

STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102

January 25, 2022

Mr. Ward Plant, Chairman Benton-Decatur Special Sewer District 6017 Rockport McIllwain Holladay, TN 38341

Subject: Modified Draft of NPDES Permit No. TN0078042

Benton-Decatur Special Sewer District

Sugar Tree (Benton Co. location), Decatur County, Tennessee

Dear Chairman Plant:

Enclosed please find a draft copy of the NPDES Permit No. TN0078042, which the Division of Water Resources proposes to modify to include limits and conditions associated with chlorine disinfecting. This draft copy is furnished to you solely for your review of its provisions. No wastewater discharges are authorized by this draft permit. The issuance of this permit is contingent upon your meeting all of the requirements of the Tennessee Water Quality Control Act and the Rules and Regulations of the Tennessee Water Quality, Oil and Gas Board.

Also enclosed is a copy of the public notice that announces our intent to issue this permit. The notice affords the public an opportunity to review the draft permit and, if necessary, request a public hearing on this issuance process. If you disagree with the provisions and requirements contained in the draft permit, you have thirty (30) days from the date of this correspondence to notify the division of your objections. If your objections cannot be resolved, you may appeal this permit upon issuance. This appeal should be filed in accordance with Section 69-3-110 of the Tennessee Code Annotated.

If you have questions, please contact the Jackson Environmental Field Office at 1-888-891-TDEC; or, at this office, please contact Mr. Wade Murphy at (615) 532-0666 or by E-mail at *Wade.Murphy@tn.gov*.

Sincerely,

Wadel Muzzky/for

Vojin Janjić

Manager, Water-Based Systems

Enclosure

cc: Mr. Steve Hensley, WWTP Operator, stevehensley31@hotmail.com

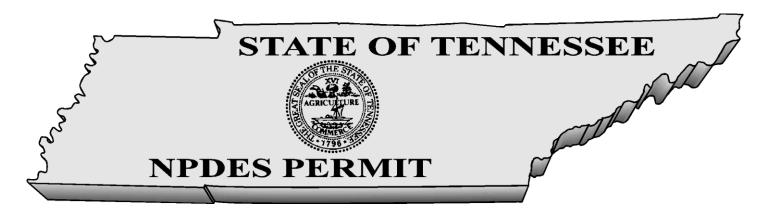
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TDEC-DWR-C&E Unit, cassi.savage@tn.gov

TDEC-DWR-Engineering Services Unit, timothy.hill@tn.gov

TDEC-DWR-SRF Unit, randy.anglin@tn.gov



MODIFICATION No. TN0078042

Authorization to discharge under the National Pollutant Discharge Elimination System (NPDES)

Issued By

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 <u>et seq.</u>) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, <u>et seq.</u>)

Discharger: Benton-Decatur Special Sewer District

is authorized to discharge: treated domestic wastewater from outfall 001

from a facility located: in Sugar Tree (Benton Co. location), Decatur County, Tennessee

to receiving waters named: Tennessee River at mile 117.8

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on:

This permit shall expire on: March 31, 2023

Issuance date:

DRAFT for Jennifer Dodd

for Jennifer Dodo Director

CN-0759 RDA 2366

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1.0. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1.1. NUMERIC AND NARRATIVE EFFLUENT LIMITATIONS

The Benton-Decatur Counties Special Sewer District (Benton Co. location) is authorized to discharge treated domestic wastewater from outfall 001 to the Tennessee River at mile 117.8. Discharge 001 consists of municipal wastewater from a treatment facility with a design capacity of 0.1 MGD. Discharge 001 shall be limited and monitored by the permittee as specified below:

Monitor	ring : All Weather						
Code	<u>Parameter</u>	Qualifier	<u>Value</u>	<u>Unit</u>	Sample Type	Monitoring Frequency	Statistical Base
51929	Bypass of Treatment Facility	Report	-	occur/mo	Occurrences	Continuous	Monthly Total
51929	Bypass of Treatment Facility	Report	-	gal/mo	Estimate	Continuous	Monthly Total
Monitoring : Dry Weather							
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
51925	SSO, Dry Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51925	SSO, Dry Weather	Report	-	occur/12 Mo Cumulative Total	Calculated	Continuous	Total
51925	SSO, Dry Weather	<=	0	occur/mo	Occurrences	Continuous	Monthly Total
51927	Release [Sewer], Dry Weather	Report	-	occur/mo	Occurrences	Continuous	Monthly Total
51927	Release [Sewer], Dry Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
Monito	ring : Wet Weather						
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
51926	SSO, Wet Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51926	SSO, Wet Weather	Report	-	occur/12 Mo Cumulative Total	Calculated	Continuous	Total
51926	SSO, Wet Weather	<=	0	occur/mo	Occurrences	Continuous	Monthly Total
51928	Release [Sewer], Wet Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51928	Release [Sewer], Wet Weather	Report	-	occur/mo	Occurrences	Continuous	Monthly Total

Code	Parameter	Qualifier	Value	<u>Unit</u>	Sample Type	Monitoring Frequency	Statistical Base
00300	Oxygen, dissolved (DO)	>=	1.0	mg/L	Grab	Weekly	Instantaneous Minimum
00400	рН	>=	6.0	SU	Grab	Weekly	Minimum
00400	рН	<=	9.0	SU	Grab	Weekly	Maximum
00530	Total Suspended Solids (TSS)	<=	40	mg/L	Grab	Weekly	Monthly Average
00530	Total Suspended Solids (TSS)	<=	33	lb/d	Grab	Weekly	Monthly Average
00530	Total Suspended Solids (TSS)	<=	60	mg/L	Grab	Weekly	Weekly Average
00530	Total Suspended Solids (TSS)	<=	50	lb/d	Grab	Weekly	Weekly Average
00530	Total Suspended Solids (TSS)	<=	80	mg/L	Grab	Weekly	Daily Maximum
00530	Total Suspended Solids (TSS)	<=	67	lb/d	Grab	Weekly	Daily Maximum
00545	Settleable Solids	<=	1.0	mL/L	Grab	Weekly	Daily Maximum
00600	Nitrogen, total (as N)	Report	-	lb/d	Grab	Quarterly	Daily Maximum
00600	Nitrogen, total (as N)	Report	-	mg/L	Grab	Quarterly	Daily Maximum
00665	Phosphorus, total (as P)	Report	-	lb/d	Grab	Quarterly	Daily Maximum
00665	Phosphorus, total (as P)	Report	-	mg/L	Grab	Quarterly	Daily Maximum
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Daily Maximum
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Monthly Average
50060	*Chlorine, total residual (TRC)	<=	*2.0	Mg/L	Grab	*Weekly	Daily Maximum
51040	*E. coli	<=	*487	#/100mL	Grab	*Weekly	Daily Maximum
51040	*E. coli	<=	*126	#/100mL	Grab	*Weekly	Monthly Geometric Mean
80082	CBOD, 5-day, 20 C	<=	25	mg/L	Grab	Weekly	Monthly Average
80082	CBOD, 5-day, 20 C	<=	21	lb/d	Grab	Weekly	Monthly Average
30082	CBOD, 5-day, 20 C	<=	35	mg/L	Grab	Weekly	Weekly Average
30082	CBOD, 5-day, 20 C	<=	29	lb/d	Grab	Weekly	Weekly Average
30082	CBOD, 5-day, 20 C	<=	40	mg/L	Grab	Weekly	Daily Maximum
30082	CBOD, 5-day, 20 C	<=	33	lb/d	Grab	Weekly	Daily Maximum
	Description : External O	utfall, Numb	per : 001	, Monitorii	ng : Percent Ro	emoval, Seas	on : All Year
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base

80358	CBOD, 5-day, 20 C, % removal	>=	65	%	Calculated	Weekly	Monthly Average Minimum
81011	TSS, % removal	Report	-	%	Calculated	Weekly	Monthly Average Minimum

	Description : External Outfall, Number : 001, Monitoring : Raw Sewage Influent, Season : All Year								
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base		
00530	Total Suspended Solids (TSS)	Report	-	mg/L	Grab	Weekly	Monthly Average		
00530	Total Suspended Solids (TSS)	Report	-	mg/L	Grab	Weekly	Daily Maximum		
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Monthly Average		
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Daily Maximum		
80082	CBOD, 5-day, 20 C	Report	-	mg/L	Grab	Weekly	Daily Maximum		
80082	CBOD, 5-day, 20 C	Report	-	mg/L	Grab	Weekly	Monthly Average		

*Total residual chlorine (TRC) and E. coli must be measured and reported after the chlorine contact time in the outfall line at the sampling port near the river. The chlorine limit and sampling port monitoring for TRC and E. coli will become effective the first day of the month following initiation of operation of the new disinfecting system.

Notes: The permittee shall achieve 65% removal of CBOD₅ on a monthly average basis. The permittee shall achieve the equivalent to secondary treatment standard for TSS % removal in 40 CFR 133.105 and 40 CRF 133.103(c) and shall report % removal of TSS (81011) on a monthly average basis. The permittee shall report all instances of releases, overflows and/or bypasses. See Part 2.3.3.a for the definition of overflow and Part 1.3.5.1 for reporting requirements.

Unless elsewhere specified, summer months are May through October; winter months are November through April.

See Part 1.2.3 for test procedures.

See Part 3.4 for biomonitoring test and reporting requirements. See next page for percent removal calculations.

Total residual chlorine (TRC) monitoring shall be applicable when chlorine, bromine, or any other oxidants are added. The acceptable methods for analysis of TRC are any methods specified in Title 40 CFR, Part 136 as amended. The method detection level (MDL) for TRC shall not exceed 0.05 mg/l unless the permittee demonstrates that its MDL is higher. The permittee shall retain the documentation that justifies the higher MDL and have it available for review upon request. In cases where the permit limit is less that the MDL, the reporting of TRC at less than the MDL shall be interpreted to constitute compliance with the permit.

Narrative Conditions

Active - Permit Requirement

The permittee or their designee (e.g. design consultant) shall notify the Division in writing of the initiation of operation date of the chlorine disinfecting system. The construction schedule is as determined by the design engineer and funding agency. The permittee shall begin complying with the chlorine limit beginning the first day of the month following the month in which initiation of operation occurs. The written notification shall be submitted to DWRWater.Compliance@tn.gov.

The wastewater discharge must be disinfected to the extent that viable coliform organisms are effectively eliminated. The concentration of the *E. coli* group after disinfection shall not exceed 126 cfu per 100 ml as the geometric mean calculated on the actual number of samples collected and tested for *E. coli* within the required reporting period. The permittee may collect more samples than specified as the monitoring frequency. Samples may not be collected at intervals of less than 12 hours. For the purpose of determining the geometric mean, individual samples having an *E. coli* group concentration of less than one (1) per 100 ml shall be considered as having a concentration of one (1) per 100 ml. In addition, the concentration of the *E. coli* group in any individual sample shall not exceed a specified maximum amount. A maximum daily limit of 487 colonies per 100 ml applies to lakes and exceptional Tennessee waters. A maximum daily limit of 941 colonies per 100 ml applies to all other recreational waters.

There shall be no distinctly visible floating scum, oil or other matter contained in the wastewater discharge. The wastewater discharge must not cause an objectionable color contrast in the receiving stream.

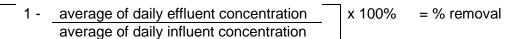
The wastewater discharge shall not contain pollutants in quantities that will be hazardous or otherwise detrimental to humans, livestock, wildlife, plant life, or fish and aquatic life in the receiving stream.

Sludge or any other material removed by any treatment works must be disposed of in a manner that prevents its entrance into or pollution of any surface or subsurface waters. Additionally, the disposal of such sludge or other material must be in compliance with the Tennessee Solid Waste Disposal Act, TCA 68-31-101 et seq. and the Tennessee Hazardous Waste Management Act, TCA 68-46-101 et seq.

Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act. (40 C.F.R. 125.98(b)(1)).

