



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

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Director

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Secretary

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

**INDUSTRIAL LANDFILL
PERMIT NO. 24-02**

INTERNATIONAL PAPER
is hereby issued a

PERMIT TO OPERATE
INTERNATIONAL PAPER INDUSTRIAL LANDFILL
CELL 1 VERTICAL EXTENSION

located off John L. Riegel Road, Columbus 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
Permitting Branch

ATTACHMENT 1

PART I: Permitting History

| Issuance | Date |
|--|-------------------|
| Permit to Construct Cell 1 | December 30, 2002 |
| Permit to Operate Cell 1 | February 17, 2005 |
| Permit to Construct Cell 1 Extension Amendment | September 3, 2008 |
| Permit to Operate Cell 1 Extension | September 9, 2009 |

PART II: List of Documents for the Approved Plan

Industrial Landfill Lateral Expansion Permit Application, International Paper, Riegelwood, North Carolina. (Permit Number 24-02). Prepared for: International Paper, Riegelwood, NC. Prepared by: G.N. Richardson & Associates, Inc. Raleigh, NC. February 2002.

Drawings entitled: *International Paper. Columbus County, North Carolina. Industrial Landfill Permit Application.* February 2002. 27 Sheets.

Construction Quality Assurance Report, International Paper-Riegelwood Mill, Industrial Landfill, Cell 1 Construction. Permit Number 24-04. Prepared for: International Paper-Riegelwood Mill, 805 John L. Riegelwood Road, Riegelwood, North Carolina 28456. Prepared by: G.N. Richardson & Associates, Inc. Raleigh, NC. December 2003.

Water Quality Monitoring Plan / International Paper – Riegelwood Mill Industrial Landfill. Prepared by: G.N. Richardson & Associates, Inc. Raleigh, NC. December 30, 2004 [7985]

Operations Manual. International Paper- Industrial Landfill Facility, Permit #24-02. Riegelwood, North Carolina. Prepared by: International Paper, Engineering Technology. February 2005. [DIN 5365]

Permit Modification for Cell 1 Extension. Prepared by: Richardson Smith Gardner & Associates, Raleigh, NC. July 13, 2007, revised August 12, 2008. [DIN5406]

Construction Quality Assurance Report, International Paper-Riegelwood Mill, Industrial Landfill, Cell 1 Extension. Prepared for: International Paper- Riegelwood Mill, 805 John L. Riegelwood Road, Riegelwood, North Carolina 28456. Prepared by: G.N. Richardson & Associates, Inc. Raleigh, NC. May 2009. [DIN7970-7981].

PART III: GENERAL PERMIT 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 .0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate.
 - a. The Permit to Construct is not applicable to this permit.
 - b. The Permit to Operate shall expire at the close of business September 9, 2014. Pursuant to 15A NCAC 13B .0201(g), no later than Wednesday March 9, 2014, the owner or operator must submit a request to the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section for permit review and must update pertinent facility plans including but not limited to the facility operation and waste screening plans.
2. The person or persons to whom this permit is issued (“Permittee”) are the owners and operators 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 Industrial Landfill (ILF) and a reference by book and page to the recordation of the permit.
5. By receiving waste at this facility, the Permittee shall be considered to have accepted the terms and conditions of this permit.
6. Construction and operation 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 application for permitting the facility including those identified in Attachment 1, Part II “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 Solid Waste Section 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 must notify the Solid Waste 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 development of this project including but not limited to:
 - a. Approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit.
 - b. All sedimentation/erosion control activities in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq., and rules promulgated there under at 15A NCAC 4.
10. 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

Not Applicable for the Permit to Operate.

