



Facility Permit No: 4903
Iredell County Solid Waste Facility
November 18, 2014
Doc. ID No. 21801
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North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

John E. Skvarla, III
Secretary

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

SOLID WASTE MANAGEMENT FACILITY

Permit No. 4903

IREDELL COUNTY

is hereby issued a

PERMIT TO CONSTRUCT

Not Applicable

PERMIT TO OPERATE

4903-MSWLF-1993, Iredell County MSWLF
Phase 1-5

PERMIT FOR CLOSURE

4903-CDLF-1993, Iredell County C & D Landfill

Located on 354 Twin Oaks Road (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

1601 Mail Service Center, Raleigh, North Carolina 27699-1601
Phone: 919-707-8600 \ Internet: www.ncdenr.gov

ATTACHMENT 1

GENERAL PERMIT CONDITIONS/INFORMATION

PART I: GENERAL FACILITY

Permit to Operate Date Table

| Permit | Status | Issuance | Expiration | DIN |
|-----------------|---------------------------------------|---------------------------|--------------------|-------|
| 49-03-TP- | Transferred to 4903-MSWLF-1993 Permit | September 27, 1993 | Not Applicable | 18414 |
| 4903-CDLF-1993 | Closed | Not Applicable | Not Applicable | 18414 |
| 4903-MSWLF-1993 | Active | November, 18, 2014 | May 8, 2018 | 21801 |

General 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. The Permit to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit to Operate must be implemented in accordance with Attachment 3 of this permit.
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. The Permit to Construct for this facility, dated May 5, 2013, was recorded in the Iredell County Register of Deeds on May 9, 2013, in Deed Book 2241, Pages 155-174, Doc ID: 18894.
4. When this property is sold, leased, conveyed, or transferred in any manner, 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 waste management facility 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. 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. Failure to comply may result in compliance action or permit revocation.
7. This permit is issued based on the documents submitted in support of the 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 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.

Properties Approved for the Solid Waste Facility

| Iredell County, N.C. Register of Deeds | | | | |
|---|-------------|---|----------------|----------------|
| Book | Page | Grantor | Grantee | Acreage |
| 744 | 570 | M.F. Crouch and wife, Margaret Crouch | Iredell County | 68.23 |
| 816 | 155 | Joy Acre Farms, Ltd. | Iredell County | 91.13 |
| 847 | 906 | Woodridge Corporation | Iredell County | 17.88 |
| 1133 | 1274 | Louise R. Bradshaw, widow et al | Iredell County | 49.33 |
| 1133 | 1287 | William Wesley Summers and wife, Jessie Davis Summers | Iredell County | 1.0 |
| 1133 | 1289 | Maxine M. Thompson | Iredell County | 0.46 |
| 1133 | 1908 | John L Adams and wife, Betty E. Holmes Adams | Iredell County | 0.893 |
| 1135 | 659 | John Franklin Rankin and wife Deborah Rankin | Iredell County | 0.919 |
| 1212 | 1092 | Joy Acre Farms, Ltd. | Iredell County | 54.76 |
| 1910 | 1933 | J.C. Steele and Sons, Inc. | Iredell County | 28.88 |
| 911 | 1705 | Jeffery R. Vinson et al | Iredell County | 2.39 |
| Total Site Acreage : | | | | 315.872 |

PART II & III: SOLID WASTE FACILITY, UNIT(S)

4903-MSWLF-1993, 4903-CDLF-1993, Iredell County Solid Waste Facility

Permitting History - (MSWLF permits including CDLF permits combined and/or separate documents)

| Permit Type | Date Issued | DIN |
|---|--------------------|------------|
| Original Permit to Construct MSW Phase 1 and CDLF | April 1, 1993 | 22009 |
| Original Permit to Operate, Phase 1 and CDLF | October 8, 1993 | 22009 |
| Full Approval of the Transition Plan For MSW Landfill | February 26, 1996 | |
| Permit to Construct MSW, Phase 2 and CDLF | January 5, 1998 | |
| Permit to Operate, Modification for Alternate Liner | February 12, 1998 | |
| Permit to Operate, MSW Phase 2 and CDLF, Permit Renewal | September 28, 1998 | |
| Permit to Operate, CDLF (Expansion, SE side of property) | March 31, 2000 | 22022 |
| Permit to Operate, Modification for Alternative Daily Cover - auto shedder residue (ASR). | May 31, 2000 | 22020 |
| Permit to Construct MSW, Phase 3 (Expansion) | August 22, 2001 | |

