

Scanned By	Date	DOC ID	Permit
Backus	04/06/2014	23978	7407-CDLF-2009

Environmental Consultants
and Contractors

322 Chapanoke Road
Suite 101
Raleigh, NC 27603-3415

919 662-3015
FAX 919 662-3017
www.scsengineers.com

SCS ENGINEERS, PC

File No. 02214708.00
March 5, 2015

Ms. Patricia Backus, PE, Regional Engineer
NCDENR Division of Waste Management
Solid Waste Section Permitting Branch
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: Construction Quality Control Documentation
C&D Landfill, Inc. CDLF Phase 2B Partial
Pitt County, North Carolina
Solid Waste Permit 74-07-CDLF-2009

APPROVED	
DIVISION OF WASTE MANAGEMENT	
SOLID WASTE SECTION	
Date	<u>04/06/2015</u> By <u>Patricia M. Backus</u>
DIN <u>23978</u>	
Attachment <u>1</u> Part <u>III</u> Document <u>26</u>	
Permit <u>7407-CDLF-2009</u> Permit DIN <u>24085</u>	

Dear Ms. Backus:

On behalf of C&D Landfill, Inc., SCS Engineers is pleased to present this report documenting the completion of a portion of Phase 2B of the approved CDLF expansion. This work was completed in pursuit of the Permit to Construct issued by the Solid Waste Section (SWS) on December 31, 2014. Within this report, please find documentation for construction of the first two cells of Phase 2B covering approximately 4.29 acres in the northern portion of the approved footprint – including the certification of subgrade conditions and general adherence to the approved construction plan. At this time C&D Landfill, Inc. seeks the Section's approval of the construction and the issuance of a Permit to Operate for a five-year period.

This report is organized into the following sections:

1. CQA meeting minutes and notes
2. Photographic documentation
3. As-built construction drawings
4. Piezometer abandonment records

OVERVIEW

This report is intended to satisfy the requirements of 15A NCAC 13B .0541 for documentation of a Construction Quality Assurance program for Phase 2B at C&D Landfill, Inc. Phase 2 is a separate footprint from the older CDLF (Phase 1) and encompasses approximately 23 acres. Construction was divided into two equal-size sub-phases: Phase 2A (Cells 1 – 5) within the lower elevations to the south, which is completed and nearly full, and Phase 2B (Cells 6 – 10) in the slightly higher elevations to the north. Both sub-phases were built in stages by the Owner/Operator. Major aspects of the new construction included:



1. Clearing of the former agriculture site; installation of construction-stage sedimentation and erosion control measures approved by Pitt County Planning Department.
2. Abandonment of piezometers within the Phase 2B footprint; no new monitoring wells were required for this initial stage of construction, but wells required to be activated for the next stage are already installed.
3. Establish layout and grade control for construction using a third-party licensed surveyor; install permanent marker posts at the perimeter of the waste footprint.
4. Importing borrow soil and grading for approximately 4.29 acres corresponding to Cells 6 and 7 shown on the approved construction drawing E2. Fill depths varied up to 3 feet above the original ground surface.
5. In keeping with the construction of Phase 2A, the approved use of “beneficial fill” within fill sections deeper than 24 inches was observed. This consisted of soil with concrete rubble, but no asphalt debris or treated wood.
6. All fill within the upper 24 inches of finished grades meets current NC DENR Solid Waste Section requirements for soil type, verified by the project engineer. Compaction effort was verified by the project engineer via proof roll evaluation.
7. Protection of exposed subgrade and earthwork embankments, including sedimentation and erosion control features, with vegetation and/or mulch.

RESPONSIBILITIES AND DOCUMENTATION

The Facility served as its own contractor (facility manager Wayne Bell supervising) using in-house staff and equipment, local surveying support (Tip Burgess, RLS supervising), and field engineering support and CQA oversight (SCS Engineers, PC, David Garrett, PE supervising). Documentation of the work consists of field notes and “as-built” construction plans, plus a series of photographs, presented in separate sections of this report.

One or more CQA site inspections were conducted to outline the objectives of the work and to check progress and quality of workmanship. During these meetings, and in regular phone conversations, the staff described problems they encountered, which consisted of wet weather during the 2014-15 winter. Wet conditions delayed construction but eventually turned into a positive aspect, because the wetter than optimum soils required additional compaction effort to achieve a field density capable of supporting rubber-tire equipment without rutting or pumping.