For the purpose of evaluating compliance with the permit limits established herein, where certain limits are below the State of Tennessee published required detection levels (RDLs) for any given effluent characteristics, the results of analyses below the RDL shall be reported as Below Detection Level (BDL), unless in specific cases other detection limits are demonstrated to be the best achievable because of the particular nature of the wastewater being analyzed.

For CBOD₅ the treatment facility shall demonstrate a minimum of 65% removal efficiency on a monthly average basis. This is calculated by determining an average of all daily influent concentrations and comparing this to an average of all daily effluent concentrations. The formula for this calculation is as follows:



1.2. MONITORING PROCEDURES

1.2.1. Representative Sampling

Samples and measurements taken in compliance with the monitoring requirements specified herein shall be representative of the volume and nature of the monitored discharge, and shall be taken after treatment and prior to mixing with uncontaminated storm water runoff or the receiving stream. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than plus or minus 10% from the true discharge rates throughout the range of expected discharge volumes.

Samples and measurements taken in compliance with the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge, and shall be taken at the following location(s):

Influent samples must be collected prior to mixing with any other wastewater being returned to the head of the plant, such as sludge return. Those systems with more than one influent line must collect samples from each and proportion the results by the flow from each line.

Effluent samples must be representative of the wastewater being discharged and collected prior to mixing with any other discharge or the receiving stream. This can be a different point for different parameters, but must be after all treatment for that parameter or all expected change:

- a. The chlorine residual must be measured after the chlorine contact chamber and any dechlorination. It may be to the advantage of the permittee to measure at the end of any long outfall lines.
- b. Samples for *E. coli* can be collected at any point between disinfection and the actual discharge.
- c. The dissolved oxygen can drop in the outfall line; therefore, D.O. measurements are required at the discharge end of outfall lines greater than one mile long. Systems with outfall lines less than one mile may measure dissolved oxygen as the wastewater leaves the treatment facility. For systems with dechlorination, dissolved oxygen must be measured after this step and as close to the end of the outfall line as possible.
- d. Total suspended solids and settleable solids can be collected at any point after the final clarifier.
- e. Biomonitoring tests (if required) shall be conducted on final effluent.

1.2.2. Sampling Frequency

Where the permit requires sampling and monitoring of a particular effluent characteristic(s) at a frequency of less than once per day or daily, the permittee is precluded from marking the "No Discharge" block on the Discharge Monitoring Report if there has been any discharge from that particular outfall during the period which coincides with the required monitoring frequency; i.e. if the required monitoring frequency is once per month or 1/month, the monitoring period is one month, and if the discharge occurs during only one day in that period then the permittee must sample on that day and report the results of analyses accordingly.

1.2.3. Test Procedures

- a. Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304 (h) of the Clean Water Act (the "Act"), as amended, under which such procedures may be required.
- b. Unless otherwise noted in the permit, all pollutant parameters shall be determined according to methods prescribed in Title 40, CFR, Part 136, as amended, promulgated pursuant to Section 304 (h) of the Act.
- c. Composite samples must be proportioned by flow at time of sampling. Aliquots may be collected manually or automatically. The sample aliquots must be maintained at ≤ 6 degrees Celsius during the compositing period.
- d. In instances where permit limits established through implementation of applicable water criteria are below analytical capabilities, compliance with those limits will be determined using the detection limits described in the TN Rules, Chapter 0400-40-03-.05(8).

1.2.4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling;
- b. The exact person(s) collecting samples;
- c. The dates and times the analyses were performed;
- d. The person(s) or laboratory who performed the analyses;
- e. The analytical techniques or methods used, and;
- f. The results of all required analyses.

1.2.5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation shall be retained for a minimum of three (3) years, or longer, if requested by the Division of Water Resources.

1.3. REPORTING

1.3.1. Monitoring Results

Monitoring results shall be recorded monthly and submitted monthly using NetDMR. Submittals shall be no later than 15 days after the completion of the reporting period. If NetDMR is not functioning, a completed DMR with an original signature shall be submitted to the following address:

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
COMPLIANCE & ENFORCEMENT SECTION
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville. Tennessee 37243-1102

If NetDMR is not functioning, a copy of the completed and signed DMR shall be mailed to the Jackson Environmental Field Office (EFO) at the following address:

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
Jackson Environmental Field Office
1625 Hollywood Drive
Jackson, Tennessee 38305

In addition, any communication regarding compliance with the conditions of this permit must be sent to the two offices listed above.

The first DMR is due on the 15th of the month following permit effectiveness.

DMRs and any other information or report must be signed and certified by a responsible corporate officer as defined in 40 CFR 122.22, a general partner or proprietor, or a principal municipal executive officer or ranking elected official, or his duly authorized representative. Such authorization must be submitted in writing and must explain the duties and responsibilities of the authorized representative.

For purposes of determining compliance with this permit, data provided to the division electronically is legally equivalent to data submitted on signed and certified DMR forms.

1.3.2. Additional Monitoring by Permittee

If the permittee monitors any pollutant specifically limited by this permit more frequently than required at the location(s) designated, using approved analytical methods as specified herein, the results of such monitoring shall be included in the calculation and reporting of the values required in the DMR form. Such increased frequency shall also be indicated on the form.

1.3.3. Falsifying Results and/or Reports

Knowingly making any false statement on any report required by this permit or falsifying any result may result in the imposition of criminal penalties as provided for in Section 309 of the Federal Water Pollution Control Act, as amended, and in Section 69-3-115 of the Tennessee Water Quality Control Act.

1.3.4. Monthly Report of Operation

Monthly operational reports shall be submitted on standard forms to the appropriate Division of Water Resources Environmental Field Office in Jackson, Nashville, Chattanooga, Columbia, Cookeville, Memphis, Johnson City, or Knoxville. Reports shall be submitted by the 15th day of the month following data collection.

1.3.5. Bypass, Release and Overflow Reporting

1.3.5.1. Report Requirements

A summary report of known instances of sanitary sewer overflows, releases, and bypasses shall accompany the Discharge Monitoring Report (DMR). The report must contain the date(s), estimated duration in hours, estimated quantity of wastewater in gallons, and if applicable, the receiving stream for each instance of sanitary sewer overflow, release, or bypass. For each sanitary sewer overflow and release, the report shall identify (using the permittee's naming conventions) the next downstream pump station. For each sanitary sewer overflow, the report shall also identify whether it was a dry weather overflow.

The report must also detail activities undertaken during the reporting period to correct the reported sanitary sewer overflows and releases.

On the DMR, the permittee must separately report: the total number of sanitary sewer overflows for the reporting month and the cumulative total for the previous 12 months; the total number of dry-weather overflows for the reporting month and the cumulative total for the previous 12 months; the total number of releases for the reporting month; and the total number of bypasses for the reporting month. On the DMR, sanitary sewer overflows are coded "SSO, Dry Weather and SSO, Wet Weather" and releases are coded "Release [Sewer], Dry Weather and Release [Sewer], Wet Weather." Estimated total monthly volume for each type of event will be reported as gallons per month. Each release due to improper operation or maintenance shall be reported as such. Each discrete location of a sanitary sewer overflow or a release shall be reported as a separate value. A sanitary sewer overflow or release occurring at one location over a

period of up to 24 hours shall be reported as one occurrence. A sanitary sewer overflow or release occurring at one location over a period more than 24 hours shall be reported as the appropriate number of occurrences.¹

1.3.5.2. Anticipated Bypass Notification

If, because of unavoidable maintenance or construction, the permittee has need to create an in-plant bypass which would cause an effluent violation, the permittee must notify the division as soon as possible, but in any case, no later than 10 days prior to the date of the bypass.

1.3.6. Reporting Less Than Detection; Reporting Significant Figures

A permit limit may be less than the accepted detection level. If the samples are below the detection level, then report "BDL" or "NODI =B" on the DMRs. The permittee must use the correct detection levels in all analytical testing required in the permit. The required detection levels are listed in the Rules of the Department of Environment and Conservation, Division of Water Resources, Chapter 0400-40-03-.05(8).

For example, if the limit is 0.02 mg/l with a detection level of 0.05 mg/l and detection is shown; 0.05 mg/l must be reported. In contrast, if nothing is detected reporting "BDL" or "NODI =B" is acceptable.

Reported results are to correspond to the number of significant figures (decimal places) set forth in the permit conditions. The permittee shall round values, if allowed by the method of sample analysis, using a uniform rounding convention adopted by the permittee.

1.4. COMPLIANCE WITH SECTION 208

The limits and conditions in this permit shall require compliance with an area-wide waste treatment plan (208 Water Quality Management Plan) where such approved plan is applicable.

1.5. REOPENER CLAUSE

This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 307(a)(2) and 405(d)(2)(D) of the Clean Water Act, as amended, if the effluent standard, limitation or sludge disposal requirement so issued or approved:

¹ For example, if a sanitary sewer overflow discharges continuously from 1 pm until 3 am the following morning, the event shall be reported as a single violation. Similarly, if the same sanitary sewer overflow discharges intermittently for the same time period, it should be reported as one violation. By contrast, if the same sanitary sewer overflow did not end until 3 pm two days later, it should be reported as three violations.

- a. Contains different conditions or is otherwise more stringent than any condition in the permit; or
- b. Controls any pollutant or disposal method not addressed in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

1.6. SCHEDULE OF COMPLIANCE

Full compliance and operational levels shall be attained from the effective date of this permit.

2.0. GENERAL PERMIT REQUIREMENTS

2.1. GENERAL PROVISIONS

2.1.1. Duty to Reapply

Permittee is not authorized to discharge after the expiration date of this permit. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information and forms as are required to the Director of the Division of Water Resources (the "director") no later than 180 days prior to the expiration date. Such forms shall be properly signed and certified.

2.1.2. Right of Entry

The permittee shall allow the director, the Regional Administrator of the U.S. Environmental Protection Agency, or their authorized representatives, upon the presentation of credentials:

- To enter upon the permittee's premises where an effluent source is located or where records are required to be kept under the terms and conditions of this permit, and at reasonable times to copy these records;
- b. To inspect at reasonable times any monitoring equipment or method or any collection, treatment, pollution management, or discharge facilities required under this permit; and
- c. To sample at reasonable times any discharge of pollutants.

2.1.3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Federal Water Pollution Control Act, as amended, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Water Resources. As required by the Federal Act, effluent data shall not be considered confidential.

2.1.4. Proper Operation and Maintenance

a. The permittee shall at all times properly operate and maintain all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory and process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is

necessary to achieve compliance with the conditions of the permit. Backup continuous pH and flow monitoring equipment are not required.

b. Dilution water shall not be added to comply with effluent requirements to achieve BCT, BPT, BAT and or other technology based effluent limitations such as those in State of Tennessee Rule 0400-40-05-.09.

2.1.5. Treatment Facility Failure (Industrial Sources)

The permittee, in order to maintain compliance with this permit, shall control production, all discharges, or both, upon reduction, loss, or failure of the treatment facility, until the facility is restored or an alternative method of treatment is provided. This requirement applies in such situations as the reduction, loss, or failure of the primary source of power.

2.1.6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

2.1.7. Severability

The provisions of this permit are severable. If any provision of this permit due to any circumstance, is held invalid, then the application of such provision to other circumstances and to the remainder of this permit shall not be affected thereby.

2.1.8. Other Information

If the permittee becomes aware of failure to submit any relevant facts in a permit application, or of submission of incorrect information in a permit application or in any report to the director, then the permittee shall promptly submit such facts or information.

2.2. CHANGES AFFECTING THE PERMIT

2.2.1. Planned Changes

The permittee shall give notice to the director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants, which are

subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1).

