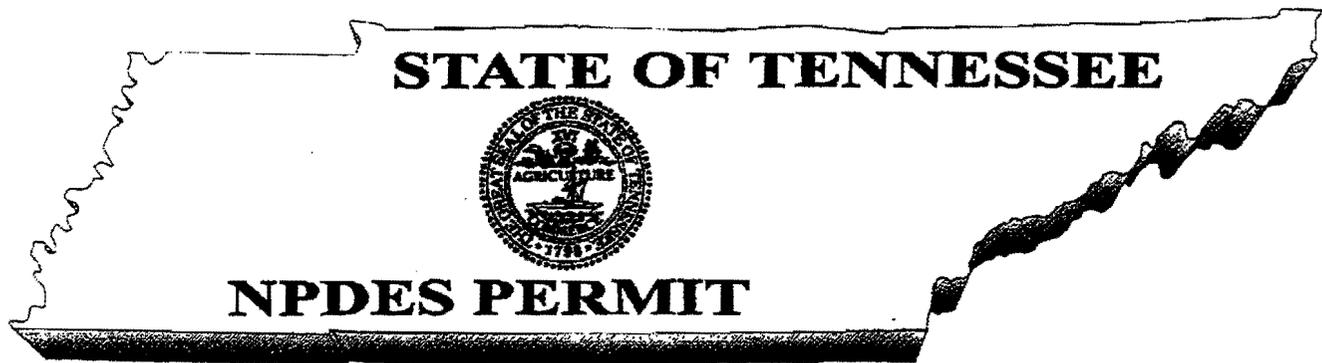


SPECIFICATIONS

NECX-CC ANNEX WASTEWATER, SEWAGE TREATMENT PLANT

SCOPE OF SERVICE:

CONTRACTOR MUST PROVIDE ALL LABOR, MATERIAL, & EQUIPMENT TO COMPLY WITH TENNESSEE DEPARTMENT OF ENVIROMENT AND CONSERVATION PERMIT # TN0061531 ALLOWING THE OPERATION OF SEWAGE/WASTEWATER TREATMENT PLANT LOCATED AT NORTHEAST CORRECTIONAL COMPLEX ANNEX , 188 OLD RAILROAD GRADE ROAD, ROAN MOUNTAIN TENNESSEE, 37687. MUST INCLUDE A MINIMUM OF A CLASS 3 LICENSED OPERATOR.



No. TN0061531

Reissuance
Authorization to discharge under the
National Pollutant Discharge Elimination System

Issued By

Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor, L & C Annex
Nashville, Tennessee 37243-1534

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) 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, et seq.)

Discharger: **Carter County Work Camp**

is authorized to discharge: treated domestic wastewater from Outfall 001

from a facility located: Roan Mountain, Carter County, Tennessee

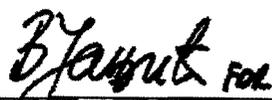
to receiving waters named: Doe River at mile 18.0

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

This permit shall become effective on: October 1, 2011

This permit shall expire on: August 31, 2016

Issuance date: August 31, 2011



Paul E. Davis, Director
Division of Water Pollution Control
RDAs 2352 and 2366

CN-0759

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PART 1

A. EFFLUENT LIMITATION AND MONITORING REQUIREMENTS

Discharge 001 consists of domestic wastewater from a treatment facility with a design capacity of .055 MGD. Discharge 001 shall be limited and monitored by the permittee as specified below.

<u>Effluent Characteristics</u>	<u>Effluent Limitations</u>			<u>Monitoring Requirements</u>		
	Monthly Avg. Conc. mg/l	Weekly Avg. Conc. mg/l	Daily Max. Conc. mg/l	Measurement Frequency	Sample Type	Sampling Point
CBOD ₅	10	---	20	1/week	grab	effluent
Ammonia, as N	5	---	10	1/week	grab	effluent
Suspended Solids	30	---	45	1/week	grab	effluent

<u>Effluent Characteristics</u>	<u>Effluent Limitations</u>			<u>Monitoring Requirements</u>		
	Monthly Average	Daily Min.	Daily Max.	Measurement Frequency	Sample Type	Sampling Point
Flow (MGD)	Report	---	Report	5/week	instantaneous	effluent
<i>E. coli</i>	126/100 ml (see following paragraphs)		487 /100 ml	1/week	grab	effluent

02/11

Effluent Characteristics	Effluent Limitations		Monitoring Requirements			
	<u>Monthly Average</u>	<u>Daily Min.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	<u>Sampling Point</u>
Total chlorine residual			0.5 mg/l instantaneous	5/week	grab	effluent
Settleable solids			1.0 ml/l	5/week	grab	effluent
Dissolved oxygen		6.0 mg/l instantaneous		5/week	grab	effluent
pH (Standard Units)		6.0	9.0	5/week	grab	effluent

"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."

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 result in no other materials in concentrations sufficient to 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 which prevents its entrance into or pollution of any surface or subsurface waters.

The wastewater discharge must not cause an objectionable color contrast in the receiving stream.

B. MONITORING PROCEDURES

1. Representative Sampling

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):

nearest accessible point after final treatment but prior to actual discharge to or mixing with the receiving waters.

2. 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, 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.

3. Sampling Frequency

- a. 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.

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.

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 Pollution Control.

C. DEFINITIONS

The "instantaneous 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 of the discharge at any point in time.

The "daily maximum concentration" is a limitation on the average concentration, in milligrams per liter, of the discharge during any calendar day.

