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LENIX Co.

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Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Interim Director

September 25, 2001

Mr. John Sugg
Lenoir County Solid Waste Director
P.O. Box 7757
Kinston, N.C. 28501

Re: Approval of Proposed Groundwater Monitoring Revisions at the Closed Lenoir County
Municipal Solid Waste Landfill Facility (Permit #54-03).

Mr. Sugg,

The Solid Waste Section (Section) has reviewed the request to revise the list of analytical parameters for selected groundwater monitoring wells under the assessment monitoring program at the Lenoir County closed municipal solid waste landfill. The request, dated August 1, 2001, was submitted on behalf of the County by Municipal Engineering. Specifically, Lenoir County (County) has requested the following:

- 1) Exclude MW-1 from the Appendix II sampling requirements when there are no detections in the other monitoring wells.
- 2) Exclude MW-3 from the Appendix II sampling requirements.
- 3) Pending further sampling, exclude MW-4 from the Appendix II sampling requirements.
- 4) Exclude MW-6 from the Appendix II sampling requirements.
- 5) Exclude MW-9 from the Appendix II sampling requirements.

As allowed by 15A NCAC 13B .1634 (b) the Section conditionally approves the removal of **MW-3, MW-6, and MW-9** from current sampling requirements for the Appendix II list of parameters. However, the wells must be sampled semi-annually for the Appendix I list. If future sampling and analysis detects Appendix I constituents in any of the individual wells that are statistically significant over background or in violation of groundwater quality standards, the affected well(s) must revert to Appendix II list of constituents without notification from the Section. The modified requirements at these wells or other wells does not absolve the County landfill from any water quality monitoring requirements specified in 15A NCAC 13B Solid Waste Management Rules.

The Section recommends that **MW-1** continue with the Appendix II sampling requirements until all monitoring wells in the system are no longer detecting Appendix I constituents. If Appendix

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II monitoring is suspended at MW-1 in the future, as proposed, interwell statistical comparisons to the down gradient wells may prove difficult for many Appendix II constituents and would require Lenoir County to accept the premise that any Appendix II constituents detected down gradient of the site in the monitoring well network, are presumed to originate from the landfill.

Future data from MW-4 must be evaluated and, if appropriate, the request resubmitted before the Section can grant approval.

If you have any questions, please contact Larry Rose or Mark Poindexter at (919) 733-0692, extension 257 and 261.

Sincerely,



Philip Prete
Head of Field Operations
Solid Waste Section

c: Larry Rose
Mark Poindexter
Mark Fry
Bobby Nelms


North Carolina
Department of Environment and Natural Resources

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
William L. Meyer, Director

January 23, 2001



Mr. John Sugg, Director of Solid Waste
County of Lenoir
P.O. Box 3289
Kinston, North Carolina 28501

Subject: Lenoir County MSWLF Facility Transition Plan Modification for Permit #54-03
Modification #2

Dear Mr. Sugg:

The Solid Waste Section hereby approves the modification of the referenced MSWLF Facility permit to allow the construction and operation of a CONSTRUCTION & DEMOLITION LANDFILL UNIT, Phase 1 and Phase 2 (in accordance with sheets 4 of 5 and 5 of 5 of the approved plans dated 9 August 2000 and received 31 October 2000) at the Lenoir County landfill. The operation of Phase 1 and Phase 2 is effective 23 January 2001 and the operational permit for the facility will be reviewed on or before 30 December 2002 (see Condition Number 2, Page 1).

Please note operational conditions outlined on pages one thru five for the facility. The Waste Management Specialist for this facility is Mr. Bobby Nelms and he can be reached in our Washington Regional Office at (919) 946-6481.

If you have any questions about this approval letter, please contact me at (910) 486-1541 or James C. Coffey at (919) 733-0692 Ext. 255.

