

February 1, 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 November 15, 2022, the Oklahoma Department of Environmental Quality (DEQ), Water Quality Division (WQD), received the City of Norman's request to add five (5) land application sites. On January 20, 2023, DEQ received additional information on the sites' characteristics. Approval of the sites is granted based on the information provided.

APPROVED:

Site Smith 1: 55 acres located within the S $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Section 7, Township 8 N, Range 2 E of the Indian Meridian, Pottawatomie County, Oklahoma.

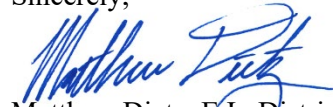
Site Smith 2: 79 acres located within the E $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Section 17, Township 8 N, Range 2 E of the Indian Meridian, Pottawatomie County, Oklahoma.

Site Smith 4: 12 acres located within the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 12, Township 9 N, Range 2E of the Indian Meridian, Pottawatomie County, Oklahoma.

Masoner 8d: 50 acres located within the S $\frac{1}{2}$ of the NW $\frac{1}{4}$ of Section 29, Township 9 N, Range 3 E of the Indian Meridian, Pottawatomie 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 405-702-8148.

Sincerely,



Matthew Dietz, E.I., District Representative
Municipal Wastewater Enforcement Section
Water Quality Division
Oklahoma Department of Environmental Quality

MJD/MM/hb

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

ODEQ Land Application Permit Paperwork
October 2022

Land Owners:

Submitted by:

Ryan R Bart: Utilities Supervisor
Norman Water Reclamation Facility



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



November 2, 2022

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

Re: Approval of Land Application Sites
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 newly acquired farmland on the east of Norman. We are requesting a permit to use these fields to apply our Class "B" bio-solids in the near future. All 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. SMP Sludge Test Results DMRs for 2021
4. Legal Descriptions of land sites and maps.
5. Digester #3 Fecal Results.
6. Field Agronomic Rates.
7. Land Application Soil Sample Results
8. Landowner's Consent Form
9. Land use agreement between Norman Utilities Authority (NUA) and landowners (in process).

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

Respectfully,

Ryan Bart
Utilities Supervisor
Norman Water Reclamation Facility
City of Norman

Authorization Application

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 _____
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SECTION I

- 1. Legal name of applicant:** Ryan Bart
- 2. Mailing address of applicant:**
Street address or PO Box PO Box 370
City Norman County Cleveland State OK Zip 73069
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 _____.
- 5. Type Ownership** Public () Private () Federal () State ()
- 6. Contact Person:**
Name & Title Ryan Bart, Utilities Supervisor
Street address or PO Box P.O. Box 370 3500 Jenkins Ave
City Norman County Cleveland State OK Zip 73069
Telephone (405) 292-9726
- 7. Type of Treatment:**
Minor Facility: Design Capacity 17 MGD Estimated Sludge Production 1700 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 (x) No ()
- C. How was it disposed of (describe the disposal method) Land applied on permitted farm (and south of facility)
- D. Location(s) of the disposal site(s) (legal description to the nearest 10 acres) Sec 20, Township 8 N Range 2 W (Potts Family)
- E. Sludge Management Plan, if any:
Sludge Plan ID Number SP3517006 approved by the Department of Environmental Quality
S-20616

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) Ryan Bart
 Title Utilities Supervisor
 Date 10-19-22
 Signature [Handwritten Signature]

Subscribed and sworn to before me this 19 day of Oct, 2022
Steven Hardeman My commission expires Aug, 11, 2026

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**

Municipal Sludge Application



Oklahoma Department of Environmental Quality
 707 N. Robinson, OKC OK 73102-8010
**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: 10-19-22

Application

The applicant, Ryan Bart, 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, S E 1/4 Sect 7 Tashp 8N. Range 2
Legal Description

Ryan Bart, hereby makes application for a permit to land apply sludge as required by OAC 252:648 of 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.

Ryan Bart
Signature

City of Norman
Name of Organization (Print or Type)

Ryan R Bart
Name of Authorized Signature (Print or Type)

3500 Jenkins Ave
Street Address (Print or Type)

Utilities Supervisor
Title

Norman, OK 73072
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



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

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 Department of Environmental Quality
 Water Quality Division
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 Oklahoma City, OK 73101-1677

Date: 10-19-22

Application

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Name of Applicant (Print or Type)

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

located at 5 1/2, SE 1/4 Sect 7 Twp 8 N. Range 2
Legal Description

Ryan Bart, 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 seq. 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.