Having worked on the site for 15 years, the project engineer is comfortable with the visual soil classifications and performance-based compaction criteria. Soils from the borrow site are well understood from the permitting and earlier Phase 2A construction. As a provision of Section 4.2.1 of the PTC Application, visual examination was used in lieu of laboratory testing. All soil work passed the visual evaluation criteria.

CERTIFICATION

This is to certify that construction of the 4.29 acre partial of Phase 2B of the C&D Landfill, Inc., construction and demolition landfill was completed in substantial compliance with (1) the CQA Plan, (2) the conditions of the Permit to Construct, (3) the Solid Waste Management Rules, and (4) acceptable engineering practices. This is to further certify that the grades and lines are accurately depicted on the “as-built” plans, prepared based on a topographic survey by a licensed surveyor, and that subgrade soil types meet the current regulatory requirements based on visual inspection. No ground water or detrimental soils were encountered at or above the approved subgrade elevations; site conditions are as anticipated based on the earlier permitting studies.

Please contact me if you have any questions or comments.

Cordially yours,



G. David Garrett, P.G., P.E.
Project Manager
SCS Engineers, PC



3-4-2015



Steven C. Lamb, PE
Vice President
SCS Engineers, PC

cc: Judson Whitehurst, Wayne Bell – C&D Landfill, Inc.
Ed Mussler, P.E. – SWS Permitting Branch

C:\Users\3921gdg\Documents\Projects\EJE Recycling\Landfill\Cell 2B CQA\notes\CQA notes and report.docx

SCS ENGINEERS, PC

March 5, 2015

MEMORANDUM

TO: Judson Whitehurst, Wayne Bell – C&D Landfill, Inc.

CC: Project File 02214708.00

RE: CQA Progress Meeting Summary
C&D Landfill, Inc.
Phase 2B Partial (Cells 6 and 7)
Pitt County, Permit #74-07

The following is a transcription of my field notes pertaining to various Construction Quality Assurance (CQA) inspections and meetings for the referenced work site. The work consists of site inspections and soil evaluation to meet North Carolina Solid Waste Rules, installation and inspection of drainage features and sediment basins – which required a redesign to accommodate prevailing site conditions – subject to approval by Pitt County Planning and Inspections. The work was substantially completed by the C&D Landfill, Inc., staff, with partial oversight provided by David Garrett, P.E and grade control by Tip Burgess, RLS.

No special construction procedures (e.g., underdrains or undercutting) were required. None of the construction was in cut. Fill depths varying between 2 and 4 feet required approximately 20,000 cubic yards of soil derived from an adjacent borrow site. The upper 24 inches of the soil was consistent with that used for construction of Phase 2A, which was thoroughly tested and found to exhibit USCS classifications of mostly SM and SC, with ML and CL. My visual inspection of the Phase 2B construction to date verifies these classifications.

Based on my familiarity with these soils, I do not believe it necessary to subject these soils to rigorous laboratory testing. I further believe that the compaction characteristics are consistent with those experienced in Phase 2A, thus I believe we can judge the performance of the soils in place via probing or proof rolling to evaluate the soil density. These methods are used extensively in the construction industry and are appropriate for this site.

The following notes are arranged by date of my inspections, i.e., minutes of the CQA meetings, which are intended to serve as documentation of the construction and CQA oversight. Included with this document are relevant photographs and relevant drawings of “as-built” conditions. Please be advised that this document shall be presented to the NC DENR Division of Waste Management in support of a forthcoming Permit to Operate application.

Please contact me if you have any questions or comments regarding this submittal.

