



Facility Permit No: 49-03
Permit to Operate
Iredell County MSWLF
Doc. ID No.5160
July 30, 2008
Page 1 of 13

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

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

MUNICIPAL SOLID WASTE LANDFILL FACILITY PERMIT

Permit No. 49-03

IREDELL COUNTY
is hereby issued a

PERMIT TO OPERATE

A

Municipal Solid Waste Landfill Unit
Phase 4

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 legal description of the site is identified on the deeds recorded for this property listed in Attachment No. 3 of this permit.

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

ATTACHMENT 3

PART I: PERMITTING HISTORY

MSWLF FACILITY PERMIT NO: 49-03	ISSUANCE DATE	Document ID No.
Original MSWLF PTC: Phase 1 and C&DLF	April 1, 1993	
Original MSWLF PTO: Phase 1 and C&DLF	October 8, 1993	
Amendment MSWLF PTC: Phase 2 and C&DLF	January 5, 1998	
Amendment MSWLF PTO: Phase 2 and C&DLF	September 28, 1998	
Amendment MSWLF PTO: C&DLF	March 31, 2000	
Modification MSWLF PTO: Alternative Daily Cover	May 31, 2000	
MSWLF PTC: Phase 3	August 22, 2001	
MSWLF PTO: Phase 3	July 26, 2002	
Amendment PTC: C&DLF Phase2	April 6, 2004	
Amendment PTO: TP Bailing Facility	February 4, 2005	
Amendment PTO: C&DLF Phase 2A	February 7, 2006	
Amendment PTC: C&DLF Phase 3	November 21, 2006	
Amendment PTO: C&DLF Phase 3	March 13, 2007	1083
Amendment MSWLF PTC: Phase 4	July 5, 2007	2597
Amendment MSWLF PTO: Phase 4	July 30, 2008	5150

PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

1. *Request Permission to Construct, Bailer Facility (including operating plans).* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 1, 1991.
2. *Correspondence Regarding Expansion of the C&D Landfill Area.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. December 13, 1999.
3. *Correspondence Regarding Groundwater Elevations and Groundwater Monitoring Well Relocation.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. February 14, 2000.
4. *Facility Plan Drawing No.'s 4 and 6, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. Revised through March 30, 2000.
5. *Drawings PM-1 and PM-2, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. March 13, 2000.

6. *Construction Quality Assurance Report, Municipal Solid Waste Facility, Phase 2, Iredell County, North Carolina, Volumes 1&2.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. Revised through March 2000.
7. *Report, Alternative Daily Cover, Iredell County Permit No. 49-03.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. March 9, 2000.
8. *MSWLF Facility Permit to Construct Application, Phase 3, Iredell County.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 1, 2001.
9. *Design Hydrogeology Study, Phase 3, Iredell County, MSW Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 1, 2001.
10. *Request for Modification to Protective Cover Specifications and Supporting Documentations, MSW Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. My 24, 2002.
11. *Construction Quality Assurance Report, Municipal Solid Waste Landfill Facility, Phase 3 Iredell County, North Carolina.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. May 24, 2002 and revised July 25, 2002.
12. *Site Hydrogeologic Report, Iredell County C&D Landfill, Phases 2 & 3.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. January 28, 2004.
13. *As-Built Subgrade Plan, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 8, 2004.
14. *Monitoring Well Installation Records, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 14, 2004.
15. *Piezometer Abandonment Records, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 14, 2004.
16. *Permit Application (Site and Construction Plans), Construction and Demolition Landfill, C&D Landfill Phase 2.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 5, 2002 and revised September 17, 2003, November 13, 2003 and February 16, 2004.
17. *Revised Iredell County Bailer Facility Operations Plan.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. November 1, 2004.
18. *Correspondence from Brian Wootton to John Murray, C&D Landfill.* January 17, 2006.

19. *Application Phase 2A, C&D Landfill*. Prepared by Municipal Engineering Services Co. Prepared for Iredell County. December 16, 2005 and revised January 16, 2006.
20. *Construction and Demolition Landfill Phase 3 Permit Application*. Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 2006 and revised October 11, 2006.
21. *Iredell C&D Landfill Subgrad As-Built Drawing C1 (1of 1)*. Prepared by Municipal Engineering Services Co. Prepared for Iredell County. February 7, 2007.
22. *MSWLF Facility, Permit to Construct, Phase 4, Iredell County, Statesville, North Carolina, Project No. G06035*. Prepared by Municipal Engineering Services. Prepared for Iredell County. January 2007, revised May 2007 and June 2007. Document ID No. 5161.
23. *Construction Quality Assurance Report, Municipal Solid Waste Landfill Facility, Phase 4, Volumes 1&2, Iredell County North Carolina*. Prepared by Municipal Engineering Services Co. Prepared for Iredell County. June 2008. Document ID No. 5036.
24. *Amended Operations Plan MSWLF Facility, Permit to Construct, Phase 4, Iredell County, Statesville, North Carolina, Project No. G06035*. Prepared by Municipal Engineering Services. Prepared for Iredell County. January 2007, revised May 2007 and June 2007. Document ID No. 5162.