Ryan Bart
Signature

Ryan R Bart
Name of Authorized Signature (Print or Type)

Utilities Supervisor
Title

City of Norman
Name of Organization (Print or Type)

3500 Jenkins Ave
Street Address (Print or Type)

Norman, OK 73072
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

Sludge DMR

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: SLLA

COUNTY: Cleveland

Monitoring Period: 2021-01-01 To 2021-12-31

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	*****	6.6	8.4	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	*****	16.6	23.6	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	*****	437	602	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	1.2	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	*****	9.6	15.0	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	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 ENQUIRY 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		
Supervisor							Ryan Bart		405-292-9726		

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

**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: SLLA

COUNTY: Cleveland

Monitoring Period: 2021-01-01 To: 2021-12-31
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	*****	626	827	69 mg/kg	0	Contingent	BATCH
PARAM CODE: 78467 Stage Code: R See Comments	Permit Requirement	*****	2800 Maximum Value	Kilograms per Hectare	*****	REPORT Single Sample	7500 Maximum				Contingent
LEAD, DRY WEIGHT	Sample Measurement	*****	0	3K	*****	17.4	24.9	69 mg/kg	0	Contingent	BATCH
PARAM CODE: 78468 Stage Code: R See Comments	Permit Requirement	*****	300 Maximum Value	Kilograms per Hectare	*****	REPORT Single Sample	840 Maximum				Contingent
NICKEL, DRY WEIGHT	Sample Measurement	*****	0	3K	*****	14.4	17.9	69 mg/kg	0	Contingent	BATCH
PARAM CODE: 78469 Stage Code: R See Comments	Permit Requirement	*****	420 Maximum Value	Kilograms per Hectare	*****	REPORT Single Sample	420 Maximum				Contingent
MERCURY, DRY WEIGHT	Sample Measurement	*****	0	3K	*****	0.4	0.7	69 mg/kg	0	Contingent	BATCH
PARAM CODE: 78471 Stage Code: R See Comments	Permit Requirement	*****	17 Maximum Value	Kilograms per Hectare	*****	REPORT Single Sample	57 Maximum				Contingent
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
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
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

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
Supervisor		Ryan Bart	405-292-9726

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

**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: SLLA
Monitoring Period: 2021-01-01 To: 2021-12-31

COUNTY: Cleveland
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 PARAM CODE: 84370 Stage Code: SL Sludge	Sample Measurement	*****	*****		*****	*****	10	3Y Alternate Number	0	Contingent	BATCH
	Permit Requirement	*****	*****		*****	*****	REPORT Value			Contingent	BATCH
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	
Supervisor								Ryan Bart		405-292-9726	

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

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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: SLSA

COUNTY: Cleveland

Monitoring Period: 2021-01-01 To: 2021-12-31

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
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 KNOWLEDGE 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		
Supervisor								Ryan Bart	405-292-9726		

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

**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: SLSA

COUNTY: Cleveland

Monitoring Period: 2021-01-01 To: 2021-12-31
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	Sample Measurement	*****	*****		*****	*****	*****	3Y Alternate Number			
PARAM CODE: 84370 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value			Contingent	BATCH
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	
Supervisor								Ryan Bart		405-292-9726	

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**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: SLDP

COUNTY: Cleveland

Monitoring Period: 2021-01-01 To: 2021-12-31 **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	Sample Measurement	*****	*****		*****	*****	1	9P Yes=1; No=0	0	Annual	NOT AP
PARAM CODE: 49030 Stage Code: SL Sludge	Permit Requirement	*****	*****		*****	*****	REPORT Value				Annual
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 DUTY 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		
Supervisor							Ryan Bart		405-292-9726		

