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# Fax

**To:** Mike Zaccardo **From:** Steve Tsadwa

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**Fax:** (919) 367-8791 **Pages:** <sup>10</sup> 9 pages including this page

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**Phone:** **Date:**

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**Re:** Bluffs Subdivision Phase I Permit **CC:**

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- Urgent     For Review     Please Comment     Please Reply     Please Recycle
- 

• **Comments:**



William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director  
Division of Water Quality

October 6, 2008

Mr. Thomas J. Roberts, President and Chief Operating Officer  
Heater Utilities, Inc.  
202 Mackenan Court  
Cary, North Carolina 27511

Subject: Modified Permit No. WQ0030640  
Low Pressure Sewer System  
The Bluffs Subdivision Phase I  
Chatham County

Dear Mr. Roberts:

In accordance with your Permit application received May 1, 2008, and additional information received by the Division of Water Quality (Division), we are forwarding herewith Modified Permit No. WQ0030640 dated October 6, 2008, to Heater Utilities, Inc. for the construction and operation of the subject wastewater collection system.

This Permit shall be effective from the date of issuance until rescinded, shall void Permit No. WQ0030640 issued October 26, 2006, and shall be subject to the conditions and limitations as specified therein.

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

Upon completion of construction and prior to operation of this permitted facility, a certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with the approved plans and specifications. Mail the Certification to the Construction Grants & Loans Section, 1633 Mail Service Center, Raleigh, North Carolina 27699-1633. (Engineer's Certification Form is attached.)

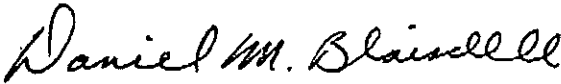
One set of approved plans and specifications is being forwarded to you in a separate transmittal.

One  
North Carolina  
*Naturally*

Mr. Thomas J. Roberts  
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If you need additional information concerning this matter, please contact Steve Tsadwa, E.I., State Review Engineer, at (919) 715-6230 or Seth Robertson, P.E. at (919) 715-6206.

Sincerely,

  
for Coleen H. Sullins

st/sr

cc: Chatham County Health Department  
Seth Robertson, P.E.  
Daniel M. Blaisdell, P.E.  
Steve Tsadwa, E.I.  
Raleigh Regional Office, Aquifer Protection (Permit WQ0022870)  
Mike Zaccardo, P.E., CE Group, Inc., 11000 Regency Parkway, Suite 410, Cary, NC 27518  
Permit Application File WQ0030640

**NORTH CAROLINA**  
**ENVIRONMENTAL MANAGEMENT COMMISSION**  
**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**  
**RALEIGH**  
**WASTEWATER COLLECTION PERMIT**

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In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO  
**HEATER UTILITIES, INC**  
**Chatham County**

FOR THE

construction and operation of a pressure sewer collection system consisting of: approximately 22 linear feet of 2-inch pressure sewer pipe; approximately 85 linear feet of 6-inch pressure sewer pipe; one (1) simplex pump station with on-site audible and visual high water alarm to serve one (1) single family residence as part of The Bluffs Subdivision (Phase 1), and an additional discharge of 250 GPD of collected wastewater into the Buck Mountain Reclaimed Wastewater Facility (WQ0022870), pursuant to the application received on May 1, 2008, and subsequent additional information received by the Division, and in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources and considered a part of this permit.

This permit also grants permission for the:

construction and continued operation of a pressure sewer collection system consisting of 9 - 2.4 HP pump stations with simplex pumps, 19 - 3.5 HP pump stations with simplex pumps, 8 - 6.7 HP pump stations with simplex pumps, on-site audible and visual high water alarms and approximately 4,709 linear feet of 2-inch pressure sewer, approximately 2,999 linear feet of 6-inch pressure sewer, approximately 1,870 linear feet of 8-inch pressure sewer, to serve The Bluffs-Phase 1, and the discharge of 9,000 GPD of collected wastewater into the Buck Mountain Reclaimed WWTF's existing sewerage system, pursuant to the application received August 10, 2006, and subsequent additional information received by the Division, and in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until rescinded, shall void Permit No. WQ0030640 issued October 26, 2006, and shall be subject to the following specified conditions and limitations:

Heater Utilities, Inc.  
October 6, 2008  
Modified Permit No. WQ0030640  
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1. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.
2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
3. The wastewater collection facilities shall be properly maintained and operated at all times. The Permittee shall maintain compliance with an individual system-wide collection system permit for the operation and maintenance of these facilities as required by 15A NCAC 2T .0400. If an individual permit is not required, the following performance criteria shall be met as provided in 15A NCAC 2T .0400:
  - (a) The sewer system shall be effectively maintained and operated at all times to prevent discharge to land or surface waters, and to prevent any contravention of groundwater standards or surface water standards.
  - (b) A map of the sewer system shall be developed and actively maintained.
  - (c) An operation and maintenance plan including pump station inspection frequency, preventative maintenance schedule, spare parts inventory and overflow response shall be developed and implemented.
  - (d) Pump stations that are not connected to a telemetry system (i.e., remote alarm system) shall be inspected by the permittee or its representative every day (i.e., 365 days per year). Pump stations that are connected to a telemetry system shall be inspected at least once per week.
  - (e) High-priority sewers shall be inspected by the permittee or its representative at least once every six-months and inspections are documented.
  - (f) A general observation by the permittee or its representative of the entire sewer system shall be conducted at least once per year.
  - (g) Overflows and bypasses shall be reported to the appropriate Division regional office in accordance with 15A NCAC 02B .0506(a), and public notice shall be provided as required by G.S. 143-215.1C.
  - (h) A Grease Control Program shall be established as follows:
    - (i) For publicly owned collection systems, the Grease Control Program shall include at least bi-annual distribution of educational materials for both commercial and residential users and the legal means to require grease interceptors for new construction and retrofit, if necessary, of grease interceptors at existing establishments. The plan shall also include legal means for inspections of the grease interceptors, enforcement for violators and the legal means to control grease entering the system from other public and private satellite sewer systems.
    - (ii) For privately owned collection systems, the Grease Control Program shall include at least bi-annual distribution of grease education materials to users of the collection system by the permittee or its representative.
    - (iii) Grease education materials shall be distributed more often than required in Parts (i) and (ii) of this Subparagraph if necessary to prevent grease-related sanitary sewer overflows.
  - (i) Right-of-ways and easements shall be maintained in the full easement width for personnel and equipment accessibility.

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- (j) Documentation shall be kept for Subparagraphs (a) through (i) for a minimum of three years with exception of the map, which shall be maintained for the life of the system.
4. The sewage and wastewater collected by this system shall be treated in the Buck Mountain Reclaimed Wastewater Facility (Permit No. WQ0022870) prior to land application.
  5. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Water Quality (Division) accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.
  6. Construction of the sewers, pump station(s) and force main shall be scheduled so as not to interrupt service by the existing utilities nor result in an overflow or bypass discharge of wastewater to the surface waters of the State.
  7. A copy of the approved plans and specifications shall be maintained on file by the Permittee for the life of the wastewater collection facilities.
  8. Upon completion of construction and prior to operation of this permitted facility, a certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications, and other supporting materials. If this project is to be completed in phases and partially certified, you shall retain the responsibility to track further construction approved under the same permit, and shall provide a final certificate of completion once the entire project has been completed. Mail the Certification to the Construction Grants & Loans Section, 1633 Mail Service Center, Raleigh, North Carolina 27699-1633. (Engineer's Certification Form is attached.)
  9. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division, in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.
  10. The issuance of this permit does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e., local, state, and federal) having jurisdiction, including but not limited to applicable river buffer rules in 15A NCAC 2B .0200, soil erosion and sedimentation control requirements in 15A NCAC Chapter 4 and under the Division's General Permit NCG010000, and any requirements pertaining to wetlands under 15A NCAC 2B .0200 and 15A NCAC 2H .0500.
  11. The Permittee shall provide for the pump station and force main the following items:
    - (a) Pump Station Reliability:
      - (i) Pump stations, except when exempted by Subparagraph (j)(2) of 15A NCAC 02T.0305, shall be designed with multiple pumps such that peak flow can be pumped with the largest pump out of service.

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- (ii) A standby power source or pump is required at all pump stations except for those pump stations subject to Subparagraph (j)(2) of 15A NCAC 02T.0305. Controls shall be provided to automatically activate the standby source and signal an alarm condition.
  - (iii) As an alternative to Part (ii) for pump stations with an average daily design flow less than 15,000 gallons per day as calculated using 15A NCAC 02T.0114, a portable power source or pumping capability may be utilized. It shall be demonstrated to the Division that the portable source is owned or contracted by the permittee and is compatible with the station. If the portable power source or pump is dedicated to multiple pump stations, an evaluation of all the pump stations' storage capacities and the rotation schedule of the portable power source or pump, including travel timeframes, shall be provided in the case of a multiple station power outage.
  - (iv) As an alternative to Part (ii) for pump or vacuum stations connecting a single building to an alternative sewer system, wet well storage requirements shall be documented to provide 24-hours worth of wastewater storage or, exceed the greatest power outage over the last three years or the documented response time to replace a failed pump, whichever is greater. Documentation shall be required pursuant to the permit application.
  - (v) All pump stations designed for two pumps or more shall have a telemetry system to provide remote notification of a problem condition to include power failure and high water alarm.
  - (vi) High water audio and visual alarm.
- (b) Pump stations shall have a permanent weatherproof sign stating the pump station identifier, 24-hour emergency number and instructions to call in case of emergency. Simplex pump or vacuum stations serving a single-family residence shall have a placard or sticker placed inside the control panel with a 24-hour emergency contact number.
  - (c) Screened vents for all wet wells.
  - (d) The public shall be restricted access to the site and equipment.
  - (e) Air relief valves shall be provided at all high points along force mains where the vertical distance exceeds ten feet.
12. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those that may be required by this Division, such as the construction of additional or replacement wastewater collection facilities.
13. The facilities shall be constructed in accordance with the requirements of the North Carolina Sedimentation Pollution Control Act.

