



North Carolina Department of Environment and Natural Resources
Division of Water Quality

Beverly Eaves Perdue
Governor

Coleen H. Sullins
Director

Dee Freeman
Secretary

Mr. William G. Terry, Town Manager
Town of Pittsboro
P. O. Box 759
Pittsboro, NC 27312

Subject: Issuance of Permit Modification and Renewal
NPDES Permit No. NC0020354
Town of Pittsboro WWTP
Chatham County
Facility Class III

Dear Mr. Terry:

Division of Water Quality (Division) personnel have reviewed and approved your application for a major modification and renewal of the subject permit. Accordingly, we are forwarding the attached NPDES discharge permit. It 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.

A public hearing was held on March 29, 2011 to obtain public comments on the draft permit, which proposed renewing the Outfall 001 discharge of 0.75 to Robeson Creek, and adding a new discharge of 2.47 MGD to the Haw River via Outfall 002. Approximately 50 people attended, and 21 attendees provided oral comments. The public hearing officer reviewed these comments and the written comments, and recommended the following changes to the draft permit, which were incorporated into this final permit:

- The facility proposes to treat to reuse standards. Given this proposed treatment, and the concerns expressed by recreational users of the Haw River near the Highway 64 canoe access, the Outfall 002 limits for fecal coliform were changed to the reuse water quality standards of 14 per 100 mL as a monthly average and 25 per 100 mL as a weekly average.
- Upstream and downstream monitoring of fecal coliform must be performed at Outfall 002 (Haw River), regardless of whether or not the Town maintains membership in the Upper Cape Fear River Basin monitoring coalition. It was also recommended that these sampling data results be posted on the Town's website as soon as possible. This would provide easy public access to the data for those who are considering recreational use of the river.

The only other change to your permit from the draft permit sent to you September 29, 2010 is that footnote number 9 from Table A. (2) was changed to reflect the correct chronic toxicity test dilution (5.1%) for the Haw River outfall.

Please note that Robeson Creek is listed as an impaired waterbody on the 2010 North Carolina 303(d) Impaired Waters List. Outfall 001 contains TP limits to address the Roberson Creek TMDL. Likewise, TN and TP limits are included in combined outfall C01 to address the Jordan Lake TMDL. Addressing impaired waters is a high priority with the Division, and instream data will continue to be evaluated. If there is noncompliance with the permitted effluent limits and stream impairment can be attributed to your facility, then mitigative measures may be required.

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

This permit is not transferable except after notifying the Division of Water Quality. The Division may modify and re-issue, or revoke this permit. Please note that this permit does not affect your legal obligation to obtain other permits required by the Division of Water Quality, the Division of Land Resources, the Coastal Area Management Act, or other federal or local governments.

If you have questions, or if we can be of further assistance, please contact Mr. Gil Vinzani at [gil.vinzani@ncdenr.gov] or call (919) 807-6395.

Sincerely,

[Original Signed by Coleen Sullins June 2, 2011]

Coleen H. Sullins

Enclosure: NPDES Permit FINAL NC0020354

Cc: US EPA Region IV, Pamala Myers (including fact sheet)*
Raleigh Regional Office, Surface Water Protection Section
Environmental Services Section, Aquatic Toxicology Unit, Susan Meadows*
Hobbs, Upchurch & Associates (Adam Kiker, 300 SW Broad St., Southern Pines, NC 28388)
Haw River Assembly (Elaine Chiosso, P.O. Box 187; Bynum, NC 27228)
Construction Grants and Loans Section, Dan Blaisdell*
NPDES Unit Files
Central Files

*E-mail Copy



North Carolina Department of Environment and Natural Resources

Division of Water Quality

Charles Wakild, P. E.
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

February 20, 2013

Mayor Randolph Voller
Town of Pittsboro
PO Box 759
635 East Street
Pittsboro, North Carolina 27312

Subject: Town of Pittsboro /Review of Robeson Creek Discharge
NPDES Permit NC0020354

Dear Mayor Voller:

It was a pleasure meeting with you and Bryan Gruesbeck on January 22, 2013 to discuss potential NPDES wastewater discharge alternatives. This letter addresses the issues discussed in that meeting and in your letter to me dated December 10, 2012. Your current permit provides for a discharge (up to 0.75 MGD) to Robeson Creek, with a future expansion (up to 2.47 MGD) to the Haw River, for a total permitted discharge of 3.22 MGD. Due in part to the high capital costs for a discharge to the Haw River, you requested that Division of Water Quality (DWQ) evaluate the possibility of additional flow being sent to Robeson Creek as an interim wastewater solution. Based on further evaluation by DWQ staff, I offer the following thoughts for your consideration.

