

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
INDUSTRIAL WASTEWATER TREATMENT/DISPOSAL PERMIT

PERMIT NUMBER: WD07-005
ID NUMBER: I-18000600

In compliance with the Oklahoma Pollutant Discharge Elimination System Act (OPDES Act), 27A O.S. Supp., §2-6-201 et seq., and the rules of the Oklahoma Department of Environmental Quality promulgated thereunder,

Northeast Oklahoma Electric Cooperative
P.O. Box 948
Vinita, OK 74301

is authorized to treat and dispose of wastewater in one (1) total-retention surface impoundment (T01) and two (2) tanks (S02 and S05) as described in the Appendix. The facility is located at:

SW¼, SE¼, NE¼, Section 30, Township 25N, Range 21E1M
Craig County, Oklahoma
or Southwest of the intersection of St. Hwy. 60 & N4440 Road, near Vinita, OK
74301

The wastewater consists of process wastewater generated from the two vehicle car wash bays and is classified as Class III wastewater, in accordance with OAC 252:616-1-2.

Discharge of wastewater to waters of the State is specifically prohibited.

The facility shall be maintained in accordance with the conditions set forth in Parts I, II, and III hereof.

Issuance of this permit in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and Department Rules.

This permit replaces/supersedes OPDES Permit No. WD07-005 that was issued on November 1, 2012, modified on _____, and expires on October 31, 2017.

This permit shall become effective on.

This permit and the authorization to operate the disposal system shall expire at midnight, on October 31, 2017.

Issued this ___ day of _____, 2016.

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

PART I

A. TREATMENT LIMITATIONS AND MONITORING REQUIREMENTS

1. VOLUME/ACRE/YEAR LIMITATION

The volume of wastewater allowed to be land applied is limited to an average of 7,760 gallons per day or a total of 2.83 million gallons per year. The wastewater shall be spread uniformly across the land application sites to prevent persistent flooding.

Annual Limitation

LAND APPLICATION SITE	VOLUME LIMITATION (Gallons per year unless otherwise specified)
L01	2,830,000

2. REQUIREMENTS FOR MONITORING QUANTITY OF WASTE APPLIED AND SOIL TESTING AT LAND APPLICATION SITE L01.

During the period beginning on the effective date and lasting through the expiration date, the permittee shall monitor the land application site, L01 in accordance with the following schedule and summarize the results on a Self-Monitoring Report (SMR). The Hydraulic Loading shall be calculated in accordance with Appendix B. The time period covered under this annual monitoring requirement is from January 1 through December 31. SMR forms shall be submitted to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section annually on or before the last working day of the month following the close of each year.

Land Application Monitoring Requirements

PARAMETERS	ANNUAL TOTALS
Total Volume Applied (gal)	Report ¹
Total Number of Days Applied (days)	Report ¹
Total Number of Acres Used (acres)	Report ¹
Volume (gal/acre/yr)	Report
Type of Crop Planted	Report ¹
Total Precipitation (in/year)	Report ²
Hydraulic Loading (inches applied/yr)	Report ³

¹ The permittee shall keep a written record of the dates on which waste was applied, the gallons per day of waste applied, the number of acres used for each application, and the type of crop that the wastewater was applied to.

² The permittee shall keep a written record of the amount of precipitation that occurs monthly at the facility. Precipitation can be monitored at the facility or obtained from local sources.

³ The permittee shall calculate annual loading rates for the land application sites L01 and L02 using the equation sheet provided in Appendix B of the permit.

PARAMETERS	MONITORING REQUIREMENTS	
	FREQUENCY	SAMPLE TYPE
Total Volume Applied	1/Year	Estimate
Total Number of Days Applied (days)	1/Year	Measure
Total Number of Acres Used (acres)	1/Year	Measure
Volume (gal/acre/yr)	1/Year	Calculate
Type of Crop Planted	1/Year	Report
Total Precipitation	1/Year	Measure
Hydraulic Loading (inches applied/yr)	1/Year	Calculate

Soil Testing Requirements

PARAMETERS	ANNUAL TOTALS/LIMITS
Soil Nitrogen Concentration (mg/kg)	Report
Soil Phosphorous Concentration (STP Index)	Report
Soil Potassium Concentration (mg/kg)	Report
Soil Zinc Concentration	Report
Soil pH	Greater than 5.5 s.u.

