

December 13, 2023

Larry Heikkila, Mayor  
Norman Utilities Authority  
c/o Ryan R. Bart, Utilities Supervisor  
P.O. Box 370  
Norman, Oklahoma 73070-0370

Re: Sludge Management Plan Amendment – Site Addition Approval  
Norman Water Reclamation Facility  
Sludge Management Plan No. 3514006  
Facility No. S-20616  
OPDES Permit No. OK0029190

Dear Mr. Heikkila:

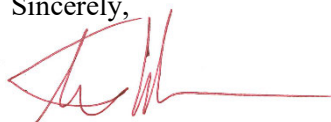
On October 27, 2023, the Oklahoma Department of Environmental Quality (DEQ), Water Quality Division (WQD), received the Norman Utilities Authority's request to add three (3) land application sites, which had previously been approved for a one-time disposition. Approval of the sites is granted based on the information provided.

**APPROVED:**

- A-1: 94.06 acres located within the SW<sup>1</sup>/<sub>4</sub> of the NW<sup>1</sup>/<sub>4</sub> of Section 22, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma.
- A-2: 97.73 acres located within the NE<sup>1</sup>/<sub>4</sub> of Section 33, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma
- A-3: 120 acres located within the E<sup>1</sup>/<sub>2</sub> of the SW<sup>1</sup>/<sub>4</sub> of Section 33, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma

The approved application sites are subject to the provisions of the City of Norman Sludge Management Plan (SMP) SMP No. 3514006 and should be made a part of the permanent record. Any change or deviation from the permit must be approved in writing by DEQ. If you have any questions, you can contact me at 405-702-8109.

Sincerely,



Toby Harden, P.E., District Engineer  
Municipal Wastewater Enforcement Section  
Water Quality Division  
Oklahoma Department of Environmental Quality

TWH/MM/hb

JNH

cc: Steve Hardeman, Utilities Manager, Norman Utilities Authority  
Derek Leatherman, Lab Manager, Norman Water Reclamation Facility  
Alexandra Graves, ECLS, Purcell DEQ Office  
Cassandra Atwood, Regional Manager, ECLS, DEQ



The City of  
**NORMAN**

3500 South Jenkins · P.O. Box 370  
Norman, Oklahoma 73072 · 73070

WATER RECLAMATION  
FACILITY  
Phone: 405-292-9726  
Fax: 405-292-9795

October 25, 2023

Miles Mungles, District Representative/Sludge Management Program  
Oklahoma Department of Environmental Quality  
Water Quality Division  
P.O. Box 1677  
Oklahoma City, Ok 73101-1677

**RECEIVED**

**OCT 27 2023**

**WATER QUALITY DIVISION**

Re: Approval for Application of Bio-Solids Land Application  
City of Norman Water Reclamation Facility  
OPDES Permit No. OK 0029190  
Facility ID: S 20610

Mr. Mungles,


The Norman Water Reclamation facility is requesting approval of bio-solids application to Mr. Aiken's fields in Washington, Oklahoma. We are requesting a permit to *permanently* add these fields to our Sludge Management Plan. ODEQ approved these sites in 2019 for one-time use. The information you requested is included in this packet.

This packet includes the following information.

1. ODEQ Authorization Form for Land Application of Sewage Sludge.
2. Application for Municipal Sludge Land Application Permit.
3. Previous ODEQ approval of sites.
4. SMP Sludge Test Results DMRs for 2022
5. Legal Descriptions of land sites and maps.
6. Land Application Soil Sample Results
7. Land use agreement between Norman Utilities Authority (NUA) and landowners for a future digester cleanout.

If you need any addition information, please call me at 405-292-9726.

Respectfully,

  
Steven Hardeman  
Utilities Manager  
Norman Water Reclamation Facility  
City of Norman

ODEQ Land Application Permit Documents

October 2023

Land Owner:

Submitted By:

Steven Hardeman: Utilities Manager

Norman Water Reclamation Facility

3500 Jenkins Ave

Norman, Okla. 73072

P.O. Box 370

Norman, Okla. 73069

**RECEIVED**

OCT 27 2023

WATER QUALITY DIVISION

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
APPLICATION FOR AUTHORIZATION TO BE COVERED UNDER GENERAL PERMIT GP NO \_\_\_\_\_  
FOR LAND APPLICATION OF SEWAGE SLUDGE

FORM \_\_\_\_\_

FOR  
DEQ  
USE  
ONLY

Application/Permit Number GP \_\_\_\_\_  
Date Received \_\_\_\_\_  
One Time Land Application \_\_\_\_\_, Minor Facility \_\_\_\_\_  
DEQ Biosolids Coordinator \_\_\_\_\_

SECTION I

- 1. Legal name of applicant:**  
Steven D. Hardeman
- 2. Mailing address of applicant:**  
Street address or PO Box P.O. Box 370 / 3500 Jenkins Ave  
City Norman County Cleveland State OK Zip 73072  
Telephone (405) 292-9726
- 3. Name and address of facility:**  
Facility Name Norman Water Reclamation Facility  
City Norman County Cleveland State OK Zip 73072  
**Location of land application site:**  
Legal Description: \_\_\_ 1/4, \_\_\_ 1/4, \_\_\_ 1/4, Sec \_\_\_, T \_\_\_, R \_\_\_. ( ) IM ( ) CM.  
Entry Point: Longitude \_\_\_\_\_, Latitude \_\_\_\_\_ See MAP
- 5. Type Ownership** Public  Private ( ) Federal ( ) State ( )
- 6. Contact Person:**  
Name & Title Steven D. Hardeman  
Street address or PO Box 3500 Jenkins Ave  
City Norman County Cleveland State OK Zip 73072  
Telephone (405) 292-9726
- 7. Type of Treatment:**  
Minor Facility: Design Capacity 17 mgd Estimated Sludge Production 4501 Dry Tons/Year  
Lagoon: Estimated sludge quantity \_\_\_\_\_ Dry Tons  
Other sludge storage facility: Estimated sludge quantity \_\_\_\_\_ (Dry Tons)
- 8. Does Facility Receive Industrial Wastes?** Yes ( ) No   
If "yes", What is the average daily industrial waste flow \_\_\_\_\_ GPD  
If the facility receives wastewater from a categorical industry, you must submit Section II of this form (attached) for each categorical industrial facility discharging to the sewer system.
- 9. Are industrial discharge(s) to the system controlled by ordinance?** Yes (  ) No ( )

10. **Sludge generated by the facility:**

- A. When was the last time sludge was removed from the facility (date) Daily
- B. Was removal authorized by DEQ? Yes () No ( )
- C. How was it disposed of (describe the disposal method) Lund applied on permitted farmland within city limits and beyond.
- D. Location(s) of the disposal site(s) (legal description to the nearest 10 acres) Sec 20 Township 8 North, Range 2 West, 1m
- E. Sludge Management Plan, if any:  
Sludge Plan ID Number SMP 351400 approved by the Department of Environmental Quality

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I also certify that I will provide for the operation of this facility in accordance with the Oklahoma Discharge Permits and Pollution Control Regulations and will provide certified operators as required by the Oklahoma Water and Wastewater Operations Certification Act. I further certify that I shall acquire or possess a right to the use of the property or properties on which the land application activities are located as well as the access route thereto. I understand I shall maintain such right of use and access for the duration of the permit term. I am aware that there are significant penalties for submitting false information, including revocation of the permit and the possibility of fine and imprisonment.

Note: Application must be signed by the authorized chief elective or executive officer of the applicant, or by the applicant, if an individual.

Name (print) Steven Hardeman  
Title Utilities Manager  
Date 9-13-23  
Signature [Handwritten Signature]

Subscribed and sworn to before me this 13<sup>th</sup> day of September 20 23  
[Handwritten Signature] My commission expires 11/21/26

This application shall be filed in duplicate with the original and one copy to be submitted to the DEQ, and one copy to be submitted to the local DEQ office.

Please return completed form with attachments to:

**Water Quality Division**  
**Department of Environmental Quality**  
707 N. Robinson, P>O. Box 1677  
Oklahoma City, Oklahoma 73102-1677



**SECTION II**

**INDUSTRIAL WASTE CONTRIBUTION TO MUNICIPAL SYSTEM**

Submit a description of each industrial facility discharging to the municipal system, using a separate Section II for each. Indicate the 4 digit Standard Industrial Classification (SIC) code for the industry, the major product or raw material, the flow (in gallons per day), and the characteristics of the wastewater discharged from the industrial facility into the municipal system.

**1. Major contributing facility:**

Name \_\_\_\_\_  
City \_\_\_\_\_ County \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**2. Primary standard industrial classification Code** \_\_\_\_\_

**3. Principal product or Raw Material**

Product or raw material

Product or raw material

Product or raw material

**4. Flow: Indicate the volume of water discharged into the municipal system in gallons per day and whether this discharge is intermittent or continuous.** \_\_\_\_\_ GPD

Intermittent ( )      Continuous ( )

**5. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal system.**

Yes ( )      No ( )

**6. Characteristics of Wastewater**




Oklahoma Department of Environmental Quality  
 707 N. Robinson, OKC OK 73102-6010  
**Application for  
 Municipal Sludge Land Application Permit**

As required by the Oklahoma Environmental Quality Code.

This application is to be submitted to obtain a Municipal Sludge Land Application Permit.  
 Application, plans, and specifications submitted in quadruplicate through the County DEQ personnel.

To the Executive Director of The Department of Environmental Quality  
 Department of Environmental Quality  
 Water Quality Division  
 P.O. Box 1677  
 Oklahoma City, OK 73101-1677

Date: 9-13-22

**Application**

The applicant, Steven Hardeman (proposes to land apply sludge  
Name of Applicant (Print or Type))

generated at Norman Water Reclamation facility ID No. 0029190  
Name of Treatment Plant (Print or Type)

located at S 1/2, SE 1/4 Sect 7 Tship 8N, Range 2  
Legal Description

Steven Hardeman hereby makes application for a permit to land apply sludge as required by OAC 252:648 of  
Name of Applicant)  
 the Oklahoma Environmental Quality Code, 27A O.S. Supp. 1993, Section 2-1-2-101 et seq., the Solid Waste Management Act, 27A:2-10-101 et seq., Article  
 VI of the Code [Water Quality], 27A:2-6-101 et seq., the Oklahoma Pollutant Discharge Elimination System Act, 27A:2-6-201 et sig. And any rules and  
 regulations pursuant thereto.

**Applicant Signature**

Note: Application must be signed by the authorized chief elective or executive officer of the applicant. Information must be legible.

