

North Carolina
Department of Environment and Natural

Michael F. Easley, Governor
William G. Ross Jr., Secretary



WINSTON-SALEM REGIONAL OFFICE
Division of Waste Management
Solid Waste Section

May 20, 2003

Mr. Kent Coble
Coble's Sandrock, Inc.
5833 Foster's Store Road
Liberty, North Carolina 27298

Re: Coble's C&D Landfill
Solid Waste Permit No. 01-05

Post-It® Fax Note	7671	Date	5/23/03	# of pages	
To	KENT COBLE / JULIAN FOSCUE	From	TIM JEWETT		
Co./Dept.	COBLE C&D	Co.	NCDENR / SWS		
Phone #	(336) 565-4756	Phone #	(336) 771-4600		
Fax #	(336) 565-4752	Fax #	(336) 771-4631		

Dear Mr. Coble:

Enclosed please find a solid waste Permit to Construct and the accompanying conditions for the subject facility, issued in accordance with N.C.G.S. 130A-294 and the NC Solid Waste Management Rules. This permit is for the development of the Phase 2 disposal area at the facility. A Permit to Operate will be issued once Condition #11(a)-(f) of the permit are completed and all of the requirements and Alamance County Franchise Agreement are met. The Permit to Operate will be valid for a five year period from the date of issuance and should be attached to the enclosed conditions to replace the Permit to Construct.

Please review the conditions of permit carefully. If you have any questions or comments about the enclosed permit, please feel free to contact me at (336) 771-4608 ext. 204 or the Solid Waste Specialist for your area, Hugh Jernigan, at (336) 771-4608 ext. 206.

Sincerely,

Timothy A. Jewett
Timothy A. Jewett
Western Area Engineer
Solid Waste Section

cc: Jim Coffey, SWS
Julian Foscue, SWS
Hugh Jernigan, SWS
Lee Henry, Trigon Engineering Consultants
Raleigh Central Files: Coble's Sandrock, Inc. C&D Landfill, Alamance County,
Permit No. 01-05

Cameron Johnson
Fac/Permit/Co ID# 01-05
Date 8/13/03
DIN
Doc ID#

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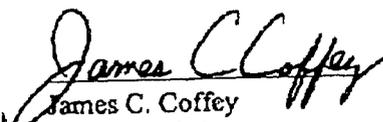
PERMIT NO. 01-05
ISSUED 30 SEPTEMBER 1998
MODIFIED 4 APRIL 2000 (Area Certifications)
MODIFIED 29 AUGUST 2000 (Area Certifications)
MODIFIED 24 JANUARY 2002 (1.15 acre addition)
AMENDMENT 20 MAY 2003 (PTC Phase 2)

SOLID WASTE PERMIT

COBLE'S SANDROCK, INC.

is hereby issued a PERMIT TO CONSTRUCT the PHASE 2 EXPANSION of a
CONSTRUCTION AND DEMOLITION LANDFILL

located on Foster's Store Road (SR 1113) one half mile east of Kimesville in 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 facility is located and described by the property deed included in the siting requirements and construction plan application referenced in Attachment 1.


James C. Coffey
Section Chief
Solid Waste Section

PERMIT NO. 01-05
ISSUED 30 SEPTEMBER 1998
MODIFIED 4 APRIL 2000 (Area Certifications)
MODIFIED 29 AUGUST 2000 (Area Certifications)
MODIFIED 24 JANUARY 2002 (1.15 acre addition)
AMENDMENT 20 MAY 2003 (PTC Phase 2)

COBLE'S SANDROCK, INC.

**SOLID WASTE PERMIT
CONSTRUCTION AND DEMOLITION LANDFILL**

CONDITIONS OF PERMIT:

General:

1. This permit shall not be effective unless the certified copy is filed 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 shall be returned to the Division of Waste Management (the Division).
2. When this property is sold, leased, transferred or conveyed, 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.
3. This permit is for a period of five years as per 15A NCAC 13B .0201(c), according to the issuance date of the permit to operate. Modifications to the facility may be required in accordance with the rules in effect at the time of review. This facility may receive solid waste that is generated within a service area defined as 25 miles from the landfill as described in the Alamance County franchise agreement. The service area is further described in Appendix I of this document.
4. The approved plan for this facility is described in Attachment 1, "List of Documents for Approved Plan". Where discrepancies exist, the most recent submittal and these Conditions shall govern. Some components of the approved plan are reiterated in these Conditions.
5. This permit is not transferable.
6. A copy of this permit and the approved plan shall be maintained at the facility.
7. The owner/operator is responsible for obtaining any and 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.