Sincerely,



Jim Barber
Eastern Area Engineer
Solid Waste Section

cc: Jim Coffey
Mark Fry
Bobby Nelms

✓ Raleigh Central Office: Lenoir County MSW Facility Transition Plan Permit #54-03

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PERMIT NO.: 54-03
Modification #2 dated: 01/23/01

STATE OF NORTH CAROLINA

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT

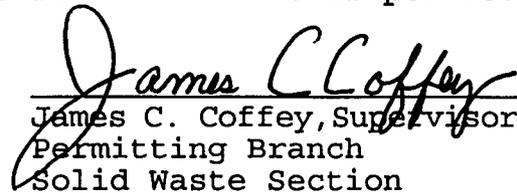
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SOLID WASTE PERMIT

COUNTY OF LENOIR

hereby issued a permit to operate PHASE 1 AND Phase 2 of a
Construction and Demolition Landfill Unit

located on S.R. 1524, at the Lenoir County Landfill, Kinston,
Lenoir County 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.


James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

PERMIT NO.: 54-03
MODIFICATION #2 DATED: 01/23/01

SOLID WASTE PERMIT
Permit to Operate
Lenoir County Landfill
Construction and Demolition Debris Landfill Unit

CONDITIONS OF PERMIT:

GENERAL

1. When this property is sold, leased, conveyed or transferred, 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.
2. This permit will be subject to review on or before 30 December 2002, as per 15A NCAC 13B .0201(c) or sooner, according to the issuance date of this permit. Modifications to the facility may be required in accordance with rules in effect at the time of review.
3. The approved plan is described by Attachment 1, "List of Documents for Approved Plan". Where discrepancies may exist, the most recent submittal and the Conditions of Permit shall govern. Some components of the approved plan are reiterated in the Conditions of Permit.
4. This permit is not transferable.
5. The Financial Assurance Instrument (FAI) for this facility shall be amended when Closure Certification has been complete and the Closure/Post-Closure Care portion of the instrument is amended. The FAI shall be reviewed and updated annually for this facility once closure of the MSW unit is complete.
6. If during the operational life of the C&D unit it becomes apparent that the operations at the facility are impacting ground water adversely; the Solid Waste Section will require landfilling activities to cease and closure of the operating unit.

CONSTRUCTION AND OPERATION

7. This permit is for development of the Lenoir County Landfill Construction and Demolition Unit, Phase 1 and Phase 2 in accordance with the approved plans (sheets 4 of 5 and 5 of 5). Additional disposal capacity will be approved for future phases based on operational requirements and amended calculations indicating need for additional capacity.

8. This solid waste management facility is permitted to receive the following waste types:
- a. Land-clearing debris as defined in G.S. 130A-290, specifically, solid waste which is generated solely from land-clearing activities, such as stumps, trees, etc.;
 - b. Inert debris defined as solid waste which consists solely of material that is virtually inert, such as brick, concrete, rock and clean soil; and
 - c. Asphalt in accordance with G.S. 130-294(m).
 - d. Construction and demolition debris defined as solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures.
 - e. C&D like waste that are similar to wastes typically found in the land clearing-inert debris and C&D waste streams consisting of wastes at this time: roofing shingle waste from the manufacturer, waste building materials from mobile home/modular home manufacturer and wooden pallets. Other wastes **MAY** be approved by the Division upon receipt of a written request with the specific waste type, how its generated, how much is generated; along with any additional information the Division may request to render a final decision on the disposal options for the waste.

Yard trash as defined in G.S. 130A-290, shall not be disposed in the landfill area. However, yard trash, along with land-clearing debris, may be accepted for processing in the Yard Waste Composting Area.

9. 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.
10. The following requirements shall be met prior to operation of Phase 1A at this facility:
- a. Site preparation and or closure of that area of the MSW unit shall be in accordance with the construction plans (dated 12/18/97).
 - b. Signs shall be posted at the facility in accordance with the Access and Safety Requirements under Operation Condition No. 5 listed below.
 - c. The existing groundwater monitoring system will be utilized for ground water monitoring for the C&D unit(s) in accordance with .1630 thru .1633. Assessment monitoring shall continue in accordance with Solid Waste Management Rules and any additional requirements set forth by Solid Waste Section Hydrogeologist.
 - d. Closure certification and documentation shall be submitted to the Solid Waste Section and approved by the Section prior to receiving C&D waste in the proposed

unit(s). Partial closure of units will be accepted with certification and documentation of partial unit closure submitted for approval. Seeding and stabilization of cover soils shall be performed prior to receiving C&D waste.

