

5103Permit2006 - Batch No. _____

Johnston Co.

51032006

ATTACHMENT 1
 Approved Documents

PART I: GENERAL FACILITY CONDITIONS

Issuance	Date
Permit No. 51-01	Original Issue
Permit No. 51-01	January 22, 2002
Permit No. 51-02 (PTC)	December 22, 1995
Permit No. 5102 (PTO)	August 6, 1997
Permit No. 51.02 (PTO)	March 21, 2001
Original Issue (PTC) 51-03	April 3, 2002
Original Issue (PTO) 51-03	April 3, 2002
Version 1 (PTO) 51-03 C&D Phase 4A	December 20, 2002
Version 2 (PTO) 51-03 C&D Area 1	August 2, 2005

PART II: MUNICIPAL SOLID WASTE (MSW) LANDFILL CONDITIONS

1. *Permit to Construct Application. Johnston County MSW Landfill-Phase 4A. Johnston County, North Carolina.* Prepared for: Johnston County Department of Public Utilities, 204 E. Second Street. Smithfield, North Carolina, 27577. Prepared by: G.N. Richardson & Associates, Inc. 425 N. Boylan Avenue, Raleigh, North Carolina 27603. April 2000. Revised December 2001. Volume 1 of 2, Design Engineering. Volume 2 of 2, Design Hydrogeologic Report, revised January 2002.
2. *Johnston County MSW Landfill-Phase 4A. Permit Drawings.* Prepared for: Johnston County Department of Public Utilities. Prepared by: G.N. Richardson & Associates, Inc. 425 N. Boylan Avenue, Raleigh, North Carolina 27603. April 2000. Revised December 2001. 38 Sheets.

PART III: CONSTRUCTION AND DEMOLITION LANDFILL CONDITIONS

1. *Johnston County C&D Landfill Vertical Expansion.* Prepared for: Johnston County Department of Public Utilities. Prepared by: G.N. Richardson & Associates, Inc. 425 N. Boylan Avenue, Raleigh, North Carolina 27603. December 1998. (Modification no. 1 to Permit no. 51-01)
2. Cap Closure Certification Letter for the Johnston County Landfill dated 21 December 1998 by G.N. Richardson & Associates and received 22 December 1998 and incorporated into the approved application.
3. *Permit Modification Application. Johnston County C&D Landfill Vertical Expansion. Johnston County, North Carolina.* Prepared For: Johnston County Department of Public Utilities, 204 E. Second Street. Smithfield, North Carolina, 27577. Prepared By: G.N. Richardson & Associates, Inc. 425 N. Boylan Avenue, Raleigh, North Carolina 27603. January 2002. (Modification no. 2, Area 4A, Permit No. 51-01)

4. *Permit to Construct Application. Johnston County C&D Landfill – Area 2. Johnston County, North Carolina.* Prepared for: Johnston County Department of Public Utilities, 309 E. Market Street, Smithfield, North Carolina. Prepared by: G.N. Richardson & Associates, Inc. 14 N. Boylan Avenue, Raleigh, North Carolina 27603. October 2005. Revised May 2006.

PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL CONDITIONS
(NOT APPLICABLE)

PART V: YARD WASTE CONDITIONS
(NOT APPLICABLE)

PART VI: MISCELLANEOUS TREATMENT AND PROCESSING FACILITIES CONDITIONS
(NOT APPLICABLE)

