



Facility Permit No: 29-06
Permit to Construct / Operate
Davidson County MSWLF / CDLF
Doc. ID No. **18414**
May 28, 2013
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Pat McCrory
Governor

Division of Waste Management
Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

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

MUNICIPAL SOLID WASTE LANDFILL FACILITY
Permit No. 29-06

DAVIDSON COUNTY INTEGRATED SOLID WASTE MANAGEMENT
is hereby issued a

PERMIT TO CONSTRUCT
MSW LANDFILL UNIT PHASE 2, AREA 2
and
PERMIT TO OPERATE
C&D LANDFILL UNIT PHASE 4
and
CLOSURE
MSW LANDFILL UNIT PHASE 1B

Located at 220 Davidson County Landfill Road, Davidson County, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deeds recorded for this property listed in Attachment No. 1, Part III of this permit.

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

ATTACHMENT 1

PART I: PERMITTING HISTORY

1. On October 8, 1993 a Permit to Construct was issued for MSW landfill unit Phase 1, Area 3.
2. On June 22, 1994 a modification was made to the Permit to Construct for an alternative Construction Quality Assurance plan.
3. On June 24, 1994 a modification was made to the Permit to Construct for an alternative plan to verify clay liner thickness.
4. On July 14, 1994 a modification was made to the Permit to Construct for a repair and reconstruction plan.
5. On September 28, 1994 a Permit to Operate was issued for MSW landfill unit Phase 1, Area 3.
6. On January 17, 1995 a Permit to Operate was issued for MSW landfill unit Phase 1, Area 3 – Cell B.
7. On February 20, 1995 a Permit to Construct was issued for MSW landfill unit Phase 1, Area 1.
8. On August 21, 1995 a Permit Renewal was issued for MSW landfill unit Phase 1, Area 1.
9. On March 13, 1996 a Permit to Operate was issued for the operation of MSW landfill unit Phase 1, Area 1.
10. On August 18, 1999 an amendment was made to the Permit to Construct for the addition of MSW landfill unit Phase 1, Area 2 – Cell 1.
11. On May 30, 2000 a Permit to Operate was issued for MSW landfill unit Phase 1, Area 2 – Cell 1.
12. On June 22, 2001 a modification was made to the Permit to Operate for the operation of a permanent Household Hazardous Waste unit.
13. On November 20, 2001 a modification was made to the Permit to Operate for the operation of C&D landfill unit Phase 1.
14. On May 15, 2002 a modification was made to the Permit to Operate for operation of a Mobile Home Deconstruction unit and the use of synthetic tarps as an alternative daily cover.
15. On June 24, 2003 a modification was made to the Permit to Operate for operation of MSW landfill unit Phase 1, Area 2 – Cell 2.

16. On September 8, 2005 an amendment was made to the Permit to Construct for the construction of C&D landfill unit Phase 2.
17. On April 10, 2006 an amendment was made to the Permit to Operate for the operation of C&D landfill unit Phase 2.
18. On April 27, 2007 a modification was made to the Permit to Operate for the Partial Closure of MSW landfill Phase 1 Areas 1 and 3.
19. On September 28, 2007 an amendment was made to the Permit to Construct for the construction of MSW landfill unit Phase 2, Area 1.
20. On December 8, 2008 a modification was made to the Permit to Operate for operation of MSW landfill unit Phase 2, Area 1, partial closure of Phase 1, Areas 1 and 3 and the closure modification and regarding plan for Phase 1.
21. On July 18, 2011 an amendment was made to the Permit for the five-year renewal of operations including Phase 3 (vertical expansion), the operation of C&D landfill unit and the construction of C&D landfill unit Phase 4.
22. On May 28, 2013 an amendment was made to the Permit to Construct for the construction of MSW landfill unit Phase 2, Area 2.
23. On May 28, 2013 an amendment was made to the Permit for the five-year renewal of operations including the operation of C&D landfill unit Phase 4.
24. On May 28, 2013 an amendment was made to the Permit for the Closure of MSW unit 1B approving the construction and CQA documents..