2.2.2. Permit Modification, Revocation, or Termination

- a. This permit may be modified, revoked and reissued, or terminated for cause as described in 40 CFR 122.62 and 122.64, Federal Register, Volume 49, No. 188 (Wednesday, September 26, 1984), as amended.
- b. The permittee shall furnish to the director, within a reasonable time, any information which the director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the director, upon request, copies of records required to be kept by this permit.
- c. If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established for any toxic pollutant under Section 307(a) of the Federal Water Pollution Control Act, as amended, the director shall modify or revoke and reissue the permit to conform to the prohibition or to the effluent standard, providing that the effluent standard is more stringent than the limitation in the permit on the toxic pollutant. The permittee shall comply with these effluent standards or prohibitions within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified or revoked and reissued to incorporate the requirement.
- d. The filing of a request by the permittee for a modification, revocation, reissuance, termination, or notification of planned changes or anticipated noncompliance does not halt any permit condition.

2.2.3. Change of Ownership

This permit may be transferred to another party (provided there are neither modifications to the facility or its operations, nor any other changes which might affect the permit limits and conditions contained in the permit) by the permittee if:

- a. The permittee notifies the director of the proposed transfer at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage, and liability between them; and
- c. The director, within 30 days, does not notify the current permittee and the new permittee of his intent to modify, revoke or reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

Pursuant to the requirements of 40 CFR 122.61, concerning transfer of ownership, the permittee must provide the following information to the division in their formal notice of

intent to transfer ownership: 1) the NPDES permit number of the subject permit; 2) the effective date of the proposed transfer; 3) the name and address of the transferor; 4) the name and address of the transferee; 5) the names of the responsible parties for both the transferor and transferee; 6) a statement that the transferee assumes responsibility for the subject NPDES permit; 7) a statement that the transferor relinquishes responsibility for the subject NPDES permit; 8) the signatures of the responsible parties for both the transferor and transferee pursuant to the requirements of 40 CFR 122.22(a), "Signatories to permit applications"; and, 9) a statement regarding any proposed modifications to the facility, its operations, or any other changes which might affect the permit limits and conditions contained in the permit.

2.2.4. Change of Mailing Address

The permittee shall promptly provide to the director written notice of any change of mailing address. In the absence of such notice the original address of the permittee will be assumed to be correct.

2.3. NONCOMPLIANCE

2.3.1. Effect of Noncompliance

All discharges shall be consistent with the terms and conditions of this permit. Any permit noncompliance constitutes a violation of applicable state and federal laws and is grounds for enforcement action, permit termination, permit modification, or denial of permit reissuance.

2.3.2. Reporting of Noncompliance

a. 24-Hour Reporting

In the case of any noncompliance which could cause a threat to public drinking supplies, or any other discharge which could constitute a threat to human health or the environment, the required notice of non-compliance shall be provided to the Division of Water Resources in the appropriate Environmental Field Office within 24-hours from the time the permittee becomes aware of the circumstances. (The Environmental Field Office should be contacted for names and phone numbers of environmental response team).

A written submission must be provided within five days of the time the permittee becomes aware of the circumstances unless the director on a case-by-case basis waives this requirement. The permittee shall provide the director with the following information:

- i. A description of the discharge and cause of noncompliance;
- ii. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and

iii. The steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.

b. Scheduled Reporting

For instances of noncompliance which are not reported under subparagraph 2.3.2.a above, the permittee shall report the noncompliance on the Discharge Monitoring Report. The report shall contain all information concerning the steps taken, or planned, to reduce, eliminate, and prevent recurrence of the violation and the anticipated time the violation is expected to continue.

2.3.3. Overflow

- a. Sanitary sewer overflows, including dry-weather overflows, are prohibited.
- b. The permittee shall operate the collection system so as to avoid sanitary sewer overflows and releases due to improper operation or maintenance. A "release" may be due to improper operation or maintenance of the collection system or may be due to other cause(s). Releases caused by improper operation or maintenance of the permittee's collection and transmission system are prohibited.
- c. The permittee shall take all reasonable steps to minimize any adverse impact associated with releases.
- d. No new or additional flows shall be added upstream of any point in the collection or transmission system that experiences greater than 5 sanitary sewer overflows or releases (greater than 5 events per year)² or would otherwise overload any portion of the system. Unless there is specific enforcement action to the contrary, the permittee is relieved of this requirement after: 1) an authorized representative of the Commissioner of the Department of Environment and Conservation has approved an engineering report and construction plans and specifications prepared in accordance with accepted engineering practices for correction of the problem; 2) the correction work is underway; and 3) the cumulative, peak-design, flows potentially added from new connections and line extensions upstream of any chronic overflow or release point are less than or proportional to the amount of inflow and infiltration removal documented upstream of that point. The inflow and infiltration reduction must be measured by the permittee using practices that are customary in the environmental engineering field and reported in an attachment to a Monthly Operating Report submitted to the local TDEC Environmental Field Office. The data measurement period shall be sufficient to account for seasonal rainfall patterns and seasonal groundwater table elevations.
- e. In the event that chronic sanitary sewer overflows or releases have occurred from a single point in the collection system for reasons that may not warrant the

² When determining if a location experiences chronic sanitary sewer overflows or releases the term "event(s)" includes dry weather overflows, wet weather overflows, dry weather releases and wet weather releases.

self-imposed moratorium of the actions identified in this paragraph, the permittee may request a meeting with the Division of Water Resources EFO staff to petition for a waiver based on mitigating evidence.

2.3.4. Upset

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being operated in a prudent and workman-like manner and in compliance with proper operation and maintenance procedures;
 - iii. The permittee submitted information required under "Reporting of Noncompliance" within 24-hours of becoming aware of the upset (if this information is provided orally, a written submission must be provided within five days); and
 - iv. The permittee complied with any remedial measures required under "Adverse Impact."

2.3.5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the waters of Tennessee resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2.3.6. **Bypass**

a. "Bypass" is the intentional diversion of waste streams from any portion of a treatment facility. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

- b. Bypasses are prohibited unless all of the following 3 conditions are met:
 - i. The bypass is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii. There are no feasible alternatives to bypass, such as the construction and use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass, which occurred during normal periods of equipment downtime or preventative maintenance;
 - iii. The permittee submits notice of an unanticipated bypass to the Division of Water Resources in the appropriate Environmental Field Office within 24 hours of becoming aware of the bypass (if this information is provided orally, a written submission must be provided within five days). When the need for the bypass is foreseeable, prior notification shall be submitted to the director, if possible, at least 10 days before the date of the bypass.
- c. Bypasses not exceeding permit limitations are allowed **only** if the bypass is necessary for essential maintenance to assure efficient operation. All other bypasses are prohibited. Allowable bypasses not exceeding limitations are not subject to the reporting requirements of 2.3.6.b.iii, above.

2.3.7. Washout

- a. For domestic wastewater plants only, a "washout" shall be defined as loss of Mixed Liquor Suspended Solids (MLSS) of 30.00% or more. This refers to the MLSS in the aeration basin(s) only. This does not include MLSS decrease due to solids wasting to the sludge disposal system. A washout can be caused by improper operation or from peak flows due to infiltration and inflow.
- b. A washout is prohibited. If a washout occurs the permittee must report the incident to the Division of Water Resources in the appropriate Environmental Field Office within 24 hours by telephone. A written submission must be provided within five days. The washout must be noted on the discharge monitoring report. Each day of a washout is a separate violation.

2.4. LIABILITIES

2.4.1. Civil and Criminal Liability

Except as provided in permit conditions for "*Bypassing*," "*Overflow*," and "*Upset*," nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Notwithstanding this permit, the permittee shall remain liable for any damages sustained by the State of Tennessee, including but not limited

to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge of wastewater to any surface or subsurface waters. Additionally, notwithstanding this Permit, it shall be the responsibility of the permittee to conduct its wastewater treatment and/or discharge activities in a manner such that public or private nuisances or health hazards will not be created.

2.4.2. Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or the Federal Water Pollution Control Act, as amended.

3.0. PERMIT SPECIFIC REQUIREMENTS

3.1. CERTIFIED OPERATOR

The waste treatment facilities shall be operated under the supervision of a certified wastewater treatment operator and the collection system shall be operated under the supervision of a certified collection system operator in accordance with the Water Environmental Health Act of 1984.

3.2. POTW PRETREATMENT PROGRAM GENERAL PROVISIONS

As an update of information previously submitted to the division, the permittee will undertake the following activity.

a. The permittee shall submit the results of an Industrial Waste Survey (IWS) in accordance with 40 CFR 403.8(f)(2)(i), including any industrial users (IU) covered under Section 301(i)(2) of the Act. As much information as possible must be obtained relative to the character and volume of pollutants contributed to the POTW by the IUs. This information will be submitted to the Division of Water Resources, Pretreatment Section within one hundred twenty (120) days of the effective date of this permit, unless such a survey has been submitted within 3 years of the effective date. Development of a pretreatment program may be required after completion of the industrial user review. All requirements and conditions of the pretreatment program are enforceable through the NPDES permit.

Specific prohibitions. Under no circumstances shall the permittee allow introduction of the following wastes in the waste treatment system:

- i. Pollutants which create a fire or explosion hazard in the POTW;
- ii. Pollutants which will cause corrosive structural damage to the treatment works, but in no case discharges with pH less than 5.0 unless the system is specifically designed to accept such discharges.
- iii. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the treatment system resulting in interference.
- iv. Any pollutant, including oxygen-demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the treatment works.
- v. Heat in amounts which will inhibit biological activity in the treatment works resulting in interference, but in no case heat in such quantities that the temperature at the treatment works exceeds 40°C (104°F) unless the works are designed to accommodate such heat.

- vi. Any priority pollutant in amounts that will contaminate the treatment works sludge.
- vii. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
- viii. 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;
- ix. Any trucked or hauled pollutants except at discharge points designated by the POTW.
- c. The permittee shall notify the Tennessee Division of Water Resources of any of the following changes in user discharge to the system no later than 30 days prior to change of discharge:
 - i. New introductions into such works of pollutants from any source which would be a new source as defined in Section 306 of the Act if such source were discharging pollutants.
 - ii. New introductions of pollutants into such works from a source which would be subject to Section 301 of the "Federal Water Quality Act as Amended" if it were discharging such pollutants.
 - iii. A substantial change in volume or character of pollutants being introduced into such works by a source already discharging pollutants into such works at the time the permit is issued.

This notice will include information on the quantity and quality of the wastewater introduced by the new source into the publicly owned treatment works, and on any anticipated impact on the effluent discharged from such works. If this discharge necessitates a revision of the current NPDES permit or pass-through guidelines, discharge by this source is prohibited until the Tennessee Division of Water Resources gives final authorization.

3.3. BIOSOLIDS MANAGEMENT PRACTICES

All sludge and/or biosolids use or disposal must comply with 40 CFR 503 <u>et seq.</u> Biosolids shall be sampled and analyzed at a frequency dependent on the amount used annually.

Any facility that land applies non-exceptional quality biosolids must obtain an appropriate permit from the division in accordance with Chapter 0400-40-15.

- a. Reopener: If an applicable "acceptable management practice" or numerical limitation for pollutants in sewage sludge promulgated under Section 405(d)(2) of the Clean Water Act, as amended by the Water Quality Act of 1987, is more stringent than the sludge pollutant limit or acceptable management practice in this permit, or controls a pollutant not limited in this permit, this permit shall be promptly modified or revoked and reissued to conform to the requirements promulgated under Section 405(d)(2). The permittee shall comply with the limitations by no later than the compliance deadline specified in the applicable regulations as required by Section 405(d)(2) of the Clean Water Act.
- b. Notice of change in sludge disposal practice: The permittee shall give prior notice to the director of any change planned in the permittee's sludge disposal practice.

