

DRAFT

**AUTHORIZATION TO DISCHARGE UNDER THE
OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**PERMIT NUMBER: OK0031755
ID NUMBER: S20651**

PART I

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, Title 27A O.S. § 2-6-201 *et seq.* as amended, and the rules of the State of Oklahoma Department of Environmental Quality (DEQ) adopted thereunder (see the Oklahoma Administrative Code (OAC) 252:606); the Federal Clean Water Act (CWA), Public Law 95-217 (33 U.S.C. 1251 *et seq.*), Section 402; and National Pollutant Discharge Elimination System (NPDES) Regulations (40 CFR Parts 122, 124, and 403),

Noble Utility Authority
(Noble Northside Wastewater Treatment Plant)
P.O. Box 557
Noble, OK 73068

is hereby authorized to discharge treated wastewater from a facility located at approximately

SE¼, NW¼, SE¼
Section 21, Township 8 North, Range 2 West, IM
Cleveland County, Oklahoma
or at One mile west of Etowah Road, Noble, OK 73068

to the receiving water: Canadian River at the point located at approximately

Latitude: 35° 08' 21.411" N [GPS: NAD83]
Longitude: 97° 24' 25.723" W [GPS: NAD83]

Water Body ID No. 520610010010_05

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III, and IV hereof.

This permit replaces and supersedes the previous permit issued on August 17, 2015.

The issuance date of this permit is **Month Date Year**.

This permit shall become effective **Month Date Year**.

This permit and authorization to discharge shall expire at midnight **Month Date Year**.

For the Oklahoma Department of Environmental Quality:

Michael Moe, P.E., Manager
Municipal Discharge and Stormwater Permit Section
Water Quality Division

Shellie R. Chard, Director
Water Quality Division

A. Effluent Limitations and Monitoring Requirements (Outfall 001)

1. Final Limitations

Beginning the effective date of the permit through the expiration date of the permit, the permittee is authorized to discharge treated wastewater in accordance with the following limitations:

Effluent Characteristic		Discharge Limitations				Monitoring Requirements	
		Mass Loading (lb/day)	Concentrations (mg/L unless otherwise specified)			Frequency	Sample Type
			Monthly Avg.	Monthly Avg.	Weekly Avg.		
Flow (mgd) [50050]	Year round	---	Report	---	Report	Daily	Totalized
Biochemical Oxygen Demand -5 Day (BOD₅) [00310]	Year round	190.1	30	45	---	3/month	3-hour composite
Total Suspended Solids - (TSS) [00530]	Year round	190.1	30	45	---	3/month	3-hour composite
Dissolved Oxygen (DO) [00300]	Jun - Oct	---	5.0 Minimum			Daily	Grab
<i>E. coli</i> ^a [51040]	May - Sep	---	126 ^b	---	406	2/week	Grab
	Oct - Apr	---	630 ^b	---	2,030	1/week	
pH (standard unit) [00400]	Year round	---	6.5 – 9.0			Daily	Grab

^a *E. coli* shall be reported in MPN/100 mL

^b Monthly average value for *E. coli* shall be reported as *geometric mean* of all samples in that month.

Sampling Point

Samples taken for compliance with the monitoring requirements specified above (except DO) shall be taken at the discharge from the final treatment unit preceding post aeration. Samples taken for compliance with the DO monitoring requirements specified above shall be taken following post aeration at the end-of-pipe discharge to the receiving stream.

Year-round Requirements

- There shall be no discharge of floating solids or visible foam in other than trace amounts.
- There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of water courses or which cause deleterious effects to the biota.
- All monitoring and reporting requirements shall also be in compliance with Part III of this permit.

B. Compliance Schedule

Not applicable to this permit.

C. Sanitary Sewer Overflows

Any bypass in the collection system [sanitary sewer overflow (SSO)] shall be reported in accordance with Part III.B.6 of this permit.

D. Reporting of Monitoring Results

Monitoring results shall be reported in accordance with the provisions of Part III.B.5 of the permit. Monitoring results obtained during the previous month shall be summarized and electronically reported on an electronic Discharge Monitoring Report (eDMR) form due to DEQ, Water Quality Division, Wastewater Compliance Tracking Section no later than the 15th day of the month following the completed monthly test. If no discharge occurs during the reporting period, an eDMR form stating "No Discharge" shall be electronically submitted according to the above schedule. Instructions on how to register as a Preparer or Signatory for eDMRs, as well as how to prepare and submit eDMRs, can be found on DEQ's website at <https://www.deq.ok.gov/water-quality-division/electronic-reporting/>. Assistance is also available by contacting DEQ at (405) 702-8100 or email deqreporting@deq.ok.gov.