*C&D Landfill, Inc., Phase 2B Partial
CQA Progress Meetings*



March 5, 2015

CQA Progress Meeting Minutes

Present at all CQA meetings was Wayne Bell of EJE Recycling/C&D Landfill, Inc. A summary of key observations made on the indicated dates of inspection follows:

- 5/29/2014 David Garrett inspected preliminary clearing activities and advised client on drainage issues, whereas stockpiles of soil and “beneficial fill” materials were somewhat closely spaced. Fortunately, rainfall was not an issue during this period. Staking of the base grades was required. Temporary sediment and erosion control measures had already been installed, as had the footprint markers. The original PTC had been submitted in March 2014, Phase 2A was getting tight on space, and the Facility has obtained permission from SWS to begin stockpiling soil within the footprint during the review period. It was anticipated that the construction pace would not be rushed, since the fill soil would need to be moved using on-site people and equipment. Thus the inspection schedule would be commensurate. No further site visits were deemed necessary until closer to the permit issuance, whence the earthwork would commence in earnest.
- 11/11/2014 Permit issuance is eminent and construction activities increased. Adam Smith supervised piezometer abandonments and repair of two monitoring wells. Regarding the grading activities, on-going soil placement and compaction were underway. Photo 5 shows the compaction effort via the resistance to rutting where rubber-tire vehicles had recently traveled, including loaded dump trucks and a drill rig. Soils consist of the familiar silty and clayey sand, which had been subjected to rainfall and required additional compaction effort, i.e. additional passes of the tracked equipment, in order to achieve the apparent density level. The interim construction was deemed to meet the permit requirements.
- 2/4/2015 I was advised Wayne Bell over the phone of the need for the additional disposal space due to unsafe working conditions on the Phase 2A mound during wet weather. As such, grading of a portion of the Phase 2B footprint, corresponding to Cells 6 and 7, was nearing completion and the rest would be left for later. This is consistent with expectations by SWS. I observed construction progress and documented the progress with photographs. Soil types appear consistent with requirements and density is adequate based on proof roll evaluation. I advised Wayne Bell to be mindful of need to protect finished surfaces from erosion. I requested an as-built survey of the completed portion.
- 2/17/15 Tip Burgess forwarded “as-built” drawings based on a survey conducted near the end of January.
- 3/5/2015 David Garrett prepared CQA documentation report.

End of notes.



Photo 1 – View from old railroad corridor; looking south toward dozer working on pad in January 2014



Photo 2 – looking toward fill pad; waste limits marked with white pipes; drainage feature is not wetlands, gray soils are natural topsoil containing concrete debris where fill depths are over 24 inches; tan soil is from the borrow site; dozer working near toe



Photo 3 – Closer view of fill soil placed in multiple lifts; tan borrow soil is silty sand with clay (SM, SC)



Photo 4 – Compacted soil in foreground; compacted fill pad beyond; access road in background