| | | |
|--|--------------------------|--------------|
| Permit to Operate MSW Phase 3 | July 26, 2002 | |
| Permit to Construct, CDLF Phase 2 | April 6, 2004 | |
| Permit to Construct, CDLF, Phase 2 | April 6, 2004 | |
| Permit to Operate, CDLF Phase 2A (800'x100') | January 31, 2006 | 22027 |
| Permit to Construct CDLF, Phase 3 | November 21, 2006 | 22027 |
| Permit to Operate CDLF, Phase 3 | March 13, 2007 | 1083 |
| Permit to Construct MSW, Phase 4 | July 5, 2007 | 2597 |
| Permit to Operate MSW, Phase 4 | July 30, 2008 | 5150 |
| Permit to Construct MSW, Phase 5 | May 8, 2013 | 18414 |
| Permit to Operate MSW, Permit Renewal, Phases 1- 4 | May 8, 2013 | 18414 |
| Amendment CLOSURE: CDLF | May 8, 2013 | 18414 |
| Permit to Operate MSWLF, Phase 5 | November 18, 2014 | 21801 |

List of Documents for Approved Plans
4903-MSWLF-1993 & 4903-CDLF-1993

1. *Iredell County Site Suitability Report For The Proposed Lined Landfill* (Includes 9 Drawings), submitted for Iredell County by Municipal Engineering Services Company, Inc (MESCO). March 18, 1992, Revised through September 24, 1992.
2. *Quality Assurance and Quality Control Report and Documentation for Iredell County, Statesville, North Carolina.* October 5, 1993
3. *MSWLF Facility Permit to Construct Application, Phase 2, Iredell County Subtitle D Lined Landfill*, prepared for Iredell County by Municipal Engineering Services Company P. A., Garner, North Carolina.
4. *Design Hydrogeologic Study, Phase 2, Iredell County Subtitle D Lined Landfill*, prepared for Iredell County by Municipal Engineering Services Company P. A., Garner, North Carolina.
5. *Correspondence Regarding Expansion of the C&D Landfill Area.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. December 13, 1999.
6. *Correspondence Regarding Groundwater Elevations and Groundwater Monitoring Well Relocation.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. February 14, 2000.
7. *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.
8. *Drawings PM-1 and PM-2, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. March 13, 2000.
9. *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 30, 2000.
10. *Report, Alternative Daily Cover, Iredell County Permit No. 49-03.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. March 9, 2000.
11. *MSWLF Facility Permit to Construct Application, Phase 3, Iredell County.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 1, 2001.
12. *Design Hydrogeology Study, Phase 3, Iredell County, MSW Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 1, 2001.

13. *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.
14. *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.
15. *Site Hydrogeologic Report, Iredell County C&D Landfill, Phases 2 & 3.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. January 28, 2004.
16. *As-Built Subgrade Plan, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 8, 2004.
17. *Monitoring Well Installation Records, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 14, 2004.
18. *Piezometer Abandonment Records, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 14, 2004.
19. *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.
20. *Revised Iredell County Bailer Facility Operations Plan.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. November 1, 2004.
21. *Correspondence from Brian Wootton (SWS) to John Murray (SWS), C&D Landfill.* January 17, 2006.
22. *Application Phase 2A, C&D Landfill.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. December 16, 2005 and revised January 16, 2006.
23. *Construction and Demolition Landfill Phase 3 Permit Application and Ground and Surface Water Sampling Plan.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. April 2006 and revised October 11, 2006. DIN 15069.
24. *Iredell C&D Landfill Subgrade As-Built Drawing C1 (1 of 1).* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. February 7, 2007.
25. *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.
26. *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.
27. *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.
28. *Site Hydrogeological Study, Iredell County MSWLF (Steele Property Expansion). Prepared by: Municipal Engineering Services, Garner, NC. Prepared for: Iredell County. May 18, 2009, Revised May 31, 2011. DIN 14083, 14084.*
29. *MSW Facility Site Study, Expansion of Existing Facility Iredell County Landfill, Iredell County, North Carolina.* Prepared by: Municipal Engineering Services, Garner, NC. Prepared for: Iredell County. DIN 12866.

