



UNC  
ENVIRONMENT,  
HEALTH & SAFETY

The University of North Carolina at Chapel Hill  
Department of Environment, Health & Safety  
1120 Estes Drive Ext., CB# 1650  
Chapel Hill, North Carolina 27599-1650

March 30, 2010

S. Jay Zimmerman  
RRO Aquifer Protection Supervisor  
DENR Division of Water Quality  
1628 Mail Service Center  
Raleigh, NC 27699-1628

Subject: The University of North Carolina at Chapel Hill (UNC-Chapel Hill) Bingham Facility

Dear Mr. Zimmerman:

I am writing in response to your February 23, 2010 letter in which you requested additional information by March 31, 2010 pertaining to the formerly deemed permitted animal waste treatment facility at the Bingham Facility. The requested documents, which are listed below, are attached for your review.

Attachment 1: Copies of any and all engineering plans and specifications for the originally proposed treatment and disposal system.

Attachment 2: Copies of any and all "as -built" plans and specifications for the treatment and disposal system constructed.

Attachment 3: Copies of any and all change orders with description and engineer certification approving the changes.

Attachment 4: Results of any and all investigative studies on the integrity of the treatment system units and/or pond liners.

Please note that we are not including a justification for any portion of the original design that was omitted in the final treatment and disposal system because there were no such omissions from the final treatment and disposal system that are not covered by the change orders found in Attachment 3. Please contact me at 919.843.5913 if you have any questions or comments.

Sincerely,

Mary Beth Koza  
Director, Environment, Health and Safety

Attachments

Cc: Larry Daw letter only  
Sally Hoyt letter only



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## Attachment 1

Specifications, Proposal, Contract, and Bonds

UNC-Chapel Hill Resource Research Facility  
Utilities Project

Prepared by: Dielh & Phillips, P.A., in association with BJAC P.A.

Printed on 1-30-2008



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## Attachment 2

Specifications, Proposal, Contract, and Bonds

UNC-Chapel Hill Resource Research Facility  
Utilities Project

Prepared by

Designer of Record: BJAC, P.A.

Subconsultant  
Dielh & Phillips, P.A.  
Record Document  
State ID No. 010544202B  
Received 10-12-2009

Final Report  
Research Resource Facility Utilities Project  
ID No. 010544202B  
BJAC P.A.  
September 2009



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## Attachment 3

Resource Research Facility Utilities Project  
ID 010544202B Change Order #1 Dated 7-18-2008

Resource Research Facility Phase 2-bldg #3  
ID 010544202B Change Order #2 Dated 11-04-2008

Resource Research Facility Utilities Project  
ID 010544202B Change Order #3 Dated 8/17/2009



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## **Attachment 4**

Report of Geotechnical Exploration RFF Wastewater Pond Embankments  
Prepared by  
MACTEC Engineering and Consulting, INC NC License F-0653  
Dated 11/17/2009

Repairs for the Two Effluent Storage Ponds at the Bingham Facility  
Prepared by  
Diehl & Phillips, P.A.  
Dated 2-18-2010

Leak Test Survey  
Bingham Facility, The University of North Carolina at Chapel Hill  
Chapel Hill, North Carolina  
THG Project No. 403-4441  
Dated 3-25-2010 Large and Medium Ponds

Leak Test Survey  
Bingham Facility, The University of North Carolina at Chapel Hill  
Chapel Hill, North Carolina  
THG Project No. 403-4441  
Dated 3-25-2010

### **Correspondence from UNC-Chapel Hill to DENR**

Letter dated 11/23/2009; Subject: Piping Leak University of North Carolina at Chapel Hill, Research Resource Facility Animal Waste Treatment System (Deemed Permitted System)

Letter dated 12/11/2009; Subject: Large Storage Pond Leak, University of North Carolina at Chapel Hill, Research Resource Facility Animal Waste Treatment System (Deemed Permitted System)

Email dated 1/14/2010; Subject: Broken Check Valves at UNC-Chapel Hill Bingham Facility

Letter dated 1/15/2010; Subject: The University of North Carolina at Chapel Hill, Research Resource Facility Notice of Violation NOV 2009-DV-0362

Letter dated 2/15/2010; Subject: The University of North Carolina at Chapel Hill, Bingham Facility Notice of Intent NOV 2009-DV-0362

Letter dated 2/19/2010; Subject: The University of North Carolina at Chapel Hill, Bingham Facility Wastewater Treatment System Permit WQ0023896

Letter dated 3/23/2010; Subject: The University of North Carolina at Chapel Hill, Bingham Facility Notice of Violation NOV 2010 -PC-0215