- End of Section -

ATTACHMENT 2
Conditions of Permit to Construct

Part I General Facility Conditions

1. This permit shall be effective upon compliance with 15A NCAC 13B .0204 and when the certified copy with the page, book number, date of recording, and Register's seal is returned to the Solid Waste Section (Section).
2. This permit approves the Facility Plan that defines the comprehensive development of the facility including the total municipal solid waste landfill capacity, the municipal solid waste stream, all onsite solid waste management facilities and related facility infrastructure in accordance with 15 NCAC 13B .1619.
 - a. The approved plans are described in Attachment 1, "Approved Documents".
 - b. Where discrepancies may exist, the most recent approved submittal and Conditions of Permit shall govern.
3. Facility 51-03 is a combination of facility permit 51-01 and 51-02 and describes 84.8 acres of closed unlined MSW units identified as units 1, 2, 3, and 4 with a gross capacity of 3,538,233 cubic yards. Phase 5 is an inactive lined MSW cell with a gross capacity of 1,087,199 cubic yards. Phase 4A is a lined MSW cell that piggy-backs the unlined MSW units 3 and 4, and has a gross capacity of 2,513,465 cubic yards for Cells 1, 2, and 3, consistent with the approved final contours and as described in Attachment 1, "Approved Documents", Part III, Document 4, Table 2.2A. Gross capacity is the volume calculated from the top of the protective cover through the top of the final cover.
4. Modifications to the facility may be required in accordance with rules in effect at the time of review of the request.
5. Should this municipal solid waste landfill facility be sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the description section in no smaller type than that used in the body of the deed or instrument a statement that the property has been used as a sanitary landfill and a reference by book and page number to the recordation of the permit.
6. The approved facility boundary consists of approximately 500 acres. Excluding the closed unlined MSW units identified as units 1, 2, 3, and 4, the facility has a total gross design volume of approximately 19,900,00 cubic yards as described in the Permit to Construct application identified as Attachment 1, "Approved Documents", Part III, Document 4, Table 2.2A. In accordance with the local government approval, the facility has:
 - a. approximately 154.7 acres of lined MSW units (Phases 4A and 5-10) with a gross volume of 18,367,420 cubic yards, and

- b. approximately 32.0 acres of C&D areas (Areas 1 and 2) with a gross volume of approximately 1,487,000 cubic yards.
7. The landfill is permitted to dispose solid waste that meets the definition provided in North Carolina General Statutes Chapter 130A-290(a)(35) and to accept for disposal solid waste generated from within the State of North Carolina except as otherwise prohibited by North Carolina General Statutes Article 9 of Chapter 130A and rules adopted by the Commission for Health Services. The annual disposal rate shall be no more than 350,000 tons/year, and no more than 156,000 tons/year (500 tons/day) shall be waste generated outside of Johnston County.
8. The owner or operator of the landfill facility shall not knowingly dispose of any type or form of municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
 - a. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
 - b. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
9. The facility is subject to the requirements of all applicable sections of the most recent version of the North Carolina Solid Waste Management Rules 15A NCAC 13B and the specific conditions contained herein.
10. This facility shall conform to the specific conditions set forth in this permit and the provisions of 15A NCAC 13B .1604(b)(2).
11. This facility permit is issued under the criteria set forth in 15A NCAC 13B .1603(a)(2). Any facility changes that are in conflict with the criteria established in 15A NCAC 13B .1603(a)(1) may require a new permit.
12. Johnston County shall submit an amendment to this permit pursuant to 15A NCAC 13B .1603(a)(2) for any subsequent phase of development.

Facility Construction Conditions

13. Johnston County shall conduct a preconstruction meeting, on site, prior to initiating construction of any unit/cell at the site and shall notify the Solid Waste Section 10 days prior to said meeting.
14. Construction of all solid waste management units within this facility shall be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment 1, "Approved Documents."

15. Additional conditions and revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the North Carolina Solid Waste Section.
16. Any modifications in sedimentation and erosion control activities require approval by the Land Quality Section. The Solid Waste Section shall be notified of any sedimentation and erosion control modifications.

Facility Pre-Operative Conditions

17. Prior to receiving waste at any unit of this facility, a Permit to Operate must be obtained from the Solid Waste Section in accordance with 15A NCAC 13B .0201(b).
18. The following requirements shall be met prior to waste disposal for any unit of this facility:
 - a. Site preparation shall be in accordance with the approved plans and the conditions specified herein.
 - b. The Permittee shall arrange for a site inspection of the facility by a representative of the Solid Waste Section. The purpose of the inspection will be for the operator to demonstrate that the facility construction is consistent with approved plans and specifications.
 - c. Prior to waste disposal in any new unit or cell, the Permittee shall contact the appropriate regional Solid Waste Management Specialist to determine whether the Solid Waste Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Solid Waste Section.

PART II Municipal Landfill Unit Specific Conditions

Pre-Operational Conditions

19. Ground water monitoring wells and surface water sampling locations shall be sampled for the Appendix I constituent list prior to issuing the Permit to Operate.

