



Facility Permit No: 34-05-Industrial
R.J. Reynolds Rural Hall Ash Landfill
Closure Modification
August 12, 2011
Doc ID:14624
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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

**STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION**

**INDUSTRIAL SOLID WASTE LANDFILL FACILITY
Permit No. 34-05-Indus-1986**

R.J. REYNOLDS TOBACCO CO.

(OWNER)

Is hereby issued a

LETTER OF CLOSURE MODIFICATION

R. J. REYNOLDS RURAL HALL ASH LANDFILL (CLOSED)

INDUSTRIAL PROCESS WASTE LANDFILL UNIT

Located on Edwards Road, North East of Rural Hall, Forsyth County, North Carolina in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located and described by the legal description of the site or the property map contained within the approved application.

Edward F. Mussler, III, P.E.,
Permitting Branch Supervisor
Solid Waste Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Telephone 919-508-8400 \ Fax 919-733-4810 \ Internet <http://wastenotnc.org>

An Equal Opportunity / Affirmative Action Employer – Printed on Dual Purpose Paper

ATTACHMENT 1

PART I: PERMITTING HISTORY

Issuance	Date	Doc. ID No.
Permit to Operate	May 29, 1986	
Permit Expired	December 31, 2002	
Closure Modification	August 12, 2011	14624

1. Stopped receiving waste ~ December 31, 2002.
2. Approval of the *Transition Plan* ~ December, 1999.
3. Approval of the *Permit Modification of the Transition Plan* - February 8, 2001.
4. R.J. Reynolds Tobacco Co requested closure of the site on June 6, 2004.
5. R.J. Reynolds Tobacco Co was issued a compliance order - April 17, 2009

PART II: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Description	Deed Book	Page No.	Acreage	Owner	PIN
Edwards Road	2975	2644	145.18	R J Reynolds Tobacco Co.	6921-22-4389.00
Total Site Acreage =			145.18		

PART III: LIST OF APPROVED DOCUMENTS

Closure Plan Modification

1. Letter from ERM NC, Inc. on behalf of R. J. Reynolds Tobacco Co., to NCDENR – Division of Waste Management seeking approval for modifications to landfill closure cap. May 27, 2011. DIN 14055.
2. *Proposed Closure Modification, Former Edwards Road Landfill, Rural Hall, North Carolina. Including Plans, Technical Specs. & CQA Plan.* Prepared by ERM NC, INC. Prepared for R.J. Reynolds Tobacco Company. March 10, 2011. DIN 14356. Revised July 15, 2011. DIN 14689.

Post-Closure Use Plan(s)

Ground Water Corrective Action Plan(s)

1. Letter from ERM NC, Inc. on behalf of R. J. Reynolds Tobacco Co., to NCDENR – Division of Waste Management seeking approval for Water Supply Well Survey and Sampling. June 30, 2009. DIN 7918.
2. *Preliminary Site Assessment Work Plan, Rural Hall Ash Landfill Permit No. 34-05 Rural Hall, Forsyth County, North Carolina.* Prepared by ERM NC, INC. Prepared for R.J. Reynolds Tobacco Company. July 2009. DIN 8020.
3. *Summary Report – Preliminary Site Assessment, Ash Landfill Permit No. 34-05, Rural Hall, Forsyth County, North Carolina.* Prepared by ERM NC, INC. Prepared for R.J. Reynolds Tobacco Company. October 29, 2009. DIN 8861.
4. *Monitor Well Permit Application, Edwards Road Landfill - Permit #34-05.* Prepared by ERM NC, INC. Prepared for R.J. Reynolds Tobacco Company. December 6, 2010. DIN 12616.
5. *Summary Report – Phase II Site Assessment, R.J. Reynolds Edwards Road Landfill – Permit #34-05, Rural Hall, Forsyth County, North Carolina* Prepared by ERM NC, INC. Prepared for R.J. Reynolds Tobacco Company. March 10, 2011. DIN 13410.
6. *Off-Site Access & Groundwater Modeling, R.J. Reynolds Ash Landfill – Permit #34-05.* Prepared by ERM NC, INC. Prepared for R.J. Reynolds Tobacco Company. July 6, 2011. DIN 14344.