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Iredell County, N.C. Register of Deeds				
Book	Page	Acreage	Grantor	Grantee
744	570	68.23	Iredell County	Iredell County
816	155	91.13	Iredell County	Iredell County
847	906	17.88	Iredell County	Iredell County
1133	1274	38.8	Iredell County	Iredell County
1133	1287	1.0	Iredell County	Iredell County
1133	1289	0.46	Iredell County	Iredell County
1133	1908	1.0	Iredell County	Iredell County
1135	659	0.46	Iredell County	Iredell County
*1212	*1092	29.08	Iredell County	Iredell County
		248.04	Total Site Acreage	

***note:**

Facility includes a portion of the tract owned by Iredell County and recorded at Book 1212, Page 1092. The Portion of the tract that is included in the landfill facility boundary is described as follows:

To locate the beginning point commence at an existing concrete monument which is situated in the Southeast corner of Accuma Corporation (Deed Book 1188, Page 1434) and run from said existing concrete monument N 05°36'28" E 269.84 feet to an existing iron pin the corner of subject property and Accuma Corporation (said iron pin is located N 76°45'53" W 888.98 feet from the eastern edge of a sanitary sewer easement); thence from the beginning point with the line of Accuma Corporation N 76°45'53" W 88.98 to an existing rebar (the NC Grid Coordinates of which are N=737,558.65 and E=1,457,4612.85) at the corner of J.C. Steele & Sons, Inc. (Deed Book 574, Page 127); thence with the line of Steele N 60°28'23" W 354.12 feet to an existing iron pin; thence continuing along the Steele line N 04°36'21" W 710.00 feet to an existing iron pin at the corner of the subject property and Steele property; thence N 04°36'21" W 101.07 feet to a new iron pin located on the line between the subject property and the property of The County of Iredell (Deed Book 816, Page 155); thence with the line of Iredell County S 87°17'53" E 588.18 feet to an existing concrete monument; thence continuing along the line of Iredell County S 87°17'53" 759.76 feet to an existing iron pin in the line of a tract of land now or formerly owned by K.D Haneline (Deed Book 939, Page 1822); thence S 04°51'51" W 159.82 feet to a point in the centerline of a sanitary sewer easement; thence continuing S 04°51'51" W 21.30 feet to an existing rebar cornered of Merchant Metals, Inc. (Deed Book 670, Page 918); thence S 05°36'28" W 947.21 feet to an existing iron pin, the point and place of the beginning and containing **29.08** acres more or less.

End of Section -

ATTACHMENT 4
CONDITIONS OF PERMIT

PART I: GENERAL FACILITY CONDITIONS

1. This permit shall expire July 30, 2013. Pursuant to 15A NCAC 13B .0201(e), no later than April 30, 2013, the owner or operator must submit an application for amendment or modification to the permit for review to the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (hereinafter "Section"). The application must be prepared in accordance with 15A NCAC 13B .1603 (a)(2) or 15A NCAC 13B .1603 (a)(3), as applicable.
2. The persons to whom this permit is issued ("permittee") are the owners and operators of the solid waste management facility.
3. [Intentionally Blank]
4. [Intentionally Blank]
5. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility shall 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 3, Part II, *List of Documents for Approved Plan*, and which constitute 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, 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 development of this project 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.
10. This permit approves the operation of Phase 4 of the municipal solid waste landfill as well as the onsite environmental management and protection facilities as described in the approved plans. Operation of any landfill future phases or cells requires written approval of the Section and must be constructed in accordance with applicable statutes and rules.
11. This facility is permitted to receive solid waste from all incorporated and unincorporated areas of Iredell County consistent with the local government waste management plan and with local government approval and as defined in G.S. 130-290 (a)(35), except where prohibited by the N. C. General Statutes Article 9 of Chapter 130A, and the rules adopted by the Commission for Health Services.
12. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility in accordance with applicable rules and statutes.

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

Operational Conditions

13. This permit approves the operation of Phase 4 of the landfill which consists of approximately 12.0 acres and has a permitted, calculated available disposal capacity of approximately 1,304,000 cubic yards of disposal capacity.
14. The total landfill area consists of approximately 81.0 acres of disposal area, and a total gross capacity of approximately 6,661,379 cubic yards. The approved facility boundary, including buffer areas, consists of approximately 248.04 acres.
15. This permit is for operational approval of a five year permitted disposal capacity of approximately 1,304,000 cubic yards. This capacity is based on an average annual disposal rate of approximately 260,000 cubic yards (approximately 522 tons per day based on 312 operating days per year) facility total as set forth in Document 22 of Attachment 3, Part II: "List of Documents for the Approved Plan". The maximum variance should be in accordance with GS 130A-294(b1)(1) and consistent with local government approval.

16. The owner or operator of the landfill facility must 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 any 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.

17. 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 November 29, 2000.

