



NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

March 14, 2007

David Lambert
Iredell County Solid Waste
354 Twin Oaks Rd
Statesville, NC 28625

Re: Permit to Operate C&D Landfill Phase 3
Iredell County Landfill
Iredell County, North Carolina
Permit No. 49-03
Doc ID No. RCO1087

Dear Mr. Lambert:

Attached is the above referenced Permit to Operate Phase 3 of the Iredell County Construction and Demolition (C&D) Landfill.

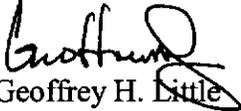
The permit is issued based on submittals from Municipal Engineering Services certifying the construction of the Phase 3 area in compliance with the State Solid Waste Management Rules (listed as Documents Numbers. 12 and 13, Attachment 3, Part III in the Permit to Operate). Construction documents submitted with the CAQ report are filed in the permitting record. Supplemental plans approved in the Permit to Construct, additional documents and correspondence included as part of the Division Approved Plan are listed under Attachment 3 titled 'Approved Documents' of the permit.

The permit contains the authorized MSW management activities at the facility and supersedes previously issued permits. Please be aware that facility permits do not repeat all applicable conditions contained in the Solid Waste Management Rules, 15A NCAC 13 B, or specific conditions contained in the approved plans. However, those conditions shall apply unless specifically addressed otherwise by permit condition.

Also, please be aware that according to 15A NCAC 13B .0203(d), by beginning construction and receiving waste in the cells, you accept the conditions of the permit. Therefore, please review the permit conditions carefully and contact either Teresa Bradford, Waste Management Specialist for your region, at (704) 235-2160 or me at (919) 508-8498.

Thank you for your efforts and cooperation during this process.

Sincerely,



Geoffrey H. Little
Permit Engineer

c: Paul Crissman, DWM
Ed Mussler, DWM
Brian Wootton, DWM
Deb Aja, DWM
Teresa Bradford, DWM
Wayne Sullivan, Municipal Engineering Services

Enclosure



Facility Permit No: 49-03
Part 2-Permit to Operate
March 13, 2007
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STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

**MUNICIPAL SOLID WASTE LANDFILL
FACILITY PERMIT**

COUNTY OF IREDELL

is hereby issued a

Permit to Operate

a

MUNICIPAL SOLID WASTE AND
CONSTRUCTION AND DEMOLITION LANDFILL FACILITY,
C&D Cell Phase 3

located on SR 2319, Iredell 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
Solid Waste Section

ATTACHMENT 3
 Approved Documents

PART I GENERAL FACILITY CONDITIONS

Issuance	Date
Original Issue MSWLF (PTC) MSWLF Phase 1 & CDLF	April 1, 1993
Original Issue MSWLF (PTO) MSWLF Phase 1 & CDLF	October 8, 1993
Amendment No. 1 (PTC) MSWLF Phase 2 & CDLF	January 5, 1998
Amendment No. 1 (PTO) MSWLF Phase 2 & CDLF	September 28, 1998
Amendment No. 1 (PTO) CDLF	March 31, 2000
Modification Alternative Daily Cover (PTO)	May 31, 2000
Expansion MSWLF (PTC) Phase 3	August 22, 2001
Expansion MSWLF (PTO) Phase 3	July 26, 2002
Amendment No. 1 CDLF Phase 2 (PTC)	April 6, 2004
Amendment No. 2 CDLF Phase 2A (PTO)	February 7, 2006
Amendment No. 3 CDLF Phase 3 (PTC)	November 21, 2006
Amendment No. 3 CDLF Phase 3 (PTO)	March 13, 2007

PART II MUNICIPAL SOLID WASTE LANDFILL CONDITIONS

1. Construction Quality Assurance Report, Municipal Solid Waste Landfill Facility, Phase 2, Iredell County, North Carolina, Volumes 1 & 2, prepared by Municipal Engineering Services Co., Inc., as revised through March 30, 2000.
2. Report, Alternative Daily Cover, Iredell County Permit No. 49-03, prepared by Municipal Engineering Services Co., submitted on March 9, 2000.
3. Construction Quality Assurance Report, Municipal Solid Waste Landfill Facility, Phase 3, Iredell County, North Carolina, prepared by Municipal Engineering Services Co., Inc., submitted May 14, 2002, and revised through July 25, 2002.

PART III CONSTRUCTION AND DEMOLITION LANDFILL CONDITIONS

1. Correspondence from Municipal Engineering Services, Co., (MESCO) dated December 13, 1999, requesting expansion of C&D Landfill Area.
2. Correspondence from MESCO dated February 14, 2000 in response to questions regarding groundwater elevations and groundwater monitoring well relocation.
3. Correspondence from MESCO in response to section hydrogeological review.
4. Letter revising C&D Landfill base grades.
5. Facility Plan Drawing No.'s 4 and 6 as revised through March 30, 2000.
6. Drawings PM-1 and PM-2 dated 3/13/00.
7. As-Built Subgrade Plan, prepared by Municipal Engineering Services Co., submitted April 8, 2004.
8. Monitoring Well Installation Records, prepared by Municipal Engineering Services Co., submitted April 14, 2004.

