



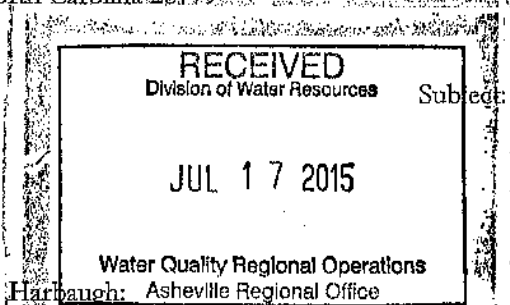
North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

July 6, 2015

Mr. Daniel Harbaugh, Executive Director  
Tuckaseigee Water and Sewer Authority  
1246 West Main Street  
Sylva, North Carolina 28779



NPDES Permit Issuance  
TWSA WWTP #6- Horsepasture River  
Permit No. NC0089532  
Jackson County  
Class 2 Facility

Dear Mr. Harbaugh: Asheville Regional Office

Division personnel have reviewed and approved your application for the subject permit. Accordingly, we are forwarding the attached NPDES permit. This permit is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between North Carolina and the U.S. Environmental Protection Agency dated October 15, 2007 (or as subsequently amended).

After evaluation of your comments on the draft permit the Division offers the following responses:

- Effluent Limitations and Monitoring Requirements pages were added for phased flows of 0.125 MGD and 0.250 MGD to allow flexibility for the construction of the plant in stages.
- The latitude and longitude for the discharge point were corrected in the map.
- You asked to clarify the inclusion of mercury monitoring. Mercury monitoring is included in the permit as required in the Mercury TMDL Permitting Strategy. In 2012 the Division developed a statewide mercury TMDL to address mercury impairment in surface waters in North Carolina. As all waters of the state were listed as impaired for mercury the TMDL permitting strategy is applicable to all NPDES dischargers. For new facilities at least one sample is required to determine if mercury is detected in the effluent.
- The ammonia limit is applicable year around. The permit has been corrected by eliminating the reference to winter months. Limits are more restrictive than other permits due to the applicability of the most restrictive classification of Outstanding Resources Waters (ORW).
- The monitoring frequency for Total Nitrogen and Total Phosphorous has been corrected to semi-annual.
- You asked to clarify the basis for BOD and TSS limits. BOD, and TSS limits are based on the management strategy for the Horespasture River ORW area found in rule 15A NCAC 2B .0225 (e)(13). As in the case of ammonia, limits based on this rule are more restrictive

1617 Mail Service Center, Raleigh, North Carolina 27699-1617  
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604  
Phone: 919-807-6300 FAX: 919-807-6492  
Internet: [www.ncwaterquality.org](http://www.ncwaterquality.org)

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Mr. Daniel Harbaugh  
July 6, 2015  
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than other permits due to the applicability of the most restrictive classification of ORW. Monitoring frequency was determined in accordance with rule 15A NCAC 2B .0508.

In addition to the above mentioned modifications the name of the facility was changed to TWSA WWTP #6 – Horsepasture River and the expiration date of the permit was modified to July 31, 2020 to allow for a five year permit cycle.

The permit includes a special condition to address the Environmental Protection Agency's (EPA's) pending requirement for you to provide electronically-submitted Discharge Monitoring Reports (eDMRs). The Division intends to fully implement the eDMR program as soon as practicable. See Condition A.(5.) in permit. For information on eDMR, registering for eDMR and obtaining an eDMR user account, please visit the following web page:

<http://portal.ncdenr.org/web/wq/admin/bog/ipu/edmr>.

For information on EPA's proposed NPDES Electronic Reporting Rule, please visit the following web site: <http://www2.epa.gov/compliance/proposed-npdes-electronic-reporting-rule>.

If any parts, measurement frequencies or sampling requirements contained in this permit are unacceptable to you, you have the right to an adjudicatory hearing upon written request within thirty (30) days following receipt of this letter. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings (6714 Mail Service Center, Raleigh, North Carolina 27699-6714). Unless such demand is made, this decision shall be final and binding.

Please note that this permit is not transferable except after notice to the Division. The Division may require modification or revocation and reissuance of the permit. This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Resources or any other Federal, State, or Local governmental permits that may be required.

If you have any questions concerning this permit, please contact Teresa Rodriguez at telephone number (919) 807-6387 or at email [Teresa.rodriguez@ncdenr.gov](mailto:Teresa.rodriguez@ncdenr.gov).

