



Facility Permit No: 01-05
Permit to Operate Phase 4
Cobles C&D Landfill Landfill
April 29, 2011
Doc ID: 13652
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North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

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

**MUNICIPAL SOLID WASTE LANDFILL
Permit No. 01-05**

COBLES C&D LANDFILL, OWNER AND OPERATOR

Is hereby issued a

**PERMIT TO CONSTRUCT PHASE 3B
AND OPERATE EXISTING PHASE 2 AND NEW PHASE 3A**

of the

COBLES C&D LANDFILL

located on N.C. Highway 20 St. Pauls, Alamance 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. 1 of this permit.

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

ATTACHMENT 1

PART I: PERMITTING HISTORY

Issuance	Date
Original Issue	September 30, 1998
Permit Modification 1 (Area Certifications)	April 4, 2000
Permit Modification 2 (Area Certifications)	August 29, 2000
Permit Modification 3 (1.15 acre Addition)	January 24, 2002
Permit to Construct for the Phase 2 Expansion	May 20, 2003
Permit to Construct for the Phases 3A & 3B Expansion	January 30, 2009
Permit to Operate for the Phases 1 and 2, Continued Operation	February 23, 2009
Permit to Operate Phase 3A	April 29, 2011

PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

1. *Construction and Demolition Landfill Permit Application: Siting Requirements.* Submitted by: Trigon Engineering Consultants, Inc. Dated: 18 September 1998.
2. *Construction and Demolition Landfill Permit Application: Construction Plan Application.* Submitted by: Trigon Engineering Consultants, Inc. Dated: 4 September 1998.
3. Response to Technical review letter. Submitted by: Trigon Environmental Consultants, Inc. including a revised grading plan, revisions to the Water Quality Monitoring Plan, location of the 100 year Flood Plan elevation, and other information to satisfy permit requirements. Dated: : 18 September 1998
4. *Certificate of Approval from the Division of Land Quality.* Dated 14 September 1998 approving the Sediment and Erosion Control Plan for the facility (included with the letter described in Item No. 3 above).
5. *Request for Modification to Construction and Demolition Debris Landfill Permit No. 01-05, Coble's Sandrock Alamance County, North Carolina.* Submitted by: Joyce Engineering. Dated: 2 July 2001 and revised 28 November 2001. This modification adds an additional 1.15 acres to the originally approved 5.85 acre footprint bringing the total footprint to 7.0 acres (local government approval for this facility is for 7.0 acres) and adjusting the side slopes from 4:1 to 3.5:1.

6. *Construction Plan Application, Phase 2 Expansion, Coble's Sandroock Construction and Demolition Debris Landfill*. Submitted by: Joyce Engineering, Inc. Dated: 10 June 2002 and revised May 2003.
7. Document referencing "Phase 2 Expansion Permit Modification - Unit Specific Conditions Report" including well abandonment records, monitoring well installation records, base line sampling report for new MW-6 and MW-7, and related hydro-geological information. Submitted by: Joyce Engineering, Inc. Dated: 28 August 2003
8. Letter including an "Operation Plan Mulching Addendum" (2 pages) and a revised Drawing #3 showing the mulching operation area. Submitted by: from Joyce Engineering, Inc. Dated: 19 November 2003
9. Letter addressing subgrade testing as required by the franchise agreement with Alamance County for Phase 2 Cell A. Submitted by: Joyce Engineering, Inc. Dated: 22 December 2003
10. Letter providing geologist inspection and surveyed base grade certification from Trittech Civil Environmental, P.C. for Phase 2, Cell A. Submitted by: Joyce Engineering, Inc. Dated: 23 December 2003
11. Survey dated 14 September 2004 from Trittech Civil Environmental, P.C. certifying base grades for entire Phase 2, Cell B boundary and footprint.
12. Brown, Michelle M. to Ed Mussler, PE. "Coble's Sandroock, Inc. C&D Landfill, Request for Extension to Solid Waste Permit #01-05". December 9, 2008. [DIN 6702]
13. *Coble's Sandroock C&D Landfill Phase 3A Expansion / Consturciton Quality Assurance Certification Report*. Submitted by: Joyce Engineering. Dated: April 2010. [DIN 8676]
14. *Permit Modification for Asphalt Shingles Recycling*. Submitted by Joyce Engineering. Dated: February 2011 and Revised April 2011. [DIN 13612]
15. Correspondence from Dewberry and Davis providing summary of cell areas and volumes dated April 19, 2011. [DIN 13651]