The first report is due on the 15th of MONTH, 2020.

E. Reclaimed Water Limitations and Monitoring Requirements for Category 5 Water Reuse

Not applicable to this permit.

PART II. OTHER PERMIT REQUIREMENTS

A. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants shall not be introduced into a Publicly Owned Treatment Works (POTW) facility, defined in 40 CFR § 403.3(o) “as any devices and systems used in storage, treatment, recycling, and reclamation of municipal sewage and industrial wastes of a liquid nature. It also includes sewers, pipes, and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in Section 502(4) of the CWA, which has jurisdiction over the Indirect Discharges to and from such treatment works.”
 - a. Pollutants which create a fire or explosion hazard in the POTW facility, including, but not limited to, waste streams with a closed cup flashpoint of less than 60°C (140°F) using the test methods specified in 40 CFR § 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in interference;
 - d. Any pollutant, including oxygen demanding pollutants (e.g., BOD), released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW resulting in interference but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the CWA, including any requirements established under 40 CFR Part 403.
3. The permittee shall provide adequate notice of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Act and/or Sections 40 CFR Parts 405-499 if it were directly discharging those pollutants;

- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit; and
- c. Any notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works and (ii) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

B. RE-OPENER CLAUSE

This permit may be re-opened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of State water quality criteria are determined to be the result of the permittee's discharge to the receiving water, or a revised Total Maximum Daily Load is established for the receiving water, or when required as technology advances. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR § 124.5.

C. BIOSOLIDS/SEWAGE SLUDGE REQUIREMENTS

1. The biosolids/sewage sludge disposal practices shall comply with the Federal regulations for landfills, biosolids/sewage sludge, and solid waste disposal established at 40 CFR Parts 257, 503, and the DEQ rules governing Sludge Management (OAC 252:515 and OAC 252:606) as applicable.
2. The biosolids/sewage sludge disposal shall also comply with the requirements of Landfill permit number 3514015, approved by DEQ on December 10, 1999, that allows the permittee to landfill biosolids/sewage sludge at sites located in Section 21, Township 8 North, Range 2 West, IM, Cleveland County, Oklahoma.
3. The permittee is required to maintain all records relevant to biosolids/sewage sludge disposal for the life of the permit. These records shall be made available to DEQ upon request.
4. The permittee shall give 120 days prior notice to DEQ of any change planned in the biosolids/sewage sludge disposal practice.
5. The permittee shall also comply with all applicable biosolids/sewage sludge requirements in Part IV of this permit.

D. POLLUTION PREVENTION REQUIREMENTS

1. The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing program) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:
 - a. The influent loadings, flow and design capacity;
 - b. The effluent quality and plant performance;
 - c. The age and expected life of the wastewater treatment facility's equipment;
 - d. Bypasses and overflows of the tributary sewerage system and treatment works;
 - e. New developments at the facility;
 - f. Operator certification and training plans and status;
 - g. The financial status of the facility;
 - h. Preventative maintenance programs and equipment conditions; and
 - i. An overall evaluation of conditions at the facility.

2. The permittee shall prepare the following information on the biosolids/sewage sludge generated by the facility:
- a. An annual quantitative tabulation of the ultimate disposition of all biosolids/sewage sludge (including, but not limited to, the amount beneficially reused, landfilled, and incinerated).
 - b. An assessment of technological processes and an economic analysis evaluating the potential for beneficial reuse of all biosolids/sewage sludge not currently beneficially reused including a listing of any steps which would be required to achieve the biosolids/sewage sludge quality necessary to beneficially reuse the biosolids/sewage sludge.
 - c. A description of, including the expected results and the anticipated timing for, all projects in process, in planning and/or being considered which are directed towards additional beneficial reuse of biosolids/sewage sludge.
 - d. An analysis of one composite sample of the biosolids/sewage sludge collected prior to ultimate re-use or disposal shall be performed for the pollutants listed in Part IV, Element 1, Section III, Table 3 of the permit.
 - e. A listing of the specific steps (controls/changes) which would be necessary to achieve and sustain the quality of the biosolids/sewage sludge so that the pollutant concentrations in the biosolids/sewage sludge fall below the pollutant concentration criteria listed in Part IV, Element 1, Section III, Table 3 of the permit.
 - f. A listing of, and the anticipated timing for, all projects in process, in planning, and/or being considered which are directed towards meeting the biosolids/sewage sludge quality referenced in (e) above.

