Accurate Environmental Laboratories

August 30, 2022

Client: Perkins PWA

PO Box 9

Perkins, OK 74059

Requested By: Chad Beitz

National Environmental Laboratory Accreditation Program
ODEQ TNI Certified

Sample Project Name:	SDWIS Analysis Aug Yearly
Date Samples Received:	August 19, 2022 Time: 11:07 sample temp upon arrival at lab = 19.00°C - On Ice
Matrix:	Drinking Water
Lab Log Numbers:	**EH19020-01**
Work Order:	EH19020
Report #	EH19020-0830220804
EPA Lab ID#'s:	**Stillwater OK00092 Tulsa OK00983 OKC OK00129 ICR OK 001**
Oklahoma Certification:	Stillwater NELAP WasteWater, ODEQ 8316/ Drinking Water, DEQ D9602 NELAP Tulsa WasteWater, ODEQ 9905 / Drinking Water, DEQ D9901 Oklahoma City NELAP WasteWater ODEQ 7202 / Drinking Water, DEQ D9937
Kansas Certification:	Stillwater NELAP CERT # E-10219
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: ***WWTP- 125 S. Cimeron St. Perkins, OK*** **Location Code:** HAA5_02 **PWSID#:** OK2006012

Collection Type: Grab Sample Time: 8/19/22 10:30 **Lab Log#** EH19020-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
THMs by EPA Method 524.3	Chloroform	BPQL ug/L		1.00	08/22/22 09:23 MW	08/22/22 16:59 MW
THMs by EPA Method 524.3	Bromodichloromethane	3.56 ug/L		1.00	08/22/22 09:23 MW	08/22/22 16:59 MW
THMs by EPA Method 524.3	Dibromochloromethane	8.52 ug/L		1.00	08/22/22 09:23 MW	08/22/22 16:59 MW
THMs by EPA Method 524.3	Bromoform	7.10 ug/L		1.00	08/22/22 09:23 MW	08/22/22 16:59 MW
THMs by EPA Method 524.3	Total THMs	19.2 ug/L		1.00	08/22/22 09:23 MW	08/22/22 16:59 MW
HAAs by EPA Method 552.2	Monochloroacetic acid	BPQL ug/L		2.00	08/25/22 08:15 KF	08/26/22 03:13 KF
HAAs by EPA Method 552.2	Monobromoacetic acid	BPQL ug/L		1.00	08/25/22 08:15 KF	08/26/22 03:13 KF
HAAs by EPA Method 552.2	Dichloroacetic acid	BPQL ug/L		1.00	08/25/22 08:15 KF	08/26/22 03:13 KF
HAAs by EPA Method 552.2	Dibromoacetic acid	4.00 ug/L		1.00	08/25/22 08:15 KF	08/26/22 03:13 KF
HAAs by EPA Method 552.2	Trichloroacetic acid	BPQL ug/L		1.00	08/25/22 08:15 KF	08/26/22 03:13 KF
HAAs by EPA Method 552.2	Total HAAs	4.00 ug/L		1.00	08/25/22 08:15 KF	08/26/22 03:13 KF

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: 19 A 02 15 - BLK = 2019, Jan 2, Batch #15 - Blank)

