



August 16, 2021

Client: Perkins PWA

PO Box 9

Perkins, OK 74059

Requested By: -



National
Environmental
Laboratory
Accreditation
Program
ODEQ TNI Certified

Sample Project Name: SDWIS Analysis Aug Yearly

Date Samples Received: August 05, 2021 Time: 12:58 sample temp upon arrival at lab = 10.20°C - On Ice

Matrix: Drinking Water

Lab Log Numbers: **DH05086-01**

Work Order: DH05086

Report # DH05086-0816210926

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
Oklahoma City NELAP CERT # E-10414

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: WWTF- 125 S. Cimeron St. Perkins, OK

Location Code: HAA5-02 PWSID#: OK2006012

Collection Type: Grab

Sample Time: 8/5/21 8:00

Lab Log# DH05086-01

| Method/Parameter | Test | Result | Notes | PQL# | Prep Info | Analysis Info |
|--------------------------|-----------------------|-----------|-------|------|--------------------|--------------------|
| THMs by EPA Method 524.3 | Chloroform | 1.50 ug/L | | 1.00 | 08/10/21 10:26 MAS | 08/10/21 12:42 MAS |
| THMs by EPA Method 524.3 | Bromodichloromethane | 3.69 ug/L | | 1.00 | 08/10/21 10:26 MAS | 08/10/21 12:42 MAS |
| THMs by EPA Method 524.3 | Dibromochloromethane | 6.89 ug/L | | 1.00 | 08/10/21 10:26 MAS | 08/10/21 12:42 MAS |
| THMs by EPA Method 524.3 | Bromoform | 4.90 ug/L | | 1.00 | 08/10/21 10:26 MAS | 08/10/21 12:42 MAS |
| THMs by EPA Method 524.3 | Total THMs | 17.0 ug/L | | 1.00 | 08/10/21 10:26 MAS | 08/10/21 12:42 MAS |
| HAAs by EPA Method 552.2 | Monochloroacetic acid | BPQL ug/L | | 2.00 | 08/09/21 08:29 KF | 08/10/21 07:27 CHC |
| HAAs by EPA Method 552.2 | Monobromoacetic acid | BPQL ug/L | | 1.00 | 08/09/21 08:29 KF | 08/10/21 07:27 CHC |
| HAAs by EPA Method 552.2 | Dichloroacetic acid | 1.66 ug/L | | 1.00 | 08/09/21 08:29 KF | 08/10/21 07:27 CHC |
| HAAs by EPA Method 552.2 | Dibromoacetic acid | 2.32 ug/L | | 1.00 | 08/09/21 08:29 KF | 08/10/21 07:27 CHC |
| HAAs by EPA Method 552.2 | Trichloroacetic acid | BPQL ug/L | | 1.00 | 08/09/21 08:29 KF | 08/10/21 07:27 CHC |
| HAAs by EPA Method 552.2 | Total HAAs | 3.98 ug/L | | 1.00 | 08/09/21 08:29 KF | 08/10/21 07:27 CHC |