The permittee shall certify in writing, within three years of the effective date of the permit, that all pertinent information is available. This certification shall be submitted to:

Oklahoma Department of Environmental Quality
Water Quality Division
Municipal Discharge and Stormwater Permits Section
P. O. Box 1677
707 North Robinson Ave
Oklahoma City, Oklahoma 73101-1677

FACT SHEET

FOR THE DRAFT AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES
UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM.

DEQ Permit Number: OK0031755

State ID Number: S20651

Applicant: Noble Utility Authority
 (Noble Northside Wastewater Treatment Plant)
 P.O. Box 557
 Noble, OK 73068

Issuing Office: Oklahoma Department of Environmental Quality
 Water Quality Division
 707 North Robinson Ave
 P.O. Box 1677
 Oklahoma City, Oklahoma 73101-1677

Prepared By: Ismat Esrar, P.E
 Municipal Discharge and Stormwater Permit Section
 Water Quality Division

Date Prepared: April 14, 2020

Reviewed By: Michael B. Moe, P.E., Manager
 Municipal Discharge and Stormwater Permit Section
 Water Quality Division

Karen Steele, P.E. Engineering Manager
Wastewater Group
Water Quality Division

The Oklahoma Department of Environmental Quality (DEQ) has made a tentative determination to issue a permit for the discharge described in the application. DEQ is the permitting authority and this permit will be enforceable under both Federal and State laws, rules and regulations. Permit requirements are based on National Pollutant Discharge Elimination System (NPDES) regulations (40 CFR Parts 122, 124, and 403) and the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, Title 27A O.S., § 2-6-201 *et seq.* and the rules of the DEQ adopted thereunder (see the Oklahoma Administrative Code (OAC) 252:606).

I. PERMITTING BACKGROUND

A. CHRONOLOGY OF PERMITTING ACTIVITIES

The following is a chronology of permitting activities since issuance of the previous OPDES permit:

Month Date, Year:	Draft permit package sent to applicant for courtesy review and for public notice.
Month Date, Year:	Site visit conducted.
March 30, 2020:	Administrative review of permit application completed.
March 17, 2020:	Additional information received from applicant.
March 6, 2020:	Notice of incomplete application sent to applicant.
February 26, 2020:	Certification of public notice of filing of application received.
February 6, 2020:	OPDES permit application (Form 2M2) received.
August 17, 2015:	Previous OPDES permit issued.

B. PROPOSED PERMITTING ACTION

It is proposed that Permit No. OK0031755, which was effective September 1, 2015 and expires August 31, 2020, for which application for renewal was timely submitted prior to permit expiration, be reissued for a five-year term in accordance with regulations promulgated at 40 CFR § 122.46(a) and OAC 252:606-1-3(b).

II. APPLICANT ACTIVITY

A. DESCRIPTION AND LOCATION OF FACILITY

The facility is located in the SE¼, NW¼, SE¼, Section 21, Township 8 North, Range 2 West, Indian Meridian (IM), Cleveland County, Oklahoma or at 712 W Etowah, Noble, OK 73068 (one mile West of Etowah Road). Under standard industrial classification (SIC) Code 4952, the facility provides biological treatment of domestic sewage.

B. WASTEWATER GENERATION AND TREATMENT

1. Treatment Plant

The facility's design average daily flow is 0.76 million gallons per day (mgd) which is the same design average daily flow specified in the Oklahoma Water Quality Management Plan (WQMP). The wastewater received at this Publicly Owned Treatment Works (POTW) consists of domestic sewage. Biological treatment of the waste stream takes place using 4 extended aeration basins and 2 secondary clarifiers. The disinfection is provided by a UV system and the effluent is carried approximately 0.75 miles by a 16 inch pipe from the treatment plant to the receiving stream.

2. Industrial Contributions

The facility does not receive industrial wastewaters.

3. Reclaimed Water for Water Reuse

The facility does not supply reclaimed water for water reuse.