PART IV: GENERAL FACILITY CONDITIONS

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B.
2. The person(s) to whom this permit is issued (“permittee”) are the owner(s) and operator(s) of the solid waste management facility.
3. (Intentionally Blank)
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must 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 to the recordation of the permit.
5. (Intentionally Blank)
6. Construction and maintenance of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the permit application for the facility including those identified in Attachment 1, “List of Documents for Approved Plan,” which constitutes the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.
8. This permit may be transferred only with the approval of the Section and through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g) the permittee shall notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.
9. The permittee is responsible for obtaining all permits and approvals necessary for the Closure and Post Closure of this facility including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the permittee’s responsibilities for compliance with any other local, state or federal rule, regulation or statute.

- End of Section -

ATTACHMENT 2

CONDITIONS OF PERMIT TO CONSTRUCT

PART I: INDUSTRIAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

1. Construction of all solid waste management units within this facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment I, Part III, List of Documents for the Approved Plan.
2. The permittee must conduct a preconstruction meeting at the facility prior to initiating construction of any unit and must notify the Section at least 10 days prior to the meeting.
3. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.
4. Construction Quality Assurance (CQA) documentation and a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval.
5. Pursuant to the NC Solid Waste Management Rule (Rule) 15A NCAC 13B .1626(5) burning of land-clearing debris generated on site as a result of construction activities requires approval by the Section prior to initiating the burn. In addition, the Division of Air Quality and local fire department must approve the activity prior to burning.
6. The edge of the waste footprint must be identified with permanent physical markers.

Geologic, Ground Water and Monitoring Requirements

7. Groundwater quality at this facility is subject to the "Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina," 15A NCAC 2L. This includes, but is not limited to, the provisions for detection monitoring, assessment, and corrective action.
8. In areas where soil is to be undercut, abandoned piezometers, monitoring wells and borings must not be grouted to pregrade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.
9. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase, borrow area or cell excavation. The geologist must submit to the Section hydrogeologist a written

report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.

10. A Licensed Geologist must supervise installation of groundwater monitoring wells and surface water sampling stations.
11. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.
12. Within 30 days of completed construction of each new groundwater monitoring well, a well construction record (GW-1 form), typical well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section. Each monitoring well and gas probe must be surveyed for location and elevation.
13. The permittee must submit to the Section a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells.
14. Within thirty (30) days of the completed permanent abandonment of a groundwater monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record must be submitted to the Section. The well abandonment records must be submitted to the Section consistent with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.
15. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans. Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.
16. Each groundwater monitoring well and landfill gas monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
17. All forms, reports, maps, plans and data submitted to the section must include an electric copy.
18. Monitoring reports of the analytical results for surface water and groundwater monitoring sampling events must be submitted to the Section within 120 days of the sample collection date. Analytical laboratory data must be submitted in electronic portable document format (pdf) and in a spreadsheet format in an Electronic Data Deliverable (EDD) Template. All monitoring reports must contain:
 - a. a potentiometric surface map for the current sampling event,
 - b. analytical laboratory reports and summary tables,

- c. a completed Solid Waste Environment Monitoring Data Form, and
- d. laboratory data submitted in accordance with the EDD Template.

Erosion and Sedimentation Control Requirements

- 19. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the facility boundary.
- 20. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
- 21. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
- 22. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.
- 23. The permittee must maintain a record of all monitoring events and analytical data. Reports of the sampling events and analytical data must be submitted to the Section in a timely manner.

ATTACHMENT 3 POST-CLOSURE CONDITIONS

PART I: GENERAL CONDITIONS

- 24. The permittee must maintain the integrity and effectiveness of the cap system, including making repairs to the cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and prevent surface water from impounding over waste and run-on and run-off from eroding or otherwise damaging the cap system.
- 23. Post-closure use of the property is subject to review and approval by the Division and must not disturb the integrity of the cap system, or the function of the monitoring systems. The Division may approve any other disturbance if the owner or operator demonstrates that disturbance of the cap system, including any removal of waste, will not increase the potential threat to human health or the environment.

25. Any proposed expansion to the closed landfill shall be considered a new landfill for purposes of Solid Waste Management permitting if it is defined as a substantial change (N.C.G.S. 130A-294 (b1)(1).

- End of Section –