Steven D. Hardeman City of Norman, OK  
Signature Name of Organization (Print or Type)  
Steven D. Hardeman 3500 S. Jenkins Ave  
Name of Authorized Signature (Print or Type) Street Address (Print or Type)  
Utilities Manager Norman, OK 73072  
Title City/State/Zip Code

**COUNTY DEQ PERSONNEL ONLY**

I have had the opportunity to review this  
 application and comment on it.

Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 County: \_\_\_\_\_  
 Date: \_\_\_\_\_

**DO NOT USE THIS SPACE - ODEQ ONLY**



Received in the  
OFFICE of the MAYOR

Date: 12 / 3 / 19

e BX  
DP  
KK  
AR



SCOTT A. THOMPSON  
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

KEVIN STITT  
Governor

November 27, 2019

Breea Clark, Chairman  
Norman Utilities Authority  
c/o Steve Lewis, City Manager  
City of Norman  
P.O. Box 370  
Norman, Oklahoma 73070-0370

Re: General Permit No. OKLAS1900004- Approved  
Land Application of Biosolids  
Facility No. S-20616  
OPDES Permit No. OK0029190

Dear Ms. Clark:

The Oklahoma Department of Environmental Quality (DEQ), Water Quality Division (WQD) is enclosing the authorization to operate in compliance with General Permit No. OKLAS1900004, for a one-time application of biosolids from the Norman Utilities Authority (Authority)'s Wastewater Treatment Facility. The Authority's application for this authorization was submitted to DEQ on October 31, 2019. This authorization is approved in accordance with requirements of Oklahoma Administrative Code (OAC) 252:606, as adopted and promulgated pursuant to the Environmental Code, 27 Oklahoma Statute (O.S.) Supp. 2011.

The permit is for a one-time application of biosolids to the following sites:

- Field 1: Part of the SW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 22, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma.
- Field 2: Part of the NE $\frac{1}{4}$  of Section 33, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma
- Field 3: Part of the E $\frac{1}{2}$  of the SW $\frac{1}{4}$  of Section 33, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma

The sludge operation authorized by this permit should be maintained in accordance with the plan approved by DEQ on November 25, 2019. The WQD, DEQ must approve any deviation from the approved plan in writing before changes can be made. I am returning a copy of the signed Permit for your records.

If you have any questions, feel free to contact me at (405) 702-8111.

Sincerely,

Travis Herrian, E.I., District Representative  
Municipal Wastewater Enforcement Section  
Water Quality Division

TH/BFC/MBM/md WM/KS

cc: Steve Hardeman, Wastewater Superintendent, Norman Utilities Authority  
Alexandra Graves, ECLS, Purcell DEQ Office  
Vance Pennington, Regional Manager, ECLS, DEQ



**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
AUTHORIZATION FOR ONE TIME LAND APPLICATION OF SEWAGE SLUDGE  
UNDER GENERAL PERMIT NO. GP-OK65S**

**AUTHORIZATION NO. OKLAS1900004**

In compliance with Oklahoma Statute, 27A § 2-14-305 (2011) as amended, and the Rules of the Department of Environmental Quality (DEQ) promulgated thereunder, and in reliance on the certified statement and representation heretofore made in its application:

Norman Utilities Authority  
P.O. Box 370  
Norman, Oklahoma 73070  
Facility No. S-20616

is hereby authorized for a one-time land application of biosolids from Digester #4 at the Norman Utilities Authority Wastewater Treatment Facility to the following property sites:

- Field 1: Part of the SW¼ of the NW¼ of Section 22, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma.
- Field 2: Part of the NE¼ of Section 33, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma
- Field 3: Part of the E½ of the SW¼ of Section 33, Township 6 North, Range 3 W of the Indian Meridian, McClain County, Oklahoma

Whose site-specific and land application site conditions conform to/with requirements established under 40 Code of Federal Regulations (C.F.R.) Part 503, and in accordance with sewage sludge characteristics, monitoring requirements, and other conditions set forth in General Permit No. LAS1900004, and in Parts I and II, hereof.

Issuance of this Authorization in no way or in any respect affects the Permittee's civil or criminal responsibilities regarding beneficial reuse by land application of sewage sludge, except with respect to the Permittee's legal responsibility under the Environmental Code and Rules promulgated by the Board of Environmental Quality to obtain this permit.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This is to certify that the proposed beneficial reuse by land application of biosolids set forth in this Authorization meets the requirements of DEQ Rules, provided the Permittee does not exceed the loading rates and/or metal concentrations set forth in this Authorization.

Issued this 27<sup>th</sup> day of November, 2019

  
\_\_\_\_\_  
Michael B. Moe, P.E., Manager,  
Wastewater Group  
Water Quality Division

**NOTE:** Expiration date is upon completion of existing biosolids removal from the digester.

**PART I: MONITORING, LOADING RATES, METAL CONCENTRATIONS AND OTHER REQUIREMENTS.**

**SECTION A - MONITORING REQUIREMENTS,**

During the period beginning on the effective date and lasting through the expiration date of this Authorization, the Permittee shall monitor all land application of sewage sludge in accordance with the following schedule.

Pollutants shall be monitored at the frequency schedule(s) shown below:

<b>Amount of Sewage Sludge* (Metric tons/365 day period)</b>	<b>Frequency</b>
0 ≥ Sludge ≤ 290	Once/Year
290 ≥ Sludge ≤ 1,500	Once/Quarter
1,500 ≥ Sludge ≤ 15,000	Once/Two Months
15,000 ≥ Sludge	Once/Month

\*The amount of bulk sewage sludge applied to the land (dry weight basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 C.F.R. § 503.8 (b) (2011).

The required monitoring results shall be retained for the period of the Authorization. The results shall be submitted to the Department as follows:

<b>Sampling Frequency</b>	<b>Reporting deadline(s)</b>
<u>Yearly</u>	
January	February 28
<u>Quarterly</u>	
January, February and March	April 28
April, May and June	July 28
July, August and September	October 28
October, November and December	January 28
<u>Bi-monthly</u>	
January - February	March 28
March - April	May 28
May - June	July 28
July - August	September 28
September - October	November 28
November - December	January 28
Monthly Sampling	Due the 28 <sup>th</sup> of the following month

**SECTION B - LOADING RATES AND METAL CONCENTRATIONS**

In addition to all other requirements and conditions of this General Permit, the Permittee is authorized to land apply sewage sludge only upon the condition that the pollutant ceiling concentration and cumulative pollutant loading rate shall not exceed the listed numerical limits.

Metal concentrations of sewage sludge - Sewage sludge shall not be applied to the land if the concentration of any of the pollutants exceeds the following pollutant concentrations:

**TABLE 1**

<b>Pollutant</b>	<b>Ceiling Concentrations (milligrams per kilogram) *</b>
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

\*Dry Weight Basis

Cumulative Pollutant Loading Rate Limits:

**TABLE 2**

<b>Pollutant</b>	<b>Cumulative Pollutant Loading Rate (kilograms per hectare)</b>
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Molybdenum	Monitor
Nickel	420
Selenium	100
Zinc	2800

All bulk sewage sludge which is applied to agricultural land, forest, or a reclamation site shall be treated by either Class A or Class B pathogen reduction requirements as defined in Part I Section 1.B.5 of the General Permit. The Permittee may land apply sewage sludge only during the effective date of this Authorization and shall immediately cease and desist any and all land application of sewage sludge made pursuant to such Authorization upon its expiration or at any time the required monitoring indicates that the cumulative loading rate is greater than the allowable rate set forth in this Authorization.

## **PART II: SPECIAL AND STANDARD CONDITIONS**

### **SECTION A - SPECIAL CONDITIONS**

1. There shall be no runoff or discharge from the land application site.
2. The commingling of sewage sludge with any other type of sludge or wastewater intended for land application is not allowed under this Authorization. Sludge which results from the commingling of sewage and any other additive shall not be land applied under this Authorization.
3. Special conditions and/or modification for specific land application sites will be included in the Authorization as necessary to protect the waters of the State.

4. When storage of sewage sludge is necessary, prior to land application, the sludge must be stored in a manner to prevent pollution to the waters of the State.
5. The Permittee is hereby given notice that this Authorization is in all respects subject to compliance with any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the State of Oklahoma and the Board of Environmental Quality's Rules. The absence of any express reference within this Authorization to any particular statutory requirement, rule(s) or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s) and standard(s) to this Authorization or the Permittee. By approval, grant and issuance of this Authorization, Permittee acknowledges receipt of true, correct and current copies of the Board of Environmental Quality's rules (as amended) provided, however, that Permittee further acknowledges that any and all amendments thereto shall become part of this Authorization.

#### **SECTION B - STANDARD CONDITIONS**

1. Duty to reapply: If the Permittee wishes to continue an activity regulated by this Authorization after the expiration date of said Authorization, the Permittee must reapply for and obtain a new Authorization. Application for renewal shall be submitted at least ninety (90) days before the expiration date of the original Authorization. The Department may grant permission to submit a renewal application out of time but not later than the original Authorization expiration date.
2. Duty to provide information: The Permittee shall furnish to the Department, within reasonable time, any information which the Department may request to determine whether cause exists for modifying or revoking the Authorization, or to determine compliance with the Authorization.
3. Facilities operation: All facilities and equipment used by the Permittee shall be operated as efficiently as possible and be maintained in good working order so as to achieve compliance with the terms and conditions of this Authorization.
4. Right to entry: The Permittee shall allow any representative of the Department, upon presentation of credentials to a responsible person to:
  - a. Enter upon the Permittee's premises where sewage sludge is being land applied or where any records are required to be kept under the terms and conditions of the permit.
  - b. At reasonable times have access to and copy any records required to be kept under the terms and conditions of this Authorization; to inspect any equipment utilized in the land application of the sewage sludge; to take photographs; and to sample the sewage sludge being land applied or the soil at the land application site.
  - c. Enter upon the Permittee's premises to examine and inspect any facilities and equipment covered under the terms of the permit.
5. Monitoring and reporting: All monitoring and reporting shall be in accordance with Part I, Section A of the Authorization.
6. Noncompliance notification: If, for any reason, the Permittee does not comply with or is unable to comply with any term(s) or condition(s) of the permit, the Permittee shall within five (5) days of becoming aware of such condition, provide the Department with the following information in writing:
  - a. Description of the noncompliance and the cause; and

- b. the period of noncompliance, including exact dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.
7. Sludge application limitations: Sewage sludge shall not be applied to any site which is flooded, frozen, snow covered or within 10 meters of any water of the U.S.