Lab Manager

Quality Control Data

Blank Data

QC Lab #	Test Group	Test	Result	PQL	Flags
22H2213-BLK1	THMs by EPA Method 524.3	Chloroform	BPQL ug/L	1.00	
22H2213-BLK1	THMs by EPA Method 524.3	Bromodichloromethane	BPQL ug/L	1.00	
22H2213-BLK1	THMs by EPA Method 524.3	Dibromochloromethane	BPQL ug/L	1.00	
22H2213-BLK1	THMs by EPA Method 524.3	Bromoform	BPQL ug/L	1.00	
22H2213-BLK1	THMs by EPA Method 524.3	Total THMs	BPQL ug/L	1.00	
22H2511-BLK1	HAAs by EPA Method 552.2	Monochloroacetic acid	BPQL ug/L	2.00	
22H2511-BLK1	HAAs by EPA Method 552.2	Monobromoacetic acid	BPQL ug/L	1.00	
22H2511-BLK1	HAAs by EPA Method 552.2	Dichloroacetic acid	BPQL ug/L	1.00	
22H2511-BLK1	HAAs by EPA Method 552.2	Dibromoacetic acid	BPQL ug/L	1.00	
22H2511-BLK1	HAAs by EPA Method 552.2	Trichloroacetic acid	BPQL ug/L	1.00	
22H2511-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
22H2213-BS1	THMs by EPA Method 524.3	Chloroform	100	100.0	ug/L	100	85 - 115	
22H2213-BS1	THMs by EPA Method 524.3	Bromodichloromethane	101	100.0	ug/L	101	83.8 - 115	
22H2213-BS1	THMs by EPA Method 524.3	Dibromochloromethane	101	100.0	ug/L	101	85 - 115	
22H2213-BS1	THMs by EPA Method 524.3	Bromoform	102	100.0	ug/L	102	85 - 115	
22H2213-BS2	THMs by EPA Method 524.3	Chloroform	49.2	50.00	ug/L	98	85 - 115	
22H2213-BS2	THMs by EPA Method 524.3	Bromodichloromethane	49.8	50.00	ug/L	100	83.8 - 115	
22H2213-BS2	THMs by EPA Method 524.3	Dibromochloromethane	50.5	50.00	ug/L	101	85 - 115	
22H2213-BS2	THMs by EPA Method 524.3	Bromoform	49.0	50.00	ug/L	98	85 - 115	
22H2213-MRL1	THMs by EPA Method 524.3	Chloroform	1.02	1.000	ug/L	102	50 - 150	
22H2213-MRL1	THMs by EPA Method 524.3	Bromodichloromethane	1.10	1.000	ug/L	110	50 - 150	
22H2213-MRL1	THMs by EPA Method 524.3	Dibromochloromethane	1.07	1.000	ug/L	107	50 - 150	
22H2213-MRL1	THMs by EPA Method 524.3	Bromoform	0.950	1.000	ug/L	95	50 - 150	
22H2511-BS1	HAAs by EPA Method 552.2	Monochloroacetic acid	8.34	8.000	ug/L	104	85 - 125	
22H2511-BS1	HAAs by EPA Method 552.2	Monobromoacetic acid	7.73	8.000	ug/L	97	85 - 130	
22H2511-BS1	HAAs by EPA Method 552.2	Dichloroacetic acid	7.58	8.000	ug/L	95	83.4 - 130	
22H2511-BS1	HAAs by EPA Method 552.2	Dibromoacetic acid	7.68	8.000	ug/L	96	70 - 130	
22H2511-BS1	HAAs by EPA Method 552.2	Trichloroacetic acid	7.01	8.000	ug/L	88	73.9 - 130	
22H2511-MRL1	HAAs by EPA Method 552.2	Monochloroacetic acid	2.10	2.000	ug/L	105	50 - 150	
22H2511-MRL1	HAAs by EPA Method 552.2	Monobromoacetic acid	1.04	1.000	ug/L	104	50 - 150	
22H2511-MRL1	HAAs by EPA Method 552.2	Dichloroacetic acid	1.20	1.000	ug/L	120	50 - 150	
22H2511-MRL1	HAAs by EPA Method 552.2	Dibromoacetic acid	0.705	1.000	ug/L	70	50 - 150	
22H2511-MRL1	HAAs by EPA Method 552.2	Trichloroacetic acid	0.911	1.000	ug/L	91	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
22H2511-BSD1	HAAs by EPA Method 552.2	Monochloroacetic acid	104	118	85 - 125	12	20	
22H2511-BSD1	HAAs by EPA Method 552.2	Monobromoacetic acid	97	110	85 - 130	13	20	
22H2511-BSD1	HAAs by EPA Method 552.2	Dichloroacetic acid	95	108	83.4 - 130	13	20	
22H2511-BSD1	HAAs by EPA Method 552.2	Dibromoacetic acid	96	104	70 - 130	8	20	
22H2511-BSD1	HAAs by EPA Method 552.2	Trichloroacetic acid	88	101	73.9 - 130	14	20	