9. Piezometer Abandonment Records, prepared by Municipal Engineering Services Co., submitted April 14, 2004.
10. Correspondence from Brian Wootton to John Murray dated January 17, 2006.
11. Application submitted for Phase 2A, from MESCO dated December 16, 2005 and revised through January 16, 2006.
12. Construction and Demolition Landfill Phase 3 Permit Application submitted by Municipal Engineering Services Company dated April 2006 and revised October 11, 2006.
13. Iredell C&D Landfill Subgrade As-Built Drawing C1 (1 of 1) submitted by Municipal Engineering Services Company dated February 7, 2007.

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)

ATTACHMENT 4

Conditions of Permit to Operate

PART I GENERAL FACILITY CONDITIONS

1. This permit is for the continued operation of the Iredell County Landfill Municipal Solid Waste (MSW) and Construction and Demolition (C&D) disposal areas. The permit authorizes operations until subject to review as per 15A NCAC 13B .0201(e) on or before July 1, 2008. The permittee shall submit an application to the Division for review and approval in compliance with the rules in effect at that time by February 1, 2008, for subsequent operations.
2. In the event of conflicts between this Permit to Operate and previously issued conditions, the conditions of this Permit to Operate shall supersede previously issued conditions.
3. The solid waste management units within this facility shall conform to all operating procedures described in the approved plans, 15A NCAC 13B, and the conditions specified herein.
4. The landfill is permitted to receive for disposal municipal solid waste generated within the State of North Carolina consistent with the local government waste management plan except where prohibited by North Carolina General Statutes Article 9 of Chapter 130A and rules adopted by the Commission for Health Services.
5. The owner or operator of a municipal solid waste management facility that is owned or operated by a unit of local government 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 solid waste.
6. Additional conditions and revision of the approved documents or changes during the operation of the landfill require approval by the North Carolina Solid Waste Section.
7. On or before August 1 of each year, the permittee shall report the amount of waste received (in tons) at this facility and disposed of in the landfill units to the Solid Waste Section, on forms prescribed by the Section. This report shall include the following information:
 - a. The reporting period shall be for the previous year, beginning July 1 and ending on June 30.
 - b. The annual report shall 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,
 - iii) By specific waste type,
 - iv) By disposal location within the facility, and

- v) By diversion to alternative management facilities.
 - c. A measurement of the volume utilized in the MSW cells shall be performed during the second quarter of the calendar year. The date and volume, in cubic yards, shall be included in the report.
 - d. The amount of waste, in tons, from scale records, disposed in the MSW cells since October 8, 1993, through the date of the annual volume determination.
 - e. The completed report shall be forwarded to the Regional Waste Management Specialist for the facility. A copy of the completed report shall be forwarded to the County Manager of each county from which waste was received.
8. Ground water quality at this facility is subject to the "Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina," 15A NCAC 2L. This includes, but is not limited to, provisions for detection monitoring, assessment, and corrective action.

PART II MUNICIPAL LANDFILL UNIT SPECIFIC CONDITIONS

GENERAL CONDITIONS

1. This permit approves the operation of Phase 3 of the municipal solid waste landfill unit as well as the on-site environmental management and protection facilities as described in the approved plans.
2. The facility has an anticipated total MSW disposal capacity of 6,661,379 cubic yards consistent with the approved final contours that will be developed in 5 construction phases of five years each. Construction of cells within each phase and subsequent phases must be in accordance with the Division approved plans.
3. This permit is for operational approval of a five year permitted total capacity of approximately 1,563,280 cubic yards, consistent with the final contours for Phase 3 as shown on drawing no. F4 of Attachment 1, Part II, Document 5. This capacity is based on an average annual disposal rate of approximately 112,000 tons (approximately 415 tons per day based on 312 operating days per year) facility total as set forth in Document 5, Part II, Attachment 1.

MONITORING AND REPORTING

1. Ground water monitoring at this unit shall be as prescribed by the appropriate requirements of 15A NCAC 13B .1630-.1637 and the approved monitoring plan.
2. A readily accessible unobstructed path shall be cleared and maintained so that four-wheel drive vehicles may access monitoring well locations at all times.
3. A field log book which details all development, sampling, repair, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each surface water and leachate sampling location shall be kept as part of the permanent facility record.
4. Records of all ground-water, surface water and leachate analytical data shall be kept as part of the permanent facility record.