Sincerely,



*S. Jay Zimmerman*  
S. Jay Zimmerman, P.G.  
Director, Division of Water Resources

cc: NPDES Files  
Central Files  
Asheville Regional Office / Surface Water Protection Section

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WATER RESOURCES

**PERMIT**

TO DISCHARGE WASTEWATER UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended,

**Tuckaseigee Water and Sewer Authority**

is hereby authorized to discharge wastewater from a facility located at

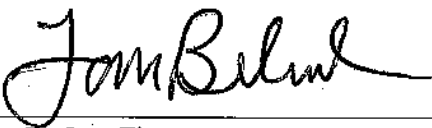
**TWSA WWTP #6 - Horsepasture River  
Highway 64, east of Cashiers  
Jackson County**

to receiving waters designated as the Horsepasture River in the Savannah River Basin in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III and IV hereof.

This permit shall become effective August 1, 2015.

This permit and authorization to discharge shall expire at midnight on July 31, 2020.

Signed this day July 6, 2015.

  
for S. Jay Zimmerman, P.G.  
Director, Division of Water Resources  
By Authority of the Environmental Management Commission

## SUPPLEMENT TO PERMIT COVER SHEET

All previous NPDES Permits issued to this facility, whether for operation or discharge are hereby revoked. As of this permit issuance, any previously issued permit bearing this number is no longer effective. Therefore, the exclusive authority to operate and discharge from this facility arises under the permit conditions, requirements, terms, and provisions included herein.

**The Tuckasegee Water and Sewer Authority is hereby authorized to:**

1. After obtaining an Authorization to Construct from the Division and submitting an engineering Certificate, construct and operate a 0.125 MGD wastewater treatment plant. This facility is located at the TWSA Wastewater Treatment Plant #6 – Horsepasture River, Highway 64, east of Cashiers, Jackson County.
2. Discharge from said treatment works at the location specified on the attached map into Horsepasture River, classified C-Tr+ waters in the Savannah River Basin.

## Part I

**A. (1) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**  
**(0.125 MGD)** [15A NCAC 02B .0400 et seq., 02B .0500 et seq.]

During the period beginning upon receipt of an Engineering Certificate for 0.125 MGD and lasting until receipt of Engineering Certificate for 0.25 MGD or expiration, the Permittee is authorized to discharge **treated wastewater** from outfall 001. Such discharges shall be limited and monitored<sup>1</sup> by the Permittee as specified below:

PARAMETER	LIMITS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location
Flow	0.125 MGD			Continuous	Recording	Influent or Effluent
BOD, 5-day, 20°C <sup>3</sup>	5.0 mg/L	7.5 mg/L		Weekly	Composite	Influent & Effluent
Total Suspended Solids <sup>3</sup>	10 mg/L	15 mg/L		Weekly	Composite	Influent & Effluent
NH <sub>3</sub> -N	2.0 mg/L	6.0 mg/L		Weekly	Composite	Effluent
Temperature (°C)				Daily	Grab	Effluent
Dissolved Oxygen <sup>4</sup>				Weekly	Grab	Effluent
Fecal Coliform (geometric mean)	200/100 mL	400/100 mL		Weekly	Grab	Effluent
Total Nitrogen (NO <sub>2</sub> + NO <sub>3</sub> + TKN)				Semi-annual	Composite	Effluent
Total Phosphorus				Semi-annual	Composite	Effluent
pH	≥ 6.0 and ≤ 9.0 standard units			Weekly	Grab	Effluent
Temperature (°C)				Weekly	Grab	U & D <sup>2</sup>
Dissolved Oxygen				Weekly	Grab	U & D <sup>2</sup>

## Notes:

1. No later than 270 days from the effective date of this permit, begin submitting discharge monitoring reports electronically using NC DWR's eDMR application system. See Special Condition A.(5.)
2. U: Upstream at least 100 feet from the outfall. D: Downstream at least 500 feet from the outfall.
3. The monthly average effluent BOD5 and Total Suspended Solids concentrations shall not exceed 15% of the respective influent value (85% removal).
4. The daily average dissolved oxygen effluent concentration shall not be less than 6.0 mg/L.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

**A (2.) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (0.25 MGD)** [15A NCAC 02B .0400 et seq., 02B .0500 et seq.]