No.	Permit Type	Date Issued	DIN
1.	Permit to Construct	October 8, 1993	
2.	Permit Modification	June 22, 1994	
3.	Permit Modification	June 24, 1994	
4.	Permit Modification	July 14, 1994	
5.	Permit to Operate	September 28, 1994	
6.	Permit to Operate	January 17, 1995	
7.	Permit to Construct	February 20, 1995	
8.	Permit Renewal	August 21, 1995	
9.	Permit Renewal	March 13, 1996	
10.	Permit Amendment	August 18, 1999	
11.	Permit to Operate	May 30, 2000	
12.	Permit Modification	June 22, 2001	
13.	Permit Modification	November 20, 2001	
14.	Permit Modification	May 15, 2002	

15.	Permit Modification	June 24, 2003	
16.	Permit Amendment-PTC Phase 2,C&D	September 8, 2005.	78
17.	Permit Amendment-PTO Phase 2 C&D	April 10, 2006	218
18.	Permit Modification-Partial Closure – MSWLF, Phase 1, Areas 1 & 3.	April 27, 2007	1058
19.	Permit Amendment	September 28, 2007	2881
20.	Permit Modification-PTO, Phase 2 Area 1.	December 8, 2008	6262
21.	Permit Amendment	July 18, 2011	14136
22.	Permit to Construct-MSWLF - Phase 2, Area 2	May 28, 2013	18414
23.	Permit to Operate-CDLF-Phase 4	May 28, 2013	18414
24.	Permit for Closure-MSWLF Phase 1B	May 28, 2013	18414

PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

(Note: Numbering is modified to be independent for each Part)

GENERAL FACILITY

Documents 1-25 contained in previous permits.

26. *Davidson County Landfill Partial Closure Construction Quality Assurance Certification Report*, Prepared by: Joyce Engineering, Greensboro, NC. November 2005. (Doc. Id. No. RCO724)
27. *Site Suitability Application, Davidson County Phase 2 Landfill*. Prepared by: G. N. Richardson & Associates, Raleigh, NC. May 2006. DIN 1035
28. *Request for Permit Modification Davidson County MSW Landfill – Phase 1*, Prepared by: Richardson Smith Gardner & Associates, Raleigh, NC. Prepared for: Davidson County Integrated Solid Waste Management Department. March 11, 2008.
29. *Construction Quality Assurance Report, Davidson County MSW Landfill – Phase 2, Area 1*. Prepared by G. N. Richardson & Associates, Raleigh, NC. Prepared for: Davidson County Integrated Solid Waste Management Department. June 2008. Revised through November 13, 2008. DIN 4979
30. *Construction Quality Assurance Report, Davidson County MSW Landfill – Phase 1B Closure*. Prepared by Smith Gardner, Inc. Prepared for: Davidson County Integrated Solid Waste Management Department. May 19, 2011. DIN 18907.
31. *Supplemental Geologic Report for Site Suitability, Davidson County Phase 2 Landfill*. Prepared by: Richardson Smith Gardner & Associates. August 26, 2011. DIN 15577.

32. *Design Hydrogeologic Report MSW Landfill – Phase 2. Area 2. Prepared by: Richardson Smith Gardner & Associates, Raleigh, NC. Prepared for: Davidson County Integrated Solid Waste Management Department. May 31, 2012. DIN 18108.*

33. *Permit to Construct Application, Davidson County MSW Landfill – Phase 2, Area 2. Prepared by: Richardson Smith Gardner & Associates, Raleigh, NC. Prepared for: Davidson County Integrated Solid Waste Management Department. May 2012. June 22, 2012. DIN 16964, 18743, 18905.*

CONSTRUCTION AND DEMOLITION LANDFILL

34. *Permit to Construct Application, Davidson County C&D Landfill - Phase 1, Lexington, North Carolina, dated July, 2000, prepared by G. N. Richardson & Associates on behalf of Davidson County.*

35. *Plans entitled Construction & Demolition Debris (C&D) Landfill - Phase 1, Engineering Drawings, dated July 2000, prepared by G. N. Richardson & Associates on behalf of Davidson County*

36. *Permit to Construct Application, Davidson County C&D Landfill Phase 2, Lexington, North Carolina, dated April 2005 with revisions dated July 1, 2005, and subsequent supporting hydrogeological information received on August 23, 2005, and August 30, 2005, prepared by G. N. Richardson & Associates on behalf of Davidson County. The application includes 11 plan sheets entitled Construction and Demolition Debris (C&D) Landfill Phase 2 Engineering Drawings bearing a certification date on each page of 4/29/05.*