30. *Design Hydrogeologic Study, Iredell County Landfill – Phase 5 (17+ or – Acres), Iredell County, Statesville, North Carolina, Project No. G08002.6.* Prepared by Municipal Engineering Services. Prepared for Iredell County. November 4, 2011, revised May 3, 2012. DIN 14084, 14083, 16685, 17798.
31. *Operation Plan for Sorting Tear-off Asphalt Shingles for Recycling.* Prepared by: David Lambert and Municipal Engineering Services Company, Garner, NC. February 17, 2012, Revised May 31, 2011. DIN 16546. DIN 16547.
32. *Permit To Construct, Phase 5, Iredell County, Municipal Solid Waste Landfill Facility, Statesville, North Carolina, Project No. G08002.* Prepared by Municipal Engineering Services. Prepared for Iredell County. January 2012. Revised January 14, 2013, February 11, 2013, DIN 18444. Complete Final Document DIN 14950.
33. *Storm Water Management Plan for the operation of Phase 5.* Prepared by Municipal Engineering Services. Prepared for Iredell County. March 26, 2013. DIN 18752.
34. *Construction Quality Assurance Report, Municipal Solid Waste Landfill Facility, Phase 5, Volumes 1, Iredell County North Carolina.* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 31, 2014. DIN No. 21785.

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

4903-TP-MWP- (Originally 49-02-TP, now included in Permit #4903) Iredell County Baler Facility

| Permit Type | Date Issued | DIN |
|--|--------------------|-------|
| Original Permit to Construct (49-02-TP) | September 9, 1991 | |
| Original Permit to Operate (49-02-TP) | September 27, 1993 | 22009 |
| Permit to Operate a Bailing Facility (49-03-TP-) | February 4, 2005 | |

35. *Request Permission to Construct, Bailer Facility (including operating plans).* Prepared by Municipal Engineering Services Co. Prepared for Iredell County. July 1, 1991.
36. *Revised Iredell County Baler Facility Operation Plan* submitted by Municipal Engineering Services Company, P.A. November 1, 2004.

- End of Section –

ATTACHMENT 2

CONDITIONS OF PERMIT TO CONSTRUCT

PART I: GENERAL FACILITY

1. Construction of any MSWLF future phases or cells requires written approval of the Section. An Application for Permit to Construct must be prepared in accordance with applicable statutes and rules in effect on that date and will be subject to a permitting fee.

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)

Not Applicable

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

Not Applicable

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

Not Applicable

- End of Section -

ATTACHMENT 3

CONDITIONS OF PERMIT TO OPERATE

PART I: GENERAL FACILITY

1. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act NCGS 113A-50, et seq., and rules promulgated under 15A NCAC 4. 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 area of the landfill unit during the service life of the facility.
2. 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.
3. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Solid Waste Section must be notified of any sedimentation and erosion control plan modifications.
4. Copies of this permit, the approved plans, and all records required to be maintained in the operating record by the permittee must be maintained at the facility, unless otherwise approved by the Section, and made available to the Section upon request during normal business hours.
5. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.
6. Open burning of solid waste is prohibited. Fires must be reported to the Regional Waste

Management Specialist within twenty-four (24) hours of the occurrence with a written notification to be submitted within fifteen (15) calendar days of the occurrence. Fire lanes must be maintained and passable at all times. Dimensions of the fire lanes must be coordinated with the Fire Marshall having jurisdiction over the site.