**National Pollutant Discharge Elimination System (NPDES)  
Oklahoma Department of Environmental Quality Discharge Monitoring Report (DMR)**

**PERMITTEE NAME:** Norman Utilities Authority  
**MAILING ADDRESS:** P.O. Box 370  
 Norman, OK 73070  
**FACILITY:** Norman Water Reclamation Facility  
**LOCATION:** 3500 S. Jenkins Ave  
 Norman, OK 73070

**PERMIT NUMBER:** OK0029190  
**MONITORING POINT:** SLDF

**COUNTY:** Cleveland

**Monitoring Period:** 2022-01-01 To: 2022-12-31

**NO DISCHARGE FROM SITE:** ( )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
COMPLIANCE W/PART 258 SLUDGE REQUIREMENT  PARAM CODE: 49030 Stage Code: SL Sludge	Sample Measurement	*****	*****		*****	*****	1	9P Yes=1; No=0	0	Annual	NOT AP
	Permit Requirement	*****	*****		*****	*****	REPORT Value			Annual	NOT AP
<b>Name/Title of Principal Executive Officer Or Authorized Agent</b>		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.						<b>Signature of Principal Executive Officer Or Authorized Agent</b>		<b>Telephone No</b>	
Plant Manag								Steve Hardeman		405-292-9726	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Oklahoma Department of Environmental Conservation Discharge Monitoring Report (DMR)

PERMITTEE NAME: Norman Utilities Authority  
 MAILING ADDRESS: P.O. Box 370  
 Norman, OK 73070  
 FACILITY: Norman Water Reclamation  
 Facility  
 LOCATION: 3500 S. Jenkins Ave  
 Norman, OK 73070

PERMIT NUMBER: OK0029190  
 MONITORING POINT: SLDP

COUNTY: Cleveland

Monitoring Period: 2022-01-01 To: 2022-12-31

NO DISCHARGE FROM SITE: ( )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
TOXICITY CHARACTERISTIC LEACHING PROCED.	Sample Measurement	*****	*****	4A Metric Tons per Year	0	*****	*****	9A pass (0)/fail (1)	1	See Permit	BATCH
PARAM CODE: 46390 Stage Code: SL Sludge	Permit Requirement	*****	*****		REPORT Monthly Average Minimum	*****	*****		*****	See Permit	BATCH
ANN. AMT SLUDGE DISPOSED BY OTHER METHOD	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****	0	0	Annual	ESTIMA
PARAM CODE: 49017 Stage Code: V See Comments	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		*****	Annual	ESTIMA
ANNUAL AMT OF SLUDGE INCINERATED	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****	0	0	Annual	ESTIMA
PARAM CODE: 49018 Stage Code: SL Sludge	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		*****	Annual	ESTIMA
ANNUAL SLUDGE PRODUCTION, TOTAL	Sample Measurement	*****	4450	4A Metric Tons per Year	*****	*****	*****	0	0	Annual	ESTIMA
PARAM CODE: 49019 Stage Code: SL Sludge	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		*****	Annual	ESTIMA
ANNUAL AMOUNT OF SLUDGE LAND APPLIED	Sample Measurement	*****	4315	4A Metric Tons per Year	*****	*****	*****	0	0	Annual	ESTIMA
PARAM CODE: 49020 Stage Code: SL Sludge	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		*****	Annual	ESTIMA
ANNUAL AMT. SLUDGE DISPOSED SURFACE UNIT	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****	0	0	Annual	ESTIMA
PARAM CODE: 49021 Stage Code: SL Sludge	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		*****	Annual	ESTIMA
ANNUAL AMT SLUDGE DISPOSED IN LANDFILL	Sample Measurement	*****	135	4A Metric Tons per Year	*****	*****	*****	0	0	Annual	ESTIMA
PARAM CODE: 49022 Stage Code: SL Sludge	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		*****	Annual	ESTIMA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**Oklahoma Department of Environmental Conservation Discharge Monitoring Report (DMR)**

**PERMITTEE NAME:** Norman Utilities Authority  
**MAILING ADDRESS:** P.O. Box 370  
 Norman, OK 73070  
**FACILITY:** Norman Water Reclamation Facility  
**LOCATION:** 3500 S. Jenkins Ave  
 Norman, OK 73070

**PERMIT NUMBER:** OK0029190  
**MONITORING POINT:** SLDP

**COUNTY:** Cleveland

**Monitoring Period:** 2022-01-01 To: 2022-12-31      **NO DISCHARGE FROM SITE:** ( )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
ANNUAL AMT SLUDGE TRANSPORTED INTERSTATE  PARAM CODE: 49023 Stage Code: SL Sludge	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****			Annual	ESTIMA
Name/Title of Principal Executive Officer Or Authorized Agent		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.					Signature of Principal Executive Officer Or Authorized Agent		Telephone No		
Plant Manag							Steve Hardeman		405-292-9726		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**Oklahoma Department of Environmental Conservation Discharge Monitoring Report (DMR)**

**PERMITTEE NAME:** Norman Utilities Authority  
**MAILING ADDRESS:** P.O. Box 370  
 Norman, OK 73070  
**FACILITY:** Norman Water Reclamation Facility  
**LOCATION:** 3500 S. Jenkins Ave  
 Norman, OK 73070

**PERMIT NUMBER:** OK0029190  
**MONITORING POINT:** SLLA

**COUNTY:** Cleveland

**Monitoring Period:** 2022-01-01 To: 2022-12-31

**NO DISCHARGE FROM SITE:** ( )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
ARSENIC, DRY WEIGHT PARAM CODE: 01003 Stage Code: R See Comments	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	2.97	5.6	69 mg/kg	0	Contingent	BATCH
	Permit Requirement	*****	41 Maximum Value		*****	REPORT Single Sample	75 Maximum			Contingent	BATCH
SELENIUM, DRY WEIGHT PARAM CODE: 01148 Stage Code: R See Comments	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	13.6	21.1	69 mg/kg	0	Contingent	BATCH
	Permit Requirement	*****	100 Maximum Value		*****	REPORT Single Sample	100 Maximum			Contingent	BATCH
POLYCHLORINATED BIPHENYLS (PCBS) PARAM CODE: 39516 Stage Code: SL Sludge	Sample Measurement	*****	*****		*****	*****	< 1	69 mg/kg	0	See Permit	BATCH
	Permit Requirement	*****	*****		*****	*****	49.99 Annual Maximum			See Permit	BATCH
COPPER, DRY WEIGHT PARAM CODE: 46394 Stage Code: R See Comments	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	358	444	69 mg/kg	0	Contingent	BATCH
	Permit Requirement	*****	1500 Maximum Value		*****	REPORT Single Sample	4300 Maximum			Contingent	BATCH
CADMIUM, DRY WEIGHT PARAM CODE: 46395 Stage Code: R See Comments	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	0.8	1.0	69 mg/kg	0	Contingent	BATCH
	Permit Requirement	*****	39 Maximum Value		*****	REPORT Single Sample	85 Maximum			Contingent	BATCH
ANNUAL WHOLE SLUDGE APPLICATION RATE PARAM CODE: 49016 Stage Code: P See Comments	Sample Measurement	*****	0	4F Metric Tons per Hectar per Yr	*****	*****	*****		0	Annual	NOT AP
	Permit Requirement	*****	REPORT Maximum Value		*****	*****	*****			Annual	NOT AP
MOLYBDENUM, DRY WEIGHT PARAM CODE: 78465 Stage Code: R See Comments	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	8.5	11.1	69 mg/kg	0	Contingent	BATCH
	Permit Requirement	*****	REPORT Maximum Value		*****	REPORT Single Sample	75 Maximum			Contingent	BATCH

Name/Title of Principal Executive Officer Or Authorized Agent  Plant Manag	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	Signature of Principal Executive Officer Or Authorized Agent	Telephone No
		Steve Hardeman	405-292-9726

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**PERMIT NUMBER:** OK0029190  
**MONITORING POINT:** SLLA

**COUNTY:** Cleveland

**Monitoring Period:** 2022-01-01 To: 2022-12-31

**NO DISCHARGE FROM SITE:** ( )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
ZINC, DRY WEIGHT	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	650	792	69 mg/lcg	0	Contingent	BATCH
PARAM CODE: 78467 Stage Code: R See Comments	Permit Requirement	*****	2800 Maximum Value		*****	REPORT Single Sample	7500 Maximum			Contingent	BATCH
LEAD, DRY WEIGHT	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	14.9	24.6	69 mg/lcg	0	Contingent	BATCH
PARAM CODE: 78468 Stage Code: R See Comments	Permit Requirement	*****	300 Maximum Value		*****	REPORT Single Sample	840 Maximum			Contingent	BATCH
NICKEL, DRY WEIGHT	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	12.4	17.2	69 mg/lcg	0	Contingent	BATCH
PARAM CODE: 78469 Stage Code: R See Comments	Permit Requirement	*****	420 Maximum Value		*****	REPORT Single Sample	420 Maximum			Contingent	BATCH
MERCURY, DRY WEIGHT	Sample Measurement	*****	0	3K Kilograms per Hectare	*****	0.4	0.5	69 mg/lcg	0	Contingent	BATCH
PARAM CODE: 78471 Stage Code: R See Comments	Permit Requirement	*****	17 Maximum Value		*****	REPORT Single Sample	57 Maximum			Contingent	BATCH
POLLUTANT TABLE FROM 503.13	Sample Measurement	*****	*****		*****	*****	3	3X Table Number (2, 3 or 4)	0	Annual	NOT AP
PARAM CODE: 84367 Stage Code: S See Comments	Permit Requirement	*****	*****		*****	*****	REPORT Value			Annual	NOT AP
LEVEL OF PATHOGEN REQUIREMENTS ACHIEVED	Sample Measurement	*****	*****		*****	*****	2	3W State Class # A=1 B=2 None=0	0	Contingent	BATCH
PARAM CODE: 84368 Stage Code: T See Comments	Permit Requirement	*****	*****		*****	*****	REPORT Maximum Value			Contingent	BATCH
DESCRIPTION OF PATHOGEN OPTION USED	Sample Measurement	*****	*****		*****	*****	1	3Y Alternate Number	0	Contingent	BATCH
PARAM CODE: 84369 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value			Contingent	BATCH

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		Steve Hardeman	405-292-9726

Oklahoma Department of Environmental Quality Discharge Monitoring Report (DMR)

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**MAILING ADDRESS:** P.O. Box 370  
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**LOCATION:** 3500 S. Jenkins Ave  
 Norman, OK 73070