11. Operation of the C&D landfill units shall conform to the operating procedures described in the approved plan, in accordance with Section .1626 of the Solid Waste Management Rules, and in accordance with the following requirements:

Waste Acceptance and Disposal

- a. The facility shall accept only those solid wastes which it is permitted to receive.
- b. No municipal solid waste, hazardous waste, industrial waste, liquid waste or waste not characterized as LCID or C&D shall be accepted for disposal.
- c. The permittee shall implement a program at the facility for detecting and preventing the disposal wastes listed in item "b" of this section. The program shall include, at a minimum:
 - (i) Random inspections of incoming loads or other comparable procedures;
 - (ii) Records of any inspections;
 - (iii) Training of personnel to recognize hazardous and liquid wastes;
 - (iv) Development of a contingency plan to properly manage any identified wastes listed in item "b" of this section; the plan must address identification, removal, storage, and final disposition of waste.

Cover Material Requirements

12. a. Operational soil cover of at least six inches shall be placed at least once per week or when the active area reaches 1/2 acre in size or more often as necessitated by the nature of the waste so as to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors or water infiltration.
- b. Areas which will not have additional waste placed on them for 12 months or more, but where final termination of operations has not occurred, shall be covered with a minimum of one foot of soil cover.
- c. After final termination of disposal operations at the site or major part thereof, or upon revocation of a permit, the fill areas shall be covered with a cap in accordance with .1627(c) or in accordance with the rules at the time of closure.

Access and Safety

13. a. The facility shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the DWM to prevent unauthorized entry.

- b. An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- c. The access road to the site shall be of all-weather construction and maintained in good condition.
- d. Dust control measures shall be implemented when necessary.
- e. Signs providing information on dumping procedures, the hours of operation, the permit number, and other pertinent information shall be posted at the site entrance.
- f. Signs shall be posted stating that no MSW, hazardous waste or liquid waste can be received.
- g. Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.
- h. The removal of solid waste from the facility is prohibited unless the owner/operator approves and the removal is not performed on the working face.
- i. Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein, except fiber drums containing asbestos.
- j. Open burning of solid waste is prohibited.
- k. The concentration of explosive gases generated at the facility shall not exceed:
 - i. twenty-five percent of the limit for gases in site structures (excluding gas control or recovery system components; and
 - ii. the lower explosive limit for gases at the facility boundary.

Erosion and Sedimentation Control

- 14. a. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site.
- b. Adequate sedimentation and erosion control measures shall be practiced to prevent excessive on-site erosion.
- c. Provisions for a vegetative ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of C&D landfill development.

Drainage Control and Water Protection Requirements

- 15. a. Surface water shall be diverted from the operational area.
- b. Surface water shall not be impounded over or in waste.
- c. A separation distance of at least four feet shall be maintained between waste and the ground-water table.
- d. Solid waste shall not be disposed of in water.

- e. Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to discharge of leachate to surface waters.

All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this landfill.

16. Ground water quality at this facility is subject to the classification and remedial action provisions referenced in Rule .1634 thru .1637 of 15A NCAC 13B.
17. A closure and post-closure plan must be submitted for approval at least 90 days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the facility in accordance with all rules in effect at that time. At a minimum, the plan shall address the following:
 - a. Design of a final cover system; using the cap requirements outlined in Rule .1627
 - b. Construction and maintenance/operation of the final cover system and erosion control structures;
 - c. Surface water, ground water, and explosive gas monitoring.