37. *Construction Quality Assurance Report, Davidson County C&D Landfill -Phase 2, dated February 2006, prepared by G. N. Richardson & Associates.*

38. *Permit Amendment Application, Davidson County C&D Landfill, Phases 3 & 4. Prepared for: Davidson County. April 2009. DIN 12223.*

39. *Permit Amendment Application, Davidson County C&D Landfill, Phases 3 & 4. Prepared for: Davidson County. April 2009. Revised April 2011. DIN 13912.*

40. *Landfill Gas Monitoring Plan, Davidson County C&D Landfill. Prepared for: Davidson County. April 2011. DIN 14308.*

41. *Design Hydrogeologic Report, Davidson County C&D Landfill, Phases 1 through 4. Prepared for: Davidson County. April 2009. Revised April 2011. DIN 14309.*

42. *Construction Quality Assurance Report, Davidson County C&D Landfill –Phase 4. Prepared for: Davidson County. Prepared by Smith Gardner, Inc. January 18, 2013. DIN 18718.*

Household Hazardous Waste Permanent Collection Facility

43. *Application for Permanent HHW Facility. Submitted by: Davidson County. May 15, 2001. Revised June 22, 2001.*

Mobile Home Recycling Documents

44. *Operations Manual, Davidson County C&D Landfill - Mobile Home Deconstruction. Prepared by: G. N. Richardson & Associates, Raleigh, NC. May 2002.*

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Davidson County, N.C. Register of Deeds

Deed Book Information*:		Parcel ID Number*	Acreage
Deed Book	Page		
629	512	6756-03-20-2916	73.18
1106	1730	6756-01-07-3972	54.43
1161	1553	6756-01-17-3264	7.14
1161	1556	6756-01-16-2559	7.02
1205	1487	6756-03-31-3562	44.02
1342	1782	6746-04-84-5291	364.78
Total Acreage:			550.57

*Reference: Davidson County Register of Deeds website, List of Documents for the Approved Plan, Part 2

PART IV: GENERAL PERMIT CONDITIONS

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B.0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate. 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 persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. This permit shall not be effective until the certified copy of this permit which references legal descriptions for all land within the solid waste management facility boundary is recorded in the Register of Deeds office and 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 Section within 30 calendar days of issuance of this permit. If the Section does not receive the certified copy of the recorded permit within 30 calendar days of issuance of the permit, then and in that event, the permit is suspended and of no effect until the date the Section receives the certified copy of the recorded permit.

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 landfill and a reference by book and page to the recordation of the permit.
5. By initiating construction or receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Construction and operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment 1, "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 must 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.

- End of Section -

ATTACHMENT 2 CONDITIONS OF PERMIT TO CONSTRUCT

PART I: GENERAL FACILITY CONDITIONS

1. The issuance date of this Permit to Construct is May 28, 2013. The initial, substantial, construction authorized by this Permit to Construct for Phase 2 Area 2 must commence within 18 months from the issuance date of this permit. If substantial construction does not begin within 18 months from the issuance date of this permit, then the permit to construct shall expire. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures. The permittee may reapply for the permit to construct prior to the expiration date. The re-application will be subject to the statutes and rules in effect on that date and may be subject to additional fees.
2. Construction of all solid waste management units within this facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment I, Part II List of Documents for the Approved Plan.
3. Pursuant to the NC Solid Waste Management Rules (Rules) 15A NCAC 13B .0201(c) and (d)(1), this permit approves the construction for Phase 2 Area 2 of the landfill, consisting of approximately 11.9 acres with a projected operating capacity of 897,827 cubic yards.
4. 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.
5. Leachate lines in areas of new construction must be cleaned and camera-inspected after construction is complete. Documentation shall be submitted to the section as part of the CQA report.
6. The permittee must conduct a preconstruction meeting prior to initiating construction of any unit/cell and must notify the Section at least 10 days prior to the meeting.
7. Modifications or revisions of the approved documents or changes during construction require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.
8. The following conditions must be met prior to operation of the Phase 2 Area 2 and subsequent phases:
 - a. The Permittee must obtain a Permit to Operate for Phase 2 Area 2 from the Section in accordance with 15A NCAC 13B .0201(d).

- b. Construction Quality Assurance (CQA) documentation as well as a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval.
- c. The Permittee must contact the appropriate regional environmental specialist and permitting engineer to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.
- d. The edge of the waste footprint must be identified with permanent physical markers.
- e. Documentation of financial assurance costs including the new phase 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.