**PERMIT NUMBER:** OK0029190  
**MONITORING POINT:** SLLA

**COUNTY:** Cleveland

**Monitoring Period:** 2022-01-01 To: 2022-12-31  
**NO DISCHARGE FROM SITE:** ( )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
VECTOR ATTRACTION REDUCTION ALTERN USED	Sample Measurement	*****	*****		*****	*****	10	3Y Alternate Number	0	Contingent	BATCH
PARAM CODE: 84370 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value			Contingent	BATCH
<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</small>								<b>Signature of Principal Executive Officer Or Authorized Agent</b> Steve Hardeman		<b>Telephone No</b> 405-292-9726	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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**LOCATION:** 3500 S. Jenkins Ave  
 Norman, OK 73070

**PERMIT NUMBER:** OK0029190  
**MONITORING POINT:** SLSA

**COUNTY:** Cleveland

**Monitoring Period:** 2022-01-01 To: 2022-12-31  
**NO DISCHARGE FROM SITE:** ( X )

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
ARSENIC, DRY WEIGHT	Sample Measurement	*****	*****		*****	*****	*****	69 mg/kg			
PARAM CODE: 01003 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	REPORT Allowed Concentration	REPORT Single Sample			Contingent	BATCH
UNIT W/LINER/LEACHATE COLLECTION SYSTEM	Sample Measurement	*****	*****		*****	*****	*****	9P Yes=1; No=0			
PARAM CODE: 49028 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value			Annual	NOT AP
UNIT BOUNDARY TO PROPERTY LINE DISTANCE	Sample Measurement	*****	*****		*****	*****	*****	46 Meters			
PARAM CODE: 49029 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value			Annual	NOT AP
NICKEL, DRY WEIGHT	Sample Measurement	*****	*****		*****	*****	*****	69 mg/kg			
PARAM CODE: 78469 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	REPORT Allowed Concentration	REPORT Single Sample			Contingent	BATCH
CHROMIUM, DRY WEIGHT	Sample Measurement	*****	*****		*****	*****	*****	69 mg/kg			
PARAM CODE: 78473 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	REPORT Allowed Concentration	REPORT Single Sample			Contingent	BATCH
LEVEL OF PATHOGEN REQUIREMENTS ACHIEVED	Sample Measurement	*****	*****		*****	*****	*****	3W State Class # A=1 B=2 None=0			
PARAM CODE: 84368 Stage Code: T See Comments	Permit Requirement	*****	*****		*****	*****	REPORT Single Sample			Contingent	BATCH
DESCRIPTION OF PATHOGEN OPTION USED	Sample Measurement	*****	*****		*****	*****	*****	3Y Alternate Number			
PARAM CODE: 84369 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value			Contingent	BATCH

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**COUNTY:** Cleveland

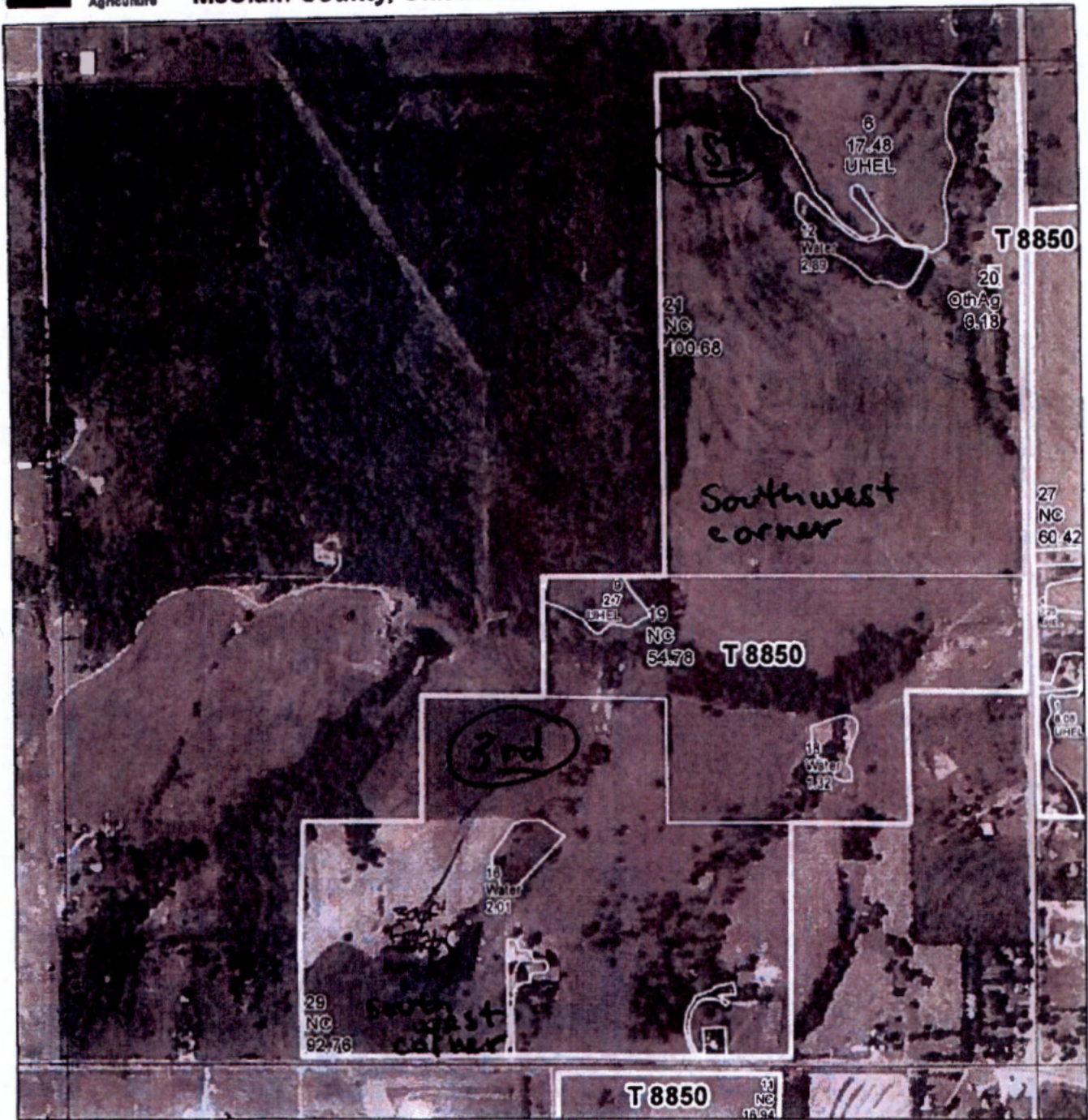
**Monitoring Period:** 2022-01-01 To: 2022-12-31

**NO DISCHARGE FROM SITE:** (X)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
VECTOR ATTRACTION REDUCTION ALTERN USED  PARAM CODE: 84370 Stage Code: SL Sludge	Sample Measurement	*****	*****		*****	*****	*****	3Y Alternate Number			
	Permit Requirement	*****	*****		*****	*****	REPORT Value			Contingent	BATCH

<b>Name/Title of Principal Executive Officer Or Authorized Agent</b>	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	<b>Signature of Principal Executive Officer Or Authorized Agent</b>	<b>Telephone No</b>
Plant Manag		Steve Hardeman	405-292-9726

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



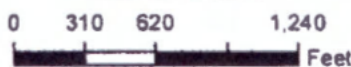
2019 Program Year

Map Created September 10, 2018

Farm 4218



Not to Scale



- Wetlands  
Wetland Determination identifiers
- Restricted Use
  - Limited Restrictions
  - Exempt from Conservation Compliance Provisions

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data as is and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Fields

A2

A1

A3

Google Earth

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2000 ft



Fields: A1

A1

Google Earth

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1000 ft



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Fields: A2

A2

Google Earth

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1000 ft



Fields: A3

A3

Google Earth

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1000 ft



0000-02-08N-03W-0-002-00

**TERESA JONES**

**MCCLAIN COUNTY TREASURER**

121 N. 2ND ST 18

PURCELL, OKLAHOMA 73080-4249

TELEPHONE: (405) 527-3261

**First or Full Payment**

So

Real Estate

21514 STATE HWY 24 (94.06 Acres)

RURAL

NW SW & SW NW & S NW NW LESS 1 AC LESS 2.83 LESS 2.11

EASEMENT GRANTED TO PARCEL #18 2485792

Owner 3336

Enter Address Changes Here

Return this stub with  
FIRST HALF or FULL  
payment before  
JANUARY 1st

www

Rur10N018 11:15:54

TAX becomes DELINQUENT JANUARY 1st unless paid in Full or Half. Late PENALTY is 1.5% per mor

0000-03-08N-03W-0-013-00

**TERESA JONES**

**MCCLAIN COUNTY TREASURER**

121 N. 2ND #318

PURCELL, OKLAHOMA 73080-4249

TELEPHONE: (405) 527-3261

**First or Full Payment**

Real Estate

(97.73 Acres)

RURAL

SW SE & SW NW SE & SE SW & SE NE SW  
LESS 2.27ACS MOL

Owner 3365

Enter Address Changes Here

Return this stub with  
FIRST HALF or FULL  
payment before  
JANUARY 1st

www

Rur10N018 11:15:54

TAX becomes DELINQUENT JANUARY 1st unless paid in Full or Half. Late PENALTY is 1.5% p



October 09, 2023

Client: Norman PWA

3500 Jenkins Ave

Norman, Ok 73070



National Environmental Laboratory Accreditation Program  
ODEQ TNI Certified

Requested By: -

Sample Project Name:

Date Samples Received: September 21, 2023 Time: 16:35 sample temp upon arrival at lab = 4.30°C - On Ice

Matrix: Soil

Lab Log Numbers: **FI21049-01** **FI21049-02** **FI21049-03**

Work Order: FI21049

Report # FI21049-1009230817

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 VI. Standard Methods 2005 (21st Edition), Standard Methods 2011 (22nd Edition), Standard Methods 2017 (23rd 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 notes, Quality Control section, or Method/Parameter section of the report.

- No cert. = Laboratory does not carry certification for this method/analysis.
- Non-TNI = Laboratory has state certification but method does not fall under TNI certification.

This report is to only be replicated in its entirety.

Revised or Amended reports supersede all previous reports.

Accurate Environmental sampling protocol was followed for any sampling performed by Accurate Field Services.

Field accreditation certification only applies to wastewater analysis. Field analysis is performed based on lab accreditation for appropriate drinking water methods until field certification program expands to include drinking water analysis.