PARAMETERS	MONITORING REQUIREMENTS	
	FREQUENCY	SAMPLE TYPE
Soil Nitrogen Concentration (mg/kg)	1/Year	Composite ^{1, 2, 3, 4}
Soil Phosphorous Concentration (STP Index)	1/Year	Composite ^{1, 2, 3, 4}
Soil Potassium Concentration	1/Year	Composite ^{1, 2, 3, 4}
Soil Zinc Concentration	1/Year	Composite ^{1, 2, 3, 4}
Soil pH	1/Year	Composite ^{1, 2, 3, 4}

¹ Soil composite sample for each land application site shall be obtained by combining a 15 to 20 core soil samples per land application site. The core samples shall be collected and mixed thoroughly and a single sample taken from the composited sample.

² Fields used for production of cultivated crops may be sampled any time after harvest or before planting.

³ Noncultivated fields should be sampled during the dormant season.

⁴ Do not sample either cultivated or noncultivated fields immediately after lime, fertilizer, or manure application.

Monitoring Point L01: Samples taken or data recorded in compliance with the monitoring requirements listed above shall be taken at the land application site L01, located in the SE¼, SE¼, NE¼ Section 30, Township 25N, Range 21E1M, Craig County, Oklahoma.

A hard-bound log book(s) shall be kept for each land application site. The log book(s) shall have an entry for each land application event. For land application site L01 there shall be an entry for the date of event, method of spreading, operator name, volume spread, the area in square feet over which the volume was spread over.

The logbooks shall be kept for a period of five (5) years. The logbooks shall be made available to DEQ personnel upon request. If the request is made during an inspection by DEQ personnel the logbooks shall be made available to the inspector within one hour of the request.

The facility shall also keep a record, for each land application site, of any additional fertilizer that is applied. Applied fertilizer shall include starter fertilizer, commercial fertilizer as well as lime and soil amendments.

B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance in accordance with the following schedule: None.

C. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III.B.4 of the permit. Monitoring results obtained during the previous quarter shall be summarized and reported on the Self-Monitoring Report (SMR) forms due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section postmarked or received no later than the last working day of the following month after the end of the reporting period as described above. Monitoring results obtained during the previous year shall be summarized and reported on the Self-Monitoring Report (SMR) forms due to the Oklahoma Department of Environmental Quality, Water Quality Division,

Wastewater Compliance Tracking Section postmarked or received no later than the last working day of the following month after the end of the reporting period as described above. If no land application occurs during the reporting period, SMR forms stating "No Land Application" shall be submitted according to the above schedule.

The first quarterly report is due on _.

The first annual report is due on _.

PART II OTHER PERMIT REQUIREMENTS

A. REGULATORY NOTICE

The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the State of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the Director's approval, grant, and issuance of this permit, permittee acknowledges receipt of true, correct, and current copies of Oklahoma's Water Quality Standards, as amended, and the rules of the Oklahoma Department of Environmental Quality, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.

B. REOPENER CLAUSE

The permit may be reopened to implement and/or require impoundment and/or tank system modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.

C. SPECIAL CONDITIONS

1. The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the State of Oklahoma, the Oklahoma Department of Environmental Quality Rules, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the approval, grant and issuance of this permit, permittee acknowledges receipt of true, correct and current copies of Oklahoma's Water Quality Standards, and the Oklahoma Department of Environmental Quality's Rules, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.
2. The permit may be reopened to implement and/or require impoundment, tank system, and/or land application modifications, additions, extensions, and/or operational changes; additional monitoring and reporting (including but not necessarily limited to soil sampling); reclassification of wastes; sludge management plans; best management practices; closure plans; remediation and/or remediation plans; monitoring wells and/or subsurface monitoring plans; and/or other appropriate actions.
3. Surface impoundment T01 shall have a holding capacity sufficient to store waste during periods when the weather and/or soil conditions are unsuitable for the land application of wastewater.
4. Surface impoundment T01 shall be constructed, maintained, and operated to minimize odors.
5. The permit does not authorize any disposal of pollutants or wastes other than by disposing of in surface impoundment T01 and using land application site L01, authorized in the permit.