Geologic, Groundwater, Surface water, Landfill Gas, and Monitoring Requirements

9. Samples from new ground water monitoring wells and surface water stations shall be sampled for constituents listed in the approved Monitoring Plan and submitted to the Section prior to receiving the Permit to Operate.
10. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, probes, landfill gas monitoring wells, and groundwater monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C.0113(b), entitled "Abandonment of Wells."
11. In areas where soil is to be undercut, abandoned piezometers, monitoring wells and borings must not be grouted to pregrade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.
12. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Prior to placing any landfill liner, the geologist must submit to the Section hydrogeologist a written report that includes an accurate description of the exposed geological feature(s), subsurface soil condition, and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
13. A Licensed Geologist must supervise installation of groundwater monitoring wells, landfill gas monitoring wells and probes, and surface water sampling stations.
14. Any modification to the approved water quality and landfill gas monitoring, sampling, and analysis plans must be submitted to the Section Hydrogeologist for review.
15. Within 30 days of completed construction of any new groundwater and/or landfill gas monitoring well, a well construction record (GW-1 form), typical well schematic,

boring log, field log and notes, and description of well development activities must be submitted to the Section.

16. The permittee must provide a legible plan sheet-sized, scaled topographical map with a legend, showing the location and identification of all new, existing, and abandoned wells, probes, and piezometers after installation of groundwater and landfill gas monitoring wells.
17. Within thirty (30) days of the completed permanent abandonment of a groundwater or landfill gas monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record) must be submitted to the Section. The well abandonment records must be submitted to the Solid Waste Section in accordance with 15A NCAC 2C.0114(b) and be certified by a Licensed Geologist.
18. All forms, reports, maps, plans, and data submitted to the Section must include an electronic copy.

Erosion and Sedimentation Control Requirements

19. 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.
20. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
21. 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.
22. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

Post-closure Requirements

23. The permittee 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. In addition, a vegetative cover of native grasses must be maintained and mowed regularly.
24. Post-closure use of the property is subject to review and approval by the Division and must not disturb the integrity of the cap system, or the function of the monitoring systems. The Division may approve any other disturbance if the owner or operator

demonstrates that disturbance of the cap system, including any removal of waste, will not increase the potential threat to human health or the environment.

25. The permittee must maintain a record of all monitoring events and analytical data. Reports of the sampling events and analytical data must be submitted to the Section in a timely manner.
26. Any proposed expansion to the closed landfill units will be considered a new landfill for purposes of Solid Waste Management permitting.

- End of Section -

ATTACHMENT 3

CONDITIONS OF PERMIT TO OPERATE

PART I: GENERAL FACILITY CONDITIONS

1. The Permit to Operate shall expire July 18, 2016. Pursuant to 15A NCAC 13B.0201(g), no later than February 18, 2016, 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.
2. 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.
3. Closure or partial closure of any unit must be in accordance with the Closure Plans described in the approved plans and applicable rules and statutes. Revised Closure Plans must be submitted to the Division at least 90 days prior to implementation.

Operational Requirements

4. This facility is permitted to receive solid waste generated within Davidson County or the County may extend the service area to serve adjacent Counties (Guilford, Forsyth, Davie, Rowan, Stanly, Montgomery, and Randolph), consistent with the local government waste management plan and with local government approval and as defined in G.S. 130-290 (a)(18a) and (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.

5. The facility operator must complete an approved operator training course in compliance with G.S. 130A-309.25.
 - a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use to ensure compliance with operational requirements.
 - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
6. 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.
 - a. The use of a fabric reinforced tarp as an alternate daily cover is approved and subject to the terms and conditions of operation as set forth in the plan.
7. 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.

Monitoring and Reporting Requirements

8. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans.
9. 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.
10. 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.
11. Landfill gas monitoring wells must be sampled for explosive gases at least quarterly and according to specifications outlined in 15A NCAC 13B.544(d), entitled "Gas Control Plan", and current policies and guidelines of the Section in effect at the time of sampling.