Sample: 33865-01 Aiken's #1

Location Code:

PWSID#:

Collection Type: Composite

Start Date: 9/20/23 9:15

End Date: 9/20/23 9:45

Lab Log# FI21049-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Ammonia, Total EPA 350.1	Ammonia as N	213 mg/kg dry		19.7	09/22/23 12:04 AJH	09/25/23 17:14 KMK
Phosphorus (P), Total - EPA 365.1	Phosphorus	102 mg/kg dry		11.1	09/30/23 10:42 AJH	10/02/23 15:26 KMK
Cyanide, Total EPA 335.4	Cyanide	BPQL mg/kg dry		0.577	09/29/23 11:39 AJH	09/30/23 14:07 KMK
Nitrate EPA 9056A	Nitrate as N	10.5 mg/kg dry		5.00	09/26/23 14:40 MRM	09/26/23 18:58 MRM
Solids, Percent SM2540 B	Percent Solids	92.1 %		0.100	09/22/23 17:12 AJH	09/23/23 09:02 AJH
Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	1140 mg/kg dry		2.00	09/27/23 09:46 RND	09/28/23 11:01 RND
Arsenic (As) EPA 6020A	Arsenic	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:44 LF
Cadmium (Cd) EPA 6020A	Cadmium	BPQL mg/kg dry		1.00	09/26/23 10:30 SAK	09/26/23 20:44 LF
Chromium (Cr) EPA 6020A	Chromium	22.8 mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 20:44 LF
Copper (Cu) EPA 6020A	Copper	BPQL mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 20:44 LF
Lead (Pb) EPA 6020A	Lead	9.88 mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:44 LF
Mercury (Hg) EPA 7471A	Mercury	21.6 ug/kg dry		10.0	09/26/23 08:15 SAK	09/26/23 11:12 SAK
Molybdenum (Mo) EPA 6020A	Molybdenum	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:44 LF
Nickel (Ni) EPA 6020A	Nickel	11.2 mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 20:44 LF
Potassium (K) EPA 6010B	Potassium	5030 mg/kg dry		125	09/26/23 10:30 SAK	09/26/23 15:32 CJS
Selenium (Se) EPA 6020A	Selenium	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:44 LF
Silver (Ag) EPA 6020A	Silver	BPQL mg/kg dry		1.00	09/26/23 10:30 SAK	09/26/23 20:44 LF
Zinc (Zn) EPA 6020A	Zinc	30.9 mg/kg dry		15.0	09/26/23 10:30 SAK	09/26/23 20:44 LF

Sample: 33865-03 Aiken's #2

Location Code:

PWSID#:

Collection Type: Composite

Start Date: 9/20/23 9:50

End Date: 9/20/23 10:10

Lab Log# FI21049-02

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Ammonia, Total EPA 350.1	Ammonia as N	67.1 mg/kg dry		9.94	09/22/23 12:04 AJH	09/25/23 15:50 KMK
Phosphorus (P), Total - EPA 365.1	Phosphorus	92.2 mg/kg dry		11.4	09/30/23 10:42 AJH	10/02/23 15:27 KMK
Cyanide, Total EPA 335.4	Cyanide	BPQL mg/kg dry		0.412	09/29/23 11:39 AJH	09/30/23 14:08 KMK
Nitrate EPA 9056A	Nitrate as N	BPQL mg/kg dry		5.00	09/26/23 14:40 MRM	09/26/23 20:08 MRM
Solids, Percent SM2540 B	Percent Solids	90.8 %		0.100	09/22/23 17:12 AJH	09/23/23 09:02 AJH
Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	838 mg/kg dry		2.00	09/27/23 09:46 RND	09/28/23 11:01 RND
Arsenic (As) EPA 6020A	Arsenic	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:50 LF
Cadmium (Cd) EPA 6020A	Cadmium	BPQL mg/kg dry		1.00	09/26/23 10:30 SAK	09/26/23 20:50 LF
Chromium (Cr) EPA 6020A	Chromium	19.4 mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 20:50 LF
Copper (Cu) EPA 6020A	Copper	BPQL mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 20:50 LF
Lead (Pb) EPA 6020A	Lead	9.02 mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:50 LF
Mercury (Hg) EPA 7471A	Mercury	13.6 ug/kg dry		10.0	09/26/23 08:15 SAK	09/26/23 11:15 SAK
Molybdenum (Mo) EPA 6020A	Molybdenum	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:50 LF

Sample:

Location Code:

PWSID#:

Collection Type: Composite

Start Date: 9/20/23 9:50

End Date: 9/20/23 10:10

Lab Log# FI21049-02

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Nickel (Ni) EPA 6020A	Nickel	11.0 mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 20:50 LF
Potassium (K) EPA 6010B	Potassium	5290 mg/kg dry		125	09/26/23 10:30 SAK	09/26/23 15:36 CJS
Selenium (Se) EPA 6020A	Selenium	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 20:50 LF
Silver (Ag) EPA 6020A	Silver	BPQL mg/kg dry		1.00	09/26/23 10:30 SAK	09/26/23 20:50 LF
Zinc (Zn) EPA 6020A	Zinc	22.9 mg/kg dry		15.0	09/26/23 10:30 SAK	09/26/23 20:50 LF

Sample: 33865-05 Aiken's #3

Location Code:

PWSID#:

Collection Type: Composite

Start Date: 9/20/23 10:15

End Date: 9/20/23 10:45

Lab Log# FI21049-03

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Ammonia, Total EPA 350.1	Ammonia as N	51.0 mg/kg dry		10.9	09/22/23 12:04 AJH	09/25/23 15:51 KMK
Phosphorus (P), Total - EPA 365.1	Phosphorus	52.7 mg/kg dry		0.994	09/30/23 10:42 AJH	10/02/23 16:07 KMK
Cyanide, Total EPA 335.4	Cyanide	BPQL mg/kg dry		0.350	09/29/23 11:39 AJH	09/30/23 14:09 KMK
Nitrate EPA 9056A	Nitrate as N	BPQL mg/kg dry		5.00	09/26/23 14:40 MRM	09/26/23 20:32 MRM
Solids, Percent SM2540 B	Percent Solids	92.7 %		0.100	09/22/23 17:12 AJH	09/23/23 09:02 AJH
Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	723 mg/kg dry		2.00	09/27/23 09:46 RND	09/28/23 11:01 RND
Arsenic (As) EPA 6020A	Arsenic	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 21:15 LF
Cadmium (Cd) EPA 6020A	Cadmium	BPQL mg/kg dry		1.00	09/26/23 10:30 SAK	09/26/23 21:15 LF
Chromium (Cr) EPA 6020A	Chromium	14.2 mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 21:15 LF
Copper (Cu) EPA 6020A	Copper	BPQL mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 21:15 LF
Lead (Pb) EPA 6020A	Lead	7.98 mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 21:15 LF
Mercury (Hg) EPA 7471A	Mercury	23.4 ug/kg dry		10.0	09/26/23 08:15 SAK	09/26/23 11:17 SAK
Molybdenum (Mo) EPA 6020A	Molybdenum	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 21:15 LF
Nickel (Ni) EPA 6020A	Nickel	BPQL mg/kg dry		10.0	09/26/23 10:30 SAK	09/26/23 21:15 LF
Potassium (K) EPA 6010B	Potassium	3740 mg/kg dry		125	09/26/23 10:30 SAK	09/26/23 15:40 CJS
Selenium (Se) EPA 6020A	Selenium	BPQL mg/kg dry		5.00	09/26/23 10:30 SAK	09/26/23 21:15 LF
Silver (Ag) EPA 6020A	Silver	BPQL mg/kg dry		1.00	09/26/23 10:30 SAK	09/26/23 21:15 LF
Zinc (Zn) EPA 6020A	Zinc	19.0 mg/kg dry		15.0	09/26/23 10:30 SAK	09/26/23 21:15 LF

Notes and Definitions

#58 Analyte recoveries are outside of acceptance limits.

#52 Analyte recoveries are outside of acceptance limits for the matrix spike sample. This failure 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
23I2256-BLK1	Ammonia, Total EPA 350.1	Ammonia as N	BPQL mg/kg wet	1.00	
23I3002-BLK1	Phosphorus (P), Total - EPA 365.1	Phosphorus	BPQL mg/kg wet	2.50	
23I2945-BLK1	Cyanide, Total EPA 335.4	Cyanide	BPQL mg/kg wet	0.500	
23I2658-BLK1	Nitrate EPA 9056A	Nitrate as N	BPQL mg/kg wet	5.00	
23I2729-BLK1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	BPQL mg/kg wet	2.00	
23I2629-BLK1	Arsenic (As) EPA 6020A	Arsenic	BPQL mg/kg dry	5.00	
23I2629-BLK1	Cadmium (Cd) EPA 6020A	Cadmium	BPQL mg/kg dry	1.00	
23I2629-BLK1	Chromium (Cr) EPA 6020A	Chromium	BPQL mg/kg dry	10.0	
23I2629-BLK1	Copper (Cu) EPA 6020A	Copper	BPQL mg/kg dry	10.0	
23I2629-BLK1	Lead (Pb) EPA 6020A	Lead	BPQL mg/kg dry	5.00	
23I2614-BLK1	Mercury (Hg) EPA 7471A	Mercury	BPQL ug/kg wet	10.0	
23I2629-BLK1	Molybdenum (Mo) EPA 6020A	Molybdenum	BPQL mg/kg dry	5.00	
23I2629-BLK1	Nickel (Ni) EPA 6020A	Nickel	BPQL mg/kg dry	10.0	
23I2640-BLK1	Potassium (K) EPA 6010B	Potassium	BPQL mg/kg dry	125	
23I2629-BLK1	Selenium (Se) EPA 6020A	Selenium	BPQL mg/kg dry	5.00	
23I2629-BLK1	Silver (Ag) EPA 6020A	Silver	BPQL mg/kg dry	1.00	
23I2629-BLK1	Zinc (Zn) EPA 6020A	Zinc	BPQL mg/kg dry	15.0	

## Duplicate Sample Data

QC Lab #	Test Group	Test Name	Source	Dup Result	Samp Result	% RPD	RPD Limit	Flags
23I3002-DUP1	Phosphorus (P), Total - EPA 365.1	Phosphorus	FI21049-03	57.9	52.7	9	20	
23I2658-DUP1	Nitrate EPA 9056A	Nitrate as N	FI21049-01	10.4	10.5	1	20	
23I2278-DUP2	Solids, Percent SM2540 B	Percent Solids	FI21049-01	88.5	92.1	4	10	

