



August 05, 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: WWTP-Annual Sludge Analysis
Date Samples Received: July 21, 2022 Time: 13:31 sample temp upon arrival at lab = 14.00°C - On Ice

Matrix: Sludge

Lab Log Numbers: **EG21072-01** **EG21072-02** **EG21072-03** **EG21072-04**
 EG21072-05 **EG21072-06** **EG21072-07** **EG21072-08**

Work Order: EG21072

Report # EG21072-0805220800

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: Sludge #1- Digester 1

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	601 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	1.10 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Sludge #2- Digester 1

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-02

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	423 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	2.98 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Sludge #3- Digester 1

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-03

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	1110 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	1.54 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Sludge #4- Digester 1

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-04

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	560 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	1.93 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Sludge #5- Digester 2

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-05

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	479 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	1.90 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Sludge #6- Digester 2

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-06

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	167 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	5.44 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Sludge #7- Digester 2

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 7/21/22 10:30

Lab Log# EG21072-07

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge SM9222 D	Fecal Coliform	170 CFU/g dry		1.0	07/21/22 17:12 STO	07/22/22 15:27 STO
Solids, Percent SM2540 B	Percent Solids	3.72 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM

Sample: Lab Composite of #1-7

Location Code:

PWSID#:

Collection Type: Composite

Start Date: 7/21/22 10:30

End Date: 7/21/22 10:30

Lab Log# EG21072-08

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
pH in Lab EPA 9045D	pH	7.50 pH Units	#03	0.0100	07/26/22 09:00 BM	07/26/22 12:26 BM
Phosphorus (P), Total - EPA 365.1	Phosphorus	15000 mg/kg dry		25.0	08/01/22 11:11 KMK	08/02/22 10:22 KMK