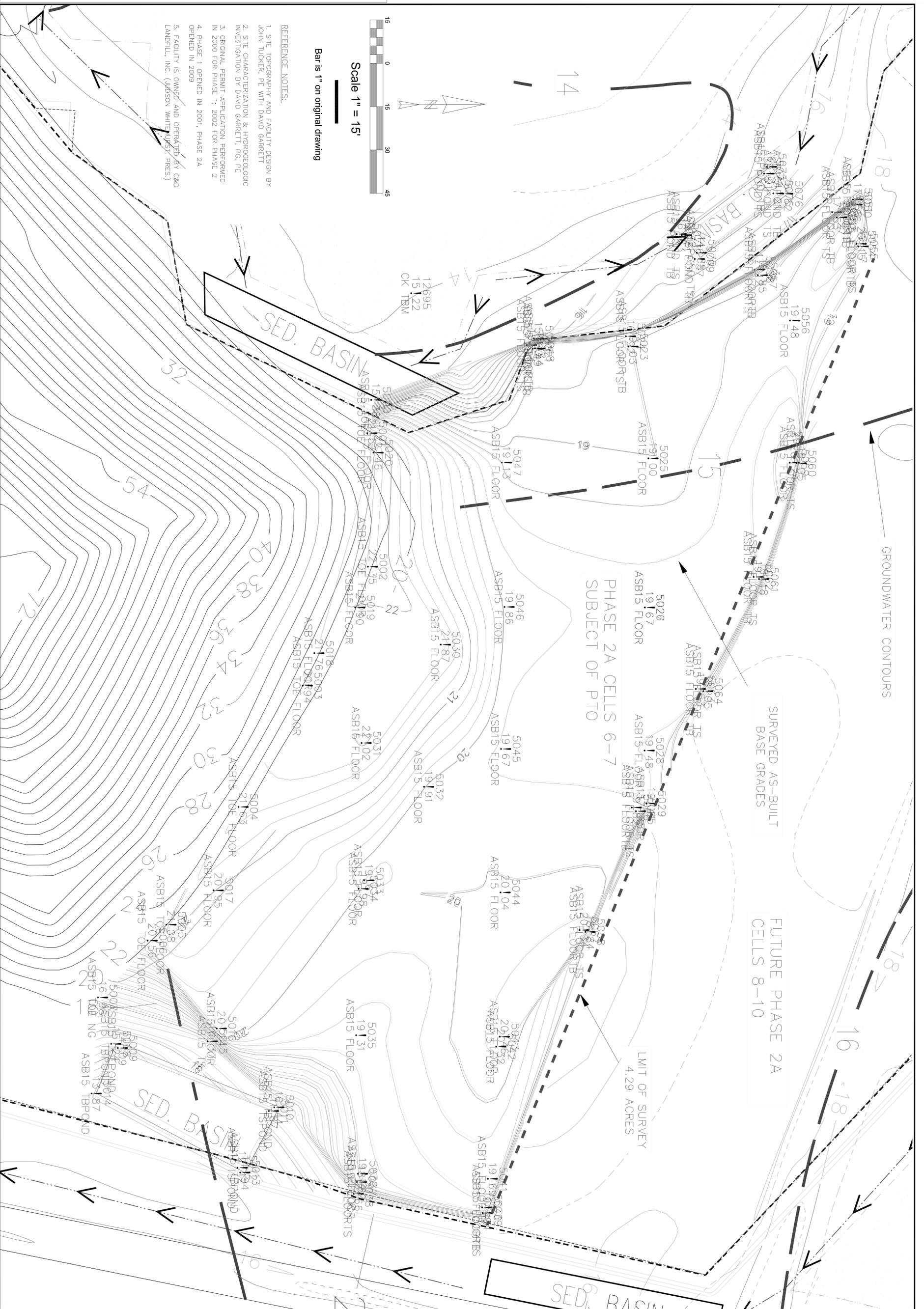


Photo 5 – early stages of grading; left looks east along toe of Phase 1; right looks northeast; drill rig in the background near stockpiles; rubber-tire vehicles do not indent the soil or leave ruts, which is a good indicator of compaction effort; soils are excavated from a borrow pit located beyond the trees and stockpiled to drain; soils were placed within the footprint in small piles (estimated 5 to 7 cy), then bladed out and compacted with the dozer which weighs approximately 30,000 pounds; the soils have been rained on multiple times, required compaction above optimum moisture (resulting in lower permeability)



Photo 6 – Well groomed northern slope of Phase 2A; compaction by “tracking in” moist soil to the right

Project Drawings



Scale 1" = 15'

Bar is 1" on original drawing

REFERENCE NOTES:
 1. SITE TOPOGRAPHY AND FACILITY DESIGN BY JOHN TUCKER, PE WITH DAVID GARRETT
 2. SITE CHARACTERIZATION & HYDROGEOLOGIC INVESTIGATION BY DAVID GARRETT, PE, PE
 3. ORIGINAL PERMIT APPLICATION, PERFORMED IN 2000 FOR PHASE 1; 2002 FOR PHASE 2
 4. PHASE 1 OPENED IN 2001, PHASE 2A OPENED IN 2009
 5. FACILITY IS OWNED AND OPERATED BY C&D LANDFILL, INC. (WILSON WHITE MUSEY, PRES.)

PROJ. NO. 02214708.00 T3 DSN. BY: GDG	DWN. BY: GDG CHK. BY: SCL	Q/A R/W BY: APP. BY:	SCS ENGINEERS, PC 2520 WHITEHALL PARK DRIVE, SUITE 450 CHARLOTTE, NORTH CAROLINA 28273 PHONE: (704) 504-3107 FAX: (704) 504-3174		CLIENT C&D LANDFILL, INC. PERMIT NO. 74-07 802 RECYCLING LANE GREENVILLE, NC 27834	SHEET TITLE LANDFILL EXPANSION AS-BUILT BASE GRADES	NO.	REVISION	DATE	
			PROJECT TITLE PERMIT RENEWAL APPLICATION WITH PHASE 2B PERMIT TO CONSTRUCT							

DATE: 3/25/2015
 SCALE: AS SHOWN
 DRAWING NO. **B1R**
 Sheet 1 of 1

Piezometer Abandonment Logs



Well Abandonment Record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986 A