12. Reports of the analytical data for each monitoring event must be submitted to the Section within 120 days of the respective sampling event. Analytical data must be submitted in a manner prescribed by the Section. Records of all groundwater, surface water, and leachate analytical data must be kept as part of the permanent facility record.
13. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water and surface water sampling, one sample per event. The leachate must be analyzed for all Appendix I constituents, pH, specific conductance, BOD, COD, nitrates, sulfates, and phosphates. Test results must 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.
14. A readily accessible unobstructed path must be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.
15. 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 must be kept as part of the permanent facility record.
16. 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.
17. 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.
18. 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.
19. 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 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

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

- 20. This permit approves the continued operation (renewal) of Phase 2, Area 1 and the construction of Phase 2, Area 2 of the municipal solid waste landfill, as well as the onsite environmental management and protection facilities as described in the approved plans.
- 21. The annual capacity is based on an average disposal rate of approximately 115,000 tons per year. The County has set a maximum disposal rate of 150,000 tons per year for the MSW landfill (average of 12,500 tons/month or 500 tons/day based on 300 operating days per year) as listed in 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.
- 22. The following table lists the dimensions and details for the MSW landfill units. Gross capacity is defined as the volume of the landfill calculated from the elevation of the initial waste placement through the top of the final cover, including any periodic cover.

<u>Landfill Unit</u>	<u>Area (Acres)</u>	<u>Gross Capacity (CY)</u>	<u>Net (Waste) Capacity (CY)</u>
Total: Holly Grove LF (Unlined Unit)	32.1	1,497,972	1,115,517 CY 669,310 Tons

Lined (Subtitle D) Landfill Units

Total: Phase 1 (Areas 1-3)	31.9	2,291,403	2,062,263 CY 1,415,217 Tons
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Phase 2 - Area 1	14.7	866,081	778,542 CY
Phase 2 - Area 2 (See Note 2)	11.9	897,827	808,045 CY
Phase 2 - Area 3	14.6	1,226,455	1,103,809 CY
Phase 2 - Area 4	10.9	905,038	814,535 CY
Phase 2 - Area 5	7.0	1,374,502	1,237,052 CY
Phase 2 - Area 6	9.1	564,683	508,215 CY
Phase 2 - Area 7	13.3	1,106,473	995,826 CY
Phase 2 - Area 8	6.3	1,284,861	901,404 CY
Total: Phase 2	87.8	8,225,920	
Total (Lined) Phase 1 & 2	119.7	10,517,323	9,209,691 CY

Notes:

1. The gross capacity figures shown for Phase 2 – Areas 1 through 7 are from top of protective cover to top of intermediate cover. For other landfill units the gross capacity figures are from top of subgrade

(unlined units) or top of protective cover (lined units) to top of final cover. Also note that the gross capacity figure for Phase 2 – Area 8 includes the vegetative soil layer volume for all of Phase 2.

Should Phase 2 Area 2 divided into two Cells, the acreage and capacity of each is as follows:

	Area 2 - Cell 1	Area 2 - Cell 2
Area (Acres)	5.9	5.9
Gross Capacity (CY)	330,895	566,932
Life Expectancy (Years)	1.8	3.1

23. 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).
24. 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.
25. 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 1.
26. 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 Attachment 1, Part II. 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.

27. 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 Attachment 1, Part II, of this permit, and the documentation shall be placed in the facility's operating record.
28. 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.
29. The leachate collection system must be maintained in accordance with 15A NCAC 13B.1626(12)(a) and in accordance with Attachment 1, Part II, of this permit. Remote camera inspection and flushing (if necessary) of all leachate collection piping accessible with a cleanout port will be performed every 3 years or earlier if an abnormal reduction in leachate production is observed. Documentation of the inspections, and cleaning and monitoring must be included in the operating records of the facility and provided to the Department upon request.
30. 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 Division at least 90 days prior to implementation.

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT SPECIFIC CONDITIONS

31. The Permit to Operate was issued on July 18, 2011. The Permit to Operate shall expire July 18, 2016. Pursuant to 15A NCAC 13B .0201(g), no later than (6 months prior) February 18, 2016, the permittee must submit to the Section a permit amendment application prepared in accordance with 15A NCAC 13B .0535 (b).
32. This permit approves the continued operation of Phases 1, 2, 3 and 4 as well as the onsite environmental management and protection facilities. Phase 4 consists of approximately 1.7 acres with a calculated gross capacity of approximately 49,849 cubic yards,. As described in the approved plans, Drawing S3 (Site Development Plan - Final Cover Grades), identifies the final configuration for Phases 1-4 of the C&D landfill. The top elevation of the final grade is approximately 766 feet.
33. The C&D Landfill facility is approved to accept approximately 10,000 tons (approximately 45 tons per day based on 280 operating days per year) as set forth in 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.