7. Processing of materials, shredding, or grinding must not take place at the facility unless approval has been granted under the special use permit and a revised operations plan has been submitted to the Solid Waste Section.
8. The facility must be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Section to prevent unauthorized entry.
9. Interior roadways must be of all-weather construction and maintained in good condition.
10. The edge of the waste footprint for all disposal units must be identified and maintained with permanent physical markers.
11. Signs must be posted at the entrance to the facility that state that no hazardous waste or liquid waste can be received at the facility; and that provide information on dumping procedures, the hours of operation, the permit number, and other pertinent information. Traffic signs or markers must be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.
12. The following, at a minimum, must not be accepted for disposal at the facility: hazardous waste, yard trash, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S.130A-309.10(f).
13. The permittee is required to make application for a permit amendment for subsequent phases of landfill development, in accordance with NCGS 130A-295.8(b)(2).

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)
4903-MSWLF-1993, Iredell County MSWLF

General Conditions

14. 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. Closure and Post-Closure cost estimates and financial instruments must be updated annually pursuant to 15A NCAC 13B .1628.
15. 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.
16. The permittee 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 that 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 leachate collection system must be maintained in accordance with 15A NCAC 13B .1626(12)(a). The permittee shall prepare a plan detailing the maintenance of the system and must submit it to the Section for review and approval no later than July 1, 2009. The plan shall include provisions for periodic cleaning and visual inspection. Documentation of the inspections, and cleaning and monitoring must be included in the operating records

- of the facility and provided to the Section upon request.
18. 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 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.
 19. Closure or partial closure of any MSWLF unit must be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B .1629. Final Closure Plans must be submitted to the Section at least 90 days prior to implementation.
 20. The facility must maintain records for all solid waste materials accepted as alternative cover material and used as alternate daily cover. The records must include: the date of receipt, weight of material, general description of the material, identity of the generator and transporter, and county of origin. Such records must be made available to the Section upon request.
 21. Prior to disposal in a new cell or subcell previously separated from the active disposal area by rainwater and leachate separation devices, disconnected leachate lines or geotextile covering the gravel column, 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 the approved documents listed in Attachment 1. 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.

Monitoring and Reporting Requirement

22. Groundwater locations must be established and monitored as identified in the List of Documents for the Approved Plan.
23. 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
24. Groundwater monitoring wells must be sampled for the constituents in the approved monitoring plan, 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
25. Monitoring reports of the analytical results for surface water and groundwater monitoring sampling events, and for corrective action program monitoring, 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. statistical analysis of laboratory data, in accordance with 15A NCAC 13B .1634,
 - d. a completed Solid Waste Environment Monitoring Data Form, and
 - e. laboratory data submitted in accordance with the EDD Template.

26. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water sampling, one sample per event. The leachate must be analyzed for the same constituents that the groundwater monitoring wells are the constituents in the approved monitoring plan. Test results must be submitted to the Section along with groundwater test results. In the event leachate is recirculated, additional leachate sampling may be required.
27. A readily accessible unobstructed path must be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.
28. A log 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 must be kept as part of the permanent facility record.
29. 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.
30. The four independent samples which comprise the initial baseline sampling event must be collected from each groundwater monitoring well and the report must be submitted to the Section within six months after issuance of the Permit to Operate.

Specific Conditions

31. The Permit to Operate shall expire **July 30, 2018**. Pursuant to 15A NCAC 13B .0201(g), no later than **January 30, 2018**, the owner or operator must submit a request to the Section for permit review prepared in accordance with Section .1603(a)(2) or (3) as applicable, and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.
32. This permit authorizes the continued operation of Phases 1 – 4 and the operation of Phase 5 of the municipal solid waste landfill and the following modifications to the permit; as well as the onsite environmental management and protection facilities as described in the approved plans.
33. This facility is permitted to receive solid waste from all incorporated and unincorporated areas of Iredell County.
34. This facility is approved for an average disposal rate of approximately 175,000 tons per year with a daily average of 600 tons per day as set forth in Document 29 of Attachment 1, 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.
35. Phase 5 has a projected gross capacity of 1,396,961 cubic yards of airspace. The MSWLF unit’s waste footprint has increased from 83 acres to 115.64 acres. The facility’s total gross capacity is approximately 12,534,121 cubic yards .The approved facility boundary, including buffer areas, has increased from 248 acres to 315.872 acres (Site Suitability Letter approval, DIN 14877). An application for a Permit to Construct will be required for future Phases 6, 7 and 8 prior to the initiation of construction activities. Phases 7 & 8 were previously located and permitted in the old Phase 5’s waste footprint. Constructed and approved volume for solid waste (Phases 1-5) is 6,940,723 cubic yards.