During the period beginning upon receipt of an Engineering Certificate for 0.25 MGD and lasting until receipt of Engineering Certificate for 0.495 MGD or expiration, the Permittee is authorized to discharge **treated wastewater** from outfall 001. Such discharges shall be limited and monitored<sup>1</sup> by the Permittee as specified below:

PARAMETER	LIMITS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location
Flow	0.25 MGD			Continuous	Recording	Influent or Effluent
BOD, 5-day, 20°C <sup>3</sup>	5.0 mg/L	7.5 mg/L		Weekly	Composite	Influent & Effluent
Total Suspended Solids <sup>3</sup>	10 mg/L	15 mg/L		Weekly	Composite	Influent & Effluent
NH <sub>3</sub> -N	2.0 mg/L	6.0 mg/L		Weekly	Composite	Effluent
Temperature (°C)				Daily	Grab	Effluent
Dissolved Oxygen <sup>4</sup>				Weekly	Grab	Effluent
Fecal Coliform (geometric mean)	200/100 mL	400/100 mL		Weekly	Grab	Effluent
Total Nitrogen (NO <sub>2</sub> + NO <sub>3</sub> + TKN)				Semi-annual	Composite	Effluent
Total Phosphorus				Semi-annual	Composite	Effluent
pH	≥ 6.0 and ≤ 9.0 standard units			Weekly	Grab	Effluent
Temperature (°C)				Weekly	Grab	U & D <sup>2</sup>
Dissolved Oxygen				Weekly	Grab	U & D <sup>2</sup>

Notes:

1. No later than 270 days from the effective date of this permit, begin submitting discharge monitoring reports electronically using NC DWR's eDMR application system. See Special Condition A.(5.)
2. U: Upstream at least 100 feet from the outfall. D: Downstream at least 500 feet from the outfall.
3. The monthly average effluent BOD5 and Total Suspended Solids concentrations shall not exceed 15% of the respective influent value (85% removal).
4. The daily average dissolved oxygen effluent concentration shall not be less than 6.0 mg/L.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

**A (3.) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (0.495 MGD)** [15A NCAC 02B .0400 et seq., 02B .0500 et seq.]

During the period beginning upon receipt of an Engineering Certificate for 0.495 MGD and lasting until expiration, the Permittee is authorized to discharge **treated wastewater** from outfall 001. Such discharges shall be limited and monitored<sup>1</sup> by the Permittee as specified below:

PARAMETER	LIMITS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location
Flow	0.495 MGD			Continuous	Recording	Influent or Effluent
BOD, 5-day, 20°C <sup>3</sup>	5.0 mg/L	7.5 mg/L		Weekly	Composite	Influent & Effluent
Total Suspended Solids <sup>3</sup>	10 mg/L	15 mg/L		Weekly	Composite	Influent & Effluent
NH <sub>3</sub> -N	2.0 mg/L	6.0 mg/L		Weekly	Composite	Effluent
Temperature (°C)				Daily	Grab	Effluent
Dissolved Oxygen <sup>4</sup>				Weekly	Grab	Effluent
Fecal Coliform (geometric mean)	200/100 mL	400/100 mL		Weekly	Grab	Effluent
Total Nitrogen (NO <sub>2</sub> + NO <sub>3</sub> + TKN)				Semi-annual	Composite	Effluent
Total Phosphorus				Semi-annual	Composite	Effluent
pH	≥ 6.0 and ≤ 9.0 standard units			Weekly	Grab	Effluent
Temperature (°C)				Weekly	Grab	U & D <sup>2</sup>
Dissolved Oxygen				Weekly	Grab	U & D <sup>2</sup>

Notes:

1. No later than 270 days from the effective date of this permit, begin submitting discharge monitoring reports electronically using NC DWR's eDMR application system. See Special Condition A.(5.)
2. U; Upstream at least 100 feet from the outfall. D: Downstream at least 500 feet from the outfall.
3. The monthly average effluent BOD5 and Total Suspended Solids concentrations shall not exceed 15% of the respective influent value (85% removal).
4. The daily average dissolved oxygen effluent concentration shall not be less than 6.0 mg/L.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

**A.(4.) MERCURY SAMPLE**

The Permittee shall provide one effluent mercury analysis, using EPA Method 1631E, in conjunction with the next permit renewal application. The analysis should be taken within 12 months prior to the application date. Any additional effluent mercury measurements conducted from the effective date of this permit and up to the application date shall also be submitted with the renewal application.