Division of Solid Waste Management						
Office	Location	Zip Code	Phone No.			
Chattanooga	1301 Riverfront Parkway, Suite 206	37402	(423) 634-5745			
Jackson	1625 Hollywood Drive	38305	(731) 512-1300			
Cookeville	1221 South Willow Avenue	38506	(931) 520-6688			
Columbia	1421 Hampshire Pike	38401	(931) 380-3371			
Johnson City	2305 Silverdale Road	37601	(423) 854-5400			
Knoxville	3711 Middlebrook Pike	37921	(865) 594-6035			
Memphis 8383 Wolf Lake Drive, Bartlett		38133	(901) 371-3000			
Nashville	711 R.S. Gass Boulevard	37216	(615) 687-7000			

3.4. PLACEMENT OF SIGNS

Within sixty (60) days of the effective date of this permit, the permittee shall place and maintain a sign at each overflow/release point in the collection system. For the purposes of this requirement, any point that has had a total of five (5) or more overflows plus releases in the last year must be so posted. The sign(s) should be clearly visible to the public from the bank and the receiving stream. The minimum sign size should be two feet by two feet (2' x 2') with one-inch (1") letters. The sign should be made of durable material and have a white background with black letters.

The sign(s) are to provide notice to the public as to the nature of the discharge and, in the case of the permitted outfalls, that the discharge is regulated by the Tennessee Department of Environment and Conservation, Division of Water Resources. The

following is given as an example of the minimal amount of information that must be included on the sign:

Permitted CSO or unpermitted release/overflow point:

UNTREATED WASTEWATER DISCHARGE POINT Benton-Decatur Counties Special Sewer District

(731) 549-4442
NPDES Permit NO. TN0078042
TENNESSEE DIVISION OF WATER RESOURCES
1-888-891-8332 ENVIRONMENTAL FIELD OFFICE - Jackson

NPDES Permitted Municipal/Sanitary Outfall:

TREATED MUNICIPAL/SANITARY WASTEWATER Benton-Decatur Counties Special Sewer District

(731) 549-4442
NPDES Permit NO. TN0078042
TENNESSEE DIVISION OF WATER RESOURCES
1-888-891-8332 ENVIRONMENTAL FIELD OFFICE - Jackson

No later than sixty (60) days from the effective date of this permit, the permittee shall have the above sign(s) on display in the location specified.

3.5. ANTIDEGRADATION

Pursuant to the Rules of the Tennessee Department of Environment and Conservation, Chapter 0400-40-03-.06, titled "Tennessee Antidegradation Statement," which prohibits the degradation of exceptional Tennessee waters and the increased discharges of substances that cause or contribute to impairment, the permittee shall further be required, pursuant to the terms and conditions of this permit, to comply with the effluent limitations and schedules of compliance required to implement applicable water quality standards, to comply with a State Water Quality Plan or other state or federal laws or regulations, or where practicable, to comply with a standard permitting no discharge of pollutants.

4.0. DEFINITIONS AND ACRONYMS

4.1. **DEFINITIONS**

"**Biosolids**" are treated sewage sludge that have contaminant concentrations less than or equal to the contaminant concentrations listed in Table 1 of subparagraph (3)(b) of Rule 0400-40-15-.02, meet any one of the ten vector attraction reduction options listed in part (4)(b)1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 of Rule 0400-40-15-.04, and meet either one of the six pathogen reduction alternatives for Class A listed in part (3)(a)3, 4, 5, 6, 7, or 8, or one of the three pathogen reduction alternatives for Class B listed in part (3)(b)2, 3, or 4 of Rule 0400- 40-15-.04.

A "*bypass*" is defined as the intentional diversion of waste streams from any portion of a treatment facility.

A "*calendar day*" is defined as the 24-hour period from midnight to midnight or any other 24-hour period that reasonably approximates the midnight to midnight time period.

A "composite sample" is a combination of not less than 8 influent or effluent portions, of at least 100 ml, collected over a 24-hour period. Under certain circumstances a lesser time period may be allowed, but in no case, less than 8 hours.

The "daily maximum concentration" is a limitation on the average concentration in units of mass per volume (e.g. milligrams per liter), of the discharge during any calendar day. When a proportional-to-flow composite sampling device is used, the daily concentration is the concentration of that 24-hour composite; when other sampling means are used, the daily concentration is the arithmetic mean of the concentrations of equal volume samples collected during any calendar day or sampling period.

"*Discharge*" or "discharge of a pollutant" refers to the addition of pollutants to waters from a source.

A "*dry weather overflow*" is a type of sanitary sewer overflow and is defined as one day or any portion of a day in which unpermitted discharge of wastewater from the collection or treatment system other than through the permitted outfall occurs and is not directly related to a rainfall event. Discharges from more than one point within a 24-hour period shall be counted as separate overflows.

"Degradation" means the alteration of the properties of waters by the addition of pollutants, withdrawal of water, or removal of habitat, except those alterations of a short duration.

"De Minimis" - Degradation of a small magnitude, as provided in this paragraph.

(a) Discharges and withdrawals

- 1. Subject to the limitation in part 3 of this subparagraph, a single discharge other than those from new domestic wastewater sources will be considered de minimis if it uses less than five percent of the available assimilative capacity for the substance being discharged.
- 2. Subject to the limitation in part 3 of this subparagraph, a single water withdrawal will be considered de minimis if it removes less than five percent of the 7Q10 flow of the stream.
- 3. If more than one activity described in part 1 or 2 of this subparagraph has been authorized in a segment and the total of the authorized and proposed impacts uses no more than 10% of the assimilative capacity, or 7Q10 low flow, they are presumed to be de minimis. Where the total of the authorized and proposed impacts uses 10% of the assimilative capacity, or 7Q10 low flow, additional degradation may only be treated as de minimis if the Division finds on a scientific basis that the additional degradation has an insignificant effect on the resource.
- (b) Habitat alterations authorized by an Aquatic Resource Alteration Permit (ARAP) are de minimis if the Division finds that the impacts, individually and cumulatively are offset by impact minimization and/or in-system mitigation, provided however, in ONRWs the mitigation must occur within the ONRW.

An "ecoregion" is a relatively homogeneous area defined by similarity of climate, landform, soil, potential natural vegetation, hydrology, or other ecologically relevant variables.

The "*geometric mean*" of any set of values is the nth root of the product of the individual values where "n" is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For the purposes of calculating the geometric mean, values of zero (0) shall be considered to be one (1).

A "grab sample" is a single influent or effluent sample collected at a particular time.

The "*instantaneous maximum concentration*" is a limitation on the concentration, in milligrams per liter, of any pollutant contained in the wastewater discharge determined from a grab sample taken from the discharge at any point in time.

The "*instantaneous minimum concentration*" is the minimum allowable concentration, in milligrams per liter, of a pollutant parameter contained in the wastewater discharge determined from a grab sample taken from the discharge at any point in time.

The "monthly average amount", shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.

The "monthly average concentration", other than for *E. coli* bacteria, is the arithmetic mean of all the composite or grab samples collected in a one-calendar month period.

A "one week period" (or "calendar-week") is defined as the period from Sunday through Saturday. For reporting purposes, a calendar week that contains a change of month shall be considered part of the latter month.

"Pollutant" means sewage, industrial wastes, or other wastes.

A "*quarter*" is defined as any one of the following three-month periods: January 1 through March 31, April 1 through June 30, July 1 through September 30, and/or October 1 through December 31.

A "rainfall event" is defined as any occurrence of rain, preceded by 10 hours without precipitation that results in an accumulation of 0.01 inches or more. Instances of rainfall occurring within 10 hours of each other will be considered a single rainfall event.

A "*rationale*" (or "fact sheet") is a document that is prepared when drafting an NPDES permit or permit action. It provides the technical, regulatory and administrative basis for an agency's permit decision.

A "*reference site*" means least impacted waters within an ecoregion that have been monitored to establish a baseline to which alterations of other waters can be compared.

A "*reference condition*" is a parameter-specific set of data from regional reference sites that establish the statistical range of values for that particular substance at least-impacted streams.

A "**release**" is the flow of sewage from any portion of the collection or transmission system owned or operated by the permittee other than through permitted outfalls that does not add pollutants to waters. In addition, a "release" includes a backup into a building or private property that is caused by blockages, flow conditions, or other malfunctions originating in the collection and transmission system owned or operated by the permittee. A "release" does not include backups into a building or private property caused by blockages or other malfunctions originating in a private lateral.

A "sanitary sewer overflow (SSO)" is defined as an unpermitted discharge of wastewater from the collection or treatment system other than through the permitted outfall.

"Sewage" means water-carried waste or discharges from human beings or animals, from residences, public or private buildings, or industrial establishments, or boats, together with such other wastes and ground, surface, storm, or other water as may be present.

"Severe property damage" when used to consider the allowance of a bypass or SSO means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass or

SSO. Severe property damage does not mean economic loss caused by delays in production.

"Sewerage system" means the conduits, sewers, and all devices and appurtenances by means of which sewage and other waste is collected, pumped, treated, or disposed.

"Sludge" or "sewage sludge" is solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works.

A "subecoregion" is a smaller, more homogenous area that has been delineated within an ecoregion.

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

The term, "washout" is applicable to activated sludge plants and is defined as loss of mixed liquor suspended solids (MLSS) of 30.00% or more from the aeration basin(s).

"Waters" means any and all water, public or private, on or beneath the surface of the ground, which are contained within, flow through, or border upon Tennessee or any portion thereof except those bodies of water confined to and retained within the limits of private property in single ownership which do not combine or effect a junction with natural surface or underground waters.

The "weekly average amount", shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar week when the measurements were made.

The "weekly average concentration", is the arithmetic mean of all the composite samples collected in a one-week period. The permittee must report the highest weekly average in the one-month period.

4.2. ACRONYMNS AND ABBREVIATIONS

1Q10 – 1-day minimum, 10-year recurrence interval

30Q20 – 30-day minimum, 20-year recurrence interval

7Q10 – 7-day minimum, 10-year recurrence interval

BAT – best available technology economically achievable

BCT – best conventional pollutant control technology

BDL - below detection level

BOD₅ – five day biochemical oxygen demand

BPT – best practicable control technology currently available

CBOD₅ – five day carbonaceous biochemical oxygen demand

CEI - compliance evaluation inspection

CFR - code of federal regulations

CFS - cubic feet per second

CFU - colony forming units

CIU – categorical industrial user

CSO - combined sewer overflow

DMR – discharge monitoring report

D.O. - dissolved oxygen

E. coli - Escherichia coli

EFO - environmental field office

LB(lb) - pound

IC₂₅ – inhibition concentration causing 25% reduction in survival, reproduction and growth of the test organisms

IU - industrial user

IWS – industrial waste survey

LC₅₀ – acute test causing 50% lethality

MDL – method detection level

MGD - million gallons per day

MG/L(mg/l) – milligrams per liter

ML - minimum level of quantification

ml - milliliter

MLSS – mixed liquor suspended solids

MOR – monthly operating report

NODI – no discharge

NPDES – national pollutant discharge elimination system

PL – permit limit

POTW - publicly owned treatment works

RDL - required detection limit

SAR – semi-annual [pretreatment program] report

SIU - significant industrial user

SSO – sanitary sewer overflow

STP – sewage treatment plant

TCA – Tennessee code annotated

TDEC – Tennessee Department of Environment and Conservation

TIE/TRE – toxicity identification evaluation/toxicity reduction evaluation

TMDL - total maximum daily load

TRC - total residual chlorine

TSS - total suspended solids

WQBEL - water quality based effluent limit

MODIFICATION RATIONALE

Benton-Decatur Special Sewer District NPDES Permit No. TN0078042 Date: 1/25/2022

Permit Writer: Wade Murphy

Sodium Hypochlorite (Chlorine Bleach) Disinfecting

This modification includes an effluent limit and monitoring and reporting conditions for total residual chlorine (TRC). On May 6, 2019, Division staff conducted a compliance evaluation inspection (CEI). The inspection resulted in a notice of violation (NOV) dated May 9, 2019, for E. coli violations related to an unreliable power source to the ultraviolet disinfecting sytem. The NOV required the permittee to submit a corrective action plan (CAP).