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 |
|--------------|--------------------------|-----------------------|-----------|------|-------|
| 21H1010-BLK1 | THMs by EPA Method 524.3 | Chloroform | BPQL ug/L | 1.00 | |
| 21H1010-BLK1 | THMs by EPA Method 524.3 | Bromodichloromethane | BPQL ug/L | 1.00 | |
| 21H1010-BLK1 | THMs by EPA Method 524.3 | Dibromochloromethane | BPQL ug/L | 1.00 | |
| 21H1010-BLK1 | THMs by EPA Method 524.3 | Bromoform | BPQL ug/L | 1.00 | |
| 21H1010-BLK1 | THMs by EPA Method 524.3 | Total THMs | BPQL ug/L | 1.00 | |
| 21H0907-BLK1 | HAAs by EPA Method 552.2 | Monochloroacetic acid | BPQL ug/L | 2.00 | |
| 21H0907-BLK1 | HAAs by EPA Method 552.2 | Monobromoacetic acid | BPQL ug/L | 1.00 | |
| 21H0907-BLK1 | HAAs by EPA Method 552.2 | Dichloroacetic acid | BPQL ug/L | 1.00 | |
| 21H0907-BLK1 | HAAs by EPA Method 552.2 | Dibromoacetic acid | BPQL ug/L | 1.00 | |
| 21H0907-BLK1 | HAAs by EPA Method 552.2 | Trichloroacetic acid | BPQL ug/L | 1.00 | |
| 21H0907-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 |
|--------------|--------------------------|-----------------------|------------|-------------|-------|--------|----------------|-------|
| 21H1010-BS1 | THMs by EPA Method 524.3 | Chloroform | 164 | 150.0 | ug/L | 109 | 85 - 115 | |
| 21H1010-BS1 | THMs by EPA Method 524.3 | Bromodichloromethane | 159 | 150.0 | ug/L | 106 | 83.8 - 115 | |
| 21H1010-BS1 | THMs by EPA Method 524.3 | Dibromochloromethane | 162 | 150.0 | ug/L | 108 | 85 - 115 | |
| 21H1010-BS1 | THMs by EPA Method 524.3 | Bromoform | 166 | 150.0 | ug/L | 111 | 85 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | Chloroform | 52.6 | 50.00 | ug/L | 105 | 85 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | Bromodichloromethane | 52.3 | 50.00 | ug/L | 105 | 83.8 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | Dibromochloromethane | 54.0 | 50.00 | ug/L | 108 | 85 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | Bromoform | 56.2 | 50.00 | ug/L | 112 | 85 - 115 | |
| 21H1010-MRL1 | THMs by EPA Method 524.3 | Chloroform | 1.31 | 1.000 | ug/L | 131 | 50 - 150 | |
| 21H1010-MRL1 | THMs by EPA Method 524.3 | Bromodichloromethane | 1.21 | 1.000 | ug/L | 121 | 50 - 150 | |
| 21H1010-MRL1 | THMs by EPA Method 524.3 | Dibromochloromethane | 1.23 | 1.000 | ug/L | 123 | 50 - 150 | |
| 21H1010-MRL1 | THMs by EPA Method 524.3 | Bromoform | 1.34 | 1.000 | ug/L | 134 | 50 - 150 | |
| 21H0907-BS1 | HAAs by EPA Method 552.2 | Monochloroacetic acid | 11.0 | 12.00 | ug/L | 92 | 85 - 125 | |
| 21H0907-BS1 | HAAs by EPA Method 552.2 | Monobromoacetic acid | 7.16 | 8.000 | ug/L | 90 | 85 - 130 | |
| 21H0907-BS1 | HAAs by EPA Method 552.2 | Dichloroacetic acid | 10.6 | 12.00 | ug/L | 88 | 83.4 - 130 | |
| 21H0907-BS1 | HAAs by EPA Method 552.2 | Dibromoacetic acid | 3.58 | 4.000 | ug/L | 90 | 70 - 130 | |
| 21H0907-BS1 | HAAs by EPA Method 552.2 | Trichloroacetic acid | 3.44 | 4.000 | ug/L | 86 | 73.9 - 130 | |
| 21H0907-MRL1 | HAAs by EPA Method 552.2 | Monochloroacetic acid | 1.88 | 2.000 | ug/L | 94 | 50 - 150 | |
| 21H0907-MRL1 | HAAs by EPA Method 552.2 | Monobromoacetic acid | 1.05 | 1.000 | ug/L | 105 | 50 - 150 | |
| 21H0907-MRL1 | HAAs by EPA Method 552.2 | Dichloroacetic acid | 1.12 | 1.000 | ug/L | 112 | 50 - 150 | |
| 21H0907-MRL1 | HAAs by EPA Method 552.2 | Dibromoacetic acid | 0.546 | 1.000 | ug/L | 55 | 50 - 150 | |
| 21H0907-MRL1 | HAAs by EPA Method 552.2 | Trichloroacetic acid | 0.826 | 1.000 | ug/L | 83 | 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 |
|--------------|--------------------------|-----------------------|------------|----------------|-----------------|-----|-----------|-------|
| 21H0907-BSD1 | HAAs by EPA Method 552.2 | Monochloroacetic acid | 92 | 103 | 85 - 125 | 11 | 20 | |
| 21H0907-BSD1 | HAAs by EPA Method 552.2 | Monobromoacetic acid | 90 | 100 | 85 - 130 | 12 | 20 | |
| 21H0907-BSD1 | HAAs by EPA Method 552.2 | Dichloroacetic acid | 88 | 100 | 83.4 - 130 | 13 | 20 | |
| 21H0907-BSD1 | HAAs by EPA Method 552.2 | Dibromoacetic acid | 90 | 106 | 70 - 130 | 16 | 20 | |
| 21H0907-BSD1 | HAAs by EPA Method 552.2 | Trichloroacetic acid | 86 | 96 | 73.9 - 130 | 11 | 20 | |