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

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: SLDP

COUNTY: Cleveland

Monitoring Period: 2021-01-01 To: 2021-12-31

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. PARAM CODE: 46390 Stage Code: SL Sludge	Sample Measurement	*****	*****	4A Metric Tons per Year	0	*****	*****	9A pass (0)/fail (1)	0	See Permit	BATCH
	Permit Requirement	*****	*****		REPORT Monthly Average Minimum	*****	*****		See Permit	BATCH	
ANN. AMT SLUDGE DISPOSED BY OTHER METHOD PARAM CODE: 49017 Stage Code: V See Comments	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		Annual	ESTIMA	
ANNUAL AMT OF SLUDGE INCINERATED PARAM CODE: 49018 Stage Code: SL Sludge	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		Annual	ESTIMA	
ANNUAL SLUDGE PRODUCTION, TOTAL PARAM CODE: 49019 Stage Code: SL Sludge	Sample Measurement	*****	4501	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		Annual	ESTIMA	
ANNUAL AMOUNT OF SLUDGE LAND APPLIED PARAM CODE: 49020 Stage Code: SL Sludge	Sample Measurement	*****	4501	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		Annual	ESTIMA	
ANNUAL AMT. SLUDGE DISPOSED SURFACE UNIT PARAM CODE: 49021 Stage Code: SL Sludge	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
	Permit Requirement	*****	REPORT Annual Total		*****	*****	*****		Annual	ESTIMA	
ANNUAL AMT SLUDGE DISPOSED IN LANDFILL PARAM CODE: 49022 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	Signature of Principal Executive Officer Or Authorized Agent	Telephone No
---	---	--	--------------

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

**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: SLDP
Monitoring Period: 2021-01-01 To: 2021-12-31

COUNTY: Cleveland

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	Sample Measurement	*****	0	4A Metric Tons per Year	*****	*****	*****		0	Annual	ESTIMA
PARAM CODE: 49023 Stage Code: SL Sludge	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		
Supervisor								Ryan Bart	405-292-9726		

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

Legal Descriptions and Maps



Smith Property - Site 1 & 2

Site #1 30 acres
" #2 20 "



Map Produced by the City of Norman
Geographic Information System.

The City of Norman assumes no
responsibility for errors or omissions
in the information presented.

 Subject Tract



0 0.25 0.5 Miles

November 3, 2022



Service Layer: Esri, DeLorme, Garmin, and the City of Norman, 2022. Source: Esri, Mapbox, DeLorme, Garmin, and the City of Norman, 2022.

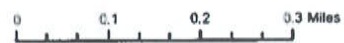
Smith Property - Site 3 80 acres



Map Produced by the City of Norman Geographic Information System.

The City of Norman assumes no responsibility for errors or omissions in the information presented.

 Subject Tract



November 3, 2022



Smith Property - Site 4 20 acres



Map Produced by the City of Norman
Geographic Information System.

The City of Norman assumes no
responsibility for errors or omissions
in the information presented.

 Subject Tract



0 0.1 0.2 Miles

November 3, 2022



Masoner Property - Site 5

50 acres



Map Produced by the City of Norman
Geographic Information System.

The City of Norman assumes no
responsibility for errors or omissions
in the information presented.

 Subject Tract



Landowner Consent

SLUDGE MANAGEMENT PLAN City Of Norman

PLAN I.D. NUMBER SP3514006

LANDOWNER CONSENT FOR SLUDGE APPLICATION

DATE 11-2, 2022

OWNER NAME _____

ADDRESS _____

(LESSEE) OPERATOR NAME _____

FARM LOCATION(S) Link, OK / Pottawatomie County

(FINDING AND LEGAL) PID: 000-07-008-002 / PID: 000-17-008-002-0-006-00
-0-010-00

PID: 000-02-008-002-0-007-00 / PID: 000-12-009-002-0-001-00

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:

Smith
11-2-22

- (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

SLUDGE MANAGEMENT PLAN
NORMAN WATER RECLAMATION FACILITY

PLAN I.D. NUMBER SP3514006

LANDOWNER CONSENT FOR BIO-SOLID APPLICATION

DATE 11-3-2022

OWNER NAME _____
ADDRESS _____

(LESSEE) OPERATOR NAME _____

FARM LOCATION(S) Tecumseh, OK 74873

(FINDING AND LEGAL) S/2 NW/4 of section 29
T9N, R3E, T.M.

