



May 10, 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:** April 27, 2022      Time: 13:36      sample temp upon arrival at lab = 13.80°C - On Ice

**Matrix:** Drinking Water

**Lab Log Numbers:** **ED27064-01**

**Work Order:** ED27064

**Report #** ED27064-0510221647

**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: 507 NE 4th

Location Code: LC005

PWSID#: OK2006012

Collection Type: Grab

Sample Time: 4/27/22 7:15

Lab Log# ED27064-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
pH in Field by Client	pH	6.61	pH	0.01	04/27/22 07:15	04/27/22 07:15
Temperature by Client	Temperature	20.1	C		04/27/22 07:15	04/27/22 07:15
Alkalinity Total SM2320B	Alkalinity as CaCO3	146.0	mg/L	10.0	05/03/22 14:51 CPL	05/03/22 16:06 CPL
Ortho-Phosphate (PO4) SM4500P E	Ortho-Phosphate	2.18	mg/L	0.15	04/28/22 16:00 RND	04/28/22 17:05 RND
Conductivity SM2510 B	Conductivity	413.1	umho/cm	2.0	05/03/22 15:47 MHM	05/03/22 16:45 MHM
Calcium (Ca) EPA 200.7	Calcium	27.4	mg/L	0.20	05/02/22 14:15 NIC	05/04/22 12:10 SMV
Copper (Cu) EPA 200.8	Copper	1.93	mg/L MCL	0.050	05/02/22 10:30 @PD	05/02/22 14:52 @PD
Lead (Pb) EPA 200.8	Lead	BPQL	mg/L	0.0050	05/02/22 10:30 @PD	05/02/22 14:04 @PD

### 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
22E0354-BLK1	Alkalinity Total SM2320B	Alkalinity as CaCO3	BPQL mg/L	10.0	
22D2859-BLK1	Ortho-Phosphate (PO4) SM4500P E	Ortho-Phosphate	BPQL mg/L	0.15	
22E0357-BLK1	Conductivity SM2510 B	Conductivity	BPQL umho/cm	2.0	
22E0229-BLK1	Calcium (Ca) EPA 200.7	Calcium	BPQL mg/L	0.20	
22E0214-BLK1	Copper (Cu) EPA 200.8	Copper	BPQL mg/L	0.010	
22E0214-BLK1	Lead (Pb) EPA 200.8	Lead	BPQL mg/L	0.0050	

### Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
22D2859-BS1	Ortho-Phosphate (PO4) SM4500P E	Ortho-Phosphate	1.47	1.533	mg/L	96	90 - 110	
22E0354-BS1	Alkalinity Total SM2320B	Alkalinity as CaCO3	104.2	100.0	mg/L	104	90 - 110	
22E0357-BS1	Conductivity SM2510 B	Conductivity	1384	1413	umho/cm	98	90 - 110	
22E0214-BS1	Copper (Cu) EPA 200.8	Copper	0.104	0.1000	mg/L	104	90 - 110	
22E0214-BS1	Lead (Pb) EPA 200.8	Lead	0.103	0.1000	mg/L	103	90 - 110	
22E0214-MRL1	Copper (Cu) EPA 200.8	Copper	0.004	0.005000	mg/L	84	50 - 150	
22E0214-MRL1	Lead (Pb) EPA 200.8	Lead	0.0049	0.005000	mg/L	98	50 - 150	
22E0229-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
22D2859-MS1	Ortho-Phosphate (PO4) SM4500P E	Ortho-Phosphate	ED27064-01	2.18	mg/L	3.74	1.533	102	80 - 120	
22E0229-MS1	Calcium (Ca) EPA 200.7	Calcium	ED27064-01	27.4	mg/L	37.2	10.00	98	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
22D2859-MSD1	Ortho-Phosphate (PO4) SM4500P E	Ortho-Phosphate	2.18	3.62	1.533	mg/L	94	80-120	3	20	
22E0229-MSD1	Calcium (Ca) EPA 200.7	Calcium	27.4	37.0	10.00	mg/L	96	85-115	0.4	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	500mL <del>1000</del> mL Plastic	4/27/22					
	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								
ED27064 01	4/27/22	7:15	DW	G	507 NE 4 <sup>th</sup>	LC005	6.61	20.1	2	1	1					

<b>On-Site Info</b>	Raw Alkalinity (TOC Raw)= _____ mg/L	Turbidity (E.Coli)= _____ ntu	Field Instrument Calibration -				
<b>Matrix Codes</b>	DW = Drinking water ; WW = Wastewater ; SL = Sludge ; O = Other		Meter Type	Standards	Final Read.	Date , Time	Initials
<b>E.Coli Source</b>	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 *[Signature]* Company: City of Perkins Sample Method: 27

Relinquished By: Zachery Isca *[Signature]* Date/Time: 3/23/22 3/27/22 Received By: Zachery Isca *[Signature]* Date/Time: 3/23/22 3/27/22

Relinquished to Lab By: Zachery Isca *[Signature]* Date/Time: 3/23/22 3/27/22 Received at Lab By: *[Signature]* Rec'd °C: 13.8 Date/Time: 3/23/22 1336

Reporting Requirements (standard 10-15 working days) Compliance Reporting? Yes or No (DMR, PWS, ) Oklahoma PWS ID # **OK2006012** RUSH Request (if available) 3/27/22 (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  
**Phone #:** 405-547-2445 **Fax #:** 405-547-5440  
 cityclerk@cityofperkins.net  
 Bid # -  
 PO # - 091020 tkw

JRH  
5/10/22