1. WELL CONTRACTOR:

L. Martin Shaver
Well Contractor (Individual) Name

American Environmental Drilling, Inc.
Well Contractor Company Name

STREET ADDRESS 324 Fields Drive, Suite C

Aberdeen NC 28315
City or Town State Zip Code

(910) - 944-3140
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) R-18

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check Applicable Box) Monitoring Residential
 Municipal/Public Industrial/Commercial Agricultural
 Recovery Injection Irrigation
 Other (list use) _____

3. WELL LOCATION:

COUNTY: Pitt QUADRANGLE NAME _____

NEAREST TOWN: Greenville

802 Recycling Lane 27834
(Street/Road Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____
(check appropriate setting)

LATITUDE 0 " DMS OR 35.6173 DD

LONGITUDE 0 " DMS OR 77.1850 DD

Latitude/longitude source: GPS Topographic map
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b well owner information only)

FACILITY ID # (if applicable) _____

NAME OF FACILITY C&D Landfill

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Wayne Bell or Sheila Smith

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

(252) - 752-8274
Area Code - Phone number

5. WELL DETAILS:

a. Total Depth 25 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): 4 ft.
Measuring point is 0 ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 25 ft. 2 in.

b. Casing Removed: 25 ft. 2 in.

7. DISINFECTON: 3.1

(Amount of 65% - 75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement **Sand Cement**

Cement _____ lb. Cement _____ lb.
Water _____ gal. Water _____ gal.

Bentonite

Cement 50 lb.
Type: Slurry Pellets
Water 33 gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grouted Through 1" Tremie pipe

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used.

11. DATE WELL ABANDONED 11/11/2014

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 11/17/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELLOWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C.0113.)

PRINTED NAME OF PERSON CONSTRUCTING THE WELL



Well Abandonment Record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986 A

1. WELL CONTRACTOR:

L. Martin Shaver
 Well Contractor (Individual) Name

American Environmental Drilling, Inc.
 Well Contractor Company Name

STREET ADDRESS 324 Fields Drive, Suite C

Aberdeen NC 28315
 City or Town State Zip Code

(910) - 944-3140
 Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-27

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check Applicable Box) Monitoring Residential
 Municipal/Public Industrial/Commercial Agricultural
 Recovery Injection Irrigation
 Other (list use) _____

3. WELL LOCATION:

COUNTY: Pitt QUADRANGLE NAME _____

NEAREST TOWN: Greenville

802 Recycling Lane 27834
 (Street/Road Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____
 (check appropriate setting)

LATITUDE 0 ' " DMS OR 35.6181 DD

LONGITUDE 0 ' " DMS OR 77.1864 DD

Latitude/longitude source: GPS Topographic map
 (Location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b well owner information only)

FACILITY ID # (if applicable) _____

NAME OF FACILITY C&D Landfill

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
 City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Wayne Bell or Sheila Smith

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
 City or Town State Zip Code

(252) - 752-8274
 Area Code - Phone number

5. WELL DETAILS:

a. Total Depth 20 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): 4 ft.
 Measuring point is 0 ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 20 ft. 2 in.

b. Casing Removed: 20 ft. 2 in.

7. DISINFECTON: 3.0

(Amount of 65% - 75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement	Sand Cement
Cement _____ lb.	Cement _____ lb.
Water _____ gal.	Water _____ gal.

Bentonite

Cement 40 lb.

Type: Slurry Pellets

Water 33 gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grouted Through 1" Tremie pipe

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used.

11. DATE WELL ABANDONED 11/12/2014

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 11/17/2014
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

 SIGNATURE OF PRIVATE WELLOWNER ABANDONING THE WELL DATE
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

 PRINTED NAME OF PERSON CONSTRUCTING THE WELL



Well Abandonment Record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986 A

1. WELL CONTRACTOR:

L. Martin Shaver
Well Contractor (Individual) Name

American Environmental Drilling, Inc.
Well Contractor Company Name

STREET ADDRESS 324 Fields Drive, Suite C

Aberdeen NC 28315
City or Town State Zip Code

(910)- 944-3140
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-16

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check Applicable Box) Monitoring Residential
Municipal/Public Industrial/Commercial Agricultural
Recovery Injection Irrigation
Other (list use) _____

