



December 03, 2019

Client: Perkins PWA

PO Box 9

Perkins, OK 74059

Requested By: Janet Noe



National
Environmental
Laboratory
Accreditation
Program
Kansas CERT # E-10219

Sample Project Name: Wastewater Treatment Plant - Permit # OK0028801

Date Samples Received: November 25, 2019 Time: 10:55 sample temp upon arrival at lab = 12°C - On Ice

Matrix: Waste Water

Lab Log Numbers: **BK25016-01** **BK25016-02**

Work Order: BK25016

Report # BK25016-1203191315

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
Oklahoma City NELAP CERT # E-10414

New Hampshire Cert.: Oklahoma City Drinking Water NH ELAP Lab ID # 2072

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: Influent: WWTP

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 11/25/19 8:00

Lab Log# BK25016-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
BOD5 SM5210 B	Biochemical Oxygen Demand	265 mg/L		2.0	11/27/19 07:45 BM	12/02/19 10:45 MR
Total Suspended Solids SM2540D	Total Suspended Solids	188 mg/L		50.0	11/27/19 16:15 MR	12/02/19 08:10 MR

Sample: Effluent: WWTP

Location Code:

PWSID#:

Collection Type: Composite

Start Date: 11/25/19 8:00

End Date: 11/25/19 8:00

Lab Log# BK25016-02

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
BOD5 SM5210 B	Biochemical Oxygen Demand	8.6 mg/L	BOD-7	2.0	11/27/19 07:45 BM	12/02/19 10:45 MR
Total Suspended Solids SM2540D	Total Suspended Solids	23.0 mg/L		12.5	11/27/19 16:15 MR	12/02/19 08:10 MR
Total Dissolved Solids SM2540 C	Total Dissolved Solids	394.0 mg/L		25.0	11/27/19 10:50 RMM	12/03/19 07:00 RMM

Notes and Definitions

- BOD-7 The BOD sample dilutions showed greater than 30% difference between the high and low values. This does not invalidate data reported.
 - 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
19K2710-BLK1	BOD5 SM5210 B	Biochemical Oxygen Demand	BPQL mg/L	2.0	
19K2762-BLK1	Total Suspended Solids SM2540D	Total Suspended Solids	BPQL mg/L	2.50	
19K2743-BLK1	Total Dissolved Solids SM2540 C	Total Dissolved Solids	BPQL mg/L	25.0	

Duplicate Sample Data

QC Lab #	Test Group	Test Name	Source	Dup Result	Samp Result	% RPD	RPD Limit	Flags
19K2710-DUP1	BOD5 SM5210 B	Biochemical Oxygen Demand	BK25016-01	254	265	4	20	
19K2762-DUP1	Total Suspended Solids SM2540D	Total Suspended Solids	BK25016-01	192	188	2	10	

Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
19K2710-BS1	BOD5 SM5210 B	Biochemical Oxygen Demand	226	198.0	mg/L	114	84.6 - 115.4	
19K2743-BS1	Total Dissolved Solids SM2540 C	Total Dissolved Solids	1002	1000	mg/L	100	80 - 120	
19K2762-BS1	Total Suspended Solids SM2540D	Total Suspended Solids	236	250.0	mg/L	94	80 - 120	



Chain of Custody

Due Date _____

Client Name- **City of Perkins - Public Works Authority**
 Project Name- **Wastewater Treatment Plant - Permit # OK0028801**

Sample Preserv. & Container →	1000 ml Plastic	1000 ml Plastic	500ml Plastic		
Analysis Requested →	TSS / BOD	TSS / BOD	TDS		
# of Container ↓					
-01	x				
-02		x	x		

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)			Analysis Requested →	TSS / BOD	TSS / BOD	TDS
						pH	Temp C°					
BK25016												
-01	11/25/19	08:00	WW	G	Influent: WWTP	7.49	15.0		2	x		
-02	11/25/19	08:00	WW	C	Effluent: WWTP	7.21	15.5		2		x	x

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

Field Instrument Calibration -				
Meter Type	Standards	Final Read.	Date , Time	Initials
HACH	4-7-10	7.09	11/25/19-08:00	SP

Comments **Samples Delivered On Ice. (Effluent is Disinfected with Ultra Violet Light)**
 -- 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: *Steven Pitzl* Date/Time 11/25/19-08:00

Sampled By: Steven Pitzl *Steven Pitzl* Company: City of Perkins Sample Method: GRAB

Relinquished By:	Date/Time	Received By:	Date/Time
<input type="checkbox"/> Relinquished to Lab By: Steven Pitzl	Date/Time 11/25/19	Received at Lab By: <i>Eric Larson</i>	Date/Time 11/25/19
<input type="checkbox"/> Relinquished to Log-In Fridge By: <i>Steven Pitzl</i>	1055	Rec'd °C 12.2	1055

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

Mail Report To: Janet Noe – jnoe@cityofperkins.net
 Steven Pitzl – spitzl@cityofperkins.net
 City Manager – citymanager@cityofperkins.net
 Address: City of Perkins
 P.O. Box. 9
 Perkins, Ok. 74059
 Phone #: (405) 714-7859 Fax #: (405) 547-5440

Mail Invoice To: Bid # - _____
 Address: City of Perkins
 P.O. Box. 9
 Perkins, Ok. 74059 PO # - _____
 Phone #: (405) 547-2445 Fax #: (405) 547-5440