Construction Conditions

20. The owner's geologist shall examine the cell excavation and note any pertinent geologic features exposed during the construction process. Prior to the placement of any liner materials, the owner's geologist shall notify the Solid Waste Section Hydrogeologist in writing of the subgrade conditions and whether the subgrade conditions will adversely affect the design, construction or operation of the unit.
21. The owner's geologist shall be present to supervise all new monitoring well installations.
 - a. Any modification to the approved water quality monitoring plan shall be submitted to the Section Hydrogeologist for review and approval.
 - b. Documentation of all changes to the approved plan shall be submitted with the well construction records.

22. For each new monitoring well constructed, a well construction record, well schematic, boring log and a description of well development activities shall be submitted to the Section within 30 days upon well completion.

- End of Section -

PART III CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

1. This permit approves the construction of the Johnston County Landfill Construction and Demolition area identified as Cell 1 of Area 2. Construction of Cell 2 of Area 2 will require written permission of the Solid Waste Section. Development of Area 2 shall only be in accordance with the Division approved plans identified as Attachment 1, "Approved Documents", Part III, Document 4.
2. Cell 1 of Area 2 is approximately 11.3 acres with a projected 6 year life. The total gross volume is 451,611 cubic yards with a net waste capacity for the 5-year planning period of 389,897 cubic yards (233,938 tons). The cumulative waste tonnage for the period is based on design waste receipts of 150 tons per day for 312 operating days per year.
3. All sedimentation/erosion control activities will be conducted in accordance with the Sedimentation Control Act codified at 15 NCAC 4. Native vegetation shall be established on the completed landfill.

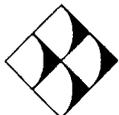
PART IV LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS (NOT APPLICABLE)

PART V YARD WASTE UNIT SPECIFIC CONDITIONS

1. Yard Waste shall be managed within the facility in the area identified on Sheets 2 and 3 of Document 2 of Appendix 1, Part II. Management of Yard Waste in areas of the facility other than that referenced above, require written permission of the Solid Waste Section.

PART VI MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC CONDITIONS (NOT APPLICABLE)

- End of Section -



DWA COPY

May 19, 2006

Ms. Toni Wyche, Environmental Engineer II
NC DENR - Division of Waste Management
401 Oberlin Road, Suite 150
Raleigh, NC 27605



**RE: Johnston County Landfill (Permit No. 51-03)
C&D Landfill - Area 2
Edits to Permit to Construct Application**

Dear Toni:

Per our conversation, G.N. Richardson & Associates, Inc. (GNRA) would like to submit the following edits to the permit to construct application for the Area 2 C&D landfill unit:

Attachment A: Facility and Engineering Plan

1. Section 2.2.3.2 (Maximum Disposal Rates):

Revised this section to reflect the wording in the local government approval (see Appendix B). Also, deleted Table 2.1C (Projected Maximum MSW Tonnages) as this information is summarized in the revised text.

2. Section 2.2.4 (Service Area):

Revised this section to reflect the wording in the local government approval (see Appendix B).

3. Capacity and Volume Information:

Revised Tables 2.2B, 2.3, 2.6, and 2.8 to reflect minor capacity and earthwork quantity changes due to the revised grading plans prepared and submitted in March 2006. The respective calculations in Appendix A were also revised.

Attached is a revised copy of the Facility and Engineering Plan up through Appendix A (Appendix B remains the same). Please replace the applicable text in your copy.

Attachment D: Operations Manual

1. Section 3.3.3 (Leachate Quality Sampling):

Revised section to include sampling the Area 2 C&D landfill unit at the side risers (Note that Detail 4/LM2 of the permit drawings shows the location of the sampling port.).

Attached is a revised copy of the Operations Manual text (All Appendices remain the same). Please replace the applicable text in your copy.

Ms. Toni Wyche
May 19, 2006
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Should you have any questions or comments on this submittal, please contact me at your earliest convenience.

Sincerely,
G.N. Richardson & Associates, Inc.

A handwritten signature in black ink, appearing to read "Pieter K. Scheer". The signature is fluid and cursive, with the first name being the most prominent.