If the results of the mercury analysis is not provided with the application, the application may be returned as incomplete and the Permittee considered non-compliant.

**A.(5.) ELECTRONIC REPORTING OF DISCHARGE MONITORING REPORTS**

[G.S. 143-215.1(b)]

Proposed federal regulations require electronic submittal of all discharge monitoring reports (DMRs) and specify that, if a state does not establish a system to receive such submittals, then permittees must submit DMRs electronically to the Environmental Protection Agency (EPA). The Division anticipates that these regulations will be adopted and is beginning implementation in late 2013.

NOTE: This special condition supplements or supersedes the following sections within Part II of this permit (*Standard Conditions for NPDES Permits*):

- Section B. (11.)            Signatory Requirements
- Section D. (2.)            Reporting
- Section D. (6.)            Records Retention
- Section E. (5.)            Monitoring Reports

**1. Reporting [Supersedes Section D. (2.) and Section E. (5.) (a)]**

Beginning no later than 270 days from the effective date of this permit, the permittee shall begin reporting discharge monitoring data electronically using the NC DWR's Electronic Discharge Monitoring Report (eDMR) internet application.

Monitoring results obtained during the previous month(s) shall be summarized for each month and submitted electronically using eDMR. The eDMR system allows permitted facilities to enter monitoring data and submit DMRs electronically using the internet. Until such time that the state's eDMR application is compliant with EPA's Cross-Media Electronic Reporting Regulation (CROMERR), permittees will be required to submit all discharge monitoring data to the state electronically using eDMR and will be required to complete the eDMR submission by printing, signing, and submitting one signed original and a copy of the computer printed eDMR to the following address:

NC DENR / DWR / Information Processing Unit  
ATTENTION: Central Files / eDMR  
1617 Mail Service Center  
Raleigh, North Carolina 27699-1617

If a permittee is unable to use the eDMR system due to a demonstrated hardship or due to the facility being physically located in an area where less than 10 percent of the households have broadband access, then a temporary waiver from the NPDES electronic reporting requirements may be granted and discharge monitoring data may be submitted on paper DMR forms (MR 1, 1.1, 2, 3) or alternative forms approved by the Director. Duplicate signed copies shall be submitted to the mailing address above.



Requests for temporary waivers from the NPDES electronic reporting requirements must be submitted in writing to the Division for written approval at least sixty (60) days prior to the date the facility would be required under this permit to begin using eDMR. Temporary waivers shall be valid for twelve (12) months and shall thereupon expire. At such time, DMRs shall be submitted electronically to the Division unless the permittee re-applies for and is granted a new temporary waiver by the Division.

Information on eDMR and application for a temporary waiver from the NPDES electronic reporting requirements is found on the following web page:

<http://portal.ncdenr.org/web/wq/admin/bog/ipu/edmr>

Regardless of the submission method, the first DMR is due on the last day of the month following the issuance of the permit or in the case of a new facility, on the last day of the month following the commencement of discharge.

**2. Signatory Requirements [Supplements Section B. (11.) (b) and supersedes Section B. (11.) (d)]**

All eDMRs submitted to the permit issuing authority shall be signed by a person described in Part II, Section B. (11.) (a) or by a duly authorized representative of that person as described in Part II, Section B. (11.) (b). A person, and not a position, must be delegated signatory authority for eDMR reporting purposes.

For eDMR submissions, the person signing and submitting the DMR must obtain an eDMR user account and login credentials to access the eDMR system. For more information on North Carolina's eDMR system, registering for eDMR and obtaining an eDMR user account, please visit the following web page:

