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. 2906

DAVIDSON COUNTY
is hereby issued a

PERMIT TO CONSTRUCT

2906-MSWLF-2008 DAVIDSON COUNTY MSW LANDFILL - PHASE 2, AREA 2 - CELL 2

PERMIT TO OPERATE

2906-MSWLF-2008 DAVIDSON COUNTY MSW LANDFILL - PHASE 2, AREA 2 - CELL 1
2906-CDLF DAVIDSON COUNTY CDLF
2906-TRANSFER DAVIDSON COUNTY TRANSFER FACILITY
2906-HHW DAVIDSON COUNTY HHW

PERMIT FOR CLOSURE

2906-MSWLF-1994 DAVIDSON COUNTY MSW LINED LANDFILL

Located on *1160 Old Highway 29* northeast of Lexington in Davidson 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 1, Part I of this permit.

Digitally signed by Edward F. Mussler III, P.E.
DN: cn=Edward F. Mussler III, P.E., o=NCDWM, ou=Solid Waste Section, email=ed.mussler@ncdenr.gov, c=US
Date: 2014.07.14 10:24:31 -04'00'

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

One NorthCarolina Naturally

ATTACHMENT 1
GENERAL PERMIT CONDITIONS/INFORMATION

Permit to Operate Data Table

Permit	Status	Issuance	Expiration
2906-MSWLF-1994	Closed	*Not Applicable*	*Not Applicable*
2906-MSWLF-2008	Active	July 14, 2014	May 28, 2018
2906-CDLF	Active	May 28, 2013	July 18, 2016
2906-TRANSFER	Active	August 27, 2013	August 27, 2018
2906-HHW	Active	July 14, 2014	May 28, 2018

PART I: GENERAL FACILITY

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. The Permit for this facility, dated May 28, 2013, was recorded by the Davidson County Register of Deeds on June 10, 2013 in Book 2105 on Pages 1607 through 1629 (Document ID No. 18129).

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 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 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. 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 permitting the facility including those identified in the "List of Documents for the Approved Plan" which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.

8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g) the permittee shall notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.

9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation or statute.

Properties Approved for the Solid Waste Facility

Davidson County, N.C. Register of Deeds				
Book	Page	Acreage	Landowner	PIN
1342	1782	364.8±	Davidson County	6746-04-84-5291
629	512	73.2±	Davidson County	6756-03-20-2916
1106	1730	54.4±	Davidson County	6756-01-07-3972
1205	1487	44.0±	Davidson County	6756-03-31-3562
1161	1553	7.1±	Davidson County	6756-01-17-3264
1161	1556	7.0±	Davidson County	6756-01-16-2559
		550.5±	Total Facility Acreage	

Notes:

1. Deed book references are from the Davidson County GIS website (http://webgis.co.davidson.nc.us/website/davidsongis/viewer.htm) accessed August 2013.

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Permitting History

1. On October 8, 1993 a Permit to Construct was issued for MSW landfill unit Phase I, 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 I, 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 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 May 15, 2002 a modification was made to the Permit to Operate for the use of synthetic tarps as an alternative daily cover.
13. On June 24, 2003 a modification was made to the Permit to Operate for the operation of MSW landfill unit Phase 1, Area 2 – Cell 2.
14. 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.
15. On September 28, 2007 an amendment was made to the Permit to Construct for the construction of MSW landfill unit Phase 2, Area 1.
16. On December 8, 2008 a modification was made to the Permit to Operate for the operation of MSW landfill unit Phase 2, Area, partial closure of Phase 1, Areas 1 and 3 and the closure modification and regarding plan for Phase 1.
17. On July 18, 2011 an amendment as made to the Permit for the five-year renewal of operations.
18. On May 28, 2013 an amendment was made to the Permit to Construct for the construction of MSW landfill unit Phase 2, Area 2, an amendment was made to the Permit to Operate for the five-year renewal of operations and an amendment was made to the Permit for to the closure of MSW unit 1B approving the construction and CQA documents.

19. On July 14, 2014 a modification was made to the Permit to Operate for the operation of MSW landfill unit Phase 2, Area 2 – Cell 1.