3. WELL LOCATION:

COUNTY: Pitt QUADRANGLE NAME _____

NEAREST TOWN: Greenville

802 Recycling Lane 27834
(Street/Road Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____
(check appropriate setting)

LATITUDE 0 " DMS OR 35.6174 DD

LONGITUDE 0 " DMS OR 77.1866 DD

Latitude/longitude source: GPS Topographic map
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b well owner information only)

FACILITY ID # (if applicable) _____

NAME OF FACILITY C&D Landfill

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Wayne Bell or Sheila Smith

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

(252)- 752-8274
Area Code - Phone number

5. WELL DETAILS:

a. Total Depth 20 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): 4 ft.
Measuring point is 0 ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 20 ft. 2 in.

b. Casing Removed: 20 ft. 2 in.

7. DISINFECTON: 3.0

(Amount of 65% - 75% calcium hypochlorite used)

8. SEALING MATERIAL:

<u>Neat Cement</u>	<u>Sand Cement</u>
Cement _____ lb.	Cement _____ lb.
Water _____ gal.	Water _____ gal.

Bentonite

Cement 50 lb.

Type: Slurry Pellets

Water 33 gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grouted Through 1" Tremie pipe

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used.

11. DATE WELL ABANDONED 11/13/2014

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 11/17/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELLOWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

PRINTED NAME OF PERSON CONSTRUCTING THE WELL



Well Abandonment Record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986 A

1. WELL CONTRACTOR:

L. Martin Shaver
Well Contractor (Individual) Name

American Environmental Drilling, Inc.
Well Contractor Company Name

STREET ADDRESS 324 Fields Drive, Suite C

Aberdeen NC 28315
City or Town State Zip Code

(910)- 944-3140
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-21

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check Applicable Box) Monitoring Residential
Municipal/Public Industrial/Commercial Agricultural
Recovery Injection Irrigation
Other (list use) _____

3. WELL LOCATION:

COUNTY: Pitt QUADRANGLE NAME _____

NEAREST TOWN: Greenville

802 Recycling Lane 27834
(Street/Road Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
 Slope Valley Flat Ridge Other _____
(check appropriate setting)

LATITUDE 0 " DMS OR 35.6176 DD

LONGITUDE 0 " DMS OR 77.1859 DD

Latitude/longitude source: GPS Topographic map
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b well owner information only)

FACILITY ID # (if applicable) _____

NAME OF FACILITY C&D Landfill

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Wayne Bell or Sheila Smith

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

(252)- 752-8274
Area Code - Phone number

5. WELL DETAILS:

a. Total Depth 20 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): 4 ft.
Measuring point is 0 ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 20 ft. 2 in.

b. Casing Removed: 20 ft. 2 in.

7. DISINFECTON: 3.0

(Amount of 65% - 75% calcium hypochlorite used)

8. SEALING MATERIAL:

<u>Neat Cement</u>	<u>Sand Cement</u>
Cement _____ lb.	Cement _____ lb.
Water _____ gal.	Water _____ gal.
<u>Bentonite</u>	
Cement <u>50</u> lb.	
Type: Slurry <input checked="" type="checkbox"/> Pellets <input type="checkbox"/>	
Water <u>33</u> gal.	
<u>Other</u>	
Type material _____	
Amount _____	

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grouted Through 1" Tremie pipe

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used.

11. DATE WELL ABANDONED 11/11/2014

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 11/17/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELLOWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

PRINTED NAME OF PERSON CONSTRUCTING THE WELL



Well Abandonment Record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986 A

1. WELL CONTRACTOR:

L. Martin Shaver
Well Contractor (Individual) Name

American Environmental Drilling, Inc.
Well Contractor Company Name

STREET ADDRESS 324 Fields Drive, Suite C

Aberdeen NC 28315
City or Town State Zip Code

(910)- 944-3140
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) MW-14 

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check Applicable Box) Monitoring Residential
Municipal/Public Industrial/Commercial Agricultural
Recovery Injection Irrigation
Other (list use) _____

3. WELL LOCATION:

COUNTY: Pitt QUADRANGLE NAME _____

NEAREST TOWN: Greenville

802 Recycling Lane 27834
(Street/Road Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____
(check appropriate setting)

LATITUDE 0 " DMS OR 35.6179 DD

LONGITUDE 0 " DMS OR 77.1854 DD

Latitude/longitude source: GPS Topographic map
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b well owner information only)

FACILITY ID # (if applicable) _____

NAME OF FACILITY C&D Landfill

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Wayne Bell or Sheila Smith

STREET ADDRESS 802 Recycling Lane

Greenville NC 27834
City or Town State Zip Code

(252)- 752-8274
Area Code - Phone number

5. WELL DETAILS:

a. Total Depth 40 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): 4 ft.
Measuring point is 0 ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 40 ft. 2 in.

b. Casing Removed: 40 ft. 2 in.

