	Monochloroacetic acid	12.0	12.00	ug/L	100	85 - 125	
S7I0112-BS1	HAAs by EPA Method 552.2	Monobromoacetic acid	8.27	8.000	ug/L	103	85 - 130	
S7I0112-BS1	HAAs by EPA Method 552.2	Dichloroacetic acid	11.8	12.00	ug/L	98	83.4 - 130	
S7I0112-BS1	HAAs by EPA Method 552.2	Dibromoacetic acid	4.17	4.000	ug/L	104	70 - 130	
S7I0112-BS1	HAAs by EPA Method 552.2	Trichloroacetic acid	3.81	4.000	ug/L	95	73.9 - 130	
S7I0112-MRL1	HAAs by EPA Method 552.2	Monochloroacetic acid	2.20	2.000	ug/L	110	50 - 150	
S7I0112-MRL1	HAAs by EPA Method 552.2	Monobromoacetic acid	0.959	1.000	ug/L	96	50 - 150	
S7I0112-MRL1	HAAs by EPA Method 552.2	Dichloroacetic acid	1.23	1.000	ug/L	123	50 - 150	
S7I0112-MRL1	HAAs by EPA Method 552.2	Dibromoacetic acid	0.704	1.000	ug/L	70	50 - 150	
S7I0112-MRL1	HAAs by EPA Method 552.2	Trichloroacetic acid	0.844	1.000	ug/L	84	50 - 150	
S7I0112-MRL2	HAAs by EPA Method 552.2	Monochloroacetic acid	2.29	2.000	ug/L	114	50 - 150	
S7I0112-MRL2	HAAs by EPA Method 552.2	Monobromoacetic acid	1.05	1.000	ug/L	105	50 - 150	
S7I0112-MRL2	HAAs by EPA Method 552.2	Dichloroacetic acid	1.28	1.000	ug/L	128	50 - 150	
S7I0112-MRL2	HAAs by EPA Method 552.2	Dibromoacetic acid	0.769	1.000	ug/L	77	50 - 150	
S7I0112-MRL2	HAAs by EPA Method 552.2	Trichloroacetic acid	0.884	1.000	ug/L	88	50 - 150	

Quality Control Data

LCS Duplicate Data

QC Lab#	Test Group	Test Name	LCS % Rec.	LCS Dup % Rec.	Recovery Limits	RPD	RPD Limit	Flags
S7I0112-BSD1	HAAs by EPA Method 552.2	Monochloroacetic acid	100	107	85 - 125	7	20	
S7I0112-BSD1	HAAs by EPA Method 552.2	Monobromoacetic acid	103	109	85 - 130	6	20	
S7I0112-BSD1	HAAs by EPA Method 552.2	Dichloroacetic acid	98	105	83.4 - 130	7	20	
S7I0112-BSD1	HAAs by EPA Method 552.2	Dibromoacetic acid	104	115	70 - 130	10	20	
S7I0112-BSD1	HAAs by EPA Method 552.2	Trichloroacetic acid	95	105	73.9 - 130	9	20	

Quality Control Data

Surrogate Recovery Data

QC Lab#	Test Group	Test Name	% Recovery	Recovery Limits	Flags
7H30111-01	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	97	85 - 115	
7H30111-01	THMs by EPA Method 524.3	4-Bromofluorobenzene	98	85 - 115	
7H30111-01	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	105	78.5 - 115	
S7I0102-BLK1	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	101	85 - 115	
S7I0102-BLK1	THMs by EPA Method 524.3	4-Bromofluorobenzene	95	85 - 115	
S7I0102-BLK1	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	100	78.5 - 115	
S7I0102-BS1	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	100	85 - 115	
S7I0102-BS1	THMs by EPA Method 524.3	4-Bromofluorobenzene	97	85 - 115	
S7I0102-BS1	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	101	78.5 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	102	85 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	4-Bromofluorobenzene	101	85 - 115	
S7I0102-BS2	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	105	78.5 - 115	
7H30111-01	HAAs by EPA Method 552.2	2,3-Dibromopropionic acid	113	70 - 130	
S7I0112-BLK1	HAAs by EPA Method 552.2	2,3-Dibromopropionic acid	98	70 - 130	
S7I0112-BS1	HAAs by EPA Method 552.2	2,3-Dibromopropionic acid	109	70 - 130	
S7I0112-BSD1	HAAs by EPA Method 552.2	2,3-Dibromopropionic acid	115	70 - 130	

* Complete Entire COC to be in Compliance*

RUSH

Due Date



Chain of Custody

Client Name- **Rogers Co #12**
 Project Name- **Stage II Disinfection Byproducts (DBP)**

Sample Preserv. & Container →	ICE Na2S2O3 40mL Glass Vial	ICE NH4Cl 60mL Glass Vial					
Analysis Requested →							
# of Container ↓	THM	HAA					
	4	2	2				

Accurate Work Order #	Date Sample Taken	Time Sample Taken	Matrix or Source (Refer. Below)	Grab (G) or Comp (C)	Client I.D. / Sample Location or DEQ / EPA Location Code	Field Results (pH, Temp, Chlorine, ...) (note analysis & units)	Chlorine (mg/L)						
743011-01	8.30.17	1030	DW	G	DBPMX								

On-Site Info Raw Alkalinity (TOC Raw)= _____ mg/L Turbidity (E.Coli)= _____ ntu

Matrix Codes DW = Drinkingwater ; WW = Wastewater ; SL = Sludge ; O = Other _____

E.Coli Source FS = Flowing Stream ; RL = Reservoir/Lake ; GWUDI = Groundwater under direct influence of surface water

Comments Please supply Chlorine result!!

Please email results.

-- All Glass containers provided by Accurate Labs have Teflon lined lids --
 -- All samples are scheduled to be disposed of in 4 weeks of receipt at Accurate. --
 -- Hazardous samples will be returned to client or will be disposed of for a fee --

COC Date - 6/22/10kc

Certification by Company Official: I hereby certify that the above sampling occurred during a period such that the sample(s) is/are representative of a typical operating day discharge for the above facility. Signature: _____ Date/Time: _____

Sampled By: _____ Company: _____ Sample Method: _____

Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
<input type="checkbox"/> Relinquished to Lab By: _____	Date/Time: _____	Received at Lab By: _____	Date/Time: _____
<input type="checkbox"/> Relq'd to Log-In Fridge By: _____	8-30-17 1506	Rec'd °C 9.6	8-30-17 1506

Reporting Requirements (standard 10-15 working days) **Compliance Reporting?** Yes or No (DMR, PWS,) **Oklahoma PWS ID #** **OK3006648** **RUSH Request** (if available) _____ (Working Days)

Mail Report To: Rogers Co RWD #12
 James Mitschke
 9838 N Cadbury Ridge
 Owasso, OK 74055
 Address: _____
 Phone #: (918) 607-0433 Fax #: () Email: jemitch08@gmail.com

Mail Invoice To: _____
 Bid # - _____
 Address: **(Same as Report)** PO # - _____
 Phone #: () Fax #: ()