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Alamance County, N.C. Register of Deeds				
Book	Page	Grantee	Grantor	Acres
1941	177	Kent Lee Coble and Wife Brenda Lamm Coble	Gregg Ray Phillips	17.25
1432	504	Kent Lee Coble and Wife Brenda Lamm Coble	Gijsbertus F. Van Staveren and Wife Cynthia J. Van Staveren	19.12
1309	324	Kent Lee Coble and Wife Brenda Lamm Coble	Devoe C. Euliss	12.67
1117	83	Kent Lee Coble and Wife Brenda Lamm Coble	Deanna Marie Coble	16.31
1074	958	Kent Lee Coble and Wife Brenda Lamm Coble	Gijsbertus F. Van Staveren and Deanna Marie Coble	19.82
375	553	Kent Lee Coble and Wife Brenda Lamm Coble	A.B. Coble; M.R. Coble & Wife Alma Coble; T.C. Coble & Wife Catherine Coble; J.P. Kimrey & Wife Dewell Coble Kimrey	97
Total Site Acreage: 182.17 acres				

PART VII: 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.
 - a. This permit includes the conditions for the Permit to Construct Phase 3B. Following completion of the Permit to Construct requirements, the permittee may then submit an application for a Permit to Operate Phase 3B.
 - b. The Permit to Operate shall expire January 30, 2014. Pursuant to 15A NCAC 13B .0201(g), no later than September 30, 2013, 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.
2. The persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. [Intentionally Blank.]
4. 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 beginning 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 sedimentation and erosion control, and a General or Individual National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit, if applicable. 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 1- C&D LANDFILL CONSTRUCTION CONDITIONS

1. The following are conditions for completion of the Permit to Construct requirements for Phase 3B and general construction conditions for the facility.
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. 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.
4. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.
5. The following conditions must be met prior to the operation of Phase 3B:
 - a. 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.
 - b. The edge of the waste footprint must be identified with permanent physical markers.
 - c. Documentation of financial assurance mechanisms must be submitted to the Section. The financial assurance amount must include closure and post-closure costs including the new phase to receive the PTO, in accordance with 15A NCAC 13B .1628 and NC General Statute 130A-295.2.

Geologic, Ground Water and Monitoring Requirements

6. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review and approval prior to implementation of the changes.
7. Within 30 days of completed construction of each new groundwater 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. Each monitoring well and gas probe must be surveyed for location and elevation.

8. The permittee must submit to the Section a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells.
9. Within thirty (30) days of the completed permanent abandonment of a groundwater 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 Section consistent with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.
10. All forms, reports, maps, plans, and data submitted to the Section must include an electronic copy.

Erosion and Sedimentation Control Requirements

11. 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.
12. 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.
13. 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.
14. 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.

- End of Section -

ATTACHMENT 3
CONDITIONS OF PERMIT TO OPERATE

PART I: OPERATING CONDITIONS

1. Operation of the construction and demolition debris landfill (C&D landfill) must be in accordance with section .0542 of 15A NCAC 13B of the Solid Waste Management Rules and the requirements contained in this permit and must conform to the operating procedures described in the approved plan. Should the approved plan and the rules be in conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
2. This permit approves the continued operation of Phase 2 and the operation the newly constructed Phase 3A as well as the onsite environmental management and protection facilities as described in the approved plans. The Permittee must complete all applicable application processes prior to the operation of any additional landfill phases at the facility.
3. The following table lists the dimensions and details for the C&D landfill units, both existing and planned. Total gross capacity is defined as the volume measured from the bottom of waste through the top of final cover.

Phase Area	Acres	Gross Capacity cu yds	Permit Status
1	7.0	365,301	PTO
2	5.8	320,000	PTO
3A	6.3	570,662	PTO (This Permit)
3B	5.8	349,213	PTC Issued
4	8.2	1,043,245	These Phases are approved for development. Requires submittal of PTC/PTO applications.
5	7.0	890,575	
6	8.0	1,017,800	
7	6.9	877,852	
8	11.8	1,501,255	
Totals	154.2	6,935,903	

4. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary.
5. The C&D landfill units are permitted to receive the following waste types:
 - a. Unless otherwise specifically approved by permit condition, only “construction” or “demolition” types of solid wastes as defined in NCGS 130A-290 (a)(4) are permitted for acceptance and disposal in the C&D landfill units.