| <u>Phase</u> | <u>Acres</u> | <u>Gross Capacity</u> (cubic yards) | <u>Phase Status</u> |
|--------------|--------------|--|---|
| 1 | 17 | 1,624,896 | Intermediate Closure |
| 2 | 12 | 1,146,985 | Intermediate Closure |
| 3 | 17 | 1,624,896 | Operational |
| 4 | 12 | 1,146,985 | Operational |
| 5 | 16.83 | 1,396,961 | Operational |
| 6 | 15.17 | 1,655,346 | Future Expansion Area |
| 7 & 8 | 24 | 3,938,052 | Future Expansion Area (Previously Permitted Phase 5) |
| Total | 115.64 | 12,534,121 | |

36. All accessible leachate lines at the facility must be camera-inspected and cleaned as per the approved Operation Plan or earlier if an abnormal reduction in leachate production is observed. Any blockages encountered must be repaired and reported to the Section. Following any blockages, the frequency of camera inspection and cleaning is yearly. The initial camera inspection and cleaning of all accessible leachate lines at the facility must be performed, and a report submitted to the Section. Documentation of all subsequent camera-inspections and cleaning must be added to the facility operating record and made available to the Section upon request.
37. 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.
38. 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.
39. The permittee 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 that 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.
40. 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 that it is 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.
41. In accordance with 130A-295.6 this landfill may use alternative daily cover (ADC) that has been previously approved at another sanitary landfill in North Carolina. The Solid Waste Section maintains a list of approved ADC and its appropriate use, which may be referred to, but is not required to be, in determining ADC types and uses. 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, odor or vectors.
- a. The use of different alternative daily cover requires approval, prior to implementation, by the Solid Waste 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 must 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 1.
 - b. 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.
 - c. 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.
42. The facility must maintain records for all solid waste materials accepted as alternative cover material and used as alternate daily cover. The records must include: the date of receipt, weight of material, general description of the material, identity of the generator and transporter, and county of origin. Such records must be made available to the Solid Waste Section upon request.
43. 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 first or second quarter of the calendar year. The date and volumes, in cubic yards, must be included in the report.
 - d. For MSW, the amount of waste, in tons from scale records, disposed in landfill cells from October 8, 1993 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.
44. 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 a part of the List of Documents for the Approved Plan.

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNITS

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

Not Applicable

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

(4903-TP-MWP- IREDELL COUNTY BALEFILL FACILITY IS NOW INCLUDED IN THIS PERMIT AND IS NOT A SEPARATE SEPARATE)

General Conditions

1. 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.
2. 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.
3. 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.
4. 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.
5. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.
6. All miscellaneous solid waste management activities must be managed within the facility in the areas identified in the approved plans. Management of solid waste in areas of the facility other than that referenced above, require written permission of the Solid Waste Section.

Materials Mulching and Grinding (Wood Grinding)

7. The facility is permitted to operate a treatment and processing facility as defined in 15A NCAC 13B, Rule .0101(49).
8. The facility is permitted to receive land clearing waste as defined in 15A NCAC 13B, Rule .0101(23).
9. The facility is permitted to receive wooden pallets constructed of unpainted and untreated natural wood.
10. The facility is permitted to receive yard trash as defined in 15A NCAC 13B, Rule .0101(55). However, this ground material containing yard trash may not be distributed to the public unless it has been composted in accordance with Rule .1400.
11. The facility must manage the treatment and processing according to the Operation Plan included in Attachment 1, 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 Section, prior to implementation.