The permittee made arrangements for funding treatment plant upgrades to address the inadequate treatment. On July 8, 2020, the permittee's design consultants presented in a preliminary project discussion with the Division including representatives of the Division's State Revolving Fund program. On December 29, 2020, Hethcoat & Davis Engineers submitted a preliminary engineering report evaluating alternatives and selecting three-phase power upgrades, a portable generator and sodium hypochlorite disinfecting among other collection system improvements. The division approved the engineering report as WPN #20.0754R on December 21, 2021.

The modified permit includes a total residual chlorine limit on Page 2 of the permit as well as a requirement on Page 3 for total residual chlorine and the resulting E. coli be measured at the sampling port in the outfall line near the river discharge point. The planned design of this disinfection system will utilize the long outfall line as a chlorine-contact chamber. Therefore sampling must be at the sampling port in the outfall line in order to demonstrate successful disinfecting. The permit proposes a sampling frequency of weekly to coincide with existing sampling frequency. The permit includes a narrative condition on Page 3 requiring the permittee to notify the Division in writing of the date of initiation of operation of the new disinfecting system.

The total residual chlorine (TRC) limit is derived using the mass balance formula and the EPA acute instream protection value of 0.019 mg/L for fish and aquatic life. Applying this formula yields the following calculation for the TRC daily maximum limit:

$$\frac{0.019\,(Qd+Qs)}{Qd} = Limit\,(mg/L) = \frac{0.019(0.1+3,878)}{0.1} = 737\,mg/L \approx 2.0\,mg/L$$

Where:

0.019 mg/L acute instream protection value

3,878 = 0.1 = Qs – 1Q10 flow of receiving stream (MGD)

Qd – design flow of STP (MGD)

However, when water quality is not the limiting factor due to the large dilution afforded by the receiving stream, an effluent concentration of 2.0 mg/L shall not be exceeded as an operational control of treatment facilities. This calculation shows that the effluent limit of 2.0 mg/L, based on good operational practices, is more stringent than the calculated water quality-based effluent limit. Therefore, the 2.0 mg/L limit applies.

Allowing only a 50% waste allocation for the river, the allowable 737 mg/L becomes 368 mg/L of which 5% is 18.4 mg/L. Therefore, 2.0 mg/L will be a de minimis loading.

RATIONALE

Benton-Decatur Counties Special Sewer District NPDES Permit No. TN0078042 Date: 08/08/2018

Permit Writer: Jack Beach

1. FACILITY INFORMATION

Benton-Decatur Counties Special Sewer District
Mr. Russel Keeton - President
Sugar Tree (Benton Co. location), Decatur County, Tennessee
(731) 549-4442

Treatment Plant Average Design Flow: 0.1 MGD Percentage Industrial Flow: Zero%

Treatment Description: Dual Power Multicellular Lagoon
Certified Operator Grades: STP: BNS; CS: NA; Date Rated: 04/27/2018

2. RECEIVING STREAM INFORMATION

Tennessee River at mile 117.8

Watershed Group: Tennessee Western Valley-Beech

Hydrocode: 6040001

Low Flow: 1Q10 = 3,878 MGD (6,000 CFS)

Low Flow Reference:

USGS Water-Resource Investigation Report 95-4293

Station #03593500

Water Quality Designation: Exceptional Tennessee Water

Stream Classification Categories:

Domestic Wtr Supply	Industrial	Fish & Aquatic	Recreation
X	X	X	Х
Livestock Wtr & Wlife	Irrigation	Navigation	
X	X		

Water Quality Assessment: Fully supporting

3. CURRENT PERMIT STATUS

Permit Type:	Municipal
Classification:	Minor
Issuance Date:	1-Apr-13
Expiration Date:	31-Mar-18
Effective Date:	1-May-13

4. NEW PERMIT LIMITATIONS AND COMPLIANCE SCHEDULE SUMMARY

a. The division imposes an *E. coli* limit on discharges of treated sewage for the protection of recreational use of the stream in lieu of the fecal coliform limit. Additionally, total nitrogen and total phosphorus quarterly influent and effluent monitoring have been added to this permit (See section 6.3). Appendix 3 shows these limits in more detail.

b. Compliance Schedule Summary

Description of Report to be Submitted	Reference Section in Permit
Monthly Discharge Monitoring Reports	1.3.1
Monthly Operational Reports	1.3.4
Monthly Bypass and Overflow Summary Report	1.3.5.1
Industrial Waste Survey Report within 120 days of the effective permit date	3.2.a
Technical review of the need to recalculate local limits within 120 days of the permit effective date	3.2.a

c. For comparison, this rationale contains a table depicting the previous permit limits and effluent monitoring requirements in Appendix 1.

5. PREVIOUS PERMIT DISCHARGE MONITORING REPORT REVIEW

A review of the DMR summary from May 31, 2013 – December 31, 2017, is located in Appendix 2.

6. PROPOSED EFFLUENT LIMITS AND RATIONALE

PARAMETERS	MONTHLY AVERAGE CONCENTRATION (MG/L)	MONTHLY AVERAGE AMOUNT (LB/DAY)	WEEKLY AVERAGE CONCENTRATION (MG/L)	WEEKLY AVERAGE AMOUNT (LB/DAY)	DAILY MAXIMUM CONCENTRATION (MG/L)	DAILY MINIMUM PERCENT REMOVAL	RATIONALE
CBOD₅	25	21	35	29	40	33	D.O. protection, Refer to 6.1 below (or) T.C.A. 0400-40-0509 (for CBOD ₅)
Total Suspended Solids	40	33	60	50	80	67	T.C.A. 0400-40-0509
Dissolved Oxygen (mg/l)	1.0 (daily minimum) instantaneous	_	_	_	_	_	D.O. protection, Refer to 6.1 below
E. coli (colonies/100ml)	126/100 ml	_	_	_	487/100	_	T.C.A. 0400-40-0303, Refer to 6.4 below
Settleable Solids (ml/l)					1.0 (daily maximum)		T.C.A. 0400-40-0509
pH (standard units)	6.0-9.0		_				T.C.A. 0400-40-0303
Flow (MGD):							
Influent	Report	_	_		Report		Used to quantify pollutant load
Effluent	Report	_			Report		Used to quantify pollutant load
Sanitary Sewer Overflows, Total Occurrences			Report				Refer to 6.5 below
Dry Weather Overfl	Dry Weather Overflows, Total Occurrences			Rej	Refer to 6.5 below		
Bypass of Treatmer	nt, Total Occurrences	·		Rej	oort		Refer to 6.5 below

Note: Weekly limitations on $BOD_5/CBOD_5$ and TSS concentrations are given as required per 40 CFR 133.105(a)(2) or 133.105(e)(1)(ii) & 133.105(b)(2) respectively; daily $BOD_5/CBOD_5$ and TSS limitations are authorized by T.C.A. 0400-40-05-.09; monthly, weekly, and daily mass loads are limited per 40 CFR 122.45(f) and based on the design flow as per 40 CFR 122.45(b); monthly average percent removal rates for $BOD_5/CBOD_5$ are required per 40 CFR 133.105(a)(3) and 133.105(e)(1)(iii). Monthly average percent removals for TSS are established per 40 CFR 133.105 (b)(3) and 133.103(c).

6.1. CBOD₅, DISSOLVED OXYGEN, AND PERCENT REMOVALS REQUIREMENTS

a. Biochemical oxygen demand, or BOD, is a measure of the oxygen used when biological processes break down organic pollutants in wastewater. The amount of oxygen used is more specifically referred to as the five-day biochemical oxygen demand, or BOD5. This parameter is used in the wastewater industry to measure both the strength of wastewater and the performance of wastewater treatment processes. Under favorable operating conditions, the reduction of ammonia to nitrates also exerts an oxygen demand. The five day carbonaceous biochemical oxygen demand, or CBOD5, is the oxygen demand of organics measured via a test that inhibits the demand of nitrification. A lagoon environment may be conducive to nitrification during certain seasons. Therefore, this permit imposes limits on CBOD5 for the purpose of consistency in oxygen demand results.

Limits on the oxygen demand remaining in the treated wastewater is often necessary to prevent pollutants in the wastewater from driving oxygen in the receiving stream down below the levels necessary to support fish and aquatic life. However, due to the large dilution available in the receiving stream, the monthly average CBOD5 limit of 25 mg/l is a technology-based effluent limit for conventional secondary treatment plants (0400-04-05-.09). Less stringent technology-based BOD5/CBOD5 limits established for waste stabilization ponds are too lax for this lagoon design utilizing mechanical aeration.

The limits for TSS are technology-based effluent limits established as equivalent to secondary for waste stabilization ponds in 40 CFR 133.105 and in conjunction with design information in the permit application. These limits are appropriate to lagoons of all designs since lagoons experience thermal turnover and algae growth both of which can affect the effluent TSS values.

The dissolved oxygen effluent limitation of 1.0 mg/l is a practical limit achievable by the facility rather than a water-quality based limit necessary to protect fish and aquatic life. A minimum oxygen level of 1.0 mg/l is necessary in a lagoon treatment system to prevent nuisance conditions associated with anaerobic conditions

- b. The treatment facility is required to remove 65% of the CBOD₅ that enter the facility on a monthly basis. This is part of the minimum requirement for all municipal treatment facilities contained in <u>Code of Federal Regulations</u> 40 Part 133.102. The reasons stated by the U.S.E.P.A. for these requirements are to achieve these two basic objectives:
 - (1) To encourage municipalities to correct excessive inflow and infiltration (I/I) problems in their sanitary sewer systems, and
 - (2) To help prevent intentional dilution of the influent wastewater as a means of meeting permit limits.

6.2. DISINFECTION

The effluent is disinfected via ultraviolet radiation.

6.3. TOTAL NITROGEN AND TOTAL PHOSPHORUS MONITORING/REPORTING

Nutrients are naturally occurring and essential components of healthy aquatic systems. Excessive amounts of nutrients, however, can impact water quality. The enrichment of a waterbody with nutrients, called eutrophication, can result in dense, rapidly multiplying growths, or blooms, of algal species and other nuisance aquatic plants. These have potential for negatively impacting the habitat for fish and aquatic life and degrading the water quality for drinking water supply and recreation uses. These impacts can present both locally from an individual activity and much further downstream from the cumulative impact of multiple activities. The division has therefore developed and begun to implement a strategy to accomplish long-term nutrient reduction in Tennessee waters. The document referred to as the Tennessee Nutrient Reduction Framework (NRF), contains proposed rationale and the methodology for implementing the strategy within a watershed area. Consequently, the framework considers impacts from both point and non-point sources of nutrients and potentially recommends reduction goals for both point and non-point sources. The NRF approach to nutrient reduction is intended to utilize an adaptive management approach in consideration of the facts presenting within a watershed and reevaluation of the effectiveness of progress being made. Regular reassessments of goals and action plans will be conducted by reviewing monitoring data, modeling results and other measures of success. As additional data becomes available (such as WWTP effluent characterization and instream water quality data), model results can be reevaluated. Therefore, for purposes of implementing this strategy, the division is imposing a minimum of quarterly effluent characterization for total nitrogen and total phosphorus on all discharges of treated domestic wastewater. These values will be used to reevaluate the nutrient loads from discharges within a watershed over time for comparison with those loads from non-point sources. The framework may be reviewed on the division's webpage at

http://www.tn.gov/environment/article/wr-ws-tennessee-nutrient-reduction-framework.

6.4. E. COLI REQUIREMENTS

Disinfection of wastewater is required to protect the receiving stream from pathogenic microorganisms. Fecal coliform and *E. coli* are indicator organisms used as a measure of bacteriological health of a receiving stream and the effectiveness of disinfection.

As of September 30, 2004, the criterion for fecal coliform has been removed from the State's Water Quality Standards. Thus, the division imposes an *E. coli* limit on discharges of treated sewage for the protection of recreational use of the stream in lieu of the fecal coliform limit. The *E. coli* daily maximum limit of 487 colonies per 100 ml applies to lakes and exceptional Tennessee waters.