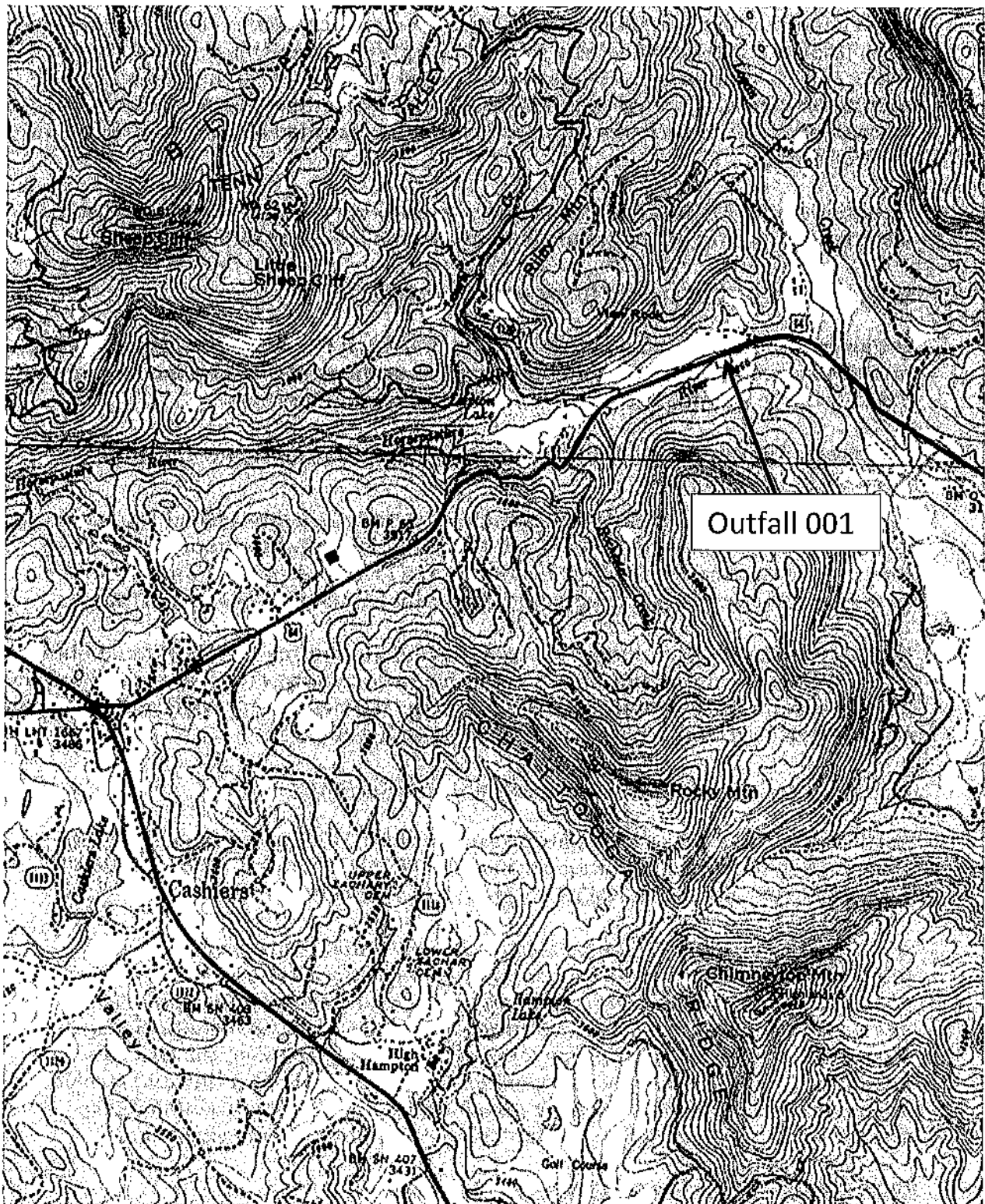
<http://portal.ncdenr.org/web/wq/admin/bog/ipu/edmr>

Certification. Any person submitting an electronic DMR using the state's eDMR system shall make the following certification [40 CFR 122.22]. NO OTHER STATEMENTS OF CERTIFICATION WILL BE ACCEPTED:

*"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."*

**3. Records Retention [Supplements Section D. (6.)]**

The permittee shall retain records of all Discharge Monitoring Reports, including eDMR submissions. These records or copies shall be maintained for a period of at least 3 years from the date of the report. This period may be extended by request of the Director at any time [40 CFR 122.41].



**TWSA WWTP #6 - Horsepasture River**

Receiving Stream:	Horsepasture River	Stream Class:	CTr+
Drainage Basin:	Savannah River Basin	Sub-Basin:	03-13-02
Permitted Flow:	0.125/0.25/0.495 MGD	HUC:	03060101
Latitude:	35° 07' 46"	Longitude:	83° 04' 00"
USGS Quad:	Big Ridge & Cashiers		

Stream Class: C Tr+  
Sub-Basin: 03-13-02  
HUC: 03060101  
Longitude: 83° 04' 00"

USGS Quad: Big Ridge &amp; Cashiers

Facility Location {not to scale}



NPDES Permit NC0089532 - Jackson County