34. The following table lists the details for the landfill unit. Gross capacity is defined as the volume of the landfill calculated from the elevation of the initial waste placement through the top of the final cover, including any periodic cover.

C&D Unit	Acres*	Gross capacity (cubic yards)	Status
Phases 1 & 2	Ph 1 = 2.6 Ph 2 = 3.3	217,563	Operational
Phase 3	N/A*	41,340	Operational
Phase 4	1.7	49,849	Constructed & Approved
Total	7.6	308,752	

*Vertical Expansion over Phases 1 & 2.

35. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary. The boundaries of both the C&DLF unit and the closed MSWLF unit must be marked.
36. The C&DLF is permitted to receive the following waste types:
- a. "Construction or demolition debris" as defined in NCGS 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. "Inert debris" as defined in NCGS 130A-290 (a)(14) means solid waste that consists solely of material such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
 - c. "Land-clearing debris" as defined in NCGS 130A-290 (a)(15) means solid waste that is generated solely from land-clearing activities, limited to stumps, trees, limbs, brush, grass, and other vegetative material.
 - d. "Asphalt" in accordance with NCGS 130-294(m).
 - e. The facility is permitted to accept scrap glass generated at the PPG Lexington facility fiberglass operation. The glass shall be separated into rolloffs or other containers and transported to the landfill as a single stream waste. Other industrial wastes are not approved for disposal. This material has been demonstrated to meet 15A NCAC 13B .0542(e)(4) (DIN 19027).
37. Regulated asbestos-containing material as defined in 40 CFR 61 must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with 15 NCAC 13B .0542 (c).

38. Those wastes listed in 15A NCAC 13B .0542 (e) must not be accepted for disposal, including, but not limited to, hazardous waste, municipal solid waste, liquid waste, commercial or industrial wastes, and yard trash.
39. Wastewater treatment sludge is not approved for disposal. Wastewater treatment sludge may be accepted, with the approval of the Section, for utilization as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge must not be applied at greater than agronomic rates nor to a depth greater than six inches.
40. The revised Financial Assurance instrument for the approved Closure and Post-closure Care costs must be submitted to the Section.

PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT SPECIFIC CONDITIONS

Not Applicable

PART V: MISCELLANEOUS SOLID WASTE MANAGEMENT SPECIFIC CONDITIONS

General Conditions

41. 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.
42. 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.
43. 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.
44. 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.
45. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.

Operational Conditions – White Goods

46. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).

47. 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.
48. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.

Operational Conditions – Scrap Tires

49. 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).
50. Scrap tire collection areas shall be operated in accordance with the requirements of 15A NCAC 13B.1107.
51. The facility must manage tires 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.

Operational Conditions – Household Hazardous Waste (HHW)

52. This permit is for operation of a Permanent Household Hazardous Waste Collection Facility.
53. This permanent household hazardous waste collection facility is permitted to receive household hazardous waste (HHW) generated by homeowners and conditionally exempt small quantity generators of Davidson County. Unacceptable HHW that shall not be collected at this facility includes radioactive waste, explosives, and infectious waste.
54. This facility shall conform to all operating procedures in the approved plan, 15A NCAC 13B.0400, and the current Section policies and guidelines for HHW Collection Facilities.
55. Household Hazardous Waste Identification Number NCPH02901011 shall be used to ship wastes off site for recycling, treatment or disposal.
56. The permittee shall maintain records for the amount of HHW received at the facility and the amounts shipped off-site for recycling, treatment, and disposal. Records must be compiled on a monthly basis and maintained at the facility for inspection upon request by Solid Waste Section personnel.
57. On or before August 1 of each year, the permittee shall report to the Solid Waste Section, the amount of HHW waste (in pounds) received at this facility and the amounts shipped

off-site for recycling, reuse, and/or disposal. The reporting period shall be for the previous year, beginning July 1 and ending June 30.

58. A copy of this permit and the approved plan shall be maintained at the facility. Copies of this permit shall be forwarded to the local fire department, local hospitals, and other appropriate emergency agencies.

- *End of Permit Conditions* -