6.5. OVERFLOW (SANITARY SEWER AND DRY-WEATHER), RELEASE AND BYPASS REPORTING

For the purposes of demonstrating proper operation of the collection, transmission and treatment system, the permit treats releases separately from overflows and bypass. State regulations at 0400-40-05-.07(2) establish "standard conditions." These standard conditions include 0400-40-05-.07(2)(n) that sets forth specific language prohibiting sanitary sewer overflows (defined in the regulations as a "discharge") and standard conditions in 0400-40-05-.07(2)(I) and (m) pertaining to bypass. While the regulations prohibit sanitary sewer overflow (i.e., discharges that reach receiving waters) it does not prohibit "releases" that do not reach receiving waters. However, releases that do not reach receiving waters may be indicative of other problems, such as improper operation and maintenance of the sewer system. Whether another violation occurs or whether, for example, there is an unavoidable accident (see, e.g., § 69-3-114(a)), will involve case-specific evaluations. Regardless, the permit assures. without waiving rights to pursue other violations associated with a release, as applicable, that the permittee would, at a minimum be reporting and responding to releases. Any release potentially warrants permittee mitigation of human health risks via direct or indirect contact and demonstrates a hydraulic problem in the system that warrants permittee consideration as part of proper operation and maintenance of the system.

When determining if a location experiences chronic sanitary sewer overflows or releases the term "event(s)" includes dry weather overflows, wet weather overflows, dry weather releases and wet weather releases.

7. OTHER PERMIT REQUIREMENTS AND CONDITIONS

7.1. CERTIFIED WASTEWATER TREATMENT OPERATOR

The waste treatment facilities shall be operated under the supervision of a Biological/Natural (BNS) certified wastewater treatment operator in accordance with the Water Environmental Health Act of 1984. Operator grades are under jurisdiction of the Water and Wastewater Operators Certification Board. This NPDES permit is under jurisdiction of the Tennessee Board of Water Quality, Oil and Gas. Operator grades are rated and recommended by the Division of Water Resources pursuant to Rule 0400-49-01 (formerly 1200-05-03) and are included in this fact sheet for reference. The grades are intentionally not specified in the permit so that the operation certification board can authorize changes in grade without conflicting with this permit.

7.2. COLLECTION SYSTEM CERTIFIED OPERATOR

The collection system shall be operated under the supervision of a certified operator in accordance with the Water Environmental Health Act of 1984. A biological/natural system classification with less than fifteen (15) service connections does not require a separate operator certification. Therefore, it is listed as 'NA' in the facility information section on page R-1 of the rationale.

7.3. PRETREATMENT PROGRAM

The Benton-Decatur Counties Special Sewer District has received an exemption from development of a pretreatment program due to the lack of any significant industrial users. To keep the exemption, the Benton-Decatur Counties Special Sewer District must complete an updated Industrial Waste Survey within 120 days of the effective date of the permit, unless such a survey has been submitted within 3 years of the effective date. The Benton-Decatur Counties Special Sewer District must notify the division immediately of its intent to connect a significant industrial user to the sewage system.

7.4. BIOSOLIDS MANAGEMENT PRACTICES

The Clean Water Act (CWA) requires that any NPDES permit issued to a publicly owned treatment works or any other treatment works treating domestic sewage shall comply with 40 CFR Part 503, the federal regulation governing the use and disposal of sewage sludge. It is important to note that "biosolids" are sewage sludge that have been treated to a level so that they can be land applied.

The language in subpart 3.3 of the permit, relative to biosolids management, a CWA requirement, allows the "permitting authority" under 40 CFR Part 503.9(p) to be able to enforce the provisions of Part 503. The "permitting authority" relative to Part 503 is either a state that has been delegated biosolids management authority or the applicable EPA Region; in the case of Tennessee it is EPA-Region 4.

Tennessee regulates the land application of non-exceptional quality biosolids under state rules, Chapter 0400-40-15. The state rules became effective on June 30, 2013. Under these state rules, all facilities that land apply non-exceptional quality biosolids must obtain a biosolids permit from the division. The land application of non-exceptional quality biosolids under state rules is regulated through either a general permit or by an individual permit. Questions about the division's biosolids regulations and permitting program should be directed to the State Biosolids Coordinator at:

State of Tennessee
Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102
(615) 532-0625

7.5. PERMIT TERM

This permit is being reissued for 5 years in order to coordinate its reissuance with other permits located within the Tennessee Western Valley-Beech Watershed.

7.6. ELECTRONIC REPORTING

Monitoring results shall be recorded monthly and submitted monthly using Discharge Monitoring Reports (DMRs) based on the effluent limits in Section 1.1 of the permit. DMRs and DMR attachments, including laboratory data and overflow reports, shall be submitted electronically in NetDMR, or other electronic reporting tool approved by the State, no later than the 15th of the month following the end of the monitoring period. All NPDES program reports must be signed and certified by a responsible official or a duly authorized representative, as defined in 40 CFR 122.22.

The NPDES Electronic Reporting Rule, which became effective on December 21, 2016, replaces most paper-based reporting requirements with electronic reporting requirements. NetDMR allows NPDES permittees to submit DMRs electronically to EPA through a secure internet application and has been approved by Tennessee as the official electronic reporting tool for DMRs.

According to 40 CFR 127.15, states have the flexibility to grant temporary or episodic waivers from electronic reporting to NPDES permittees who are unable to meet the electronic reporting requirements. To obtain an electronic reporting waiver, an electronic reporting waiver request must be submitted by email to DWRwater.compliance@tn.gov or by mail to the following address:

Division of Water Resources Compliance and Enforcement Unit William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, TN 37243

For contact and training information about NetDMR electronic reporting, visit TDEC's website at http://tn.gov/environment/topic/wr-netdmr-and-electronic-reporting.

8. ANTIDEGRADATION STATEMENT/WATER QUALITY STATUS

Tennessee's Antidegradation Statement is found in the Rules of the Tennessee Department of Environment and Conservation, Chapter 0400-40-03-.06. It is the purpose of Tennessee's standards to fully protect existing uses of all surface waters as established under the Act.

Stream determinations for this permit action are associated with the waterbody segment identified by the division as segment ID# **TN06040001001_1000**.

The Department has made a determination of the receiving waters associated with the subject discharge(s) and has found the (stream or river) to be an exceptional Tennessee water. No permanent degradation of water quality will be allowed unless

Benton-Decatur Counties Special Sewer District (Rationale) NPDES Permit TN0078042 Page R-9 of R-18

the applicant demonstrates to the Department that the degradation is for necessary economic or social development and will not interfere with or become injurious to any existing uses. The specific requirements for this demonstration are described in the Rules of the Tennessee Department of Environment and Conservation, Chapter 0400-40-03-.06(4).

No TMDLs have been developed and approved for this waterbody segment.

APPENDIX 1 PREVIOUS PERMIT LIMITS

Monito	ring : All Weather						
<u>Code</u>	<u>Parameter</u>	Qualifier	<u>Value</u>	<u>Unit</u>	Sample Type	Monitoring Frequency	Statistical Base
51929	Bypass of Treatment Facility	Report	-	occur/mo	Occurrences	Continuous	Monthly Total
51929	Bypass of Treatment Facility	Report	-	gal/mo	Estimate	Continuous	Monthly Total
Monito	ring : Dry Weather						
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
51925	SSO, Dry Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51925	SSO, Dry Weather	Report	-	occur/12 Mo Cumulative Total	Calculated	Continuous	Total
51925	SSO, Dry Weather	<=	0	occur/mo	Occurrences	Continuous	Monthly Total
51927	Release [Sewer], Dry Weather	Report	-	occur/mo	Occurrences	Continuous	Monthly Total
51927	Release [Sewer], Dry Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
Monito	ring : Wet Weather						
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
51926	SSO, Wet Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51926	SSO, Wet Weather	Report	-	occur/12 Mo Cumulative Total	Calculated	Continuous	Total
51926	SSO, Wet Weather	<=	0	occur/mo	Occurrences	Continuous	Monthly Total
51928	Release [Sewer], Wet Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51928	Release [Sewer], Wet Weather	Report	-	occur/mo	Occurrences	Continuous	Monthly Total

Descrip	otion : External Outfall, Number : 0	01, Monito	oring:	Effluent G	ross, Season :	: All Year	
Code	<u>Parameter</u>	Qualifier	<u>Value</u>	<u>Unit</u>	Sample Type	Monitoring Frequency	Statistical Base
00300	Oxygen, dissolved (DO)	>=	1.0	mg/L	Grab	Weekly	Instantaneous Minimum
00400	рН	>=	6.0	SU	Grab	Weekly	Minimum
00400	рН	<=	9.0	SU	Grab	Weekly	Maximum
00530	Total Suspended Solids (TSS)	<=	40	mg/L	Grab	Weekly	Monthly Average
00530	Total Suspended Solids (TSS)	<=	67	lb/d	Grab	Weekly	Daily Maximum

00530	Total Suspended Solids (TSS)	<=	60	mg/L	Grab	Weekly	Weekly Average
00530	Total Suspended Solids (TSS)	<=	33	lb/d	Grab	Weekly	Monthly Average
00530	Total Suspended Solids (TSS)	<=	80	mg/L	Grab	Weekly	Daily Maximum
00530	Total Suspended Solids (TSS)	<=	50	lb/d	Grab	Weekly	Weekly Average
00545	Settleable Solids	<=	1.0	mL/L	Grab	Weekly	Daily Maximum
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Daily Maximum
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Monthly Average
51040	E. coli	<=	487	#/100mL	Grab	Weekly	Daily Maximum
51040	E. coli	<=	126	#/100mL	Grab	Weekly	Monthly Geometric Mean
80082	CBOD, 5-day, 20 C	<=	29	lb/d	Grab	Weekly	Weekly Average
80082	CBOD, 5-day, 20 C	<=	35	mg/L	Grab	Weekly	Weekly Average
80082	CBOD, 5-day, 20 C	<=	40	mg/L	Grab	Weekly	Daily Maximum
80082	CBOD, 5-day, 20 C	<=	21	lb/d	Grab	Weekly	Monthly Average
80082	CBOD, 5-day, 20 C	<=	25	mg/L	Grab	Weekly	Monthly Average
80082	CBOD, 5-day, 20 C	<=	33	lb/d	Grab	Weekly	Daily Maximum

Description : External Outfall, Number : 001, Monitoring : Percent Removal, Season : All Year

Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
80358	CBOD, 5-day, 20 C, % removal	>=	65	%	Calculated	Weekly	Monthly Average Minimum
81011	TSS, % removal	Report	-	%	Calculated	Weekly	Monthly Average Minimum

Description: External Outfall, Number: 001, Monitoring: Raw Sewage Influent, Season: All Year

Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
00530	Total Suspended Solids (TSS)	Report	-	mg/L	Grab	Weekly	Monthly Average
00530	Total Suspended Solids (TSS)	Report	-	mg/L	Grab	Weekly	Daily Maximum
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Monthly Average
50050	Flow	Report	-	Mgal/d	Continuous	Daily	Daily Maximum
80082	CBOD, 5-day, 20 C	Report	-	mg/L	Grab	Weekly	Daily Maximum
80082	CBOD, 5-day, 20 C	Report	-	mg/L	Grab	Weekly	Monthly Average