White Goods Area

12. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).
13. The facility must manage white goods according to the Operation Plan included in Attachment 1, 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.
14. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants-

Public Drop-off Area

15. The landfill unit shall conform to all operating requirements described in the approved plans, 15A NCAC 13B .1626, and the conditions specified herein.
16. Each received wastes must be temporarily stored in the designated containers in accordance with the waste types. A proper distance between waste containers and/or roll-off boxes must be maintained for inspection, firefighting, and container removal.
17. Operational Conditions – Tires
18. This unit shall be operated in accordance with the approved documents and the requirements of 15A NCAC 13B .1107.
19. 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).
20. The facility must manage tires according to all applicable statutes and rules of the State of North Carolina.

Operational Conditions - Yard Waste

21. The facility is permitted to receive yard waste as defined in 15A NCAC 13B, Rule .0101(56).
22. Yard waste areas shall be operated in accordance with the requirements of 15A NCAC 13B, Rule .1400.
23. The facility must manage yard waste according to the Operation Plan included in Attachment 1, 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.

Type 1 Small Composting Unit (Approved 9/5/2008)

24. This unit may receive only yard waste, silvicultural waste, untreated and unpainted wood waste.
25. This unit shall be operated in accordance with the approved plan and the operational requirements of 15A NCAC 13B .1406
26. Final product shall meet the label requirements of 15A NCAC 13B .1407(g).

- End of Section -

ATTACHMENT 4
CONDITIONS OF PERMIT FOR CLOSURE

PART I: GENERAL FACILITY

Not Applicable

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL

(4903-CDLF-1993-CLOSED)

General Requirements

1. The owner must provide post-closure care and monitoring for the landfill. The post-closure period begins May 8, 2013. After at least five years of post-closure care and monitoring, the landfill owner may submit a written request to modify or discontinue post-closure care and monitoring, depending upon the results of the previous monitoring. However, the owner must continue to conduct water quality monitoring, landfill gas monitoring, and post-closure care until the Section provides written approval to discontinue monitoring and/or post-closure care.
2. The landfill owner 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. Mowing of vegetation on the landfill cover is required at least once per year. Trees on the final cover must be removed at least once per year.
3. The C&D landfill unit stopped receiving waste on June 27, 2008. The landfill was inspected by the Section in accordance with Rule .0505 and .510 and found to be satisfactory. The closure certification was completed on May 8, 2013 (DIN 8243; 2' of soil, DIN 15968- vegetation).
4. Any proposed expansion to the closed C&D landfill unit will be considered a new landfill for purposes of Solid Waste Management permitting.
5. The owner must maintain permanent markers that accurately identify the edge of the waste disposal boundary.
6. Any post-closure use of the property, including but not limited to, residential, commercial, industrial, agricultural, or recreational use, is subject to review and approval by the Section and must not disturb the integrity of the cap system, or the function of the monitoring systems. The Section may approve any other disturbance if the owner or operator submits a modified post-closure plan which describes the planned use of the property and demonstrates that disturbance of the cap system, including any removal of waste, will not increase the potential threat to human health or the environment. Post-closure uses approved by the Section will be included in the List of Approved Documents, Attachment 1, Part II.
7. The owner must maintain permanent markers that accurately identify the edge of the waste disposal boundary.
8. Public access to the landfill must be prevented by gates, fences, and/or other measures. The owner must maintain the public access preventive measures during the post-closure period.

9. Any post-closure use of the property, including but not limited to, residential, commercial, industrial, agricultural, or recreational use, is subject to review and approval by the Section and must not disturb the integrity of the cap system, or the function of the monitoring systems. The Section may approve any other disturbance if the owner or operator submits a modified post-closure plan which describes the planned use of the property and demonstrates that disturbance of the cap system, including any removal of waste, will not increase the potential threat to human health or the environment. Post-closure uses approved by the Section will be included in the List of Approved Documents.
10. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq., and rules promulgated under 15A NCAC 4. 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 area of the landfill unit.
11. The owner or operator must ensure that the landfill units do not violate any applicable requirements developed under a State Implementation Plan approved or promulgated by the U.S. EPA Administrator pursuant to Section 110 of the Clean Air Act, as amended.