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14. If applicable, the Operational Agreement between the Permittee and the Environmental Management Commission is incorporated herein by reference and is made a condition of this Permit. Noncompliance with the terms of the Operational Agreement may subject the Permittee to an enforcement action by the Division in accordance with North Carolina General Statute 143-215.6A to 143-215.6C. A copy of the Articles of Incorporation, Declarations, and Bylaws that have been properly filed shall be submitted with the engineer's certification prior to operation.
15. Any abandoning of the existing facilities must be done in accordance with the requirements of the Division of Water Quality's Raleigh Regional Office.
16. Noncompliance Notification:

The Permittee shall verbally report to a water quality staff member at the Raleigh Regional Office, telephone number (919) 791-4200, as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of either of the following:

- a. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater transport such as mechanical or electrical failures of pumps, line blockage or breakage, etc.
- b. Any failure of a pumping station or sewer line resulting in a by-pass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.

Voice mail messages or faxed information is permissible but this shall not be considered as the initial verbal report. Overflows and spills occurring outside normal business hours may also be reported to the Division of Emergency Management at telephone number (800) 858-0368 or (919) 733-3300. Persons reporting any of the above occurrences shall file a spill report by completing Part I of Form CS-SSO (or the most current Division approved form), within five days following first knowledge of the occurrence. This report shall outline the actions taken or proposed to ensure that the problem does not recur. Per Condition I(2), Part II of Form CS-SSO (or the most current Division approved form) can also be completed to show that the SSO was beyond control.

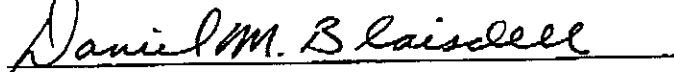
17. The Permittee shall maintain on hand for immediate installation a supply of spare, fully operational pump units of each type used in the pressure sewer system. The number of pumps on hand shall not be less than 10 percent of the number of installed units or one unit, whichever is greater.



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Permit issued this the 6<sup>th</sup> Day of October 2008

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



*for* Coleen H. Sullins, Director  
Division of Water Quality  
By Authority of the Environmental Management Commission

Modified Permit No. WQ0030640

Heater Utilities, Inc.  
Modified Permit No. WQ0030640  
Issued October 6, 2008

**ENGINEER'S CERTIFICATION**

I, \_\_\_\_\_, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically/weekly/full time) the construction of the low pressure sewer collection system serving The Bluffs Subdivision (Phase 1), located in Chatham County, hereby state that to the best of my abilities, due care and diligence was used in the observation of the following construction:

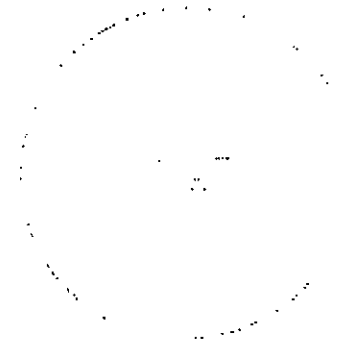
a pressure sewer collection system consisting of: approximately 22 linear feet of 2-inch pressure sewer pipe; approximately 85 linear feet of 6-inch pressure sewer pipe; one (1) simplex pump station with on-site audible and visual high water alarm to serve one (1) single family residence as part of The Bluffs Subdivision (Phase 1), in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources.

I certify that the construction of the above referenced project was observed to be built within substantial compliance and intent of the approved plans and specifications.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_

Date \_\_\_\_\_

Mail this Certification to: Construction Grants & Loans Section  
DENR/DWQ  
1633 Mail Service Center  
Raleigh, North Carolina 27699-1633.



Note: If the wastewater collection permit was issued to a private entity under an Operational Agreement with the Environmental Management Commission, then a copy of the Articles of Incorporation, Declarations, and Bylaws that have been properly filed with the applicable County's Register of Deeds shall be submitted with this certification.