ATTACHMENT 3 CONDITIONS OF PERMIT TO OPERATE

PART I: INDUSTRIAL LANDFILL UNIT SPECIFIC CONDITIONS OPERATIONAL CONDITIONS

1. This permit approves a 5-year operational period in the Cell 1 and Cell 1 Extension Area with a total permitted disposal capacity of approximately 896,000 cubic yards in the Cell 1 Area including 147,000 cubic yards of additional capacity in the Cell 1 Extension Area consistent with the approved plans listed in Attachment 3, Part II. This permit to operate does not approve operation of any additional phases or cells outside of Cell 1.
2. This facility is permitted for an average annual disposal rate of approximately 130,000 tons of industrial waste generated from the International Paper Riegelwood Pulp and Paper Mill located adjacent to the landfill, including asbestos, consistent with the approved plans and other nonhazardous solid wastes as may be specifically approved by the Section. The permitted average annual tonnage corresponds to a disposal rate of approximately 500 tons per day based on 256 operating days per year.
3. The facility operator must complete an approved operator training course in compliance with G.S. 130A-309.25.
 - a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use to ensure compliance with operational requirements.
 - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
4. Waste material must be placed in thin lifts that promote runoff away from landfilled material and landfill stabilization as described in the facility Operations Manual [DIN 5365].
 - a. Daily cover is not required due to the lack of putrescible wastes in the approved waste stream.
 - b. Intermediate cover must be applied when necessary to mitigate dust generation.
 - c. Paper or other materials susceptible to wind erosion must be covered with low eroding or intermediate cover material immediately.

5. Closure or partial closure of any disposal unit must be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B.
 - a. Final Closure Plans must be submitted to the Division for review and approval at least 90 days prior to scheduled implementation.
 - b. Closure and Post-Closure cost estimates and financial instruments must be updated annually pursuant to N.C. General Statute 130A-295.2.

MONITORING AND REPORTING

6. The ground water, leachate, underdrain, secondary collection and methane monitoring system must be maintained and monitored as described in the approved Operations Manual [DIN 5365] and Water Quality Monitoring Plan [DIN 7985].
7. A licensed geologist must be present to supervise the installation of groundwater monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the SWS Hydrogeologist at the time of well installation.
8. The owner or operator must sample the groundwater monitoring wells and surface water sampling locations semi-annually or as otherwise directed in writing by the Solid Waste Section Hydrogeologist.
9. Reports of the analytical data for each monitoring event must be submitted to the Section within 60 days of the respective sampling event. Analytical data must be submitted in a manner prescribed by the Section. Records of all groundwater, surface water, and leachate analytical data must be kept as part of the permanent facility record.
10. Four independent samples comprise the initial baseline sampling event that must be collected from each new groundwater monitoring well and the report must be submitted to the Section within six months after issuance of the Permit to Operate. [Note: This condition only applies to any new well(s).]
11. Untreated leachate, secondary collection and underdrain water must be sampled and analyzed at least semi-annually concurrently with the groundwater water sampling and analyzed for constituents listed in Table 2 of the approved Water Quality Monitoring Plan [DIN 7985]. Test results must be submitted to the Section along with ground water test results.
12. The Action Leakage Rate (ALR) for the secondary leachate collection system is 500 gallons per acre per day as approved in the Operations Manual [DIN 5365]. The permittee must notify the Section in writing within 7 days of exceeding the ALR. Within 30 days of exceeding the ALR, the permittee must submit a plan for identifying the source of the liquid and for remedial action.
13. Readily accessible and unobstructed paths must be maintained allowing access for four-wheel vehicles to the monitoring locations at all times.
14. Details describing the development, sampling, repair and all other pertinent activities associated with each monitoring well and all sampling activities associated with each secondary and underdrain

water and leachate sampling location must be recorded, organized and maintained as part of the permanent facility record.

15. Complete well construction records and soil boring logs for new wells must be submitted to the Solid Waste Section Hydrogeologist for review within 30 days of completion.
16. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility or approved location and made available to the Section upon request during normal business hours.
17. The owner or operator must maintain a record of the amount of solid waste received at the landfill unit compiled on a monthly basis. Scales must be used to weigh the amount of waste received.
18. On or before August 1 annually, the Permittee must submit an annual facility report to the Solid Waste Section on forms prescribed by the Section.
 - a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
 - b. The annual facility report must list the amount of waste received and landfilled in tons and be compiled:
 - i. On a monthly basis.
 - ii. By county, city or transfer station of origin (if applicable).
 - iii. By specific waste type.
 - iv. By disposal location within the facility.
 - v. By diversion to alternative management facilities.
 - c. A measurement of volume utilized in the landfill cells must be performed during the second quarter of the calendar year unless otherwise approved. The date and volumes, in cubic yards, must be included in the report.
 - d. The amount of waste, in tons from scale records, disposed in landfill cells from the initial placement of waste through the date of the annual volume survey must be included in the report.
 - e. The completed report must be forwarded to the Regional Waste Management Specialist for the facility by the date due on the prescribed annual facility report form.
 - f. A copy of the completed report must be forwarded to each county manager for each county from which waste was received at the facility (if applicable). Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Waste Management Specialist by the date due on the prescribed annual facility report form (if applicable).