- b. “Construction or demolition debris” as defined in G.S. 130A-290 (a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.
 - c. “Inert debris” as defined in G.S. 130A-290 (14) means solid waste that consists solely of material that is virtually inert and that is likely to retain its physical and chemical structure under expected conditions of disposal, such as brick, concrete, rock, and clean soil.
 - d. “Land-clearing debris” as defined in G.S. 130A-290 (15) means solid waste that is generated solely from land-clearing activities such as stumps and tree trunks.
 - e. “Asphalt” in accordance with G.S. 130-294 (m).
6. The C&D landfill units must not receive the following waste types:
- a. Wastewater treatment sludge is not approved to be accepted for disposal. Wastewater treatment sludge may be accepted, with the approval of the Division, for utilization as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge will neither be applied at greater than agronomic rates nor to a depth greater than six inches.
 - b. “Yard trash” as defined in G.S. 130A-290 (45) shall not be disposed in the landfill area. However, yard trash, along with land-clearing debris, may be accepted for processing in the Yard Waste Composting Area or disposal in a land-clearing inert debris (LCID) landfill.
 - c. Waste Excluded from disposal in a CDLF as specified in rule .0542(e)
 - d. Materials not allowed for acceptance under the franchise agreement with Alamance County.
7. The facility is approved to accept up to 600 tons per day or 94,250 tons per year based on 290 operating days per year with a maximum variance in accordance with the approved facility plan and GS 130A-294(b1)(1).
8. The facility is permitted to receive solid waste generate within the following areas:
- a. Areas are located twenty-five (25) miles from the landfill;
 - b. The existing customers that are located outside twenty-five (25) miles from the landfill are grandfathered under the franchise agreement; and
 - c. The new that are located outside twenty-five (25) miles from the landfill are replacing existing customers.
 - d. The counties from which the facility has previously taken wastes are including: Alamance County, Cabarrus County, Caswell County, Chatham County, Davidson County, Forsyth County, Greene County, Guilford County, Lee County, Orange County, Randolph County, Rockingham County, and Wake County.

9. The permittee must not knowingly dispose of any type or form of C&D solid waste that is generated within the boundaries of a unit of local government that by ordinance:
 - a. Prohibits generators or collectors of C&D solid waste from disposing of that type or form of C&D solid waste.
 - b. Requires generators or collectors of C&D solid waste to recycle that type or form of C&D solid waste.
10. 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 times of operation to ensure compliance with operational requirements.
 - b. All pertinent landfill-operating personnel must receive training and supervision necessary for the proper operation of the landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
11. The permittee must actively employ a screening program that detects and prevents the disposal of MSW, hazardous, liquid or non-permitted wastes described in Condition 6 of this section. 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.
 - d. Development of a contingency plan that properly manages any identified hazardous, liquid, or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of those wastes.
12. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility pursuant to 15A NCAC 13B .1628 and N.C. General Statute 130A-295.2.
 - a. The owner and operator must annually adjust cost estimates including closure and post-closure activities for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument in accordance with applicable Rules and statutes.
13. A closure and post-closure plan must be submitted for approval at least 90 days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the unit in accordance with all rules in effect at that time. At a minimum, the plan must address the following:
 - a. Design of a final cover system in accordance with 15 NCAC 13B .1627, or the solid waste management rules in effect at the time of closure;

- b. Construction and maintenance/operation of the final cover system and erosion control structures;
 - c. Surface water, ground water, and explosive gas monitoring.
14. 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.

Monitoring and Reporting Requirements

15. Groundwater, surface water, and methane monitoring locations must be established and monitored as identified in the approved plans.
16. 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.
17. 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. Methane monitoring must be conducted quarterly, unless otherwise specified by the Section.
18. Hydraulic conductivity and effective porosity values must be established for each screened interval at each monitoring well in order to develop groundwater flow characteristics.
19. Reports of the analytical data for each monitoring event must be submitted to the Section within 120 days of the respective sampling event. The permittee must provide a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells. 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.
20. Not Applicable.
21. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water and surface water sampling. 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.
22. A readily accessible unobstructed path must be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.
23. 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.

24. 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.
25. Within thirty (30) days of the abandonment of any monitoring well/probe, 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 Section consistent with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.
26. All forms, reports, maps, plans, and data submitted to the Section must include an electronic copy.
27. 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.
28. 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.
29. On or before August 1 annually, the Permittee must submit an annual facility report to the Solid Waste Section, on forms prescribed by the Section.
 - a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
 - b. The annual facility report must list the amount of waste received and landfilled in tons and be compiled:
 - i. On a monthly basis.
 - ii. By county, city or transfer station of origin.
 - iii. By specific waste type.
 - iv. By disposal location within the facility.
 - v. By diversion to alternative management facilities.
 - c. A measurement of volume utilized in the landfill cells must be performed during the second quarter of the calendar year. The date and volumes, in cubic yards, must be included in the report.
 - d. The amount of waste, in tons from scale records, disposed in landfill cells from the initial disposal 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 III: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

Not applicable

PART IV: YARD WASTE UNIT SPECIFIC CONDITIONS

Not applicable

**PART V: MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC
CONDITIONS**

Asphalt shingle recovery is approved for operation in accordance with the approved Asphalt Shingles Recycling plan [DIN 13612] revised April 2011.

- *End of Permit Conditions* -