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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	May 15, 2002	
13.	Permit Modification	June 24, 2003	
14.	Permit Modification-Partial Closure – MSWLF, Phase 1, Areas 1 & 3.	April 27, 2007	1058
15.	Permit Amendment	September 28, 2007	2881
16.	Permit Modification-PTO, Phase 2 Area 1.	December 8, 2008	6262
17.	Permit Amendment	July 18, 2011	14136
18.	Permit to Construct-MSWLF – Phase 2, Area 2 Permit for Closure-MSWLF Phase 1B.	May 28, 2013	18414
19.	Permit to Operate Phase 2, Area 2 - Cell 1.	July 14, 2014	21357

List of Documents for the Approved Plan

The descriptions of previous/historical documents are found in the Permit to Operate issued June 24, 2003, DIN 19570.

DOCUMENT ID NO.	DOCUMENT DESCRIPTION
724	*Davidson County Landfill Partial Closure Construction Quality Assurance Certification Report*, Prepared by: Joyce Engineering, Greensboro, NC. November 2005.
1035	*Site Suitability Application, Davidson County Phase 2 Landfill.* Prepared by: G. N. Richardson & Associates, Raleigh, NC. May 2006.
	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.
4979	*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.
18907	*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.
15577	*Supplemental Geologic Report for Site Suitability, Davidson County Phase 2 Landfill*. Prepared by: Richardson Smith Gardner & Associates. Prepared for: Davidson County Integrated Solid Waste Management Department. August 26, 2011.
18108	*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.
16964 18743 18905	*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.
21035	*Construction Quality Assurance Report, Davidson County MSW Landfill – Phase 2, Area 2 – Cell 1, Closure*. Prepared by Smith Gardner, Inc. Prepared for: Davidson County Integrated Solid Waste Management Department. May 5, 2014. Revised June 23, 2014.

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

Permitting History

1. On November 20, 2001 a modification was made to the Permit to Operate for the operation of C&D landfill unit Phase 1.
2. On May 15, 2002 a modification was made to the Permit to Operate for the use of synthetic tarps as an alternative daily cover.
3. On September 8, 2005 an amendment was made to the Permit to Construct for the construction of C&D landfill unit Phase 2.
4. On April 10, 2006 an amendment was made to the Permit to Operate for the operation of C&D landfill unit Phase 2.

5. On July 18, 2011 an amendment as 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.
6. 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.

No.	Permit Type	Date Issued	Document ID No.
1.	Permit Modification	November 20, 2001	
2.	Permit Modification	May 15, 2002	
3.	Permit Amendment	September 8, 2005	78
4.	Permit Amendment	April 10, 2006	218
5.	Permit Amendment	July 18, 2011	14136
6.	Permit to Operate-CDLF-Phase 4	May 28, 2013	18414

List of Documents for the Approved Plan
The descriptions of previous/historical documents are found in the Permit to Operate issued June 24, 2003, DIN 19570.

DOCUMENT ID NO.	DOCUMENT DESCRIPTION
	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.
	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.
	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.
	Construction Quality Assurance Report, Davidson County C&D Landfill -Phase 2, dated February 2006, prepared by G. N. Richardson & Associates.
12223	*Permit Amendment Application, Davidson County C&D Landfill, Phases 3 & 4*. Prepared for: Davidson County. April 2009.
13912	*Permit Amendment Application, Davidson County C&D Landfill, Phases 3 & 4*. Prepared for: Davidson County. April 2009. Revised April 2011.
14308	*Landfill Gas Monitoring Plan, Davidson County C&D Landfill*.

	Prepared for: Davidson County. April 2011.
14309	*Design Hydrogeologic Report, Davidson County C&D Landfill, Phases 1 through 4*. Prepared for: Davidson County. April 2009. Revised April 2011.
18718	*Construction Quality Assurance Report, Davidson County C&D Landfill –Phase 4.* Prepared for: Davidson County. Prepared by Smith Gardner, Inc. January 18, 2013.

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)

Permitting History

1. On August 27, 2013 an amendment was made to the Permit to Operate for the operation of a transfer station unit.

No.	Permit Type	Date Issued	Document ID No.
1.	**Permit Amendment**	**August 27, 2013**	**19439**

List of Documents for the Approved Plan

DOCUMENT ID NO.	DOCUMENT DESCRIPTION
19146	*Davidson County Transfer Station Permit Application*. Prepared by: Smith+Gardner. Prepared for: Davidson County. April 2013.
19418	*Response to Review Comments w/ Revised Operations Manual*. Prepared by: Smith+Gardner. Prepared for: Davidson County. July 2013.