Pieter K. Scheer, P.E.
Project Manager

Attachments: Revised Facility and Engineering Plan (through Appendix A)
Revised Operations Manual (Text Only)

cc: Johnston County (x2)

FINAL FACT SHEET AND PERMIT DECISION
PERMIT NUMBER: 51-03

FACILITY: Johnston County Landfill
COUNTY: Johnston
CITY: Smithfield, North Carolina
DOC ID: RCO389
OWNER & OPERATOR: Johnston County
PO Box 2263
Smithfield, NC 27577

Description

A Solid Waste Permit, Part 1: Permit to Construct, has been prepared by the Division of Solid Waste Management (Division) for the expansion of disposal capacity at the Johnston County Municipal Solid Waste Landfill (MSWLF) and for the construction and operation of Area 2 (Cell 1) construction and demolition (C&D) disposal unit at the existing MSWLF. The new facility permit also expands the service area of the facility to include the entire state of North Carolina. The Division has determined that the proposed facility plan, engineering plan, construction quality assurance plan, operation plan, closure and post-closure plan and the water quality monitoring plan, as identified in the application, satisfy the requirements and intent of the North Carolina Solid Waste Management Rules, codified as 15A NCAC 13B .1600.

The Johnston County Landfill is owned and operated by Johnston County. The facility is located on County Home Road off Highway 210 near Smithfield, North Carolina and operates under NC Solid Waste Permit 51-03. The landfill facility includes an active MSWLF, a separate active C&D landfill unit (Area 1), a landfill office, scales and scale house, a citizen's convenience center, and a yard waste processing area. The facility boundary encompasses approximately 500 acres, including 84.8 acres of closed unlined municipal solid waste (MSW) units, 154.7 acres of lined MSW units existing and proposed, and 32 acres of C&D area existing and proposed. Area 2 will be a 15.8 acre lined C&D landfill unit adjacent to and east of the closed Phase 3 MSW unit in a former borrow area. A portion of Area 2 will overlie (piggyback) the Phase 3 side slopes. Area 2 C&D unit has a projected life of 11 years with a gross disposal capacity of approximately 914,269 cubic yards. This permit approves the facility plan and construction of Cell 1 of Area 2. Any future cells or areas will be reviewed for permitting and construction in the future. Cell 1 of Area 2 will be 11.3 acres and has been designed for approximately 6 years of disposal volume with a gross capacity of 451,611 cubic yards. If waste receipts do not reach the permitted levels, the project could last longer. The total annual disposal rate for the MSWLF and the C&D units shall be no more than 350,000 tons/year, and no more than 156,000 tons/year (500 tons/day) shall be waste generated outside of Johnston County in accordance with the local approval granted by the Board of County Commissioners of Johnston County.

The MSWLF is permitted to dispose of household, industrial, and commercial solid waste. Hazardous or other banned wastes, such as yard waste and white goods, are not approved for disposal. Separate areas are provided for the management of construction and demolition debris,

yard waste, white goods and scrap tires. A convenience center is also provided for the public. The facility will accept waste from the state of North Carolina. This revised facility plan adds approximately 12,300,000 cubic yards of gross disposal capacity to the facility. The facility will have a total gross disposal volume of approximately 19,900,000 cubic yards.

Permit Structure

The permit is divided into sections. Part 1 is the Permit to Construct and Part 2 in the Permit to Operate.

Public Comment Period

North Carolina Solid Waste Management Rules require that the public be given a 45-day period to comment on the draft permit. This 45-day period began on June 26, 2006. The permit was, and still is, available for review by appointment from 9 AM to 4 PM, Monday-Friday, at the Division of Waste Management, 401 Oberlin Road, Raleigh, NC. All data submitted by the applicant is available as part of the administrative record. Persons wishing to comment on either this permit or the proposed permit conditions should have submitted their comments in writing by 5 PM, August 10, 2006. Comments should have been sent to the address shown below and included the permit number. No comments were received within the 45-day period to be considered in making the final determinations regarding the permit.

Division Contact

Comments and requests for more information should be sent to:

Ms. Toni Wyche, EI
North Carolina Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
(919) 508-8510
FAX (919) 733-4810
E-mail: Toni.Wyche@ncmail.net

Public Hearing Notice

The North Carolina Solid Waste Management Rules provide for a public hearing. A public hearing on the draft permit has not been scheduled for this permit. No parties contacted the Division to request a public hearing, therefore a hearing was not held.

Permit Decision

The Permit to Construct, 51-03, was issued to Johnston County on August 31, 2006.