APPENDIX 2 Discharge Monitoring Report Summary

													1							
OUTFALL 0	001																			
MONITORIN	NG: EFFL	LUENT GR	ross																	
Parameter	DO	р	Н	TSS	TSS	TSS	TSS	TSS	TSS	Settleable Solids	Flow	Flow	E. coli	E. coli	CBOD, 5-day, 20 C					
Monitoring Frequency	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Daily	Daily	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
Unit	mg/L	SU	SU	mg/L	lb/d	mg/L	lb/d	mg/L	lb/d	mL/L	MGD	MGD	CFU/100mL	CFU/100mL	lb/d	mg/L	mg/L	lb/d	mg/L	lb/d
Statistical Base	Daily Max	Minimum	Maximum	Monthly Avg	Daily Max	Weekly Avg	Monthly Avg	Daily Max	Weekly Avg	Daily Max	Daily Max	Monthly Avg	Daily Max	Monthly Geometric Mean	Weekly Avg	Weekly Avg	Daily Max	Monthly Avg	Monthly Avg	Daily Max
Qualifier	>=	 	"	<=	<=	"	<=	<=	<=	\=	REPORT	REPORT	<=	"	<=	<=	<=	<=	"	<=
Limit Value	1.0	6.0	9.0	40	67	60	33	80	50	0.5	-	-	487	126	29	35	40	21	25	33
05/31/2013	3.6	7.1	7.5	24	11	33	8	33	11	0.5	0.075	0.044	487	101	29	95	95	8	27	29
06/30/2013	3.4	7.2	7.5	6	2	9	2	9	2	0.5	0.057	0.038	107	20	1	4	4	1	4	1
07/31/2013	4.3	7.1	7.4	8	5	15	3	15	5	< .5	0.060	0.037	23	5	2	4	4	1	4	2
08/31/2013	4.4	7.0	7.3	3	1	4	1	4	1	BDL	0.052	0.037	1	1	2	10	10	1	5	2
09/30/2013	4.0	7.2	7.5	6	2	8	2	8	2	BDL	0.068	0.329	1	1	1	3	3	1	3	1
10/31/2013	4.2	7.2	7.3	7	2	10	2	10	2	< .5	0.040	0.031	30	2	1	4	4	1	3	1
11/30/2013	6.3	7.1	7.3	21	7	29	6	29	7	< .5	0.044	0.036	1	1	3	10	10	2	6	3
12/31/2013	8.8	6.8	7.7	22	12	27	8	27	12	BDL	0.066	0.049	3	1	4	13	13	3	9	383
01/31/2014	12.0	7.4	7.8	19	6	22	5	22	6	< .5	0.048	0.034	1	1	11	29	29	4	16	11
02/28/2014	8.1	7.1	7.3	15	8	18	5	18	8	BDL	0.160	0.052	57	3	6	19	19	5	13	9
03/31/2014	7.4	7.1	7.8	22	9	25	7	25	9	BDL	0.151	0.047	96	3	7	19	19	5	14	7
04/30/2014	3.5	7.0	8.5	45	36	104	18	104	36	BDL	0.088	0.046	1	1	17	38	38	8	18	17
05/31/2014	3.4	6.8	7.2	11	6	17	4	17	6	BDL	0.075	0.043	BDL	BDL	2	5	5	1	4	2
06/30/2014	3.2	7.0	7.3	14	8	24	6	24	8	< .5	0.163	0.064	2	< 1	2	7	6	2	4	2
07/31/2014	2.9	7.3	7.4	9	6	15	3	15	6	< .5	0.059	0.038	1	1	2	5	5	1	4	2

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08/31/2014	2.6	7.4	7.5	12	3	20	2	20	3	< .5	0.041	0.030	< 1	< 1	2	7	7	1	5	2
09/30/2014	3.4	7.1	7.5	17	7	20	5	20	7	< .5	0.082	0.030	1	1	2	8	8	1	6	2
10/31/2014	3.1	7.0	7.2	18	18	23	7	23	18	< .5	0.093	0.037	121	3	3	6	6	2	5	3
11/30/2014	5.9	6.9	7.4	26	9	27	8	27	9	< .5	0.062	0.041	1	1	5	13	13	3	10	5
12/31/2014	8.2	7.1	7.5	25	11	29	9	29	11	< .5	0.074	0.042	4	2	5	15	15	4	12	5
01/31/2015	9.7	6.7	7.7	23	7	25	6	25	7	< .5	0.053	0.036	120	4	5	19	19	4	15	5
02/28/2015	10.4	6.7	7.5	34	18	56	12	56	18	< .5	0.124	0.045	29	5	19	28	28	7	20	19
03/31/2015	6.3	6.9	7.1	28	11	36	10	36	11	< .5	0.089	0.050	4	2	9	30	30	7	18	9
04/30/2015	4.8	6.8	7.3	25	15	58	8	58	15	0.5	0.084	0.047	1	1	7	33	33	7	10	7
05/31/2015	3.2	6.9	7.4	19	12	28	7	28	12	< .5	0.132	0.042	2	1	4	11	11	3	8	4
06/30/2015	4.6	7.2	7.5	22	7	29	6	29	7	< .5	0.121	0.041	1	1	28	8	8	2	6	3
07/31/2015	4.6	6.8	7.3	12	6	21	4	21	6	< .5	0.131	0.047	< 1	< 1	5	11	11	3	7	5
08/31/2015	3.8	7.0	7.3	9	4	10	3	10	4	< .5	0.055	0.039	3	1	2	4	4	1	4	2
09/30/2015	3.3	6.7	6.8	10	3	12	2	12	3	BDL	0.036	0.028	2	1	1	5	5	1	5	1
10/31/2015	3.2	6.6	6.9	19	13	26	6	26	13	< .5	0.058	0.029	1	1	3	7	7	2	6	3
11/30/2015	4.1	6.7	6.9	31	17	64	9	64	17	< .5	0.088	0.043	1	1	3	8	8	2	5	3
12/31/2015	6.6	6.7	7.1	15	12	17	8	17	12	0.5	0.099	0.058	5	1	6	15	15	4	8	6
01/31/2016	11.4	6.7	6.9	22	9	25	7	25	9	< .5	0.050	0.049	1	1	6	15	15	4	12	15
02/29/2016	7.5	6.7	7.2	21	15	30	10	30	15	0.5	0.077	0.059	4	1	15	25	25	9	18	15
03/31/2016	6.0	6.9	7.1	18	14	31	8	31	14	0.5	0.142	0.062	1	1	8	19	19	4	9	8
04/30/2016	5.5	6.8	7.3	14	6	21	4	21	6	< .5	0.075	0.048	< 1	< 1	2	5	5	1	4	2
05/31/2016	4.2	6.8	6.9	11	4	13	3	13	4	< .5	0.100	0.040	3	1	2	6	6	1	4	2
06/30/2016	3.5	6.8	7.2	7	2	9	2	9	2	< .5	0.051	0.031	3	1	1	4	4	1	3	1
07/31/2016	3.5	6.8	7.0	3	1	4	1	4	1	< .5	0.072	0.034	2	1	1	3	3	1	3	1
08/31/2016	3.2	6.8	7.1	5	5	12	2	12	5	< .5	0.084	0.054	32	2	2	3	3	1	3	2
09/30/2016	3.9	6.9	7.2	3	3	6	1	6	3	< .5	0.076	0.046	1	1	2	3	3	1	3	2
10/31/2016	4.9	6.7	7.2	5	1	9	1	9	1	< .5	0.028	0.019	1	1	1	4	4	0	3	1
11/30/2016	4.1	6.3	6.9	13	7	22	3	22	7	< .5	0.059	0.022	59	4	4	13	13	1	6	4

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12/31/2016	6.7	7.0	7.1	14	8	17	6	17	8	< .5	0.199	0.056	687	27	20	45	45	11	24	20
01/31/2017	8.5	6.8	7.3	14	11	19	7	19	11	< .5	0.109	0.057	4	1	12	17	17	6	12	12
02/28/2017	7.8	6.8	7.5	24	14	34	10	34	14	< .5	0.068	0.050	1	1	7	16	16	4	9	7
03/31/2017	5.0	6.9	7.1	23	14	27	12	27	14	< .5	0.096	0.063	1	1	5	10	10	3	7	5
04/30/2017	3.0	6.8	7.0	12	9	13	6	13	9	< .5	0.199	0.067	1	1	2	4	4	2	3	2
05/31/2017	1.6	6.9	7.5	3	1	5	1	5	1	< .5	0.032	0.023	1	1	1	4	4	1	3	1
06/30/2017	3.3	6.8	7.6	9	3	18	2	18	3	< .5	0.028	0.021	1	1	1	4	4	1	3	1
07/31/2017	2.9	7.6	7.6	7	2	10	2	10	2	< .5	0.043	0.028	< 1	< 1	1	5	5	1	4	1
08/31/2017	3.0	7.5	7.7	6	1	10	1	10	1	< .5	0.033	0.026	< 1	< 1	1	3	3	1	3	1
09/30/2017	2.6	7.2	7.6	5	1	6	1	6	1	< .5	0.040	0.027	1	1	1	3	3	1	3	1
10/31/2017	3.0	7.1	7.3	11	4	14	3	14	4	< .5	0.042	0.032	1	1	2	8	8	1	6	2
11/30/2017	3.7	7.4	7.6	6	2	9	1	9	2	< .5	0.041	0.028	1	1	2	8	8	1	5	2
12/31/2017	4.3	7.5	7.9	7	2	10	2	10	2	< .5	0.100	0.030	1,732	9	4	21	21	2	11	4
AVERAGE	5.0	7.0	7.3	15	8	22	5	22	8	0.5	0.080	0.046	73	5	5	13	13	3	8	12

OUTFALL 001								
PE	RCENT REMOVAL				RAW SEV	VAGE INFL	UENT	
Parameter	CBOD, 5-day, 20 C, % removal	TSS, % removal	TSS	TSS	Flow	Flow	CBOD, 5- day, 20 C	CBOD, 5- day, 20 C
Monitoring Frequency	Weekly	Weekly	Weekly	Weekly	Daily	Daily	Weekly	Weekly
Unit	%	%	mg/L	mg/L	MGD	MGD	mg/L	mg/L
Statistical Base	Monthly Avg Min	Monthly Avg Min	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Daily Max	Monthly Avg
Qualifier	>=	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT
Limit Value	65	-	-	-	-	-	-	-
05/31/2013	95.00	90	312	632	0.041	0.069	1,470	565
06/30/2013	99.00	97	656	1,720	0.036	0.055	602	363
07/31/2013	99.00	96	302	544	0.040	0.052	455	299
08/31/2013	98.00	96	78	96	0.028	0.052	263	216
09/30/2013	98.00	94	116	154	0.028	0.046	220	168
10/31/2013	98.00	94	112	182	0.033	0.050	215	153
11/30/2013	97.00	86	287	520	0.031	0.082	308	205
12/31/2013	96.00	90	281	516	0.032	0.045	345	206
01/31/2014	93.00	89	323	628	NODI 9	NODI 9	314	223
02/28/2014	92.00	91	298	700	0.051	0.071	233	169
03/31/2014	94.00	87	301	492	0.042	0.058	344	244
04/30/2014	92.00	79	250	404	0.042	0.058	318	226
05/31/2014	99.00	94	379	720	0.040	0.047	650	347
06/30/2014	98.00	93	237	568	0.055	0.213	428	203
07/31/2014	97.00	90	142	222	0.040	0.048	187	146
08/31/2014	97.00	93	184	206	0.034	0.040	243	188
09/30/2014	97.00	84	106	126	0.035	0.040	239	170
10/31/2014	97.00	85	132	208	0.036	0.048	205	146
11/30/2014	94.00	84	212	410	0.049	0.059	217	167
12/31/2014	91.00	84	184	310	0.043	0.055	200	136
01/31/2015	91.00	88	197	260	0.040	0.042	219	167
02/28/2015	85.00	63	176	384	0.041	0.092	213	131
03/31/2015	95.00	94	1,046	3,020	0.040	0.060	556	358
04/30/2015	95.00	89	232	416	0.039	0.050	335	227
05/31/2015	95.00	90	293	396	0.039	0.061	329	272
06/30/2015	97.00	89	308	492	0.040	0.053	388	236
07/31/2015	95.00	91	151	214	0.044	0.060	202	136
08/31/2015	98.00	94	261	744	0.037	0.045	452	181
09/30/2015	98.00	93	207	484	0.028	0.034	412	233
10/31/2015	98.00	88	212	388	0.031	0.045	384	278