Expanding Flow to Robeson Creek Beyond 0.75 MGD.

The limiting factor for additional wastewater flow to Robeson Creek has been the EPA-approved 2004 Total Phosphorus (TP) TMDL, which results in a fixed TP limit of 322 pounds TP/summer season to Robeson Creek. The entire TMDL point source load was allocated to the Pittsboro WWTP. In order to comply with this TP load limit, Pittsboro would need to achieve the following summer average TP effluent concentrations at the specified flows: ~~0.75 MGD (0.24 mg/l TP)~~, 1.0 MGD (0.18 mg/l TP), 1.5 MGD (0.12 mg/l TP), 2.0 MGD (0.09 mg/l TP), ~~2.5 MGD (0.07 mg/l TP)~~, 3.22 MGD (0.05 mg/l TP). Significant progress has been made over the last decade in phosphorus removal mechanisms, to the point where some facilities are meeting limits less than 0.1 mg/l TP. However, these require specialized attention and specialized TP removal processes, and can be costly.

In light of the noted advances in TP reduction, DWQ would be willing to reconsider additional flow to Robeson Creek. As a first step, it is recommended that you seek input from your consulting engineers regarding what additional flow you might propose to discharge to Robeson Creek, based on level of TP treatment required and cost to achieve those levels. Then you might want to schedule another meeting with DWQ for further discussion. Additional steps would include a request to the NPDES Permit Unit

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

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Mayor Voller
February 20, 2013
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for speculative limits for the proposed discharge volume to Robeson Creek, to determine whether there will be any changes to other permit limits (e.g., BOD, ammonia). It might also be advisable to discuss TP treatment design with DWQ's Infrastructure Finance Section/Design Management Unit, as you would ultimately need to secure an Authorization to Construct (ATC) permit and provide engineering designs for treating TP to low levels. Finally, a reminder that both Robeson Creek and Haw River discharge to Jordan Lake, for which the Jordan Lake TMDL sets both Total Nitrogen and Total Phosphorus mass limits based on the total discharge from Pittsboro WWTP.

Potential State Environmental Policy Act (SEPA) Actions.

The Town of Pittsboro received a SEPA Environmental Impact Statement (EIS), Record of Decision, on March 19, 2010, for the wastewater expansion to Haw River. If the Town proposes to increase the wastewater discharge to Robeson Creek, this additional flow must be subtracted from the volume allotted to the Haw River discharge, so the total permitted flow remains at 3.22 MGD. If the requested flow expansion to Robeson Creek exceeds 0.5 MGD, then the SEPA EIS must be reopened.

Robeson Creek Instream Reassessment.

Robeson Creek was initially impaired for chlorophyll-a, which was addressed by the development of the Robeson Creek TP TMDL. The creek is still listed as impaired on the 2012 303(d) list for aquatic life. Significant work has been undertaken to improve water quality conditions. DWQ will attempt to re-evaluate the status of the benthic impairment with additional field sampling this summer.

I hope this information assists you with your future wastewater planning needs. If you have any questions, please contact me or the following DWQ staff for specific technical questions:

NPDES Permitting/Speculative Limits: Tom Belnick, 919-807-6390
SEPA Actions: Jeff Manning, 919-807-6415
ATC Permitting/Design Approval: Seth Robertson, 919-707-9175
Robeson Creek Impairment Rating: Kathy Stecker, 919-807-6422

Sincerely,



Charles Wakild, P.E.