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 Marona Date: 11-3-2022

Slc Sth



Digester #3 Fecal Results



October 26, 2022

Client: Norman PWA

3000 East Robinson

Norman, OK 73070

Requested By: -



National Environmental Laboratory Accreditation Program ODEQ TNI Certified

Sample Project Name:

Date Samples Received: October 20, 2022 **Time:** 16:35 sample temp upon arrival at lab = 0.30°C - On Ice

Matrix: Sludge

Lab Log Numbers: **EJ20078-01**

Work Order: EJ20078

Report # EJ20078-1026221049

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: 33170 - 06 D3 Fecal

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 10/20/22 10:28

Lab Log# EJ20078-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Fecal Coliform Sludge EPA 1681	Fecal Coliform	414000	MPN/g dry	2.0	10/21/22 09:40 RND	10/22/22 11:20 RND
Solids, Percent SM2540 B	Percent Solids	22.2	%	0.100	10/25/22 09:41 MHM	10/25/22 15:07 MHM

Notes and Definitions

MCL Analyte concentration may exceed Maximum Contaminant Limit (MCL) for EPA Primary or Secondary Drinking Water Regulations.

Analyte concentration may exceed regulatory limit.

PQL Practical Quantitation Limit - the method reporting limit (MRL) adjusted for any dilutions or other changes made to the sample to deal with interferences/matrix effects

BPQL Below Practical Quantitation Limit (if applicable).

The "Prep Date" of the QC analysis coincides with the characters of the appropriate QC Lab ID. (Example: 19 A 02 15 - BLK = 2019, Jan 2, Batch #15 - Blank)

Lab Manager



Quality Control Data

Blank Data

QC Lab #	Test Group	Test	Result	PQL	Flags
22J2122-BLK1	Fecal Coliform Sludge EPA 1681	Fecal Coliform	BPQL MPN/g wet	2.0	

Duplicate Sample Data

QC Lab #	Test Group	Test Name	Source	Dup Result	Samp Result	% RPD	RPD Limit	Flags
22J2517-DUP1	Solids, Percent SM2540 B	Percent Solids	EJ20078-01	22.0	22.2	0.7	10	



33170-06

Test
Fecal Coliform
Total Solids

Date/Time	Result	Units	Analyst
_____	_____	MPN/g dr	Accurate Labs
_____	_____	%	Accurate Labs

Sample ID D3 Fecal
Description Scheduled Sample
Matrix Sludge Cake
Preservation Cool, 4°C
Sample Type Grab
Collect Times -
Sampler Centrifuge Operator

10-20-22 10:25 _____
Date/Time Sampled Y.J.

Soil Sample Results



Soil, Water & Forage Analytical Laboratory

Oklahoma State University Division of Agricultural Sciences and Natural Resources
045 Agricultural Hall
Stillwater, OK 74078
E-mail: soiltesting@okstate.edu
Website: www.soiltesting.okstate.edu

SOIL TEST REPORT

RICHARD SQUIRREL
CITY OF NORMAN WWTF
P O BOX 370
3500 S. JENKINS
NORMAN, OK 73070
405-292-9726

Name :
Location : *Smith # 1*

Lab ID No.: : 144278
Customer Code : 605
Sample No. : 15302
Received : 10/18/2022
Report Date : 10/19/2022

- Routine Test -	- Secondary Nutrients -	- Micronutrients -
pH: 6.1	SO4-S (lbs/A)	
Buffer Index: 7.3	Surface:	
NO3-N (lbs/A):	Subsoil:	
Surface: 14		
Subsoil: 22		
Soil Test P Index: 20 (10 ppm)	- Additional Tests -	
Soil Test K Index: 152 (76 ppm)	NH4-N (lbs/A): 8.5	

* DL = Detection Limit

INTERPRETATION AND REQUIREMENTS FOR *Bermudagrass* (YIELD GOAL = 4)

- Test -	- Interpretation -	- Requirement -	- Recommendations and Comments -
pH	Adequate	No Lime Required	
Nitrogen	Deficient	165 lbs/Acre N	
Phosphorus	79% Sufficient	42 lbs/Acre P2O5 annually	
Potassium	84% Sufficient	45 lbs/Acre K2O annually	

Signature



Soil, Water & Forage Analytical Laboratory

Oklahoma State University Division of Agricultural Sciences and Natural Resources
 045 Agricultural Hall
 Stillwater, OK 74078
 E-mail: soiltesting@okstate.edu
 Website: www.soiltesting.okstate.edu

SOIL TEST REPORT

RICHARD SQUIRREL
 CITY OF NORMAN WWTF
 P O BOX 370
 3500 S. JENKINS
 NORMAN, OK 73070
 405-292-9726

Name :
 Location : Smith #2

Lab ID No.: : 144276
 Customer Code : 605
 Sample No. : 15401
 Received : 10/18/2022
 Report Date : 10/19/2022