MONITORING AND REPORTING REQUIREMENTS

18. Ground-water monitoring wells and monitoring requirements for the C&D landfill units shall be in accordance with the monitoring system approved in the TRANSITION PLAN for the facility and these additional conditions:
 - a. Monitoring well design and construction shall conform to the specifications outlined in Attachment 2, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities".
 - b. A geologist shall be in the field to supervise well installation, if necessary. The exact locations, screened intervals, and nesting of the wells shall be established after consultation with the SWS Hydrogeologist at the time of well installation for new monitoring wells.
 - c. For each new monitoring well constructed, a well completion record shall be submitted to DWM within 30 days upon completion.
 - d. Sampling equipment, procedures, and parameters shall conform to specifications outlined in the above-referenced guidance document, (Attachment 2), or the current guidelines established by DWM at the time of sampling and in accordance with the approved TRANSITION PLAN OR ASSESSMENT AND REMEDIATION PLAN.
 - e. In order to determine ground-water flow directions and rates, each monitoring well shall be surveyed, and

- hydraulic conductivity values and effective porosity values shall be established for the screened intervals for each new monitoring well.
- f. The permittee shall sample the monitoring wells semi-annually or as directed by the SWS Hydrogeologist.
 - g. A readily accessible unobstructed path shall be initially cleared and maintained so that four-wheel drive vehicles may access the monitoring wells at all times.
20. The permittee shall maintain a record of all monitoring events and analytical data. Reports of the analytical data for each water quality monitoring sampling event shall be submitted to DWM in a timely manner.
 21. The permittee shall maintain a record of the amount of solid waste received at the facility, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received.
 22. On or before 01 August 98 (or an earlier date as requested by the Solid Waste Section), and each year thereafter, the permittee shall report the amount of waste received (in tons) at this facility and disposed of in the landfill to the Solid Waste Section and to all counties from which waste was accepted, on forms prescribed by the Section. This report shall include the following information:
 - a. The reporting period shall be for the previous year, beginning 01 July and ending on 30 June;
 - b. The amount of waste received and landfilled in tons, compiled on a monthly basis, according to Condition 6 described above; and
 - c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.
 23. All records shall be maintained on-site and made available to the SWS upon request.
 24. The Post-Closure plan approved in the TRANSITION PLAN shall be implemented and followed upon capping and closing the operating unit(s).

ATTACHMENT LIST

List of Additional Documents for the Approved Transition Plan

1. Site and Construction Transition Plan modification application for the Lenoir County Landfill, Permit #54-03. Document titled "Construction and Demolition Landfill for Lenoir County, North Carolina" dated 19 December 1997.

2. MODIFICATION #2: Revised site operational drawings for Phase 2 operations and revising the operational sequence of Phase 1; drawings dated 9 August 2000 and received 31 October 2000.

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

**Municipal
Services**



**Engineering
Company, P.A.**

PO Box 97, Garner, North Carolina 27529 (919) 772-5393

PO Box 349, Boone, North Carolina 28607 (828) 262-1767

October 31, 2000

APPROVED
DIVISION OF SOLID WASTE MANAGEMENT
DATE 01/23/01 BY DJB
MODIFICATION # 2
54-03

Mr. Jim Barber, Regional Engineer
Solid Waste Section, NC DENR
225 Green Street, Suite 601
Fayetteville, N.C. 28301

Re: Revisions to Lenoir County Construction and Demolition Landfill.

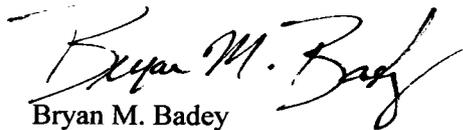
Dear Mr. Barber,

Please find enclosed five (5) copies of the revisions to Lenoir County Construction and Demolition Landfill.

As of July 7, 2000, we had completed our survey of existing conditions at the landfill to determine how much air space has been used since the landfill opened it on January 1, 1998. According to our survey, 124,770 yd³ of air space has been consumed. This averages to approximately 48,916 yd³ of air space each year. Our latest revision to the Lenoir County Construction and Demolition Landfill projects Phase 2 to still have approximately 113,872 yd³ of total air space available. This equates to a remaining life expectancy of approximately 2.3 years. These calculations have taken into account some extra debris received from hurricanes Floyd and Fran. We do expect some additional debris associated from the hurricanes within the next year as well.

We appreciate all the consideration that you can give to this matter. If you need additional information or have any comments, please do not hesitate to call.

Very truly yours,
Municipal Engineering Services CO., PA


Bryan M. Badey



Copy: Mr. John Sugg, Director of Solid Waste