Quality Control Data

Surrogate Recovery Data

QC Lab#	Test Group	Test Name	% Recovery	Recovery Limits	Flags
22H2213-BLK1	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	103	85 - 115	
22H2213-BLK1	THMs by EPA Method 524.3	4-Bromofluorobenzene	93	85 - 115	
22H2213-BLK1	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	101	78.5 - 115	
22H2213-BS1	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	97	85 - 115	
22H2213-BS1	THMs by EPA Method 524.3	4-Bromofluorobenzene	95	85 - 115	
22H2213-BS1	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	91	78.5 - 115	
22H2213-BS2	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	98	85 - 115	
22H2213-BS2	THMs by EPA Method 524.3	4-Bromofluorobenzene	98	85 - 115	
22H2213-BS2	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	97	78.5 - 115	
EH19020-01	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	101	85 - 115	
EH19020-01	THMs by EPA Method 524.3	4-Bromofluorobenzene	95	85 - 115	
EH19020-01	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	102	78.5 - 115	
22H2511-BLK1	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	102	70 - 130	
22H2511-BS1	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	108	70 - 130	
22H2511-BSD1	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	107	70 - 130	
EH19020-01	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	102	70 - 130	

* Complete Entire COC to be in Compliance*

☐ RUSH Due Date _____

Accurate Environmental Labs

Chain of Custody

Client Name- **Perkins PWA**

Project Name- SDWIS Analysis Aug Yearly

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) Location Code	Chlorine (mg/L)		Sample Preserv. & Container →	Ice NH_4CL 60 mL Vials	Ice $Na_2S_2O_3$ 40 mL Vials	In Field				
									Analysis Requested →	HAA	THM	Total Chlorine				
EH19020									# of Container ↓							
-01	8/19/22	1030	DW	G	WWTF- 125 S. Cimeron St. Perkins, OK	HAA5_02			4	2	2	*				

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

Matrix Codes **DW** = Drinking water ; **WW** = Wastewater ; **SL** = Sludge ; **O** = Other _____

E.Coli Source- **GWUDI-FS**= Groundwater under direct influence of Flowing Stream **GWUDI-RL**= Groundwater under direct influence of Reservoir/Lake

Field Instrument Calibration -

Meter Type	Standards	Final Read.	Date , Time	Initials

Comments Please include chlorine result.

- - 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 - -

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 8/19/22

Sampled By: Zachery Isca Company: City of Perkins Sample Method:

Relinquished By: Zachery Isca Date/Time 8/19/22 Received By: Zachery Isca Ice Date/Time 8/19/22

☐ Relinquished to Lab By: Zachery Isca Date/Time 8/19/22 1107 Received at Lab By: Madison Hanks Rec'd °C 19.0 Date/Time 8/19/22 1107

☐ Relq'd to Log-In Fridge By:

Reporting Requirements (standard 10-15 working days)		Compliance Reporting?	Yes or No (DMR, PWS,)	Oklahoma PWS ID #	OK2006012	RUSH Request (if available)	_____ (Working Days)

Mail Report: Chad Beitz
City of Perkins
Address PO Box 9
Perkins, OK 74059
Phone #: 405-547-2445 Fax #: 405-547-5440
Email: cbeitz@cityofperkins.net zisca@cityofperkins.net

citymanager@cityofperkins.net cityclerk@cityofperkins.net

Mail Invoice: Accounts Payable
City of Perkins
Address: PO Box 9
Perkins, OK 74059
cityclerk@cityofperkins.net
Bid # - _____
PO # - _____
Phone #: 405-547-2445 Fax #: 405-547-5440