Temperature SM2550 B	Temperature	21.8 °C			07/26/22 09:00 BM	07/26/22 12:26 BM
Ammonia, Total SM4500NH3 C	Ammonia as N	7900 mg/kg dry		0.75	07/26/22 14:19 RND	07/26/22 17:01 RND
Nitrate EPA 300.0	Nitrate as N	BPQL mg/kg dry		5.00	07/26/22 12:00 RND	07/27/22 00:38 RND
Nitrite EPA 300.0	Nitrite as N	BPQL mg/kg dry		1.00	07/26/22 12:00 RND	07/27/22 00:38 RND
Solids, Percent SM2540 B	Percent Solids	2.58 %		0.100	07/22/22 12:20 MHM	07/25/22 12:16 MHM
Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	35900 mg/kg dry		2.00	07/28/22 10:00 RND	07/29/22 12:15 RND
Antimony (Sb) EPA 6010B	Antimony	BPQL mg/kg dry		25.0	07/27/22 15:30 LF	07/28/22 16:39 RAF
Arsenic (As) EPA 6010B	Arsenic	BPQL mg/kg dry		25.0	07/27/22 15:30 LF	07/28/22 16:39 RAF
Beryllium (Be) EPA 6010B	Beryllium	BPQL mg/kg dry		2.50	07/27/22 15:30 LF	07/28/22 16:39 RAF
Cadmium (Cd) EPA 6010B	Cadmium	2.54 mg/kg dry		2.50	07/27/22 15:30 LF	07/29/22 14:11 RAF
Chromium (Cr) EPA 6010B	Chromium	28.8 mg/kg dry		12.5	07/27/22 15:30 LF	07/28/22 16:39 RAF
Copper (Cu) EPA 6010B	Copper	840 mg/kg dry		12.5	07/27/22 15:30 LF	07/28/22 16:39 RAF
Lead (Pb) EPA 6010B	Lead	48.6 mg/kg dry		25.0	07/27/22 15:30 LF	07/28/22 16:39 RAF
Mercury (Hg) EPA 7471A	Mercury	866 ug/kg dry		10.0	07/26/22 08:15 RAF	07/26/22 15:30 LF
Molybdenum (Mo) EPA 6010B	Molybdenum	5.03 mg/kg dry		5.00	07/27/22 15:30 LF	07/28/22 16:39 RAF
Nickel (Ni) EPA 6010B	Nickel	16.7 mg/kg dry		5.00	07/27/22 15:30 LF	07/28/22 16:39 RAF
Potassium (K) EPA 6010B	Potassium	3700 mg/kg dry		125	07/27/22 15:30 CJS	07/28/22 16:39 RAF
Selenium (Se) EPA 6010B	Selenium	BPQL mg/kg dry		12.5	07/27/22 15:30 LF	07/29/22 14:11 RAF
Silver (Ag) EPA 6020A	Silver	3.66 mg/kg dry		1.00	07/27/22 15:30 NIC	07/29/22 02:02 LF
Thallium (Tl) EPA 6010B	Thallium	BPQL mg/kg dry		50.0	07/27/22 15:30 LF	07/28/22 16:39 RAF
Zinc (Zn) EPA 6010B	Zinc	1310 mg/kg dry		12.5	07/27/22 15:30 LF	08/02/22 15:25 RAF
PCB Analysis by SW846 8082	PCB-1016	BPQL mg/kg dry	MS	0.105	07/22/22 13:20 KDB	07/25/22 11:21 ES
PCB Analysis by SW846 8082	PCB-1221	BPQL mg/kg dry		0.209	07/22/22 13:20 KDB	07/25/22 11:21 ES
PCB Analysis by SW846 8082	PCB-1232	BPQL mg/kg dry		0.105	07/22/22 13:20 KDB	07/25/22 11:21 ES
PCB Analysis by SW846 8082	PCB-1242	BPQL mg/kg dry		0.105	07/22/22 13:20 KDB	07/25/22 11:21 ES
PCB Analysis by SW846 8082	PCB-1248	BPQL mg/kg dry		0.105	07/22/22 13:20 KDB	07/25/22 11:21 ES
PCB Analysis by SW846 8082	PCB-1254	BPQL mg/kg dry		0.105	07/22/22 13:20 KDB	07/25/22 11:21 ES
PCB Analysis by SW846 8082	PCB-1260	BPQL mg/kg dry		0.105	07/22/22 13:20 KDB	07/25/22 11:21 ES