III. DISCHARGE LOCATION

Sampling Point and Outfall Location

Sampling Point and Outfall	Location			Receiving Stream
	Legal Description	Latitude	Longitude	
Sampling Point	SE¼, NW¼, SE¼ Section 21, Township 8 North, Range 2 West, IM, Cleveland County, Oklahoma	35° 08' 56.349" N (GPS: NAD83) ^a	97° 24' 39.539" W (GPS: NAD83) ^a	At the Parshall Flume
Outfall 001	SE¼, SE¼, NE¼ Section 28, Township 8 North, Range 2 West, IM, Cleveland County, Oklahoma	35° 08' 21.411" N (GPS: NAD83) ^a	95° 53' 30.689" W (GPS: NAD83) ^a	Canadian River

^a The North American Datum of 1983 or NAD83.

IV. TECHNOLOGY-BASED EFFLUENT LIMITATIONS AND CONDITIONS

POTWs treating domestic sewage are required by 40 CFR Part 133 to provide secondary or secondary-equivalent treatment. The Oklahoma definition of secondary treatment, which sets minimum requirements for developing wasteload allocations for municipalities in the WQMP, is defined at OAC 252:606-5-2(2). The definitions are dependent on the type of treatment system and whether the receiving stream flow is perennial or intermittent. Since the facility is a mechanical system discharging to a perennial stream, secondary treatment is defined according to OAC 252:606-5-2(2)(B) as indicated below:

Mechanical – Perennial

- 5-day Biochemical Oxygen Demand (BOD₅)
 A monthly average concentration of 30 mg/L
 A weekly average concentration of 45 mg/L
- Total Suspended Solids (TSS)
 A monthly average concentration of 30 mg/L
 A weekly average concentration of 45 mg/L
- pH
 A pH range between 6.5 and 9.0 standard unit, inclusive.

V. EFFLUENT LIMITATIONS AND CONDITIONS

A. RECEIVING STREAM DESIGNATED USES AND ANTIDegradation PROVISIONS

The facility discharges through Outfall 001 to the Canadian River, water body (WB) ID# 520610010010_05) in stream segment 520610 of the Canadian River Basin. As designated in

Appendix A of the Oklahoma Water Quality Standards (OWQS), the designated beneficial uses in this segment are:

- Public and Private Water Supplies (OAC 785:45-5-10)
- Fish and Wildlife Propagation (OAC 785:45-5-12)/Warm Water Aquatic Community
- Agriculture (OAC 785:45-5-13)
- Primary Body Contact Recreation (OAC 785:45-5-16)
- Aesthetics (OAC 785:45-5-19), and
- Fish Consumption (OAC 785:45-5-20).

The Canadian River is not designated as an Outstanding Resource Water (ORW), High Quality Water (HQW), or Sensitive Water Supply (SWS) in Appendix A of the OWQS. The stream segment 520610 is not listed in Table 1 of Appendix B of the OWQS as an area of ecological and/or recreational significance. However, this segment is listed in Table 2 of Appendix B of the OWQS as an area containing federally-listed endangered species in Table 2 of Appendix B of the OWQS. Since this is a permit renewal of an existing discharge and there is no proposed increase in flow, the reissuing of this permit is not likely to adversely impact the area stated in Table 2.

B. WATER QUALITY STANDARDS IMPLEMENTATION

1. DO and DO-Demanding Substances – Fish and Wildlife Propagation Use (Outfall 001)

OAC 785:45-5-12(f)(1) requires that where dissolved oxygen (DO)-demanding substances are present in an effluent at significant levels, a wasteload allocation (WLA) must be established according to certain seasonal criteria dependent on the receiving water’s aquatic community subcategory. In determining the WLA for DO-demanding substances, the prescribed level of secondary treatment for the facility (see Section IV) is modeled to determine if it meets the aforementioned seasonal criteria. If the model indicates that a more stringent WLA than secondary is required to meet these criteria, then the more stringent wasteload allocation (often referred to as a “tertiary” level of treatment) may be used once it is granted technical approval by EPA Region 6. It is then promulgated as an amendment to the State WQMP. The approved WLA for DO-demanding substances for this facility at a design flow of 0.76 mgd is shown in the following table:

DO-Based WLA

Season	WLA Parameters (in mg/L)		
	BOD ₅	TSS	DO (Minimum)
Spring (April 1 – May 31)	30	30	---
Summer (June 1 – October 31)	30	30	5.0
Winter (November 1 – March 31)	30	30	---

For purposes of establishing permit limitations for DO-demanding substances, the seasonal monthly average limit (MAL) in the draft permit for each effluent characteristic is set equal to the corresponding WLA concentration shown in the above table. The corresponding weekly average limit (WAL) is set equal to 1.5 times the seasonal WLA concentration in accordance with 40 CFR§ 122.45(d)(2).