- Routine Test -		- Secondary Nutrients -		- Micronutrients -	
pH:	6.3	SO4-S (lbs/A)			
Buffer Index:		Surface:			
NO3-N (lbs/A):		Subsoil:			
Surface:	20				
Subsoil:	24				
Soil Test P Index:	26 (13 ppm)				
Soil Test K Index:	122 (61 ppm)				
		- Additional Tests -			
		NH4-N (lbs/A):	7.4		

DL = Detection Limit
 INTERPRETATION AND REQUIREMENTS FOR *Bermudagrass* (YIELD GOAL = 4)

- Test -	- Interpretation -	- Requirement -	- Recommendations and Comments -
pH	Adequate	No Lime Required	
Nitrogen	Deficient	157 lbs/Acre N	
Phosphorus	85% Sufficient	34 lbs/Acre P2O5 annually	
Potassium	78% Sufficient	55 lbs/Acre K2O annually	

 Signature



Soil, Water & Forage Analytical Laboratory

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Stillwater, OK 74078
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Website: www.soiltesting.okstate.edu

SOIL TEST REPORT

RICHARD SQUIRREL
CITY OF NORMAN WWTF
P O BOX 370
3500 S. JENKINS
NORMAN, OK 73070
405-292-9726

Name :
Location : *Smith #3*

Lab ID No.: : 144281
Customer Code : 605
Sample No. : 15402
Received : 10/18/2022
Report Date : 10/19/2022

- Routine Test -

pH: 5.9
Buffer Index: 7.3
NO3-N (lbs/A):
Surface: 54
Subsoil: 50
Soil Test P Index: 20 (10 ppm)
Soil Test K Index: 344 (172 ppm)

- Secondary Nutrients -

SO4-S (lbs/A)
Surface:
Subsoil:

- Micronutrients -

- Additional Tests -

NH4-N (lbs/A): 7.9

* DL = Detection Limit

INTERPRETATION AND REQUIREMENTS FOR *Bermudagrass* (YIELD GOAL = 4)

- Test -	- Interpretation -	- Requirement -	- Recommendations and Comments -
pH	Adequate	No Lime Required	
Nitrogen	Deficient	97 lbs/Acre N	
Phosphorus	79% Sufficient	42 lbs/Acre P2O5 annually	
Potassium	Adequate	None	

Signature



Soil, Water & Forage Analytical Laboratory

Oklahoma State University Division of Agricultural Sciences and Natural Resources
 045 Agricultural Hall
 Stillwater, OK 74078
 E-mail: soiltesting@okstate.edu
 Website: www.soiltesting.okstate.edu

SOIL TEST REPORT

RICHARD SQUIRREL
 CITY OF NORMAN WWTF
 P O BOX 370
 3500 S. JENKINS
 NORMAN, OK 73070
 405-292-9726

Name :
 Location : *Smith Hill*

Lab ID No.: : 144283
 Customer Code : 605
 Sample No. : 15403
 Received : 10/18/2022
 Report Date : 10/19/2022

- Routine Test -		- Secondary Nutrients -		- Micronutrients -	
pH:	5.9	SO4-S (lbs/A)			
Buffer Index:	7.4	Surface:			
NO3-N (lbs/A):		Subsoil:			
Surface:	13				
Subsoil:	32				
Soil Test P Index:	11 (6 ppm)				
Soil Test K Index:	132 (66 ppm)				
		- Additional Tests -			
		NH4-N (lbs/A):	6.3		

* DL = Detection Limit

INTERPRETATION AND REQUIREMENTS FOR *Bermudagrass* (YIELD GOAL = 4)

- Test -	- Interpretation -	- Requirement -	- Recommendations and Comments -
pH	Adequate	No Lime Required	
Nitrogen	Deficient	156 lbs/Acre N	
Phosphorus	67% Sufficient	56 lbs/Acre P2O5 annually	
Potassium	80% Sufficient	52 lbs/Acre K2O annually	

 Signature



Soil, Water & Forage Analytical Laboratory

Oklahoma State University Division of Agricultural Sciences and Natural Resources
 045 Agricultural Hall
 Stillwater, OK 74078
 E-mail: soiltesting@okstate.edu
 Website: www.soiltesting.okstate.edu

