



April 06, 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 - WQP

Date Samples Received: March 23, 2022 Time: 13:45 sample temp upon arrival at lab = 5.10°C - On Ice

Matrix: Drinking Water

Lab Log Numbers: **EC23084-01** **EC23084-02** **EC23084-03** **EC23084-04**

Work Order: EC23084

Report # EC23084-0406221545

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: CL2 & ORTHO STATION - WELL 1

Location Code: TP001

PWSID#: OK2006012

Collection Type: Grab

Sample Time: 3/23/22 11:20

Lab Log# EC23084-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
pH in Field by Client	pH	6.45	pH	0.01	03/23/22 11:20	03/23/22 11:20
Temperature by Client	Temperature	16.8	C		03/23/22 11:20	03/23/22 11:20
Alkalinity Total SM2320B	Alkalinity as CaCO3	125.1	mg/L	10.0	03/29/22 10:06 BM	03/29/22 12:26 BM
Temperature SM2550 B	Temperature	19.6	°C		03/24/22 13:55 MHM	03/24/22 14:40 MHM
Conductivity SM2510 B	Conductivity	381.2	umho/cm	2.0	03/24/22 13:55 MHM	03/24/22 14:40 MHM
Calcium (Ca) EPA 200.7	Calcium	26.8	mg/L	0.20	04/01/22 14:30 SMV	04/04/22 11:22 SMV

Sample: CL2 & ORTHO STATION - WELL 2

Location Code: TP002

PWSID#: OK2006012

Collection Type: Grab

Sample Time: 3/23/22 11:23

Lab Log# EC23084-02

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
pH in Field by Client	pH	6.51	pH	0.01	03/23/22 11:23	03/23/22 11:23
Temperature by Client	Temperature	16.6	C		03/23/22 11:23	03/23/22 11:23
Alkalinity Total SM2320B	Alkalinity as CaCO3	121.6	mg/L	10.0	03/29/22 10:06 BM	03/29/22 12:26 BM
Temperature SM2550 B	Temperature	19.2	°C		03/24/22 13:55 MHM	03/24/22 14:40 MHM
Conductivity SM2510 B	Conductivity	382.3	umho/cm	2.0	03/24/22 13:55 MHM	03/24/22 14:40 MHM
Calcium (Ca) EPA 200.7	Calcium	27.2	mg/L	0.20	04/01/22 15:45 SMV	04/04/22 18:13 SMV

Sample: CL2 & ORTHO STATION - AMPRIDE WELL/WELL 7

Location Code: TP007

PWSID#: OK2006012

Collection Type: Grab

Sample Time: 3/23/22 11:35

Lab Log# EC23084-03

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
pH in Field by Client	pH	6.71	pH	0.01	03/23/22 11:35	03/23/22 11:35
Temperature by Client	Temperature	17.0	C		03/23/22 11:35	03/23/22 11:35
Alkalinity Total SM2320B	Alkalinity as CaCO3	158.8	mg/L	10.0	03/29/22 10:06 BM	03/29/22 12:26 BM
Temperature SM2550 B	Temperature	19.4	°C		03/24/22 13:55 MHM	03/24/22 14:40 MHM
Conductivity SM2510 B	Conductivity	484.7	umho/cm	2.0	03/24/22 13:55 MHM	03/24/22 14:40 MHM
Calcium (Ca) EPA 200.7	Calcium	44.5	mg/L	0.20	04/01/22 15:45 SMV	04/04/22 18:29 SMV

Sample: CL2 & ORTHO STATION - SONIC WELL

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 3/23/22 11:28

Lab Log# EC23084-04

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
pH in Field by Client	pH	6.73	pH	0.01	03/23/22 11:28	03/23/22 11:28
Temperature by Client	Temperature	16.8	C		03/23/22 11:28	03/23/22 11:28
Alkalinity Total SM2320B	Alkalinity as CaCO3	127.3	mg/L	10.0	03/29/22 10:06 BM	03/29/22 12:26 BM
Temperature SM2550 B	Temperature	20.5	°C		03/24/22 13:55 MHM	03/24/22 14:40 MHM
Conductivity SM2510 B	Conductivity	377.9	umho/cm	2.0	03/24/22 13:55 MHM	03/24/22 14:40 MHM

Sample:

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 3/23/22 11:28

Lab Log# EC23084-04

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Calcium (Ca) EPA 200.7	Calcium	27.0 mg/L		0.20	04/01/22 14:30 SMV	04/04/22 11:26 SMV

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
22C2929-BLK1	Alkalinity Total SM2320B	Alkalinity as CaCO3	BPQL mg/L	10.0	
22C2460-BLK1	Temperature SM2550 B	Temperature	22.8 °C		
22C2460-BLK1	Conductivity SM2510 B	Conductivity	BPQL umho/cm	2.0	
22D0148-BLK1	Calcium (Ca) EPA 200.7	Calcium	BPQL mg/L	0.20	
22D0151-BLK1	Calcium (Ca) EPA 200.7	Calcium	BPQL mg/L	0.20	

