

Appendix A

Bermuda Run WWTP NPDES Permit



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

Pat McCrory
Governor

Thomas A. Reeder
Director

John E. Skvarla, III
Secretary

December 27, 2013

Mr. Harold Lee Rollins, Town Manager
Town of Bermuda Run
120 Kinderton Blvd., Suite 100
Bermuda Run, North Carolina 27006

Subject: **NPDES PERMIT ISSUANCE**
Permit Number NC0055158
Bermuda Run WWTP - Class II
Davie County

Dear Mr. Rollins:

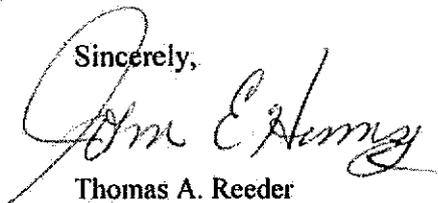
Division personnel have reviewed and approved your application for renewal of the subject permit. Accordingly, we are forwarding the attached final NPDES discharge permit. This permit is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between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

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 permit shall be final and binding.

Please take notice that this permit is not transferable. This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Resources or permits required by the Division of Land Resources, Coastal Area Management Act, or any other Federal or Local governmental permits which may be required.

If you have any questions or need additional information, please do not hesitate to contact Maureen Kinney of my staff at (919) 807-6388.

Sincerely,



Thomas A. Reeder

cc: Central Files
NPDES Unit Files
Winston-Salem Regional Office, Surface Water Protection Section

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

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, the

Town of Bermuda Run

is hereby authorized to discharge wastewater from a facility located at the

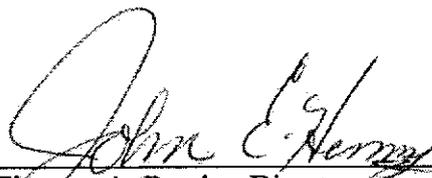
**Bermuda Run WWTP
Juniper Circle
Bermuda Run
Davie County**

to receiving waters designated as the Yadkin River in subbasin 03-07-02 of the Yadkin-Pee Dee River Basin in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III, and IV hereof.

The permit shall become effective **February 1, 2014**.

This permit and the authorization to discharge shall expire at midnight on **January 31, 2019**.

Signed this day **December 27, 2013**.



Thomas A. Reeder, 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 Town of Bermuda Run is hereby authorized to:

1. Continue to operate an existing 0.193 MGD wastewater treatment plant with the following components:

- Influent pumping with high-level alarm
- Bar screen
- Flow splitter box
- Two extended aeration tanks in parallel
- Two clarifiers in parallel
- Two aerobic sludge digesters
- Chlorinator and chlorine contact tank

This facility is located on Juniper Circle at the Bermuda Run WWTP near Bermuda Run in Davie County.

2. Discharge from said treatment works at the location specified on the attached map into the Yadkin River, currently classified as a WS-IV CA waterbody in subbasin 03-07-02 of the Yadkin-Pee Dee River Basin.

PART I

A. (1.) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting until expiration, the Permittee is authorized to discharge from outfall 001. Such discharges shall be limited and monitored¹ by the Permittee as specified below:

EFFLUENT CHARACTERISTICS <i>Parameter Code</i>	LIMITS		MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Measurement Frequency	Sample Type	Sample Location
Flow 50050	0.193 MGD		Continuous	Recording	Influent or Effluent
BOD, 5-day, 20° C ¹ CO310	30.0 mg/L	45.0 mg/L	Weekly	Composite	Influent & Effluent
Total Suspended Solids ² CO530	30.0 mg/L	45.0 mg/L	Weekly	Composite	Influent & Effluent
NH ₃ as N CO610			2/Month	Composite	Effluent
Fecal Coliform (<i>geometric mean</i>) 31616	200/100 ml	400/100ml	Weekly	Grab	Effluent
Total Residual Chlorine ³ 50060	Daily Maximum 28 µg/L		2/Week	Grab	Effluent
Temperature (°C) 00010			Weekly	Grab	Effluent
Total Nitrogen (NO ₂ +NO ₃ +TKN) CO600			Monthly	Composite	Effluent
Total Phosphorus CO665			Monthly	Composite	Effluent
Total Mercury 71900	Monitor & Report		<i>See Footnote 4</i>	Grab	Effluent
pH 00400	≥ 6.0 and ≤ 9.0 Standard Units		Weekly	Grab	Effluent

Footnotes:

1. No later than 90 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.(4.).
2. The monthly average effluent BOD₅ and Total Suspended Solids concentrations shall not exceed 15 percent of the respective monthly average influent value (85% removal).
3. The Division shall consider all effluent TRC values reported below 50 µg/l to be in compliance with the permit. However, the Permittee shall continue to record and submit all values reported by a North Carolina certified laboratory (including field certified), even if these values fall below 50 µg/l.
4. Mercury must be monitored once during the permit cycle. See Special Condition A. (3.) *Effluent Mercury Analysis*.

THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR FOAM VISIBLE IN OTHER THAN TRACE AMOUNTS.

A. (2.) NUTRIENT REOPENER FOR HIGH ROCK LAKE

This permit may be reopened and modified to implement nutrient requirements in accordance with any future TMDL and/or nutrient management strategy for High Rock Lake.

A. (3.) EFFLUENT MERCURY ANALYSIS

Based on the completion and approval of the N.C. Statewide mercury Total Maximum Daily Load (TMDL), the permit now requires one mercury analysis, using EPA Method 1631E, which must be completed within the twelve (12) months prior to the next permit renewal.

A. (4.) ELECTRONIC REPORTING OF DISCHARGE MONITORING REPORTS

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 90 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].