# Quality Control Data

## Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
I2256-BS1	Ammonia, Total EPA 350.1	Ammonia as N	9.95	10.00	mg/kg wet	100	90 - 110	
23I2256-BS2	Ammonia, Total EPA 350.1	Ammonia as N	8.79	10.00	mg/kg wet	88	90 - 110	#58
23I2658-BS1	Nitrate EPA 9056A	Nitrate as N	98.4	100.0	mg/kg wet	98	90 - 110	
23I2729-BS1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	19.6	20.00	mg/kg wet	98	90 - 110	
23I2729-BS2	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	39.5	40.00	mg/kg wet	99	90 - 110	
23I2945-BS1	Cyanide, Total EPA 335.4	Cyanide	5.15	5.000	mg/kg wet	103	80 - 120	
23I2945-BS2	Cyanide, Total EPA 335.4	Cyanide	5.05	5.000	mg/kg wet	101	80 - 120	
23I3002-BS1	Phosphorus (P), Total - EPA 365.1	Phosphorus	48.7	50.00	mg/kg wet	97	90 - 110	
23I3002-BS2	Phosphorus (P), Total - EPA 365.1	Phosphorus	47.0	50.00	mg/kg wet	94	90 - 110	
23I2614-BS1	Mercury (Hg) EPA 7471A	Mercury	416	416.7	ug/kg wet	100	85 - 115	
23I2629-BS1	Arsenic (As) EPA 6020A	Arsenic	494	487.0	mg/kg dry	101	85 - 115	
23I2629-BS1	Cadmium (Cd) EPA 6020A	Cadmium	478	487.0	mg/kg dry	98	85 - 115	
23I2629-BS1	Chromium (Cr) EPA 6020A	Chromium	486	487.0	mg/kg dry	100	85 - 115	
23I2629-BS1	Copper (Cu) EPA 6020A	Copper	477	487.0	mg/kg dry	98	85 - 115	
23I2629-BS1	Lead (Pb) EPA 6020A	Lead	485	487.0	mg/kg dry	100	85 - 115	
23I2629-BS1	Molybdenum (Mo) EPA 6020A	Molybdenum	472	487.0	mg/kg dry	97	85 - 115	
23I2629-BS1	Nickel (Ni) EPA 6020A	Nickel	474	487.0	mg/kg dry	97	85 - 115	
23I2629-BS1	Selenium (Se) EPA 6020A	Selenium	476	487.0	mg/kg dry	98	85 - 115	
23I2629-BS1	Silver (Ag) EPA 6020A	Silver	184	194.8	mg/kg dry	94	85 - 115	
23I2629-BS1	Zinc (Zn) EPA 6020A	Zinc	489	487.0	mg/kg dry	100	85 - 115	
23I2640-BS1	Potassium (K) EPA 6010B	Potassium	477	487.0	mg/kg dry	98	85 - 115	

## Matrix Spike Data

QC Lab #	Test Group	Test Name	Source Sample	Sample Result	Units	Spike Result	Spike Level	% Rec.	Acceptance Limits	Flags
23I2256-MS1	Ammonia, Total EPA 350.1	Ammonia as N	F121049-03	51.0	mg/kg dry	149	106.2	92	90 - 110	
23I3002-MS1	Phosphorus (P), Total - EPA 365.1	Phosphorus	F121049-03	52.7	mg/kg dry	76.9	28.07	86	90 - 110	#52
23I2945-MS1	Cyanide, Total EPA 335.4	Cyanide	F121049-03	BPQL	mg/kg dry	3.81	3.924	97	80 - 120	
23I2658-MS1	Nitrate EPA 9056A	Nitrate as N	F121049-01	10.5	mg/kg dry	46.7	36.32	100	80 - 120	
23I2729-MS1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	F121049-01	1140	mg/kg dry	3080	2169	89	80 - 120	
23I2629-MS1	Arsenic (As) EPA 6020A	Arsenic	F121049-03	3.78	mg/kg dry	475	494.9	95	85 - 115	
23I2629-MS1	Cadmium (Cd) EPA 6020A	Cadmium	F121049-03	BPQL	mg/kg dry	396	494.9	80	85 - 115	#52
23I2629-MS1	Chromium (Cr) EPA 6020A	Chromium	F121049-03	14.2	mg/kg dry	461	494.9	90	85 - 115	
23I2629-MS1	Copper (Cu) EPA 6020A	Copper	F121049-03	4.51	mg/kg dry	452	494.9	90	85 - 115	
23I2629-MS1	Lead (Pb) EPA 6020A	Lead	F121049-03	7.98	mg/kg dry	484	494.9	96	85 - 115	
23I2614-MS1	Mercury (Hg) EPA 7471A	Mercury	F121049-03	23.4	ug/kg dry	445	449.0	94	75 - 125	
23I2629-MS1	Molybdenum (Mo) EPA 6020A	Molybdenum	F121049-03	BPQL	mg/kg dry	402	494.9	81	85 - 115	#52
23I2629-MS1	Nickel (Ni) EPA 6020A	Nickel	F121049-03	7.25	mg/kg dry	457	494.9	91	85 - 115	
23I2640-MS1	Potassium (K) EPA 6010B	Potassium	F121049-03	3740	mg/kg dry	4770	494.9	207	85 - 115	#52
23I2629-MS1	Selenium (Se) EPA 6020A	Selenium	F121049-03	2.12	mg/kg dry	460	494.9	93	85 - 115	
23I2629-MS1	Silver (Ag) EPA 6020A	Silver	F121049-03	BPQL	mg/kg dry	186	197.9	94	85 - 115	
23I2629-MS1	Zinc (Zn) EPA 6020A	Zinc	F121049-03	19.0	mg/kg dry	495	494.9	96	85 - 115	

# Quality Control Data

## Matrix Spike Duplicate Data

QC Lab #	Test Group	Test Name	Sample Result	Spike Result	Spike Level	Units	% Rec.	Rec. Limits	% RPD	RPD Limit	Flags
2312256-MSD1	Ammonia, Total EPA 350.1	Ammonia as N	51.0	134	108.0	ng/kg dr	77	90-110	10	20	#52
2312945-MSD1	Cyanide, Total EPA 335.4	Cyanide	BPQL	3.81	3.957	ng/kg dr	96	80-120	0.1	20	
2312729-MSD1	Kjeldahl Nitrogen SM4500Norg C	Total Kjeldahl Nitrogen	1140	3220	2415	ng/kg dr	86	80-120	5	20	
2312629-MSD1	Arsenic (As) EPA 6020A	Arsenic	3.78	486	499.2	ng/kg dr	97	85-115	2	20	
2312629-MSD1	Cadmium (Cd) EPA 6020A	Cadmium	BPQL	405	499.2	ng/kg dr	81	85-115	2	20	#52
2312629-MSD1	Chromium (Cr) EPA 6020A	Chromium	14.2	464	499.2	ng/kg dr	90	85-115	0.5	20	
2312629-MSD1	Copper (Cu) EPA 6020A	Copper	4.51	457	499.2	ng/kg dr	91	85-115	1	20	
2312629-MSD1	Lead (Pb) EPA 6020A	Lead	7.98	496	499.2	ng/kg dr	98	85-115	2	20	
2312614-MSD1	Mercury (Hg) EPA 7471A	Mercury	23.4	439	445.8	ug/kg dry	93	75-125	1	20	
2312629-MSD1	Molybdenum (Mo) EPA 6020A	Molybdenum	BPQL	411	499.2	ng/kg dr	82	85-115	2	20	#52
2312629-MSD1	Nickel (Ni) EPA 6020A	Nickel	7.25	462	499.2	ng/kg dr	91	85-115	1	20	
2312640-MSD1	Potassium (K) EPA 6010B	Potassium	3740	4870	499.2	ng/kg dr	226	85-115	2	20	#52
2312629-MSD1	Selenium (Se) EPA 6020A	Selenium	2.12	469	499.2	ng/kg dr	93	85-115	2	20	
2312629-MSD1	Silver (Ag) EPA 6020A	Silver	BPQL	185	199.7	ng/kg dr	93	85-115	0.4	20	
2312629-MSD1	Zinc (Zn) EPA 6020A	Zinc	19.0	496	499.2	ng/kg dr	96	85-115	0.2	20	

\* Complete Entire COC to be in Compliance\*

Accurate Copy

# Chain of Custody

RUSH Due Date



Client Name- Norman WRF  
Project Name-

Sample Preserv. & Container →	<u>Ice</u> <u>400</u> <u>Wm</u> <u>2</u> <u>02</u> <u>1</u>	<u>WRF</u> <u>9/22/23</u>							
Analysis Requested →									
# of Container ↓	<u>2</u>	<u>2</u>							

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 ↓
						Time	pH	Temp	
<u>FI21049</u>									
<u>-01</u>	<u>9/22/23</u>	<u>0915-0945</u>	<u>So.L</u>	<u>comp.</u>	<u>33805-01 - Aiken #1</u>				<u>2</u>
<u>-02</u>	<u>9/22/23</u>	<u>0950-1010</u>	<u>~</u>	<u>~</u>	<u>33805-03 - Aiken #2</u>				<u>2</u>
<u>-03</u>	<u>9/22/23</u>	<u>1015-1045</u>	<u>~</u>	<u>~</u>	<u>33805-05 - Aiken #3</u>				<u>2</u>

On-Site Info: Raw Alkalinity (TOC Raw)= \_\_\_\_\_ mg/L Turbidity (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: -- All samples are scheduled to be disposed of in 4 weeks of receipt at Accurate.--

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: 9/22/23 @ 1130

Sampled By: [Signature] Company: WRF Sample Method: Comp.

Relinquished By: [Signature] Date/Time: 9/22/23 @ 0800 Received By: [Signature] Date/Time: 9/22/23 @ 1120

Relinquished to Lab By: [Signature] Date/Time: 9/22/23 1635 Received at Lab By: K Franklin Rec'd °C: 4.3 Date/Time: 9/22/23 1635

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

Mail Report: Address: Phone #: Email: Mail Invoice: Address: Phone #: Bid #: PO #: Fax #:

<a href="http://www.accuratelabs.com">www.accuratelabs.com</a> (800) 516-5227	505 South Lowry Street Phone: (405) 372-5300 Stillwater, OK 74074 Fax: (405) 372-5396	3910 East 51 <sup>st</sup> Street Phone: (918) 663-5400 Tulsa, OK 74135 Fax: (918) 663-6300	12036 N. Pennsylvania Phone: (405) 751-3132 Oklahoma City, OK 73120 Fax: (405) 751-3108
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Failure to complete this Chain of Custody form correctly may delay turnaround time of analytical reporting.