2. pH – Fish and Wildlife Propagation Use (Outfall 001)

OAC 785:45-5-12(f)(3) states, "pH values shall be between 6.5 and 9.0 in waters designated for fish and wildlife propagation; unless pH values outside that range are due to natural conditions." This pH range is established in the draft permit.

3. Oil and Grease – Fish and Wildlife Propagation Use (Outfall 001)

In accordance with OAC 785:45-5-12(f)(4), a narrative condition prohibiting the discharge of any visible sheen or globules of oil or grease or in quantities that adhere to stream banks and coat bottoms of water courses or which cause deleterious effects to the biota will be included in the draft permit.

4. Bacterial Criteria

a. Bacteria Limitation – Primary Body Contact Recreation Use (Outfall 001)

- In accordance with OAC 252:690-3-86(a)(1), the draft permit will have a *E. coli* monthly average limit (MAL) of 126/100mL, expressed as a geometric mean, and a daily maximum limit (DML) of 406/100mL for streams, in effect for the "recreational period" of May 1 through September 30 to protect the primary body contact recreation (PBCR) beneficial use.
- Additionally, in accordance with OAC 252:690-3-86(b), from October 1 through April 30; *E. coli* monthly average limit of 630/100mL, expressed as a geometric mean, and the daily maximum limit of 2030/100mL for streams stated in OAC 252:690-3-86(c)(1) to protect secondary body contact recreation (SBCR) beneficial use shall apply to permittees that discharge to waterbodies that are impaired for bacteria.
- In accordance with OAC 252:690-3-89(a)(3), the draft permit will have a bacteria monitoring frequency of two per week during the months of May through September and once a week for the months of October through April to protect the PBCR beneficial use since the receiving stream is impaired for bacteria.

b. Total Coliform – Public and Private Water Supply Use (Outfall 001)

In accordance with OAC 252:690-3-78, total coliform criteria are applied where a discharge is within five miles upstream of a public water supply intake or within five miles of such an intake in a lake. A total coliform limit is not required because there is no water supply intake within five stream miles downstream of the point of discharge.

5. Toxicity from Halogenated Oxidants – Fish and Wildlife Propagation Use (Outfall 001)

This facility uses ultra-violet (UV) light system for disinfection rather than halogens. Therefore, a halogen limit is not required.

6. Floatable Solids and Foam – Aesthetics Use (Outfall 001)

In accordance with OAC 785:45-5-9(b), a narrative condition prohibiting the discharge of floating solids or visible foam in other than trace amounts will be included in the draft permit.

7. Pretreatment Program

DEQ has tentatively determined that the permittee is not required to develop a full pretreatment program.

8. Biosolids/Sewage Sludge Requirements

Biosolids/sewage sludge disposal practices shall comply with the Federal regulations for landfills, biosolids/sewage sludge, and solid waste disposal established at 40 CFR Parts 257, 503, and the DEQ rules governing Sludge Management (OAC 252:515 and OAC 252:606) as applicable.

The sludge disposal shall also comply with the requirements of Sludge Management Plan number 3514015, approved by DEQ on December 10, 1999 that allows the permittee to land apply biosolids/sewage sludge at a site located in Section 21, Township 8 North, Range 2 West, IM, Cleveland County, Oklahoma.

The permittee is required to maintain all records relevant to sewage biosolids/sewage sludge disposal for the life of the permit. These records shall be made available to DEQ upon request.

The permittee shall give 120 days prior notice to DEQ of any change planned in the biosolids/sewage sludge disposal practice.

C. 303(d) LIST ASSESSMENT

1. Water Quality Assessment and Causes of Impairment

The Category 5 303(d) list, in the Draft Appendix C of the 2018 and Appendix C of the 2016 Integrated Report, indicates that this stream segment of the Canadian River (WBID# 520610010010_05), to which the Noble Northside WWTP discharges, is impaired. The listed cause is *Enterococcus*. A Total Maximum Daily Load (TMDL) for bacteria for this stream segment of the Canadian River was completed in August 2008.

2. 303(d) List-Related Permitting Actions

Where impairments are listed, EPA Region 6 policy requires that the draft permit include water quality-based limits or a monitoring and reporting requirement for the listed pollutants if present in the discharge, and a re-opener clause as permit conditions. Therefore, the following permitting actions are taken according to the listed impairments:

As discussed in Section V.B.4, permit limits for *E. coli* during the PBCR season and SBCR season are established in the draft permit to control the discharge of bacteria in the receiving stream.