11/30/2015	98.00	86	259	482	0.037	0.056	277	224
12/31/2015	93.00	89	212	238	0.039	0.058	352	207
01/31/2016	92.00	80	242	346	0.037	0.042	196	156
02/29/2016	91.00	91	271	496	0.045	0.059	329	198
03/31/2016	95.00	92	231	322	0.046	0.080	289	177
04/30/2016	98.00	92	250	492	0.045	0.057	294	182
05/31/2016	98.00	87	142	272	0.038	0.059	267	181
06/30/2016	98.00	96	202	308	0.035	0.039	263	188
07/31/2016	99.00	98	209	412	0.036	0.075	319	254
08/31/2016	97.00	96	124	216	0.047	0.072	176	112
09/30/2016	98.00	97	195	485	0.034	0.046	496	188
10/31/2016	99.00	98	334	516	0.025	0.031	358	284
11/30/2016	97.00	93	245	520	0.027	0.044	258	197
12/31/2016	85.00	94	237	352	0.068	0.110	277	165
01/31/2017	89.00	92	210	356	0.048	0.069	157	111
02/28/2017	93.00	89	283	356	0.042	0.046	332	165
03/31/2017	96.00	89	296	472	0.048	0.080	297	157
04/30/2017	97.00	91	139	212	0.050	0.118	200	101
05/31/2017	99.00	99	262	576	0.042	0.048	446	242
06/30/2017	97.00	83	253	568	0.041	0.058	484	225
07/31/2017	98.00	96	167	252	0.039	0.062	176	141
08/31/2017	98.00	96	139	174	0.040	0.114	206	142
09/30/2017	96.00	89	87	112	0.036	0.106	113	95
10/31/2017	98.00	87	180	500	0.029	0.045	601	228
11/30/2017	97.00	96	181	306	0.034	0.054	180	159
12/31/2017	95.00	96	208	324	0.047	0.120	282	226
AVERAGE	96	90	242	461	0.039	0.063	332	205

APPENDIX 3 New Permit Limits

Monito	ring : All Weather						
Code	<u>Parameter</u>	Qualifier	<u>Value</u>	<u>Unit</u>	Sample Type	Monitoring Frequency	Statistical Base
51929	Bypass of Treatment Facility	Report	-	occur/mo	Occurrences	Continuous	Monthly Total
51929	Bypass of Treatment Facility	Report	-	gal/mo	Estimate	Continuous	Monthly Total
Monito	ring : Dry Weather						
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
51925	SSO, Dry Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51925	SSO, Dry Weather	Report	-	occur/12 Mo Cumulative Total	Calculated	Continuous	Total
51925	SSO, Dry Weather	<=	0	occur/mo	Occurrences	Continuous	Monthly Total
51927	Release [Sewer], Dry Weather	Report	-	occur/mo	Occurrences	Continuous	Monthly Total
51927	Release [Sewer], Dry Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
Monito	ring : Wet Weather						
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
51926	SSO, Wet Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51926	SSO, Wet Weather	Report	-	occur/12 Mo Cumulative Total	Calculated	Continuous	Total
51926	SSO, Wet Weather	<=	0	occur/mo	Occurrences	Continuous	Monthly Total
51928	Release [Sewer], Wet Weather	Report	-	gal/mo	Estimate	Continuous	Monthly Total
51928	Release [Sewer], Wet Weather	Report	-	occur/mo	Occurrences	Continuous	Monthly Total

Code	<u>Parameter</u>	Qualifier	<u>Value</u>	<u>Unit</u>	Sample Type	Monitoring Frequency	Statistical Base
00300	Oxygen, dissolved (DO)	>=	1.0	mg/L	Grab	Weekly	Instantaneous Minimum
00400	nН	\ _	6.0	SII	Grah	Mookly	Minimum

Description: External Outfall, Number: 001, Monitoring: Effluent Gross, Season: All Year

00400	рН	<=	9.0	SU	Grab	Weekly	Maximum
00530	Total Suspended Solids (TSS)	<=	40	mg/L	Grab	Weekly	Monthly Average

00530 Total Suspended Solids (TSS) <= 67 lb/d Grab Weekly Daily Maximum 00530 Total Suspended Solids (TSS) <= 60 mg/L Grab Weekly Weekly Average 00530 Total Suspended Solids (TSS) <= 80 mg/L Grab Weekly Daily Maximum 00530 Total Suspended Solids (TSS) <= 80 mg/L Grab Weekly Daily Maximum 00545 Settleable Solids <= 1.0 mL/L Grab Weekly Daily Maximum 00600 Nitrogen, total (as N) Report - lb/d Grab Quarterly Daily Maximum 00605 Phosphorus, total (as P) Report - mg/L Grab Quarterly Daily Maximum 00605 Phosphorus, total (as P) Report - mg/L Grab Quarterly Daily Maximum 00606 Phosphorus, total (as P) Report - mg/L Grab Quarterly Daily Maximum								
100530 1758	00530		<=	67	lb/d	Grab	Weekly	Daily Maximum
00530 (TSS) <=	00530		<=	60	mg/L	Grab	Weekly	Weekly Average
Total Suspended Solids CESS Settleable Sol	00530		<=	33	lb/d	Grab	Weekly	Monthly Average
00530 (TSS) <=	00530		<=	80	mg/L	Grab	Weekly	Daily Maximum
00600Nitrogen, total (as N)Report-Ib/dGrabQuarterlyDaily Maximum00600Nitrogen, total (as N)Report-mg/LGrabQuarterlyDaily Maximum00665Phosphorus, total (as P)Report-Ib/dGrabQuarterlyDaily Maximum00665Phosphorus, total (as P)Report-mg/LGrabQuarterlyDaily Maximum50050FlowReport-Mgal/dContinuousDailyMonthly Average51040E. coli<=	00530		<=	50	lb/d	Grab	Weekly	Weekly Average
Nitrogen, total (as N) Report Mg/L Grab Quarterly Daily Maximum Daily Monthly Average Mgal/d Continuous Daily Monthly Average Monthly Average Monthly Average Monthly Geometric Mean Daily Maximum Monthly Geometric Mean Mean Monthly Average Daily Maximum Daily Maximum Daily Maximum Daily Maximum Monthly Average Daily Maximum Daily Maximum Monthly Average Daily Maximum D	00545	Settleable Solids	<=	1.0	mL/L	Grab	Weekly	Daily Maximum
O0665 Phosphorus, total (as P) Report - Ib/d Grab Quarterly Daily Maximum O0665 Phosphorus, total (as P) Report - mg/L Grab Quarterly Daily Maximum 50050 Flow Report - Mgal/d Continuous Daily Daily Maximum 50050 Flow Report - Mgal/d Continuous Daily Monthly Average 51040 E. coli <= 487 #/100mL Grab Weekly Daily Maximum 51040 E. coli <= 126 #/100mL Grab Weekly Monthly Geometric Mean 80082 CBOD, 5-day, 20 C <= 29 Ib/d Grab Weekly Weekly Average 80082 CBOD, 5-day, 20 C <= 35 mg/L Grab Weekly Weekly Average 80082 CBOD, 5-day, 20 C <= 40 mg/L Grab Weekly Daily Maximum 80082 CBOD, 5-day, 20 C <= 21 Ib/d Grab Weekly Monthly Average 80082 CBOD, 5-day, 20 C <= 21 Ib/d Grab Weekly Monthly Average 80082 CBOD, 5-day, 20 C <= 21 Ib/d Grab Weekly Monthly Average	00600	Nitrogen, total (as N)	Report	-	lb/d	Grab	Quarterly	Daily Maximum
00665 Phosphorus, total (as P) Report - mg/L Grab Quarterly Daily Maximum 50050 Flow Report - Mgal/d Continuous Daily Daily Maximum 50050 Flow Report - Mgal/d Continuous Daily Monthly Average 51040 E. coli	00600	Nitrogen, total (as N)	Report	-	mg/L	Grab	Quarterly	Daily Maximum
50050 Flow Report - Mgal/d Continuous Daily Maximum 50050 Flow Report - Mgal/d Continuous Daily Monthly Average 51040 E. coli <=	00665	Phosphorus, total (as P)	Report	-	lb/d	Grab	Quarterly	Daily Maximum
50050 Flow Report - Mgal/d Continuous Daily Monthly Average 51040 E. coli <=	00665	Phosphorus, total (as P)	Report	-	mg/L	Grab	Quarterly	Daily Maximum
51040 E. coli <=	50050	Flow	Report	-	Mgal/d	Continuous	Daily	Daily Maximum
51040 E. coli <=	50050	Flow	Report	-	Mgal/d	Continuous	Daily	Monthly Average
ST040 E. COII C	51040	E. coli	<=	487	#/100mL	Grab	Weekly	Daily Maximum
80082 CBOD, 5-day, 20 C <=	51040	E. coli	<=	126	#/100mL	Grab	Weekly	
80082 CBOD, 5-day, 20 C <=	80082	CBOD, 5-day, 20 C	<=	29	lb/d	Grab	Weekly	Weekly Average
80082 CBOD, 5-day, 20 C <=	80082	CBOD, 5-day, 20 C	<=	35	mg/L	Grab	Weekly	Weekly Average
80082 CBOD, 5-day, 20 C <= 25 mg/L Grab Weekly Monthly Average	80082	CBOD, 5-day, 20 C	<=	40	mg/L	Grab	Weekly	Daily Maximum
	80082	CBOD, 5-day, 20 C	<=	21	lb/d	Grab	Weekly	Monthly Average
80082 CBOD, 5-day, 20 C <= 33 lb/d Grab Weekly Daily Maximum	80082	CBOD, 5-day, 20 C	<=	25	mg/L	Grab	Weekly	Monthly Average
	80082	CBOD, 5-day, 20 C	<=	33	lb/d	Grab	Weekly	Daily Maximum

	Description : External Outfall, Number : 001, Monitoring : Percent Removal, Season : All Year									
Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base			
80358	CBOD, 5-day, 20 C, % removal	>=	65	%	Calculated	Weekly	Monthly Average Minimum			
81011	TSS, % removal	Report	-	%	Calculated	Weekly	Monthly Average			

Code	Parameter	Qualifier	Value	Unit	Sample Type	Monitoring Frequency	Statistical Base
00530	Total Suspended Solids (TSS)	Report	-	mg/L	Grab	Weekly	Monthly Average
00530	Total Suspended Solids (TSS)	Report	-	mg/L	Grab	Weekly	Daily Maximum

Mgal/d

Continuous

Daily

Monthly Average

Report

50050 Flow

Description : External Outfall, Number : 001, Monitoring : Raw Sewage Influent, Season : All Year

50050	Flow	Report	-	Mgal/d	Continuous	Daily	Daily Maximum
80082	CBOD, 5-day, 20 C	Report	-	mg/L	Grab	Weekly	Daily Maximum
80082	CBOD, 5-day, 20 C	Report	-	mg/L	Grab	Weekly	Monthly Average

Notes: The permittee shall achieve 65% removal of CBOD₅ on a monthly average basis. The permittee shall achieve the equivalent to secondary treatment standard for TSS % removal in 40 CFR 133.105 and 40 CRF 133.103(c) and shall report % removal of TSS (81011) on a monthly average basis. The permittee shall report all instances of releases, overflows and/or bypasses. See Part 2.3.3.a for the definition of overflow and Part 1.3.5.1 for reporting requirements.

Unless elsewhere specified, summer months are May through October; winter months are November through April.

See Part 1.2.3 for test procedures.

See Part 3.4 for biomonitoring test and reporting requirements. See next page for percent removal calculations.

Total residual chlorine (TRC) monitoring shall be applicable when chlorine, bromine, or any other oxidants are added. The acceptable methods for analysis of TRC are any methods specified in Title 40 CFR, Part 136 as amended. The method detection level (MDL) for TRC shall not exceed 0.05 mg/l unless the permittee demonstrates that its MDL is higher. The permittee shall retain the documentation that justifies the higher MDL and have it available for review upon request. In cases where the permit limit is less that the MDL, the reporting of TRC at less than the MDL shall be interpreted to constitute compliance with the permit.