Recordation Requirement

12. Following closure of all landfill units, the owner must record a notation on the deed to the landfill facility property at the local county Register of Deeds office. The notation on the deed shall in perpetuity notify any potential purchaser of the property that the land has been used as a MSW landfill and its use is restricted. To satisfy this requirement in accordance with N.C.G.S. 161-14.1, the owner must record this permit at the local county Register of Deeds office, indexed in the grantor index under the name of the owner of the land in the county or counties in which the land is located. The certified copy of the permit, affixed with the Register's seal and the date, book, and page number of recording, must be returned to the Solid Waste Section (Section) within 30 calendar days of issuance of this permit.

Monitoring and Reporting Requirements

13. Groundwater quality at the facility is subject to "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.
14. Ground water monitoring wells and surface water sampling location(s) must be sampled on a semi-annual basis, in accordance with the current policies and guidelines of the Section in effect at the time of sampling, unless otherwise specified by the Section. Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation. Sampling equipment and methods must conform to specifications in the "Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling," dated April 2008, available on the Section website.
15. 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 format (pdf or tiff) 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 that also includes surface water sampling locations,
 - 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.
16. The owner must monitor landfill gas to ensure that the closed site continues to meet the design standards for landfill gas found in 15A NCAC 13B .0503(2)(a). The concentration of explosive gases generated by the site must not exceed:
- a. twenty-five percent of the limit for the gases in site structures (excluding gas control or recovery system components); and
 - b. the lower explosive limit for the gases at the property boundary.
17. Landfill gas monitoring must be conducted quarterly, unless otherwise specified by the Section. Landfill gas monitoring should follow "Landfill Gas Monitoring Guidance Document," as provided on the Section webpage. Any proposed modification to an approved landfill gas monitoring plan must be submitted to the Section and approved prior to implementation.
18. All landfill gas monitoring must be conducted by properly trained personnel and must include monitoring for hydrogen sulfide. Landfill gas monitoring must include interior monitoring of onsite buildings. Landfill gas monitoring equipment must be calibrated according to the manufacturer's specifications. Verification of the calibration of the landfill gas monitoring equipment is required. Landfill gas monitoring results must be recorded on forms provided by the Section and must be maintained within the facility's operating record.
19. The owner must maintain the integrity of all groundwater and landfill gas monitoring wells, including making repairs to well heads, covers, and surface pads, during the post-closure period.
20. A readily accessible unobstructed path must be maintained so that groundwater and landfill gas monitoring wells and surface water sampling locations are accessible using four-wheel drive vehicles.
21. Each groundwater monitoring well and landfill gas well must be surveyed for location and elevation. 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).
22. If a new well is required to be installed, either to add to the network or to replace an existing well, or if a well is required to be abandoned:
- a. The permittee must obtain approval from the Section for the design, installation, and abandonment of any groundwater or landfill gas monitoring well. A licensed geologist must be present to supervise the installation of groundwater monitoring wells and landfill gas monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the Section Hydrogeologist at the time of well installation.
 - b. Within 30 days of completed construction of each new groundwater and landfill gas monitoring well, a well construction record, well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section. Form GW-1 must be used for both groundwater and landfill gas wells. The submittal must also include a scaled topographic map, showing the

- location and identification of new, existing, and abandoned wells and piezometers, and hydraulic conductivity and effective porosity values.
- c. Hydraulic conductivity and effective porosity values must be established for each screened interval at each monitoring well in order to develop groundwater flow characteristics.
 - d. Within thirty (30) days of the abandonment of any groundwater monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record must be certified by a Licensed Geologist, and submitted to the Section. A copy of the well abandonment records submitted to the Division of Water Quality, consistent with 15A NCAC 2C .0114(b), must be submitted to the Section.
 - e. Within thirty (30) days of the abandonment of a landfill gas monitoring well, an abandonment record must be submitted to the Section. The boring must be abandoned in accordance with 15A NCAC 2C .0113(d) and be certified by a Licensed Geologist.

Reporting and Recordkeeping

23. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater and landfill gas monitoring well must be maintained in the facility operating record. The permittee must maintain a record of all groundwater, surface water, and landfill gas monitoring events and analytical data in the operating record.
24. Copies of this permit, the approved plans, and all records required to be maintained in the operating record by the permittee must be maintained at a location approved by the Section and made available to the Section upon request during normal business hours.
25. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.