7. DISINFECTON: 5.17

(Amount of 65% - 75% calcium hypochlorite used)

8. SEALING MATERIAL:

<u>Neat Cement</u>	<u>Sand Cement</u>
Cement _____ lb.	Cement _____ lb.
Water _____ gal.	Water _____ gal.

Bentonite

Cement 100 lb

Type: Slurry Pellets

Water 66 gal.

Other

Type material _____

Amount _____

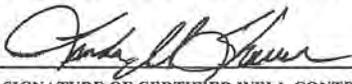
9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grouted Through 1" Tremie pipe

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used.

11. DATE WELL ABANDONED 11/12/2014

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS. AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.


SIGNATURE OF CERTIFIED WELL CONTRACTOR

11/17/2014
DATE

SIGNATURE OF PRIVATE WELLOWNER ABANDONING THE WELL DATE _____
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

PRINTED NAME OF PERSON CONSTRUCTING THE WELL



Well Abandonment Record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986 A

1. WELL CONTRACTOR:

L. Martin Shaver
 Well Contractor (Individual) Name
 American Environmental Drilling, Inc.
 Well Contractor Company Name
 STREET ADDRESS 324 Fields Drive, Suite C
 Aberdeen NC 28315
 City or Town State Zip Code
 (910) - 944-3140
 Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-7
 STATE WELL PERMIT # (if applicable) _____
 COUNTY WELL PERMIT # if applicable _____
 DWQ or OTHER PERMIT # (if applicable) _____
 WELL USE (Check Applicable Box) Monitoring Residential
 Municipal/Public Industrial/Commercial Agricultural
 Recovery Injection Irrigation
 Other (list use) _____

3. WELL LOCATION:

COUNTY: Pitt QUADRANGLE NAME _____
 NEAREST TOWN: Greenville
802 Recycling Lane 27834
 (Street/Road Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
 TOPOGRAPHIC / LAND SETTING:
 Slope Valley Flat Ridge Other _____
 (check appropriate setting)

LATITUDE 0 " DMS OR 35.6186 DD
 LONGITUDE 0 " DMS OR 77.1877 DD

Latitude/longitude source: GPS Topographic map
 (Location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b well owner information only)

FACILITY ID # (if applicable) _____
 NAME OF FACILITY C&D Landfill
 STREET ADDRESS 802 Recycling Lane
 Greenville NC 27834
 City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Wayne Bell or Sheila Smith
 STREET ADDRESS 802 Recycling Lane
 Greenville NC 27834
 City or Town State Zip Code
 (252) - 752-8274
 Area Code - Phone number

5. WELL DETAILS:

a. Total Depth 20 ft. Diameter: 2 in
 b. Water Level (Below Measuring Point): 4 ft.
 Measuring point is 0 ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 20 ft. 2 in.
 b. Casing Removed: 20 ft. 2 in.

7. DISINFECTON: 3.0

(Amount of 65% - 75% calcium hypochlorite used)

8. SEALING MATERIAL:

<u>Neat Cement</u>	<u>Sand Cement</u>
Cement _____ lb.	Cement _____ lb.
Water _____ gal.	Water _____ gal.
<u>Bentonite</u>	
Cement <u>50</u> lb.	
Type: Slurry <input checked="" type="checkbox"/> Pellets <input type="checkbox"/>	
Water <u>33</u> gal.	

Other

Type material _____
 Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grouted Through 1" Tremie pipe

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used.

11. DATE WELL ABANDONED 11/13/2014

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS. AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 11/17/2014
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELLOWNER ABANDONING THE WELL DATE
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

PRINTED NAME OF PERSON CONSTRUCTING THE WELL _____