SOIL TEST REPORT

RICHARD SQUIRREL
 CITY OF NORMAN WWTF
 P O BOX 370
 3500 S. JENKINS
 NORMAN, OK 73070
 405-292-9726

Name :
 Location : *Mason # 5*

Lab ID No.: : 144285
 Customer Code : 605
 Sample No. : 15404
 Received : 10/18/2022
 Report Date : 10/19/2022

- Routine Test -	- Secondary Nutrients -	- Micronutrients -
pH: 6	SO4-S (lbs/A)	
Buffer Index: 7.4	Surface:	
NO3-N (lbs/A):	Subsoil:	
Surface: 5		
Subsoil: 4		
Soil Test P Index: 9 (4 ppm)		
Soil Test K Index: 141 (70 ppm)		
	- Additional Tests -	
	NH4-N (lbs/A): 8.1	

DL = Detection Limit
 INTERPRETATION AND REQUIREMENTS FOR *Bermudagrass* (YIELD GOAL = 4)

- Test -	- Interpretation -	- Requirement -	- Recommendations and Comments -
pH	Adequate	No Lime Required	
Nitrogen	Deficient	192 lbs/Acre N	
Phosphorus	64% Sufficient	59 lbs/Acre P2O5 annually	
Potassium	82% Sufficient	49 lbs/Acre K2O annually	

 Signature

Ag Rates

Filter Field

Field:

Acres:

Date Start:

Location:

Owner:

Hectare:

Date Stop:

1 Acre = 0.404686 Hectare (10,000 sq. meters)

Date of Last Fertility Report:

	Nitrogen (N)	Phosphorus (P)	Potassium (K)
Interpretation:	Deficient	Partially Sufficient	Partially Sufficient
Requirements (lbs/acre):	157	34	55
Total lbs to Reach 100%:	4710	1020	1650
Total lbs Added to Date:			
Average lbs Per Load:			
Loads to Reach 75%:			
Loads to Reach 100%:			

Smith # 1

Filter Field

Field:

Acres:

Date Start:

Location

Owner:

Hectare:

Date Stop:

1 Acre = 0.404686 Hectacre (10,000 sq. meters)

Date of Last Fertility Report:

	Nitrogen (N)	Phosphorus (P)	Potassium (K)
Interpretation:	Deficient	Partially Sufficient	Partially Sufficient
Requirements (lbs/acre):	165	42	45
Total lbs to Reach 100%:	3300	840	900
Total lbs Added to Date:			
Average lbs Per Load:			
Loads to Reach 75%:			
Loads to Reach 100%:			

Smith #2

Filter Field

Field:

Acres:

Date Start:

Location:

Owner:

Hectare:

Date Stop:

1 Acre = 0.404686 Hectare (10,000 sq. meters)

Date of Last Fertility Report:

	Nitrogen (N)	Phosphorus (P)	Potassium (K)
Interpretation:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Requirements (lbs/acre):	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total lbs to Reach 100%:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total lbs Added to Date:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Average lbs Per Load:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Loads to Reach 75%:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Loads to Reach 100%:	<input type="text"/>	<input type="text"/>	<input type="text"/>

Smith #3

*Sufficient in Potassium

Filter Field

Field:

Acres:

Date Start:

Location

Owner:

Hectare:

Date Stop:

1 Acre = 0.404686 Hectacre (10,000 sq. meters)

Date of Last Fertility Report:

	Nitrogen (N)	Phosphorus (P)	Potassium (K)
Interpretation:	Deficient	Partially Sufficient	Partially Sufficient
Requirements (lbs/acre):	156	56	52
Total lbs to Reach 100%:	3120	1120	1040
Total lbs Added to Date:			
Average lbs Per Load:			
Loads to Reach 75%:			
Loads to Reach 100%:			

Smith #4

Filter Field

Field: Acres: Date Start:
Owner: Hectare: Date Stop:
Location:

1 Acre = 0.404686 Hectacre (10,000 sq. meters)

Date of Last Fertility Report:

	Nitrogen (N)	Phosphorus (P)	Potassium (K)
Interpretation:	Deficient	Partially Sufficient	Partially Sufficient
Requirements (lbs/acre):	192	59	49
Total lbs to Reach 100%:	9600	2950	2450
Total lbs Added to Date:			
Average lbs Per Load:			
Loads to Reach 75%:			
Loads to Reach 100%:			

Masoner #8d