Cc: Bryan Gruesbeck, Pittsboro Town Manager
ECopy: Ted Bush, Matt Matthews, Kathy Stecker, Seth Robertson, Jeff Manning
Danny Smith, Eric Fleek, Tom Belnick, Jeff Poupart

Fred Royal

From: Belnick, Tom <tom.belnick@ncdenr.gov>
Sent: Wednesday, September 4, 2013 10:39 AM
To: froyal@pittsboronc.gov; 'Bryan Gruesbeck'; 'Randy Heard'
Cc: Colson, Kim; Roddy, Jackie; Headrick, Hannah; Reeder, Tom; Smith, Danny
Subject: Pittsboro/NPDES NC0020354

To: Fred Royal, PE
Town Engineer/Town of Pittsboro

Fred- I mentioned at the Pittsboro/NC DWR meeting on 8/29/2013 that I would get back to you with some information on your wastewater situation. Hope the following helps. Feel free to contact me with any questions.

1. Wastewater Issue. Pittsboro is currently permitted to discharge a total of 3.22 MGD, with 0.75 MGD to Outfall 001 (Robeson Creek) and a future discharge of 2.47 MGD to Outfall 002 (Haw River). Given the high cost to construct a new line to the Haw River, Pittsboro is seeking an interim expansion to Outfall 001 (Robeson Creek) at this time, while maintaining a total permitted flow of 3.22 MGD. The amount of additional flow requested for Outfall 001 will be determined based upon the level of total phosphorus (TP) treatment required to comply with the Robeson Creek TP TMDL.
2. NPDES Permitting Steps for Major Modification. Pittsboro will need to apply for a Major Modification to its NPDES permit, which does not expire until 4/30/2016. You should include a Cover letter, EPA Form 2A (you can resubmit your 2010 application if data are no more than 4.5 years old), and a check made out to NC DENR for \$1,030. Please include three (3) copies of the EPA application form. The EPA application form is available at the following link: <http://portal.ncdenr.org/web/wq/swp/ps/npdes/permitapps>. After receipt of your application, a draft permit modification will be developed and sent to public notice for a 30 day comment period, including EPA review. Since Pittsboro recently completed a 20-year flow justification and alternatives analysis for the Haw River expansion, an Engineering Alternatives Analysis (EAA) will not be necessary. You indicated that Pittsboro is considering an increase in permitted flow at Outfall 001 from 0.75 MGD to 1.25 MGD, while maintaining a total permitted flow of 3.22 MGD. Please note that an increase of $\geq 500,000$ gallons per day at Outfall 001 might trigger SEPA requirements (see Item 3 below).
3. SEPA Input. A SEPA EIS, Record of Decision, for the Outfall 002 expansion (Haw River) was issued on 3/19/2010. SEPA requirements do not apply to any expansion of an existing discharge facility of less than 500,000 gallons per day additional flow. A supplemental EIS might be required for the proposed permit modification to reflect the changes from the initial SEPA action. SEPA questions should be directed to our DWR SEPA coordinator Jackie Roddy at 919-791-4298.
4. Project Funding. You indicated that Pittsboro might seek State funding for this wastewater project. Please note that our funding section, Infrastructure Finance Section (IFS), has been reorganized into a new DENR Division of Water Infrastructure (DWI). Please contact Kim Colson with NC DWI at 919-707-9177 with any questions pertaining to wastewater infrastructure funding.
5. ATC Permitting. Please note that the Authorization to Construct (ATC) permitting function has recently been moved from IFS to the NPDES Complex Permitting Unit. Feel free to contact me with any questions. After the NPDES permit modification is completed, you will need to apply for an ATC permit for the WWTP upgrade. Additional information on the ATC application process can be found on our website at the following link: <http://portal.ncdenr.org/web/wq/ifs/permit/atc>.
6. Jordan Lake Total Nitrogen Compliance Changes. As I mentioned last week, the total nitrogen (TN) compliance date for complying with Jordan Lake total nitrogen annual mass limits has been pushed back. Your current permit indicates that TN annual load limits become effective 1/1/2016. HB119 changed the compliance date to CY 2018 (if an ATC is obtained by 12/31/2016), and the more recent SB 515 extends the compliance date for

FAST TRACK SL → 2013-82 [HB 480]

another three years to CY 2021 (if an ATC is obtained by 12/31/2019). These TN compliance dates will be updated with your pending permit modification.

Tom Belnick
Supervisor, NPDES Complex Permitting Unit
NCDWR/Water Quality Programs
919-807-6390

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