SLUDGE MANAGEMENT PLAN  
NORMAN WATER RECLAMATION FACILITY

PLAN I.D. NUMBER SMP3514006

LANDOWNER CONSENT FOR BIO-SOLID APPLICATION

DATE 9.20, 2023

OWNER NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
\_\_\_\_\_

(LESSEE) OPERATOR NAME \_\_\_\_\_  
FARM LOCATION(S) McClain County, OK 3 T6N-R3W  
(FINDING AND LEGAL) 35° 01' 26.77" N 97° 29' 35.12" W  
\_\_\_\_\_

I understand that by signing this application I consent and agree to maintain the application site in accordance with the approved sludge management plan including:

- (a) Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
- (b) Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil.
- (c) Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil.
- (d) Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge.
- (e) Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.

- (f) Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested part turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
- (g) Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge.
- (h) Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
- (i) Bulk sewage sludge shall not be applied to the land if it is likely to adversely affect a threatened or endangered species listed under section 4 of the Endangered Species Act or its designated critical habitat.
- (j) Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters of the United States, as defined in 40 CFR 122.2, except as provided in a permit issued pursuant to section 402 or 404 of the CWA.
- (k) Bulk sewage sludge shall not be applied to agricultural land, forest, or a reclamation site that is 10 meters or less from waters of the United States, as defined in 40 CFR 122.2 unless otherwise specified by the permitting authority.
- (l) Bulk sewage sludge shall be applied to agricultural land, forest, a public contact site, or a reclamation site at a whole sludge application rate that is equal to or less than the agronomic rate for the bulk sewage sludge, unless, in the case of a reclamation site, otherwise specified by the permitting authority.
- (m) Beneficial use. No person may apply sludge or wastewater to the land except for the purpose of beneficial use unless he shows to the satisfaction of the Department that the land application will not pollute or tend to pollute the environment, pose a risk to human health, or cause any deterioration of the site, land surfaces, soils, surface waters or ground water.
- (n) Prevention of deterioration. Land application shall not cause deterioration of the site.
- (o) Public water supply. Sludge or wastewater shall not be land applied within 250 feet of a well used for a potable water supply or a public water supply surface water intake unless prior written approval is granted by the Department.
- (p) Separation. Sludge or wastewater shall not be applied within two (2) feet of the highest measured seasonal water level on a site, or within one hundred (100) feet of a stream or body of water or take other actions approved by the Department as

necessary to prevent runoff to waters of the State.

- q) **Manner.** Sludge or wastewater shall be land applied in a manner to prevent surface runoff and to control objectionable odors. Sludge applied to the surface of the land shall be incorporated into the soil before the end of each working day. Materials removed from impoundments that are recovered as product are exempt from this requirement.
- r) **Storage time.** Except for industrial sludge and wastewater contained in surface impoundments or facilities (excluding transfer stations) permitted by the Department, no land applier shall store sludge or wastewater collected, transported, or transferred for land application or other purpose subject to the provisions of this Agreement for more than six (6) months without the Department's written approval and in no case for more than one (1) year. Materials removed from impoundments that are recovered as product are exempt from this requirement.
- s) **Discharges and runoff prohibited.** Sludge or wastewater shall not be land applied in wetlands or any other waters of the state nor allowed to enter such as surface runoff or by other means. All discharges to waters of the state are prohibited unless a permit has been obtained pursuant to OAC 252:605 which specifically authorizes such discharge.
- t) **Weather.** Land application shall not occur during periods of precipitation or while the soil is saturated and absorption is hindered.
- u) **Endangered or threatened species.** Land application shall not occur if it is likely to adversely affect a threatened or endangered species listed under section 4 of the federal Endangered Species Act, 16 U.S.C. 1533(c), or the critical habitat of such species.
- v) **Topography.** A land application site shall have minimal slope or be contoured to prevent ponding and soil erosion. No application shall occur on land having a slope exceeding five percent (5%) unless erosion and runoff control provisions are implemented, except that land having a slope of ten percent (10%) or less may be utilized for land application of dewatered or dried sludge. Land having a slope greater than ten percent (10%) may be utilized for land application only with Department approval. Land application for the purpose of dust suppression on roadways shall be exempt from this requirement if adequate measures are taken to collect any runoff that would result.
- w) **Off-site hauling.** An owner or operator shall take such measures as necessary to prevent sludge and mud from a land application site from being carried off-site. If necessary, sludge or wastewater hauling vehicles shall be cleaned prior to leaving the site with provisions for disposition of rinse water.

- (x) The Department may impose requirements for the use or disposal of sludge or wastewater in addition to or more stringent than the requirements of this Agreement when necessary to protect public health and the environment. Nothing in this Agreement precludes a local government entity from imposing requirements for the use or disposal of sludge or wastewater, in addition to, or more stringent than the requirements in this Agreement.

Owner Signature: \_\_\_\_\_ Date: 9-20-2023





## CITY OF NORMAN, OK STAFF REPORT

**MEETING DATE:** 10/24/2023

**REQUESTER:** Nathan Madenwald, Utilities Engineer

**PRESENTER:** Nathan Madenwald, Utilities Engineer

**ITEM TITLE:** CONSIDERATION OF APPROVAL, ACCEPTANCE, REJECTION, AMENDMENT, AND/OR POSTPONEMENT OF AWARDED BID B-2324-12 AND CONTRACT K-2324-80: BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY AND INDUSTRIAL HYDRO SERVICES, LLC, TO COMPLETE DIGESTER #2 BIOSOLIDS REMOVAL AND DISPOSAL AT THE NORMAN UTILITIES AUTHORITY WATER RECLAMATION FACILITY AT A RATE OF \$0.235 PER GALLON AND BUDGET APPROPRIATION AS OUTLINED IN THE STAFF REPORT.

Approved  
MP/SH 9/10

### BACKGROUND:

The Water Reclamation Facility (NWRf) is currently required by Federal and State law to remove and properly dispose of treated bio-solids. Frequent regular removal of these solids from the treatment process is essential for maintaining treatment efficiency. In order to keep the anaerobic digesters operating in an efficient manner, inspection and cleaning should occur every five (5) to ten (10) years. Contract services are then necessary because of the expertise and specialized equipment needed for the project. The project will remove approximately 800,000 gallons of bio-solids from anaerobic digester #2.

### DISCUSSION:

Bids for this contract were advertised within the Norman Transcript on August 11 and 18, 2023. Five (5) bids for the project (as shown on the attached Bid Tabulation) were received on August 31, 2023. Industrial Hydro Services (IHS) of Maysville, Oklahoma submitted the lowest and best bid of \$0.235 per gallon. At approximate volume of 800,000 gallons, the estimated contract amount is \$188,000.00. Funding for Contract K-2324-80 is as follows: 1. Water Reclamation Fund Bio-solids Removal (Business Services-Sludge Removal, account 32955145-44121) - \$126,763.00; and 2. Appropriation from Water Reclamation Fund Balance (32-29000) - \$80,000. This proposed funding of \$206,763.00 should be sufficient to complete this work. Work will be coordinated with facility operations and is planned to be completed by early 2023.

**RECOMMENDATION NO. 1:**

Staff recommends awarding the bid B-2324-12 for biosolids removal and disposal services for Digester #2 and the Water Reclamation Facility to Industrial Hydro Services, LLC as the lowest and best bid.

**RECOMMENDATION NO. 2:**

Staff recommends approval of Contract K-2324-80 between the Norman Utilities Authority and Industrial Hydro Services, LLC, to complete biosolids removal and disposal services for Digester #2 and the Water Reclamation Facility at a rate of \$0.235 per gallon and Water Reclamation Fund Balance budget appropriation.

**RECOMMENDATION NO. 3:**

Staff recommends appropriation of \$80,000 from Water Reclamation Fund Balance (account 32-29000) to Business Services-Sludge Removal (account 32955145-44121).

CONTRACT

THIS CONTRACT made and entered into this 24<sup>th</sup> day of October, 2023, by and between NORMAN UTILITIES AUTHORITY, a municipal corporation, hereinafter as the AUTHORITY, and Industrial Hydro Services, hereinafter as the CONTRACTOR.

WITNESSETH

Whereas, the AUTHORITY has caused to be prepared in accordance with law, specifications, and other bidding documents for the work hereinafter described and has approved and adopted all said bidding documents, and has caused Solicitation for Bids to be given and advertised as required by law, and has received sealed proposals for the furnishing of all labor and materials for the following project:

**REMOVAL AND DISPOSAL OF BIOSOLIDS FROM DIGESTER**

Removal and land application of approximately 800,000 gallons of liquid class "B" biosolids from the Anaerobic Digester#2 as outlined and set out in the bidding documents and specifications which are incorporated herein by reference and made a part hereof; and

Whereas, the Contractor in response to said Solicitation for Bids (Bid #2324-12), has submitted to the AUTHORITY in the manner and at the time specified, a sealed proposal in accordance with the terms of said bidding documents to specifications; and

Whereas, the AUTHORITY, in the manner provided by law, has, publicly opened, examined, and canvassed the proposals submitted and has determined and declared the above-named Contractor to be the lowest and best bidder on the above-named project, and has duly awarded this contract to said Contractor for the sum named in the proposal, to wit: Industrial Hydro Services (IHS) for winning bid of \$0.235 per gallon. One payment shall be made upon completion of the project

NOW, THEREFORE, for and in consideration of the mutual agreement and covenants herein contained, the parties to this Contract have agreed, and hereby agree, as follow:

1. The Contractor shall, in a good and first-class, workmanlike manner at his own cost and expense, furnish all labor, materials, tools, and equipment required to perform and complete said work in strict accordance with the bid proposal and specifications and this Contract and the following Contract Documents: Notice to Bidders, Instruction to Bidders, the Contractor's Bid or Proposal, Specifications, Provisions, and Bonds.
2. The AUTHORITY shall make payment to the contractor in the following manner: Upon completion and acceptance by the Norman Utilities Authority the Contractor shall be paid in full. The City shall complete payment to the CONTRACTOR within 30 days of invoice receipt.

- 3. Unless written notice of termination or renegotiations of any or all portions of this contract, including unit cost, is given by the NUA or CONTRACTOR at least (60) sixty days prior to the expiration date of this contract, the contract shall be renewed and provisions thereof shall continue in full force and effect for a (12) twelve month period, with provisions for automatic renewal to apply to each successive (12) twelve month period thereafter.
- 4. Materials and/or services purchased by CONTRACTOR in connection with the City project shall be subject to the payment of City sales tax.