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

Permitting History

1. On June 22, 2001 a modification was made to the Permit to Operate for the permanent Household Hazardous Waste unit.
2. On May 15, 2002 a modification was made to the Permit to Operate for the operation of a Mobile Home Deconstruction unit.
3. On March 26, 2008 an amendment was made to the Permit to Operate for the five-year renewal of operations and the addition of MSW landfill unit Phase 5.

No.	Permit Type	Date Issued	Document ID No.
1.	Permit Modification	June 22, 2001	
2.	Permit Modification	May 15, 2002	
3.	Permit Amendment	July 16, 2013	19099

List of Documents for the Approved Plan

DOCUMENT ID NO.	DOCUMENT DESCRIPTION
	Application for Permanent HHW Facility. Submitted by: Davidson County. May 15, 2001. Revised June 22, 2001.
	Operations Manual, Davidson County C&D Landfill - Mobile Home Deconstruction. Prepared by: G. N. Richardson & Associates, Raleigh, NC. May 2002.

- End of Section -

ATTACHMENT 2
CONDITIONS OF PERMIT TO CONSTRUCT

PART I: GENERAL FACILITY

Not Applicable

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. The Permit to Operate shall expire **May 28, 2018**. Pursuant to 15A NCAC 13B .0201(g), no later than **November 28, 2017**, 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. The edge of the waste footprint for all disposal units must be identified with permanent physical markers.

4. The permittee must not knowingly dispose of, or accept for transfer for subsequent disposal, 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.

5. Copies of this permit, the approved plans and all records required to be maintained 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.

6. 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.

7. 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

8. This facility is permitted to receive non-hazardous 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 Statues Article 9 of Chapter 130A, and the rules adopted by the Commission for Health Services.

9. 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.

10. 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 a 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 a fabric tarp as an alternate daily cover is approved and subject to the terms and conditions of operation as set forth in the plan.

11. 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

12. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans.

13. 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.

14. 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.

15. Landfill gas monitoring wells must be sampled for explosive gases at least quarterly and according to specifications outlined in the approved landfill gas monitoring plan and current policies and guidelines of the Section in effect at the time of sampling.

16. 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.

17. 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 the same constituents as the groundwater monitoring wells and surface water monitoring locations as specified in the approved monitoring plan. 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.

18. A readily accessible unobstructed path must be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.

19. 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.

20. 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.

21. 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.

22. 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(S)

23. This permit approves the continued operation of Phase 2, Area 1 and Phase 2, Area 2 - Cell 1 of the municipal solid waste landfill, as well as the onsite environmental management and protection facilities as described in the approved plans.

24. 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.

25. 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.

Landfill Unit	**Area (Acres)**	**Gross Capacity (CY)**	**Net (Waste) Capacity (CY)**
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

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.

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

	Phase 2 Area 2 - Cell 1 Constructed	**Phase 2 Area 2 - Cell 2 Permitted**
Area (Acres)	6.3	5.5
Gross Capacity (CY)	330,895	566,932
Life Expectancy (Years)	1.8	3.1

26. 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).

27. 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.

28. 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, Part II: “List of Documents for the Approved Plan”.

29. 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: “List of Documents for the Approved Plan”. 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.

30. 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: "List of Documents for the Approved Plan", of this permit, and the documentation shall be placed in the facility's operating record.

31. 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.

32. Maintenance of the leachate collection system shall be conducted in accordance with the specific requirements of the Operations Plan and with 15A NCAC 13B.1626 (12)(a) and 15A NCAC 13b .1680 (a)(b)(c) . 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 Department upon request.

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

33. The Permit to Operate and the Permit to Construct (Phase 4) 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).

34. 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.

35. 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.

36. 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.

37. 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.

38. 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).

39. 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).

40. 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.

41. 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.

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)

42. The Permit to Operate shall expire **August 27, 2018**. Pursuant to 15A NCAC 13B .0201(e), no later than **February 27, 2018**, the owner or operator must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.