A re-opener clause is included in the permit to allow for modification and/or reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of State water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a revised TMDL is established for the receiving water(s). Modification and/or reissuance of the permit shall follow regulations listed in 40 CFR § 124.5.

D. ANTIDegradation Requirements

Because no antidegradation restrictions are listed in Appendix A of the OWQS for this water body, implementation of the State of Oklahoma antidegradation policy, as described at OAC 785:46,

Subchapter 13, states that no special requirements beyond Tier 1 protection (maintenance and protection of designated uses, as herein described) are necessary.

F. RE-OPENER CLAUSE

A re-opener clause is included in the permit.

VI. SUMMARY OF PROPOSED PERMIT EFFLUENT LIMITATIONS

A. GENERAL

In accordance with 40 CFR § 122.44(a), (d), and (l), pollutant limitations and monitoring requirements are established in the draft permit based on the WQMP (208 Plan) for this facility, water quality-based, or previous permit requirements. Per information provided in the permit application, the facility's design average daily flow is 0.76 mgd. Mass loading limitations are calculated using following equation:

$$\text{Mass loading limit (in lb/day)} = \text{Concentration limit (in mg/L)} \times Q_{(D)} \text{ (permitted flow in mgd)} \times 8.34$$

B. OUTFALL 001

1. Final Limitations

Final limits and reporting requirements are effective on the effective date of the permit:

i. Final Concentration Limitations and Reporting Requirements

Effluent Characteristic ^a		Water Quality Standards		Previous Permit		Draft Permit	
		Monthly Average	Weekly Average	Monthly Average	Weekly Average	Monthly Average	Weekly Average
BOD ₅	Year round	30	45	30	45	30	45
TSS	Year round	30	45	30	45	30	45
E. coli (MPN/100 mL)	May - Sep	126 ^b	406 ^c	---	---	126 ^b	406 ^c
	Oct - Apr	630 ^b	2030 ^c	630 ^b	2030 ^c	630 ^b	2030 ^c
DO	Jun - Oct	5.0 Minimum		5.0 Minimum		5.0 Minimum	
pH (standard unit)	Year round	6.5 to 9.0		6.5 to 9.0		6.5 to 9.0	

^a Units are mg/L, unless otherwise specified.

^b Geometric mean

^c Daily maximum

ii. Final Mass Loading Limitations and Reporting Requirements

Effluent Characteristic ^a		Water Quality Standards	Previous Permit	Draft Permit
		Monthly Average	Monthly Average	Monthly Average
Flow (mgd)	Year round	---	Report - monthly average and daily maximum	Report – monthly average and daily maximum
BOD ₅	Year round	190.1	190.1	190.1
TSS	Year round	190.1	190.1	190.1

^a Units are lb/day, unless otherwise specified.

iii. Final Monitoring Requirements and Sample Types

Effluent Characteristic		Previous Permit		Draft Permit	
		Measurement Frequency	Sample Type	Measurement Frequency	Sample Type
Flow	Year round	Daily	Totalized	Daily	Totalized
BOD ₅	Year round	3/month	3-hour composite	3/month	3-hour composite
TSS	Year round	3/month	3-hour composite	3/month	3-hour composite
<i>E. coli</i>	May – Sep	2/week ^a	Grab	2/week ^a	Grab
	Oct – Apr	1/week ^a	Grab	1/week ^a	Grab
DO ^a	Jun-Oct	Daily	Grab	Daily	Grab
pH	Year round	Daily	Grab	Daily	Grab

^a *E. coli* monitoring frequency is in accordance with OAC 252:690-3-89(a)(3).

VII. SUMMARY OF CHANGES FROM PREVIOUS PERMIT

No changes have been made in draft permit.

VIII. REVIEW BY OTHER AGENCIES AND FINAL DETERMINATION

A public notice which includes a link to the DEQ webpage where the draft permit may be viewed will be sent to various Federal and State agencies upon posting the draft permit in the DEQ webpage. If comments are reviewed from these agencies or other State or Federal agencies with jurisdiction over fish, wildlife, or public health, the permit may be denied or additional conditions may be included in accordance with regulations promulgated at 40 CFR § 124.59.

The public notice describes the procedures for the formulation of final determinations.