Duplicate Sample Data

QC Lab #	Test Group	Test Name	Source	Dup Result	Samp Result	% RPD	RPD Limit	Flags
22C2929-DUP1	Alkalinity Total SM2320B	Alkalinity as CaCO3	EC23084-01	129.6	125.1	4	20	
22C2929-DUP2	Alkalinity Total SM2320B	Alkalinity as CaCO3	EC23084-02	124.6	121.6	2	20	
22C2929-DUP1	Temperature SM2550 B	Temperature	EC23084-01	23.2	23.4	0.9	20	
22C2929-DUP2	Temperature SM2550 B	Temperature	EC23084-02	22.9	22.9	0	20	

Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
22C2460-BS1	Conductivity SM2510 B	Conductivity	1429	1413	umho/cm	101	90 - 110	
22C2929-BS1	Alkalinity Total SM2320B	Alkalinity as CaCO3	94.0	100.0	mg/L	94	90 - 110	
22D0148-BS1	Calcium (Ca) EPA 200.7	Calcium	2.13	2.000	mg/L	106	85 - 115	
22D0151-BS1	Calcium (Ca) EPA 200.7	Calcium	2.04	2.000	mg/L	102	85 - 115	

Matrix Spike Data

QC Lab #	Test Group	Test Name	Source Sample	Sample Result	Units	Spike Result	Spike Level	% Rec.	Acceptance Limits	Flags
22C2929-MS1	Alkalinity Total SM2320B	Alkalinity as CaCO3	EC23084-01	125.1	mg/L	231.5	100.0	106	80 - 120	
22C2929-MS2	Alkalinity Total SM2320B	Alkalinity as CaCO3	EC23084-02	121.6	mg/L	227.4	100.0	106	80 - 120	
22D0148-MS1	Calcium (Ca) EPA 200.7	Calcium	EC23084-02	27.2	mg/L	48.0	20.00	104	85 - 115	

Matrix Spike Duplicate Data

QC Lab #	Test Group	Test Name	Sample Result	Spike Result	Spike Level	Units	% Rec.	Rec. Limits	% RPD	RPD Limit	Flags
22D0148-MSD1	Calcium (Ca) EPA 200.7	Calcium	27.2	47.7	20.00	mg/L	102	85-115	0.6	20	

* Complete Entire COC to be in Compliance*

RUSH Due Date



Chain of Custody

Client Name- **Perkins PWA**
 Project Name- **SDWIS Analysis - WQP**

Sample Preserv. & Container →	ICE 1000 mL Plastic	1000 mL Plastic							
Analysis Requested →	WQP: Calcium, pH, Alk, conductivity	Lead and Copper							
# of Container ↓									

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)			# of Container ↓	WQP: Calcium, pH, Alk, conductivity	Lead and Copper				
						Location Code	pH	Temp							
EC 23084 01	3/23/22	1120	DW	G	CL2 & ORTHO STATION - WELL 1	TP001	6.45	16.8	1	1					
02	3/23/22	1123	DW	G	CL2 & ORTHO STATION - WELL 2	TP002	6.51	16.6	1	1					
03	3/23/22	1135	DW	G	CL2 & ORTHO STATION - AMPRIDE WELL/WELL 7	TP007	6.71	17.0	1	1					
04	3/23/22	1128	DW	G	CL2 & ORTHO STATION - SONIC WELL		6.73	16.8	1	1					

On-Site Info	Raw Alkalinity (TOC Raw)= _____ mg/L	Turbidity (E.Coli)= _____ ntu	Field Instrument Calibration -				
Matrix Codes DW = Drinking water ; WW = Wastewater ; SL = Sludge ; O = Other			Meter Type	Standards	Final Read.	Date , Time	Initials
E.Coli Source GWUDI-FS= Groundwater under direct influence of Flowing Stream GWUDI-RL= Groundwater under direct influence of Reservoir/Lake							

Comments
 -- 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:** 3/23/22

Sampled By: Zachery Isca <i>[Signature]</i>	Company: City of Perkins	Sample Method:
Relinquished By: Zachery Isca <i>[Signature]</i>	Date/Time: 3/23/22	Received By: Zachery Isca <i>[Signature]</i>
<input type="checkbox"/> Relinquished to Lab By: Zachery Isca <i>[Signature]</i>	Date/Time: 3/23/22	Received at Lab By: <i>[Signature]</i>
<input type="checkbox"/> Relinquished to Log-In Fridge By:	Date/Time: 3/23/22	Rec'd °C: 5.1

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 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 Bid # - _____ Address: PO Box 9 Perkins, OK 74059 cityclerk@cityofperkins.net PO # - _____ Phone #: 405-547-2445 Fax #: 405-547-5440 091020 tkw
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