Notes and Definitions

MS	Insufficient sample volume received to perform MS/MSD for this analysis.
#52	Analyte recoveries are outside of acceptance limits for the matrix spike sample. This failure does not invalidate data reported.
#03	This sample was received outside of EPA recommended holding time.
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

A handwritten signature in black ink, appearing to read "Dg Cu", is displayed on a light gray rectangular background.

Quality Control Data

Blank Data

QC Lab #	Test Group	Test	Result	PQL	Flags
22H0141-BLK1	Phosphorus (P), Total - EPA 365.1	Phosphorus	BPQL mg/kg wet	2.50	
22G2650-BLK1	Ammonia, Total SM4500NH3 C	Ammonia as N	BPQL mg/kg wet	0.75	
22G2634-BLK1	Nitrate EPA 300.0	Nitrate as N	BPQL mg/kg wet	0.500	
22G2634-BLK1	Nitrite EPA 300.0	Nitrite as N	BPQL mg/kg wet	0.10	
22G2196-BLK1	Fecal Coliform Sludge SM9222 D	Fecal Coliform	BPQL CFU/g wet	1.0	
22G2196-BLK2	Fecal Coliform Sludge SM9222 D	Fecal Coliform	BPQL CFU/g wet	1.0	
22G2823-BLK1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	BPQL mg/kg wet	2.00	
22G2808-BLK1	Antimony (Sb) EPA 6010B	Antimony	BPQL mg/kg dry	25.0	
22G2808-BLK1	Arsenic (As) EPA 6010B	Arsenic	BPQL mg/kg dry	25.0	
22G2808-BLK1	Beyllium (Be) EPA 6010B	Beryllium	BPQL mg/kg dry	2.50	
22G2808-BLK1	Cadmium (Cd) EPA 6010B	Cadmium	BPQL mg/kg dry	2.50	
22G2808-BLK1	Chromium (Cr) EPA 6010B	Chromium	BPQL mg/kg dry	12.5	
22G2808-BLK1	Copper (Cu) EPA 6010B	Copper	BPQL mg/kg dry	12.5	
22G2808-BLK1	Lead (Pb) EPA 6010B	Lead	BPQL mg/kg dry	25.0	
22G2623-BLK1	Mercury (Hg) EPA 7471A	Mercury	BPQL ug/kg wet	10.0	
22G2808-BLK1	Molybdenum (Mo) EPA 6010B	Molybdenum	BPQL mg/kg dry	5.00	
22G2808-BLK1	Nickel (Ni) EPA 6010B	Nickel	BPQL mg/kg dry	5.00	
22G2808-BLK1	Potassium (K) EPA 6010B	Potassium	BPQL mg/kg dry	125	
22G2808-BLK1	Selenium (Se) EPA 6010B	Selenium	BPQL mg/kg dry	12.5	
22G2806-BLK1	Silver (Ag) EPA 6020A	Silver	BPQL mg/kg dry	1.00	
22G2808-BLK1	Thallium (Tl) EPA 6010B	Thallium	BPQL mg/kg dry	50.0	
22G2808-BLK1	Zinc (Zn) EPA 6010B	Zinc	BPQL mg/kg dry	12.5	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1016	BPQL mg/kg wet	0.0033	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1221	BPQL mg/kg wet	0.0067	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1232	BPQL mg/kg wet	0.0033	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1242	BPQL mg/kg wet	0.0033	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1248	BPQL mg/kg wet	0.0033	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1254	BPQL mg/kg wet	0.0033	
22G2234-BLK1	PCB Analysis by SW846 8082	PCB-1260	BPQL mg/kg wet	0.0033	

Quality Control Data

Duplicate Sample Data

QC Lab #	Test Group	Test Name	Source	Dup Result	Samp Result	% RPD	RPD Limit	Flags
22G2640-DUP1	pH in Lab EPA 9045D	pH	EG21072-08	7.55	7.50	0.7	20	
22H0141-DUP1	Phosphorus (P), Total - EPA 365.1	Phosphorus	EG21072-08	13700	15000	9	20	
22G2640-DUP1	Temperature SM2550 B	Temperature	EG21072-08	21.7	21.8	0.5	20	
22G2634-DUP1	Nitrate EPA 300.0	Nitrate as N	EG21072-08	BPQL	BPQL	UDL	20	
22G2634-DUP1	Nitrite EPA 300.0	Nitrite as N	EG21072-08	BPQL	BPQL	UDL	20	
22G2236-DUP1	Solids, Percent SM2540 B	Percent Solids	EG21072-02	2.88	2.98	3	10	

Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
22G2634-BS1	Nitrate EPA 300.0	Nitrate as N	10.2	10.00	mg/kg wet	102	90 - 110	
22G2634-BS1	Nitrite EPA 300.0	Nitrite as N	5.82	6.090	mg/kg wet	96	90 - 110	
22G2640-BS1	pH in Lab EPA 9045D	pH	7.02	7.000	pH Units	100	99 - 101	
22G2650-BS1	Ammonia, Total SM4500NH3 C	Ammonia as N	4.66	5.000	mg/kg wet	93	90 - 110	
22G2650-BS2	Ammonia, Total SM4500NH3 C	Ammonia as N	9.29	10.00	mg/kg wet	93	90 - 110	
22G2823-BS1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	20.3	20.00	mg/kg wet	102	90 - 110	
22G2823-BS2	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	40.5	40.00	mg/kg wet	101	90 - 110	
22H0141-BS1	Phosphorus (P), Total - EPA 365.1	Phosphorus	50.2	50.00	mg/kg wet	100	90 - 110	
22G2623-BS1	Mercury (Hg) EPA 7471A	Mercury	400	416.7	ug/kg wet	96	85 - 115	
22G2806-BS1	Silver (Ag) EPA 6020A	Silver	201	195.7	mg/kg dry	103	85 - 115	
22G2808-BS1	Antimony (Sb) EPA 6010B	Antimony	486	489.2	mg/kg dry	99	85 - 115	
22G2808-BS1	Arsenic (As) EPA 6010B	Arsenic	509	489.2	mg/kg dry	104	85 - 115	
22G2808-BS1	Beryllium (Be) EPA 6010B	Beryllium	494	489.2	mg/kg dry	101	85 - 115	
22G2808-BS1	Cadmium (Cd) EPA 6010B	Cadmium	494	489.2	mg/kg dry	101	85 - 115	
22G2808-BS1	Chromium (Cr) EPA 6010B	Chromium	455	489.2	mg/kg dry	93	85 - 115	
22G2808-BS1	Copper (Cu) EPA 6010B	Copper	450	489.2	mg/kg dry	92	85 - 115	
22G2808-BS1	Lead (Pb) EPA 6010B	Lead	489	489.2	mg/kg dry	100	85 - 115	
22G2808-BS1	Molybdenum (Mo) EPA 6010B	Molybdenum	453	489.2	mg/kg dry	93	85 - 115	
22G2808-BS1	Nickel (Ni) EPA 6010B	Nickel	487	489.2	mg/kg dry	100	85 - 115	
22G2808-BS1	Potassium (K) EPA 6010B	Potassium	548	489.2	mg/kg dry	112	85 - 115	
22G2808-BS1	Selenium (Se) EPA 6010B	Selenium	483	489.2	mg/kg dry	99	85 - 115	
22G2808-BS1	Thallium (Tl) EPA 6010B	Thallium	485	489.2	mg/kg dry	99	85 - 115	
22G2808-BS1	Zinc (Zn) EPA 6010B	Zinc	553	489.2	mg/kg dry	113	85 - 115	
22G2234-BS1	PCB Analysis by SW846 8082	PCB-1016	0.0118	0.01333	mg/kg wet	89	53.1 - 129	
22G2234-BS1	PCB Analysis by SW846 8082	PCB-1260	0.0144	0.01333	mg/kg wet	108	64.3 - 139	

LCS Duplicate Data

QC Lab#	Test Group	Test Name	LCS % Rec.	LCS Dup % Rec.	Recovery Limits	RPD	RPD Limit	Flags
22G2234-BSD1	PCB Analysis by SW846 8082	PCB-1016	89	105	53.1 - 129	17	20	
22G2234-BSD1	PCB Analysis by SW846 8082	PCB-1260	108	124	64.3 - 139	13	20	