43. The facility is permitted to receive solid waste as defined in NCGS 130A -290 (35).

44. The following, at a minimum, must not be accepted for disposal at the facility; hazardous waste, liquid wastes, regulated medical waste, sharps not properly packaged, regulated-asbestos containing material as defined in 40 CFR 61, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S. 130A-309.10(f).

45. This facility is permitted to receive construction and demolition (C&D) waste as well as municipal solid waste (MSW). C&D wastes will be transferred to a recycling facility permitted to the receive waste from Davidson County. MSW wastes will be transferred to the active Davidson County MSW landfill unit for disposal. Proposed modifications of the service area and/or the disposal facility constitute a permit modification and are subject to a permitting fee and must be approved by the Section.

46. The permittee must not knowingly dispose of, or accept for transfer for subsequent disposal, 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.

47. A responsible individual trained and certified in facility operations must be on-site at all times during all operating hours of the facility, in accordance with G.S. 130A-309.25.

48. The permittee must develop, and use, a training and screening program at the facility for detecting and preventing unauthorized wastes from being accepted at the facility. At a minimum, the program must include:

    a. Random inspections of incoming loads or other comparable procedures.

    b. Records of all inspections.

    c. Training of personnel to recognize hazardous, liquid and other excluded waste types.

49. The facility must not cause nuisance conditions.

    a. The tipping floor and transfer trailer loading area must be maintained in a clean, sanitary condition at all times and must be cleaned at least daily in accordance with the approved Operational Plan.

    b. Waste must only be deposited on a "tipping floor" or directly into a transfer container. Waste must not be stored on the "tipping floor" after operating hours.

    c. Waste may be stored on-site, in leak proof transfer trailers, with watertight covers, a maximum of 24 hours except that a minimal amount of waste may be stored for a maximum of 72 hours when the facility is closed during a weekend or holiday. Storage of the waste must not cause any nuisance, such as odor or attraction of vectors.

    d. Effective vector control measures must be applied at all times to control any potential vectors including flies, rodents, insects, and other vermin.

    e. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing litter.

        i) Fugitive dust emissions are prohibited.

        ii) Windblown materials must be collected by the end of the day and no windblown material may be allowed to leave the facility boundary.

50. All water that comes in contact with solid waste, including vehicle wash-down water, is leachate and must be captured and properly treated before release to the environment.

    a. The leachate control system, such as floor drains, leachate collection devices, sanitary sewer connections and leachate storage tanks, must be operational during facility operations.

    b. The tipping floor must drain away from the building entrance and into the leachate collection system.

51. 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.

52. Copies of this permit, the approved plans and all records required to be maintained 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.

53. The permittee must maintain a record of the amount of solid waste received at the facility, including daily records of waste received and origins of the loads. Scales must be used to weigh the amount of waste received. The daily records are to be summarized into a monthly report for use in the required annual reports.

54. 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 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 receiving disposal facility.

        v) By diversion to alternative management facilities.

    c. The completed report must be forwarded to the Regional Environmental Specialist for the facility by the date due on the prescribed annual facility report form.

    d. A copy of the completed report must be forwarded to each county manager for each county from which waste was received the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Environmental Specialist by the date due on the prescribed annual facility report form.

PART VII- MISCELLANEOUS SOLID WASTE MANAGEMENT

General Conditions

55. 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.

56. 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.

57. 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.

58. 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.

59. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.

Operational Conditions – White Goods

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

61. The facility must manage white goods according to the Operation Plan included in Attachment 1, Part VII "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.

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

Operational Conditions – Scrap Tires

63. 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).

64. Scrap tire collection areas shall be operated in accordance with the requirements of 15A NCAC 13B, Rule .1107.

65. The facility must manage tires according to the Operation Plan included in Attachment 1, Part VII, "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)

66. This permit is for operation of a Permanent Household Hazardous Waste Collection Facility.

67. 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.

68. 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.

69. Household Hazardous Waste Identification Number NCPH02901011 shall be used to ship wastes off site for recycling, treatment or disposal.

Reporting Requirements (HHW)

70. 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.

71. 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.

72. 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 Section-

ATTACHMENT 4
CONDITIONS OF PERMIT FOR CLOSURE

PART I: GENERAL FACILITY

Not Applicable

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

73. 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.

74. 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.

75. 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.

76. Any proposed expansion to the closed landfill units will be considered a new landfill for purposes of Solid Waste Management permitting.

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 Permit Conditions -