Conditions of Permit No. 01-05
May 20, 2003

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Construction and Operation:

8. This permit is for the development of Phase 2 of the Coble's Construction and Demolition Landfill, totalling approximately 5.86 acres, within the approved facility description, in accordance with the approved plans (see Attachment 1). Development shall begin on the northern side of the facility and progress to the south.

9. This solid waste management facility is permitted to receive the following waste types:

- a. Land-clearing debris as defined in G.S. 130A-290, specifically, solid waste that is generated solely from land-clearing activities, such as stumps, trees, etc.;
- b. Inert debris defined as solid waste which consists solely of material that is virtually inert, such as brick, concrete, rock and uncontaminated soil;
- c. Asphalt in accordance with G.S. 130A-294(m);
- d. Construction and demolition debris defined as solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures;

Note: Yard trash defined as solid waste consisting solely of vegetative matter resulting from landscaping maintenance (see G.S. 130A-290) is banned from disposal in this facility as per NC General Statutes.

10. All sedimentation and erosion control measures will be conducted in accordance with the Sedimentation Control Act codified at 15 NCAC 4. Native vegetation shall be established on the completed landfill.

11. The following requirements shall be met prior to operation of this facility:

- a. Coble's Sandrock, Inc. or its consultant shall provide documentation to the Division that the site preparation (grading, placement of fill if applicable, maintaining 4 feet separation between waste and groundwater, etc.) has occurred in accordance with the construction plan, the Alamance County Franchise Agreement compacted soil liner requirement, and the conditions specified herein.
- b. The owner's geologist shall examine the cell excavation and note any pertinent geological features exposed during the construction process and shall notify the Solid Waste Section Hydrogeologist of these findings.
- b. Site inspection shall be made by a representative of the Division.
- c. Signs shall be posted at the facility in accordance with the Access and Safety Requirements under Operation Condition No. 12 listed below.
- d. Surface water monitoring locations shall be established and groundwater monitoring wells (see Monitoring and Reporting Requirements) shall be installed. A baseline sampling event for background water quality shall be performed. Well construction

Conditions of Permit No. 01-05
May 20, 2003

- records and sampling analysis results shall be submitted to the Section Hydrogeologist for review and approval prior to operation (see Monitoring and Reporting Conditions below).
- e. Recordation procedures for the permit shall be implemented as described above in General Conditions Numbers 1 and 2.
 - f. A comprehensive Operations Plan shall be submitted to the Division in accordance with 15A NCAC 13B .0505.
12. Operation of the facility shall occur in accordance with the NC Solid Waste Management Rules 15A NCAC 13B .0505, "Operational Requirements for Sanitary Landfills", the approved Operations Plan, and the following specific conditions:

Waste Acceptance and Disposal

- a. The facility shall accept only those solid wastes which it is permitted to receive.
- b. No municipal solid waste, hazardous waste, or liquid waste shall be accepted for disposal.
- c. Waste shall be restricted to the smallest area feasible and compacted as densely as practical into cells.
- d. The permittee shall implement a program at the facility for detecting and preventing the disposal of unacceptable wastes. The program shall include, at a minimum:
 - i. Random inspections of incoming loads or other comparable procedures;
 - ii. Record keeping which documents these inspections;
 - iii. Training of personnel to recognize hazardous, liquid, and other unauthorized waste types;
 - iv. Development of a contingency plan to properly manage any identified hazardous or problem wastes; The plan must address identification, removal, storage, and final disposition of these wastes.

Cover Material Requirements

- e. Operational soil cover of at least six inches shall be placed at least once per week or when the active area reaches 1/2 acre in size or more often as necessitated by the nature of the waste so as to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors or water infiltration.
- f. Areas which will not have additional waste placed on them for 12 months or more, but where final termination of operations has not occurred, shall be covered with a minimum of one foot of soil cover.
- g. After final termination of disposal operations at the site, or major part thereof, or upon revocation of a permit, the final cover system shall be installed.