Quality Control Data

Matrix Spike Data

QC Lab #	Test Group	Test Name	Source Sample	Sample Result	Units	Spike Result	Spike Level	% Rec.	Acceptance Limits	Flags
22H0141-MS1	Phosphorus (P), Total - EPA 365.1	Phosphorus	EG21072-08	15000	mg/kg dry	34200	18300	105	90 - 110	
22G2650-MS1	Ammonia, Total SM4500NH3 C	Ammonia as N	EG21072-08	7900	mg/kg dry	73100	72270	90	80 - 120	
22G2634-MS1	Nitrate EPA 300.0	Nitrate as N	EG21072-08	BPQL	mg/kg dry	1390	1296	107	80 - 120	
22G2634-MS1	Nitrite EPA 300.0	Nitrite as N	EG21072-08	BPQL	mg/kg dry	412	393.4	105	80 - 120	
22G2823-MS1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	EG21072-08	35900	mg/kg dry	111000	74910	100	80 - 120	
22G2808-MS1	Antimony (Sb) EPA 6010B	Antimony	EG21072-08	4.10	mg/kg dry	463	486.9	94	85 - 115	
22G2808-MS1	Arsenic (As) EPA 6010B	Arsenic	EG21072-08	6.05	mg/kg dry	492	486.9	100	85 - 115	
22G2808-MS1	Beryllium (Be) EPA 6010B	Beryllium	EG21072-08	BPQL	mg/kg dry	474	486.9	97	85 - 115	
22G2808-MS1	Cadmium (Cd) EPA 6010B	Cadmium	EG21072-08	2.54	mg/kg dry	456	486.9	93	85 - 115	
22G2808-MS1	Chromium (Cr) EPA 6010B	Chromium	EG21072-08	28.8	mg/kg dry	461	486.9	89	85 - 115	
22G2808-MS1	Copper (Cu) EPA 6010B	Copper	EG21072-08	840	mg/kg dry	1310	486.9	98	85 - 115	
22G2808-MS1	Lead (Pb) EPA 6010B	Lead	EG21072-08	48.6	mg/kg dry	506	486.9	94	85 - 115	
22G2808-MS1	Molybdenum (Mo) EPA 6010B	Molybdenum	EG21072-08	5.03	mg/kg dry	440	486.9	89	85 - 115	
22G2808-MS1	Nickel (Ni) EPA 6010B	Nickel	EG21072-08	16.7	mg/kg dry	470	486.9	93	85 - 115	
22G2808-MS1	Potassium (K) EPA 6010B	Potassium	EG21072-08	3700	mg/kg dry	4260	486.9	115	85 - 115	
22G2808-MS1	Selenium (Se) EPA 6010B	Selenium	EG21072-08	9.76	mg/kg dry	457	486.9	92	85 - 115	
22G2806-MS1	Silver (Ag) EPA 6020A	Silver	EG21072-08	3.66	mg/kg dry	209	194.7	105	85 - 115	
22G2808-MS1	Thallium (Tl) EPA 6010B	Thallium	EG21072-08	BPQL	mg/kg dry	457	486.9	94	85 - 115	
22G2808-MS1	Zinc (Zn) EPA 6010B	Zinc	EG21072-08	1310	mg/kg dry	1860	486.9	112	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
22G2650-MSD1	Ammonia, Total SM4500NH3 C	Ammonia as N	7900	77500	72340	ng/kg dr	96	80-120	6	20	
22G2823-MSD1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	35900	115000	75440	ng/kg dr	105	80-120	4	20	
22G2808-MSD1	Antimony (Sb) EPA 6010B	Antimony	4.10	470	496.3	ng/kg dr	94	85-115	2	20	
22G2808-MSD1	Arsenic (As) EPA 6010B	Arsenic	6.05	496	496.3	ng/kg dr	99	85-115	0.9	20	
22G2808-MSD1	Beryllium (Be) EPA 6010B	Beryllium	BPQL	479	496.3	ng/kg dr	96	85-115	1	20	
22G2808-MSD1	Cadmium (Cd) EPA 6010B	Cadmium	2.54	468	496.3	ng/kg dr	94	85-115	3	20	
22G2808-MSD1	Chromium (Cr) EPA 6010B	Chromium	28.8	466	496.3	ng/kg dr	88	85-115	1	20	
22G2808-MSD1	Copper (Cu) EPA 6010B	Copper	840	1290	496.3	ng/kg dr	90	85-115	2	20	
22G2808-MSD1	Lead (Pb) EPA 6010B	Lead	48.6	516	496.3	ng/kg dr	94	85-115	2	20	
22G2808-MSD1	Molybdenum (Mo) EPA 6010B	Molybdenum	5.03	442	496.3	ng/kg dr	88	85-115	0.5	20	
22G2808-MSD1	Nickel (Ni) EPA 6010B	Nickel	16.7	474	496.3	ng/kg dr	92	85-115	0.9	20	
22G2808-MSD1	Potassium (K) EPA 6010B	Potassium	3700	4250	496.3	ng/kg dr	111	85-115	0.2	20	
22G2808-MSD1	Selenium (Se) EPA 6010B	Selenium	9.76	464	496.3	ng/kg dr	92	85-115	1	20	
22G2806-MSD1	Silver (Ag) EPA 6020A	Silver	3.66	212	198.5	ng/kg dr	105	85-115	1	20	
22G2808-MSD1	Thallium (Tl) EPA 6010B	Thallium	BPQL	464	496.3	ng/kg dr	93	85-115	1	20	
22G2808-MSD1	Zinc (Zn) EPA 6010B	Zinc	1310	1980	496.3	ng/kg dr	133	85-115	6	20	#52