The "monthly average concentration" is the arithmetic mean of all samples collected in a one-month period. If only one sample is required per month, the permittee is required to report compliance against the monthly average limit other than *E coli*.

For the purpose of this permit a "calendar day" is defined as any 24-hour period.

D. REPORTING

1. Monitoring Results

Monitoring results shall be recorded monthly and submitted monthly using Monthly Operation Report Forms (MOR) supplied by the Division of Water Pollution Control. Submittals shall be postmarked no later than 15 days after the completion of the reporting period. A copy should be retained for the permittee's files. Monthly Operation Reports and any communication regarding compliance with the conditions of this permit must be sent to:

**Attention: Division of Water Pollution Control
Johnson City Environmental Field Office
2305 Silverdale Road
Johnson City, TN 37601**

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

Monthly Operation Report must be signed and certified by a responsible corporate officer, as defined at 40 CFR 122.22, or a general partner or proprietor, or a principal municipal executive officer or ranking elected officer, or a duly authorized representative. Such authorization must be submitted in writing and must explain the duties and responsibilities of the authorized representative.

2. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Operation Report Form (MOR). Such increased frequency shall also be indicated. The Permittee is also required to perform and report influent and operation tests in accordance with the schedule listed on the Monthly Operation Report/Schedule for Analysis for Package Sewage Treatment Facilities or as developed by the design engineer.

3. Falsifying Reports

Knowingly making any false statement on any report required by this permit 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.

E. SCHEDULE OF COMPLIANCE

Full operational level shall be attained from the effective date of this permit.

PART II

A. GENERAL PROVISIONS

1. Duty to Reapply

The 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 Water Pollution Control (the "Director") no later than 180 days prior to the expiration date.

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:

- a. 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.

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 Pollution Control. As required by the Federal Act, effluent data shall not be considered confidential.

B. CHANGES AFFECTING THE PERMIT

1. 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.

C. NON COMPLIANCE

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. 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 Pollution Control 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 by the facility to reduce, eliminate, and prevent recurrence of the non complying discharge.

b. Scheduled Reporting

For instances of noncompliance which are not reported under subparagraph 2 a. above, the Permittee shall report the noncompliance on the Monthly operation report.

The monthly 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.

D. LIABILITIES

1. Civil and Criminal Liability

Except as provided in pennit conditions or "*Bypassing*," "*Overflow*," "*Upset*," "*Diversion*," and "*Treatment Facility Failures*," 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 Pennit, it shall be the responsibility of the permittee to conduct its wastewater treatment andior discharge activities in a manner such that public or private nuisances or health hazards will not be created.

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.

PART III OTHER REQUIREMENTS

A. CERTIFIED OPERATOR

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

B. PLACEMENT OF SIGNS

The permittee shall place and maintain a sign at each outfall. 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 ft) 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 Pollution Control. The following is given as an example of the minimal amount of information that must be included on the sign:

-NPDES pennitted domestic outfall:

**TREATED DOMESTIC WASTEWATER
(PERMITTEE'S NAME)
(PERMITTEE'S PHONE NUMBER)
NATIONAL POLLUTANT DISCHARGE ELIMINATION
SYSTEM PERMIT # _____
TENNESSEE DIVISION OF WATER POLLUTION CONTROL
Johnson City Environmental Field Office
PHONE NUMBER : 1-888-891-8332**

C. ADDITION OF WASTE LOADS

The permittee may not add wasteloads to the existing treatment system without the knowledge and approval of the division.

D. SLUDGE MANAGEMENT PRACTICES

The permittee must comply with the provisions of 40 CFR Part 503. If the sludge is transported to another POTW for disposal, the permittee shall note on the monthly operation report the amount of sludge wasted in gallons, % solids of sludge wasted and the name of the facility to which the sludge was taken.

E. ANTIDegradation

Pursuant to the Rules of the Tennessee Department of Environment and Conservation, Chapter 1200-4-3-.06, titled "Tennessee Antidegradation Statement," which prohibits the degradation of high quality surface 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.

IV. PROPOSED EFFLUENT LIMITS & RATIONALE

The conditions under which this permit was issued 31-AUG-06 have not changed. The permit will be reissued for five years with existing permit conditions.

B. TEST METHOD FOR *E. COLI*

Disinfection of wastewater is required to protect the receiving stream from pathogenic microorganisms. *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.

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.

V. OTHER REQUIREMENTS & CONDITIONS

A. Certified Wastewater Treatment Operator

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

B. The permittee is required to install a sign notifying the public of its permitted discharge point.

C. PERMIT TERM

This permit is being reissued for 5 years in order to coordinate its reissuance with other permits located within the Watauga Watershed.

VI. ANTIDegradation STATEMENT/WATER QUALITY STATUS

Tennessee's Antidegradation Statement is found in the Rules of the Tennessee Department of Environment and Conservation, Chapter 1200-4-3-.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# TN06010103013_1000

The division has made a determination of the receiving waters associated with the subject discharge(s) and has found the (stream or river) to be a high quality water. No permanent degradation of water quality will be allowed unless the applicant demonstrates to the Water Quality Control Board 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 1200-4-3-.06(4).

TMDLs have been developed and approved for this waterbody segment on the following parameters and dates:
None

VII. COMPLIANCE SCHEDULE SUMMARY

<u>Section</u>	<u>Description</u>
I. D 1	DMR/MOR Reports, monthly
III. B	Placement of Sign(s), within 60 days from the effective date of this permit
III. D	Sludge management practices, monthly