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Access and Safety

- b. The facility shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Division to prevent unauthorized entry.
- i. An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- j. The access road to the site shall be of all-weather construction and maintained in good condition.
- k. Dust control measures shall be implemented when necessary.
- l. Signs providing information on dumping procedures, the hours of operation, the permit number, the emergency contact, and other pertinent information shall be posted at the site entrance.
- m. Signs shall be posted stating that no MSW, hazardous waste or liquid waste can be received.
- n. Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.
- o. The removal of solid waste from the facility is prohibited unless the owner/operator approves and the removal is not performed on the working face.
- p. Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein.
- q. Open burning of solid waste is prohibited.
- r. The concentration of explosive gases generated at the facility shall not exceed:
 - i. twenty-five percent of the limit for gases in site structures (excluding gas control or recovery system components); and
 - ii. the lower explosive limit for gases at the facility boundary.

Erosion and Sedimentation Control

- s. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site.
- t. Adequate sedimentation and erosion control measures shall be practiced to prevent excessive on-site erosion.
- u. Provisions for a vegetative ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of C&D landfill development.

Drainage Control and Water Protection Requirements

- v. Surface water shall be diverted from the operational area.
- w. Surface water shall not be impounded over or in waste.
- x. A separation distance of at least four feet shall be maintained between waste and the ground-water table.

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- y. Solid waste shall not be disposed of in water.
 - z. Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to discharge of leachate to surface waters.
13. Materials recovered from the C&D waste stream and from deconstruction of mobile homes on the working face shall be placed in six roll off containers specified in the revised operations plan. No stock piling of this material and no accumulation of containers is permitted. Containers shall be removed from the facility when full or weekly as determined by the fill rate and the limitation of containers at the workin face.
14. Metal and cardboard are approved for recalmation at the working face. If additional materials are to be reclaimed, please contact the Section for approval which may require modification to the permit and/or an application for C&D treatment and processing.
15. All pertinent landfill operating personnel will receive training and supervision necessary to carry out their duties and operate this landfill in a safe manner.
16. 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 facility in accordance with all rules in effect at that time. At a minimum, the plan shall address the following:
- a. Design of a final cover system;
 - b. Construction and maintenance/operation of the final cover system and erosion control structures;
 - c. Surface water, ground water, and explosive gas monitoring.

Monitoring and Reporting:

17. Ground water quality at this facility is subject to the classification and remedial action provisions referenced in Rule .0503 (2)(d) of 15A NCAC 13B. Water quality monitoring for the C&D landfill shall occur according to the following conditions:
- a. The permittee shall sample the monitoring wells semi-annually or as directed by the Division Hydrogeologist.
 - b. Monitoring well design and construction shall conform to the specifications outlined in Attachment 2, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities."
 - c. Sampling equipment, procedures, and parameters shall conform to specifications outlined in the above-referenced guidance document, (Attachment 2), or the current guidelines established by the Division at the time of sampling.
 - d. A total of five monitoring well locations as illustrated in the approved plans (revised 28 October 2002) shall be established to monitor the facility.

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May 20, 2003

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- e. A geologist shall be in the field to supervise well installation. The exact locations, screened intervals, and nesting of the wells shall be established after consultation with the Division Hydrogeologist at the time of well installation.
 - f. Prior to the acceptance of any waste at the facility, a baseline sampling event shall be completed. The results of this sampling event shall be submitted to the Division Hydrogeologist in a timely manner (see Construction and Operation Condition 11(d)).
 - g. Well completion records and boring logs shall be submitted to The Division at the same time as the results of the initial sampling event or within 30 days upon completion of any new wells.
 - h. In order to determine ground-water flow directions and rates, each monitoring well shall be surveyed, and hydraulic conductivity values and effective porosity values shall be established for the screened intervals for each monitoring well.
 - i. A readily accessible unobstructed path shall be initially cleared and maintained so that four-wheel drive vehicles may access the monitoring wells at all times.
18. The permittee shall establish two locations for surface water sampling. Surface water shall be sampled and analyzed semi-annually according to the protocol and parameters required by the Division at the time of sampling.
 19. The permittee shall maintain a record of all monitoring events and analytical data. Reports of the analytical data for each water quality monitoring sampling event (1.h. & 2.) shall be submitted to the Division in a timely manner.
 20. Explosive gas monitoring shall be performed as needed to ensure compliance with the standards in Rule .0503 (2)(a).
 21. The permittee shall maintain a record of the amount of solid waste (in tons) received at the facility and the amount of material reclaimed for recycling, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received and recycled.
 22. On or before 01 August (or an earlier date as requested by the Division) of each year, the permittee shall report the amount of waste received at this facility and disposed of in the landfill to the Division and to all counties from which waste was accepted, on forms prescribed by the Division. This report shall include the following information:
 - a. The reporting period shall be for the previous year, beginning 01 July and ending on 30 June;
 - b. The amount of waste received and landfilled in tons, compiled on a monthly basis, according to Condition 5 described above; and
 - c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.