Quality Control Data

Surrogate Recovery Data

| QC Lab# | Test Group | Test Name | % Recovery | Recovery Limits | Flags |
|--------------|--------------------------|-------------------------|------------|-----------------|-------|
| 21H1010-BLK1 | THMs by EPA Method 524.3 | 1,2-Dichlorobenzene-d4 | 96 | 85 - 115 | |
| 21H1010-BLK1 | THMs by EPA Method 524.3 | 4-Bromofluorobenzene | 98 | 85 - 115 | |
| 21H1010-BLK1 | THMs by EPA Method 524.3 | Methyl t-butyl ether-d3 | 110 | 78.5 - 115 | |
| 21H1010-BS1 | THMs by EPA Method 524.3 | 1,2-Dichlorobenzene-d4 | 99 | 85 - 115 | |
| 21H1010-BS1 | THMs by EPA Method 524.3 | 4-Bromofluorobenzene | 102 | 85 - 115 | |
| 21H1010-BS1 | THMs by EPA Method 524.3 | Methyl t-butyl ether-d3 | 104 | 78.5 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | 1,2-Dichlorobenzene-d4 | 103 | 85 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | 4-Bromofluorobenzene | 97 | 85 - 115 | |
| 21H1010-BS2 | THMs by EPA Method 524.3 | Methyl t-butyl ether-d3 | 104 | 78.5 - 115 | |
| DH05086-01 | THMs by EPA Method 524.3 | 1,2-Dichlorobenzene-d4 | 102 | 85 - 115 | |
| DH05086-01 | THMs by EPA Method 524.3 | 4-Bromofluorobenzene | 96 | 85 - 115 | |
| DH05086-01 | THMs by EPA Method 524.3 | Methyl t-butyl ether-d3 | 109 | 78.5 - 115 | |
| 21H0907-BLK1 | HAAs by EPA Method 552.2 | 2-Bromobutanoic Acid | 102 | 70 - 130 | |
| 21H0907-BS1 | HAAs by EPA Method 552.2 | 2-Bromobutanoic Acid | 109 | 70 - 130 | |
| 21H0907-BSD1 | HAAs by EPA Method 552.2 | 2-Bromobutanoic Acid | 118 | 70 - 130 | |
| DH05086-01 | HAAs by EPA Method 552.2 | 2-Bromobutanoic Acid | 109 | 70 - 130 | |

* Complete Entire COC to be in Compliance*

RUSH Due Date



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 Com (C) | Client I.D. / Sample Location or DEQ / EPA Location Code | Field Results | | Analysis Requested → # of Container ↓ | Ice NH ₄ CL 60 mL Vials | Ice Na ₂ S ₂ O ₄ 40 mL Vials | In Field | | | | |
|-----------------------|-------------------|-------------------|---------------------------------|---------------------|--|--|-----------------|--|------------------------------------|---|----------|--|--|--|--|
| | | | | | | (pH, Temp, Chlorine, ...) (note analysis & units) | Chlorine (mg/L) | | | | | | | | |
| DH05086 01 | 8/5/21 | 0800 | DW | G | WWTF- 125 S. Cimeron St. Perkins, OK | HAA5_02 | | 4 | 2 | 2 | * | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |

On-Site Info Raw Alkalinity _____ Turbidity _____
 (TOC Raw)= _____ mg/L (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:** *[Signature]* **Date/Time:** _____

Sampled By: *[Signature]* **Company:** _____ **Sample Method:** _____

Relinquished By: *[Signature]* **Date/Time:** _____ **Received By:** *[Signature]* **Date/Time:** _____

Relinquished to Lab By: *[Signature]* **Date/Time:** 5-8-21 1258 **Received at Lab By:** *[Signature]* **Rec'd °C:** 10.2 **Date/Time:** 5-8-21 1258

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: City of Perkins **Mail Invoice:** Accounts Payable City of Perkins Bid # - _____
Address: PO Box 9 Perkins, OK 74059 **Address:** PO Box 9 Perkins, OK 74059 PO # - _____
Phone #: 405-714-7859 **Fax #:** 405-547-5440 **citymanager@cityofperkins.net** **cityclerk@cityofperkins.net**
Email: cityclerk@cityofperkins.net **cbeitz@cityofperkins.net** **zisca@cityofperkins.net** **Phone #:** 405-547-2445 **Fax #:** 405-547-5440

| | | | |
|---|--|--|--|
| www.accuratelabs.com (800) 516-5227 | 505 South Lowry Street Stillwater, OK 74074 Phone: (405) 372-5300 Fax: (405) 372-5396 | 3910 East 51 st Street Tulsa, OK 74135 Phone: (918) 663-5400 Fax: (918) 663-6300 | 12036 N. Pennsylvania Oklahoma City, OK 73120 Phone: (405) 751-3132 Fax: (405) 751-3108 |
|---|--|--|--|

Failure to complete this Chain of Custody form correctly may delay turnaround time of analytical reporting.