Quality Control Data**Quality Control Data****Surrogate Recovery Data**

QC Lab#	Test Group	Test Name	% Recovery	Recovery Limits	Flags
22G2234-BLK1	PCB Analysis by SW846 8082	DCB	86	55.8 - 148	
22G2234-BLK1	PCB Analysis by SW846 8082	TCMX	47	35.8 - 102	
22G2234-BS1	PCB Analysis by SW846 8082	DCB	101	55.8 - 148	
22G2234-BS1	PCB Analysis by SW846 8082	TCMX	46	35.8 - 102	
22G2234-BSD1	PCB Analysis by SW846 8082	DCB	107	55.8 - 148	
22G2234-BSD1	PCB Analysis by SW846 8082	TCMX	60	35.8 - 102	
EG21072-08	PCB Analysis by SW846 8082	DCB	60	55.8 - 148	
EG21072-08	PCB Analysis by SW846 8082	TCMX	48	35.8 - 102	

* Complete Entire COC to be in Compliance*

RUSH Due Date _____



Chain of Custody

Client Name- **Perkins PWA**

Project Name- **WWTP-Annual Sludge Analysis**

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 → # of Container ↓	Fecal Coliform, % Solids	Table 3 Metals	PAN Nutrients	PCB	Sample Preserv. & Container → Ice 125ml Sterile Plastic
8621072														
-01	7/21/22	1030	SL	G	Sludge #1- Digester 1				1	1				
-02	7/21/22	1030	SL	G	Sludge #2- Digester 1				1	1				
-03	7/21/22	1030	SL	G	Sludge #3- Digester 1				1	1				
-04	7/21/22	1030	SL	G	Sludge #4- Digester 1				1	1				
-05	7/21/22	1030	SL	G	Sludge #5- Digester 2				1	1				
-06	7/21/22	1030	SL	G	Sludge #6- Digester 2				1	1				
-07	7/21/22	1030	SL	G	Sludge #7- Digester 2				1	1				
-08	7/21/22	1030	SL	C*	Lab Composite of #1-7				*		*	*	*	

On-Site Info Raw Alkalinity _____ Turbidity _____
 (TOC Raw)= _____ mg/L (E.Coli)= _____ ntu
 Matrix Codes DW = Drinkingwater ; 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
				Z

Comments * Samples are to be composited at laboratory. -- 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: 7/21/22

Sampled By: Zachery Isca *[Signature]* **Company:** City of Perkins **Sample Method:**

Relinquished By: Zachery Isca *[Signature]* **Date/Time:** 7/21/22 **Received By:** Zachery Isca *[Signature]* **Date/Time:** 7/21/22

Relinquished to Lab By: Zachery Isca *[Signature]* **Date/Time:** 7/22/21 13:31 **Received at Lab By:** *[Signature]* Rec'd °C: 14.0 **Date/Time:** 7/21/22 13:31

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

Mail Invoice: Accounts Payable
 City of Perkins **Bid # -** _____
Address: Po Box 9
 Perkins, OK 74059 **PO # -** _____
Phone #: 405-547-2445 **Fax #:** 405-547-5440

citymanager@cityofperkins.net cityclerk@cityofperkins.net