Conditions of Permit No. 01-05
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23. All pertinent records and reports shall be maintained on site and made available to the Division upon request.

APPENDIX 1

APPROVED SERVICE AREA

COBLE'S SANDROCK, INC.
CONSTRUCTION AND DEMOLITION LANDFILL²²

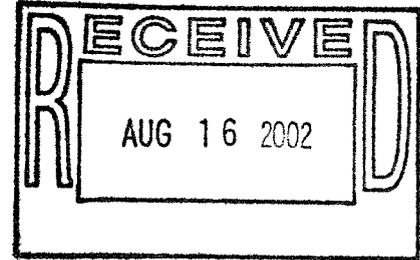
The following counties are listed in the service area for the referenced facility. The service area is defined as a 25 mile radius from the landfill and current customers located more than 25 miles from the facility that are grandfathered under the franchise agreement. Only counties from which the facility has previously taken waste are listed.

1. ALAMANCE
2. CABARRUS
3. CASWELL
4. CHATHAM
5. DAVIDSON
6. DURHAM
7. FORSYTH
8. GREENE
9. GUILFORD
10. LEE
11. ORANGE
12. RANDOLPH
13. ROCKINGHAM
14. WAKE

North Carolina
Department of Environment and Natural Resources

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
William L. Meyer, Director



August 12, 2002

Mr. Dan Moore
Joyce Engineering, Inc.
Henderson Building Road
2301 W. Meadowview Rd.
Greensboro, NC 27407

Subject: Coble's Sandrock C & D Landfill Phase 2 Expansion, Alamance County
Construction Plan Application Review (1)

Dan,

I have looked at the application for the Phase 2 expansion areas, Cell A and Cell B. Following are several concerns which will require changes and/or additions to this application.

Bedrock

The bedrock surface map cannot take into account the data from the borings, which are referred to as P-1 through P-2, because these borings were installed using an air rotary rig. Bedrock is determined by auger refusal. For an example of the differing power of air rotary versus an auger look at borings P-1 which is next to MW-3. The estimated rock levels vary greatly, with the auger refusal occurring approximately 10 feet above the air rotary termination point.

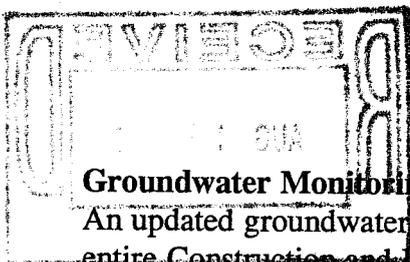
Additional rock information is needed in Cell B. Please keep in mind the Solid Waste Section's goal of maintaining a four feet separation of rock to waste. A primary purpose of maintaining the separation in order to ascertain some degree of natural attenuation from the soil layer. New base grades are needed in this area.

The dikes discussed on Page 17 *Bedrock* and on Page 18 *Groundwater Monitoring* are not shown on any of the plan sheets from Joyce Engineering. Please resubmit the Bedrock Surface Contour Map showing the dikes, any rock outcrops on the site, and the data from new borings.

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Groundwater Monitoring

An updated groundwater monitoring plan will need to be submitted and reviewed for the entire ~~Construction and Demolition~~ landfill which includes Phases 1 and 2. The existing well location MW-3 is not sufficient as a background monitoring point. There will need to be downgradient groundwater testing to the east of the proposed Phase 2 Cell B. The monitoring plan needs to show the surface water testing points.

Other:

The approximate bedrock surface and the approximate groundwater surface, as denoted on the cross-sections (Drawing No. 10), should be based on actual boring data. The borings need to be shown on the cross-sections.

Borings need to be shown on the Phase 2 Base Grading Plan sheet.

The survey shown on the plans of the existing topography includes a section within gray lines, which does not line up to the survey/topography which is outside the grey lines. This is especially apparent and confusing on the north side of Cell B. This needs to be edited/clarified on all plan sheets.

Please contact me for assistance or if a meeting is necessary.

Sincerely,

Ellen Lorscheider
Permitting Hydrogeologist
Solid Waste Section

Cc:

Kent Coble, Coble Sandrock, Inc.
Tim Jewett
Hugh Jernigan