D. SPECIFIC REQUIREMENTS FOR LAND APPLICATION OF WASTEWATER

1. The hydraulic loading at land application sites L01 shall be maintained to prevent surface runoff of wastewater from applied wastewater to waters of state and to prevent persistent flooding (persistent flooding is defined as soil which remains saturated for more than 24 hours).
2. The land application of wastewater at sites L01 shall not occur during periods of precipitation, when the soil is frozen, or while the soil is saturated. The wastewater may be stored in the surface impoundment T01 until the soil is capable of receiving wastewater without persistent flooding or surface runoff.
3. Land application of waste shall not cause permanent vegetative damage or otherwise prevent growth after cessation of land application.
4. The land application site shall be managed to prevent site conditions that have the potential to impact aesthetics, including but not limited to, odors, waste piles, and sludges.
5. The land application of the wastewater shall not be applied within 100 feet of a stream or body of water and shall not be applied within two feet of the highest seasonal water level on a site.
6. The land application of the wastewater shall not be applied within 250 feet of a well used for a potable water supply or a public water supply surface water intake.
7. The land application of the wastewater shall not occur within a 100 foot buffer zone of any buildings near or adjacent to the land application site.
8. In all other respects, land application shall be accomplished in accordance with OAC 252:616-11.

E. SURFACE IMPOUNDMENT REQUIREMENTS

1. A minimum freeboard of three (3) feet is required to be maintained for surface impoundment T01.
2. The permittee shall maintain a written Impoundment Maintenance and Operation Plan (IMOP) that discusses maintenance, operational, and monitoring procedures as specified in OAC 252:616-5-2 for impoundment T01.
3. Specific Requirements for Surface Impoundments
 - a. The permittee shall keep all surface impoundments (T01) free from any kind of deep-rooted vegetation.
 - b. In accordance with OAC 252:616-5-1(c), the permittee shall post a sign near the surface impoundments listing the name of the facility operator, an emergency telephone number, and the DEQ permit number.
4. At such time as surface impoundment T01 is to be permanently taken out of service or at such time as the contents of T01 pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.
5. In all other respects, surface impoundment T01 shall be subject to standard conditions for surface impoundments contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring, and closure.

F. TANK SYSTEM REQUIREMENTS

1. Tank systems S02 and S05 shall be subject to standard conditions for tank systems contained in OAC 252:616, Subchapters 5, 9, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring, and closure.

G. SITE SPECIFIC REQUIREMENTS

1. The permittee shall provide written notification to the DEQ within thirty (30) days of any significant changes in the source or composition of process chemicals, dyes, and/or biocides that are being used at the plant.

H. OTHER DISPOSAL METHODS

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a State-approved waste disposal site or to a company for recycling. Disposal of any waste or wastewater shall be in a manner such as to prevent any pollutant from such materials from entering waters of the State or waters of the United States.

If any such waste or wastewater is removed from the facility, the permittee shall keep accurate records that include the following information:

1. Name and address of company hauling waste.
2. The type and amount of waste hauled.
3. The final disposal site of waste hauled.

The permittee shall retain the above records for a period of at least five (5) years. Upon request, the above records shall be made available to the DEQ's staff for inspection, review, and copying.

APPENDIX A

Description of Surface Impoundment and Tank Systems

Classification OAC 252:616-1-2		Liner Description OAC 252:616-7-1(8), OAC 252:616-9-2	Holding Capacity OAC 252:616-7-1(6) ^(b)	Wastewater Destination
S.I. ^(a)	Wastewater			
T01	Process wastewater from garage wash bays and sanitary wastewater – Class III	Compacted Clay	Approximately 1,887,000 gallons (205'×270'×8' deep)	Evaporation and land application
S02	Process wastewater garage wash bay area and sanitary wastewater – Class III	Concrete	Approximately 1000 gallons	T01
S05	Process wastewater from garage wash bay area – Class III	Concrete	Approximately 1000 gallons	T01

^(a) Designation T refers to total retention surface impoundments.

Designation S refers to tank systems without lateral lines.

^(b) Based on information provided in application. Freeboard requirements in Part ILC.1 must be met.

Location of Surface Impoundment and Tank Systems

S.I.	Legal Location	General Location and Description
T01	SW¼, SE¼, NE¼ Section 30, Township 25N, Range 21EIM Craig County, Oklahoma	South of facility
S02	SW¼, NE¼, NE¼ Section 30, Township 25N, Range 21EIM Craig County, Oklahoma	Immediately next to the shop car wash
S05	SW¼, NE¼, NE¼ Section 30, Township 25N, Range 21EIM Craig County, Oklahoma	Immediately next to the truck barn car wash