IN WITNESS WHEREOF, the said parties of the First and Second Part have hereunto set their hands and seals respectively the 9<sup>th</sup> day of October, 2023, and the 9<sup>th</sup> day of October, 2023

**INDUSTRIAL HYDRO SERVICES**

(Corporate Seal)

RENE MALTAIS - IHS  
Principal

ATTEST:

Signed: Rene Maltais  
Authorized Representative  
Manager  
Title

Corporate Secretary (where applicable)

Rene Maltais Signed Bobbie Mc  
Lambert Roman

Address: 20493 140<sup>th</sup> St., Maysville, OK 73057  
PO Box 1564, Purcell, OK 73080  
Telephone: (405) 867-1293 / (405) ~~473-8556~~  
535-6887



**NORMAN UTILITIES AUTHORITY**  
Approved as to form and legality this 17 day of October, 2023.

Ken Rode  
Authority Attorney

Approved by the NORMAN UTILITIES AUTHORITY this 24<sup>th</sup> day of October, 2023.

ATTEST:

Brenda Hall  
Secretary



Shirley  
Chairman

## STATUTORY BOND

Know all men by these presents that Industrial Hydro Services LLC, as PRINCIPAL, and National American Insurance Company, a corporation organized under the laws of the State of Oklahoma, and authorized to transact business in the State of Oklahoma, as SURETY, are held and firmly bound unto NORMAN UTILITIES AUTHORITY, a Public Trust of the State of Oklahoma, herein called AUTHORITY, in the sum of One Hundred Eighty-Eight Thousand Dollars and Zero Cents (\$188,000), for the payment of which sum PRINCIPAL and SURETY bind themselves, their heirs, executors, administrators, successors and assigns jointly and severally.

WHEREAS, the conditions of this obligation are such, that the PRINCIPAL, being the lowest and best bidder on the following PROJECT:

### REMOVAL AND DISPOSAL OF LIQUID BIOSOLIDS NORMAN, OKLAHOMA

has entered into a written CONTRACT (K-2324-80) with the AUTHORITY, dated October 10, 2023 for the completion of this PROJECT, that CONTRACT being incorporated herein by reference as if fully set forth.

NOW, THEREFORE, if the PRINCIPAL, shall properly and promptly complete the work on this PROJECT in accordance with the CONTRACT, and shall well and truly pay all indebtedness incurred for labor and materials and repairs to and parts for equipment furnished in the making of the PROJECT, whether incurred by the PRINCIPAL, his subcontractors, or any material men, then this obligation shall be void. Otherwise this obligation shall remain in full force and effect. If debts are not paid within thirty (30) days after the same becomes due and payable, the person, firm, or corporation entitled thereto may sue and recover on this Bond, subject to the provisions of 61 O.S. 1981 §2, for the amount so due and unpaid.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in said CONTRACT and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing the SURETIES, or any of them, from the obligation of this Bond.

It is further expressly agreed that the PRINCIPAL'S obligations under this Bond include payment of not less than the prevailing hourly rate of wages as established by the Commissioner of Labor of the State of Oklahoma and by the Secretary of the U.S. Department of Labor or as determined by a court on appeal.

IN WITNESS WHEREOF, the PRINCIPAL has caused these presents to be executed in its name and its corporate seal (where applicable) to be hereunto affixed by its duly authorized representative(s), on the 6<sup>th</sup> day of October, 2023, and the SURETY has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its authorized representative on the 6<sup>th</sup> day of October, 2023.

(Corporate Seal) (where applicable)

ATTEST

\_\_\_\_\_  
Corporate Secretary (where applicable)

Industrial Auto Services, LLC  
PRINCIPAL

Signed:

Rene Maltais  
Authorized Representative

Rene Maltais, Member  
Name and Title

Address:

PO Box 1564  
Purcell, OK 73080

Telephone:

(405) 867-2793

(Corporate Seal)

ATTEST

\_\_\_\_\_  
Corporate Secretary

National American Insurance Company  
SURETY

Signed:

Samuel A. Roman  
Authorized Representative

Daniel G. Somers, Atty-in-Fact  
Name and Title

Address:

PO Box 788  
Lindsay, OK 73052

Telephone:

(405) 756-3116

**CORPORATE ACKNOWLEDGEMENT**

STATE OF OKLAHOMA )  
 )§  
COUNTY OF Barlin )

The foregoing instrument was acknowledged before me this 6<sup>th</sup> day of October,  
2023, by Pere Matkai, Member of Industrial Hydro Services LLC  
Name and Title  
a Oklahoma corporation, on behalf of the corporation.

WITNESS my hand and seal this 6<sup>th</sup> day of October, 2023.

Tiffani Shebester  
Notary Public

My Commission Expires: 9/21/25



**INDIVIDUAL ACKNOWLEDGEMENT**

STATE OF OKLAHOMA )  
 )§  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_,  
20 \_\_\_\_\_, by \_\_\_\_\_ an individual.  
Name and Title

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**PARTNERSHIP ACKNOWLEDGEMENT**

STATE OF OKLAHOMA            )  
  )§  
COUNTY OF \_\_\_\_\_)

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_,  
20 \_\_\_\_, by \_\_\_\_\_ partner (or agent) on behalf of  
  Name and Title  
\_\_\_\_\_, a partnership.

WITNESS my hand and seal this \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**NORMAN UTILITIES AUTHORITY**

APPROVED as to form and legality this 17 day of October, 20 23.

[Signature]

\_\_\_\_\_  
AUTHORITY Attorney

Approved by the Trustees of the NORMAN UTILITIES AUTHORITY this 24<sup>th</sup> day of  
October, 20 23.

**NORMAN UTILITIES AUTHORITY**

By: [Signature]

Title: Chairman

ATTEST

[Signature]

\_\_\_\_\_  
Secretary



## PERFORMANCE BOND

Know all men by these presents that Industrial Hydro Services LLC, as PRINCIPAL, and National American Insurance Company, a corporation organized under the laws of the State of Oklahoma, and authorized to transact business in the State of Oklahoma, as SURETY, are held and firmly bound unto NORMAN UTILITIES AUTHORITY, a Public Trust of the State of Oklahoma, herein called AUTHORITY, in the sum of One Hundred Eighty-Eight Thousand Dollars and Zero Cents (\$188,000), for the payment of which sum PRINCIPAL and SURETY bind themselves, their heirs, executors, administrators, successors and assigns jointly and severally.

WHEREAS, the conditions of this obligation are such, that the PRINCIPAL, being the lowest and best bidder on the following PROJECT:

### REMOVAL AND DISPOSAL OF LIQUID BIOSOLIDS NORMAN, OKLAHOMA

has entered into a written CONTRACT (K-2324-80) with the AUTHORITY, dated October 10, 2023 for the completion of this PROJECT, that CONTRACT being incorporated herein by reference as if fully set forth.

NOW, THEREFORE, if PRINCIPAL shall, in all particulars, well and truly perform and abide by the CONTRACT and all specifications and covenants thereto; and if the PRINCIPAL shall promptly pay or cause to be paid all indebtedness incurred for labor and materials and repairs to and parts for equipment furnished in the making of this PROJECT, whether incurred by the PRINCIPAL or subcontractors; and if the PRINCIPAL shall protect and hold harmless the AUTHORITY from all loss, damage, and expense to life or property suffered or sustained by any person, firm, or corporation caused by the PRINCIPAL or his or its agents, servants, or employees in the construction of the PROJECT, or by or in consequence of any negligence, carelessness or misconduct in guarding and protecting the same, or from any act or omission of the PRINCIPAL or his or its agents, servants, or employees; and if the PRINCIPAL shall protect and save the AUTHORITY harmless from all suits and claims of infringement or alleged infringement or patent rights or processes, then this obligation shall be null and void. Otherwise this obligation shall remain in full force and effect.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in the CONTRACT and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing the sureties, or any of them, from the obligations of this Bond.

It is further expressly agreed that the PRINCIPAL'S obligations under this Bond include payment of not less than the prevailing hourly rate of wages as established by the Commissioner of Labor and by the Secretary of the U.S. Department of Labor or as determined by a court on appeal.

IN WITNESS WHEREOF, the PRINCIPAL has caused these presents to be executed in its name and its corporate seal (where applicable) to be hereunto affixed by its duly authorized representative(s), on the 6<sup>th</sup> day of October, 2023, and the SURETY has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its authorized representative(s) on the 6<sup>th</sup> day of October, 2023.

(Corporate Seal) (where applicable)

ATTEST

\_\_\_\_\_  
Corporate Secretary (where applicable)

Industrial Hydro Services LLC  
PRINCIPAL

Signed:

Arni Maltai's  
Authorized Representative

Pene Maltai's, Member  
Name and Title

Address:

PO Box 1564  
Paree, OK 73080

Telephone:

(405) 867-1293

(Corporate Seal)

ATTEST

\_\_\_\_\_  
Corporate Secretary

National American Insurance Company  
SURETY

Signed:

David A. Somers  
Authorized Representative

David A. Somers, Atty-in-Fact  
Name and Title

Address:

PO Box 788  
Lindsay, OK 73052

Telephone:

(405) 756-3114

**CORPORATE ACKNOWLEDGEMENT**

STATE OF OKLAHOMA )  
 )§  
COUNTY OF Garvin )

The foregoing instrument was acknowledged before me this 6<sup>th</sup> day of October.

2023, by Bene Maltais, Member of Industrial Hydro Services, LLC,  
Name and Title  
a Oklahoma corporation, on behalf of the corporation.

WITNESS my hand and seal this 6<sup>th</sup> day of October 2023.

Tiffani Shebester  
Notary Public

My Commission Expires: 8/21/25



**INDIVIDUAL ACKNOWLEDGEMENT**

STATE OF OKLAHOMA )  
 )§  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_

20\_\_\_\_, by \_\_\_\_\_ an individual.  
Name and Title

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

**PARTNERSHIP ACKNOWLEDGEMENT**

STATE OF OKLAHOMA            )  
  )§  
COUNTY OF \_\_\_\_\_)

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_,  
20 \_\_\_\_, by \_\_\_\_\_ partner (or agent) on behalf of  
Name and Title  
\_\_\_\_\_, a partnership.

WITNESS my hand and seal this \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

NORMAN UTILITIES AUTHORITY

APPROVED as to form and legality this 17 day of October, 20 23.

[Signature]  
\_\_\_\_\_  
AUTHORITY Attorney

Approved by the Trustees of the NORMAN UTILITIES AUTHORITY this 24th day of  
October, 20 23.

NORMAN UTILITIES AUTHORITY

ATTEST

By: [Signature]  
Title: Chairman

[Signature]  
\_\_\_\_\_  
Secretary