5. Ground water monitoring wells and surface water sampling locations must be sampled for Appendix I constituents at least semi-annually according to the specifications outlined in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling.
6. Reports of the analytical data for each water quality sampling event shall be submitted to the Section within 60 days of the respective sampling event. Analytical data shall be submitted in a manner prescribed by the Section.
7. The four independent samples which comprise the initial baseline sampling event shall be collected from each ground water monitoring well and the report shall be submitted to the Section within six months after issuance of the Permit to Operate.
8. Untreated leachate shall be sampled and analyzed at least semi-annually concurrently with the ground and surface water sampling. The leachate shall be analyzed for all Appendix I constituents, pH, specific conductance, BOD and COD, phosphate, nitrate, and sulfate. Test results shall be submitted to the Section along with ground and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.

OPERATIONAL CONDITIONS

1. The landfill unit shall conform to all operating requirements described in the approved plans, 15A NCAC 13B .1626, and the conditions specified herein.
2. The use of alternative daily cover requires approval, prior to implementation, by the Solid Waste Section. Requests for alternative daily cover approval must include a comprehensive use and demonstration of effectiveness plan developed according to Section guidelines and consistent with the approved plan. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 3.
3. The use of leachate recirculation as a leachate management tool requires approval, by the Solid Waste Section, prior to implementation. Requests for leachate recirculation approval must include a comprehensive management plan developed according to Section guidelines and which is consistent with the approved operation plan. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 3.
4. Co-disposal of wastewater treatment sludge requires approval by the Solid Waste Section prior to implementation. Requests for co-disposal of sludge must include a comprehensive management plan developed in accordance with Section rules and guidelines. Plans that are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 3.
5. Closure or partial closure of any MSWLF unit shall be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B .1629. Final Closure Plans shall be submitted to the Division at least 90 days prior to implementation. Closure and Post-closure plans, including financial instruments shall be updated annually pursuant to 15A NCAC 13B .1628.

PART III CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

1. This permit approves the operation of Phase 3 of the C&D landfill unit. The gross disposal capacity of the C&D landfill is 1,507,922 cubic yards including operational and final cover material. The gross permitted capacity for Phase 3 is 681,971 cubic yards as calculated from the Permit Application dated April 2006 (Attachment 3, Part III, Doc. No. 12). This capacity is based on a projected annual waste disposal rate of 107,404 cubic yards or approximately 47,735 tons per year.
2. Construction of cells within each subsequent phase must be in accordance with the Division approved plans.
3. Operation of the C&D unit shall be in accordance with 15A NCAC 13B .0505 and the approved documents as listed in Attachment 3, Part III.
4. The C&DLF unit is permitted to receive construction or demolition debris and land clearing and inert debris as follows:
 - a. "Construction or demolition debris" as defined in G.S. 130A-290(a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.
 - b. A land clearing and inert debris landfill as defined in Rule .0101(54) means a facility for the land disposal of land-clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood.
 - c. Land Clearing Waste as defined in Rule .0101(53) means solid waste which is generated solely from land clearing activities, limited to stumps, trees, limbs, brush, grass, and other naturally occurring vegetative material.
 - d. Asphalt in accordance with G.S. §130A-294(m).
5. The C&D landfill units shall not receive the following waste types:
 - a. "Yard trash" as defined in G.S. 130A-290(45) must not be disposed in the landfill area. However, yard trash and land-clearing debris may be accepted for processing in a permitted yard waste processing area or disposal in a permitted LCID landfill.
 - b. Municipal solid wastes, industrial wastes, hazardous wastes, or liquid wastes are not permitted for acceptance or disposal in the C&D landfill units.
6. Cover Material Requirements:
 - a. Waste shall be covered with six inches (6) of suitable cover at least once per week, or when the active working area reaches one-half acre in size, or more often as necessitated by the nature of the waste to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors or water infiltration.

- b. Areas that will not receive additional waste on them for twelve months or more, but where final elevations have not been reached, shall be covered with one (1) foot of soil cover and a vegetative cover established.
7. Ground water monitoring wells and surface water sampling locations shall be sampled for Appendix I constituents at least semi-annually according to the specifications outlined in the approved water quality monitoring plan revised October 11, 2006, (Attachment 3, Part III, Doc. No. 12) and the Solid Waste Rules in effect at the time of sampling. Sampling events shall be conducted at the same time as the MSW landfill and leachate sampling events.
8. The C&D unit shall be closed in accordance with the approved plan and the revised requirements of the Solid Waste Rules in effect at the time of closure.

PART IV: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART V: YARD WASTE UNIT SPECIFIC CONDITIONS(NOT APPLICABLE)

PART VI: MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC CONDITIONS

(Specify Unit Type) NOT APPLICABLE)