18. All sedimentation/erosion control activities must be conducted in accordance with the Sedimentation Control Act codified at 15A NCAC 4.

19. The use of alternative daily cover requires approval, prior to implementation, by the Section. Requests for alternative daily cover approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative daily cover. The plan shall be developed according to Section guidelines. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 3.

The use of Posi-Shell as an alternate daily cover is approved and subject to the terms and conditions of operation as set forth in the plan. Soil cover shall be applied at a minimum of one time per week in accordance with Rule 1626(2). Soil shall be applied more frequently, if needed, to control nuisance odors or vectors.

The use of Auto Shredder Residue (ASR) as an alternate daily cover is approved and subject to the terms and conditions of operation as set forth in the plan.

20. The use of leachate recirculation as a leachate management tool requires approval by the 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 listed in Attachment 3.

21. Prior to disposal in a new cell previously separated from the active disposal cell by rainwater and leachate separation devices involving rainwater flaps welded to the liner and/or disconnected leachate lines, a construction certification shall be placed in the facility operating record. The certification must describe the proper removal of temporary rainwater devices and reconnection of leachate collection lines in accordance with Appendix 3, Part II, Approved Documents of this permit. The document must also contain a statement of certification by the facility's trained landfill operator, N. C. registered professional engineer, or other person approved by the Section, that the construction was properly completed according to the approved plans.
22. The proper removal of geotextile covering the gravel column, occurring with the progression of fill, shall be documented by the facility's trained landfill operator, or other person approved by the Section, in accordance with Appendix 3, Part II, Approved Documents of this permit, and the documentation shall be placed in the facility's operating record.
23. The facility is permitted to co-dispose of wastewater treatment sludge generated within the facility's approved service area, and subject to the terms and procedures of the approved plan.
24. 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 cost estimates and financial instruments shall be up annually pursuant to 15A NCAC 13B .1628.

Monitoring and Reporting Requirements

25. Groundwater, surface water, and methane monitoring locations must be established and monitored as identified in the approved plans.
26. 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.
27. 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.
28. Reports of the analytical data for each monitoring 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. Records of all groundwater, surface water, and leachate analytical data shall be kept as part of the permanent facility record.

29. The four independent samples which comprise the initial baseline sampling event shall be collected from each groundwater monitoring well and the report shall be submitted to the Section within six months after issuance of the Permit to Operate.
30. Untreated leachate shall be sampled and analyzed at least semi-annually concurrently with the groundwater water and surface water sampling. The leachate shall be analyzed for all Appendix I constituents, pH, specific conductance, BOD, COD, nitrates, sulfates, and phosphates. Test results shall be submitted to the Section along with groundwater and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.
31. A readily accessible unobstructed path shall be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.
32. 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.
33. All 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.
34. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours.
35. 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.
36. 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.
 - 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. 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. 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.
- g. The facility shall maintain records for all solid waste materials accepted and used as alternate daily cover. The records shall include: the date of receipt, weight of material, general description of the material, identity of the generator or transporter, and county of origin. Such records shall be made available to the Section upon request.

PART III: CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

Not applicable

PART IV: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

Not applicable

PART V: YARD WASTE UNIT SPECIFIC CONDITIONS

Operational Conditions

- 37. The facility is permitted to receive yard waste as defined in 15A NCAC 13B, Rule .0101(46).
- 38. Yard waste areas shall be operated in accordance with the requirements of 15A NCAC 13B, Rule .1400.
- 39. The facility must manage yard waste according to the Operation Plan included in Attachment 3, Part II, *List of Documents for the Approved Plan*. This document is included in the approved plan. Any revisions to the approved plan shall be approved by

the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

PART VI: MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC
CONDITIONS

General Conditions

40. Wastes received and product stored shall be maintained in reasonably sized piles with adequate fire breaks and lanes in accordance with the approved operational plans and the pertinent rules.
41. Surface water shall be diverted from all operational and storage areas to prevent standing water in operational areas and under or around storage piles. Water that comes in contact with solid waste shall be contained on-site or properly treated prior to discharge.
42. These areas shall be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard.
43. These areas shall be operated and maintained in a manner so as to minimize odors, prevent the creation of a nuisance, potential health hazard, or a potential fire hazard.
44. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.

Operational Conditions – Tires

45. This unit shall be operated in accordance with the approved documents and the requirements of 15A NCAC 13B .1107.
46. The facility is permitted to receive tires and scrap tires as defined in North Carolina General Statute Article 9, Chapter 130A-309.53(6) & (7).
47. The facility must manage tires according to the Operation Plan included in Attachment 3, Part II, *List of Documents for the Approved Plan*. This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.
48. The facility must manage tires according to all applicable statutes and rules of the State of North Carolina.

Operational Conditions – White Goods

49. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).
50. The facility must manage white goods according to the Operation Plan included in Attachment 3, Part II, *List of Documents for the Approved Plan*. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.
51. The facility must manage white goods according to all applicable statutes and rules of the State of North Carolina.
52. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.