



July 25, 2013

PN: 03012

Mr. Geoffrey H. Little  
Environmental Engineer  
Solid Waste Section  
NCDENR  
217 W Jones St  
Raleigh, NC 27699

**RE: LCID Permit Renewal Application  
Dunn-Erwin Landfill, Solid Waste Permit 43-02**

C. T. Clayton, Sr., PE, Inc., on behalf of Harnett County, presents the Dunn Erwin LCID Landfill Permit Renewal application. One hard copy and one digital copy of the renewal application is attached.

As you are aware, the Dunn Erwin LCID Landfill was originally permitted as part of Permit 43-02 as also assigned to the C&D landfill also located at the Dunn Erwin Facility. Also being submitted under separate cover is a permit renewal and permit modification request for the C&D landfill as previously discussed with the Section.

Should you need anything that is not contained in this package, please let me know either by email ([tyrus@ctclayton.com](mailto:tyrus@ctclayton.com)) or by phone (910-897-7070) and I will respond promptly.

Sincerely,

  
7-25-2013



C. Tyrus Clayton, Jr., PE  
[tyrus@ctclayton.com](mailto:tyrus@ctclayton.com)

enclosure

cc: file  
Amanda Bader, PE, Harnett County  
Stacey A. Smith, PE, Smith Garner, Inc.

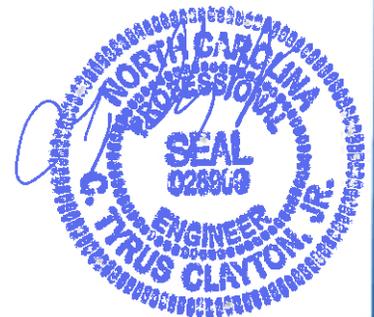
**HARNETT COUNTY, NORTH CAROLINA  
DUNN-ERWIN  
LAND CLEARING & INERT DEBRIS LANDFILL  
PERMIT RENEWAL APPLICATION  
PERMIT# 43-02**

**Prepared for:**

**HARNETT COUNTY  
Department of Solid Waste**



**ISSUED BY  
C.T. CLAYTON, SR., P.E., INC.  
PROJECT 03012  
July, 2013**



7-25-2013

**46 West Washington Street - Coats, North Carolina 27521**  
Phone: 910-897-7070 - Fax: 910-897-6767 - [www.ctclayton.com](http://www.ctclayton.com)  
Offices located in Coats and New Bern, North Carolina  
License No. C-2570

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## **SECTION 1.0 – GENERAL INFORMATION**

**Landfill Name:**

Dunn Erwin Landfill – Permit #43-02

**Landfill Address:**

449 Daniel's Rd.  
Dunn, N.C. 28334

**Operator - Landowner - Permit/Invoice Recipient Contact:**

Harnett County General Services  
Mrs. Amanda Bader, PE, LEED AP, County Engineer  
P.O. Box 940  
103 E Ivey Street (Phys)  
Lillington, NC 27546  
910-893-7536

**Engineer Contact:**

C.T. Clayton, P.E., Inc.  
Mr. Tyrus Clayton, Jr., P.E.  
46 W. Washington Street  
Coats, NC 27521  
910-897-7070

## SECTION 2.0 – PROPERTY INFORMATION & MAPS

### Facility Description / Acreage:

The existing Dunn/Erwin LCID Landfill is located near the scale house on the existing 296 acre County landfill property. The existing landfill is located in northeastern Harnett County just north of NCSR 1725. The closest town to its boundary is the town of Erwin, approximately 2 miles south of the landfill. The figure below is a location map for the Harnett County Dunn Erwin Landfill. The existing permitted LCID landfill occupies approximately 10 acres within the confines of the existing landfill facility boundary. Harnett County began operating the existing LCID landfill in 2004. All County planning and zoning requirements were met and approved in the original permitting process for the facility.

### VICINITY MAP



See Section 7.0 for Deed, Zoning Letter, USGS Topographic Map, & ACOE Wetlands information.

## SECTION 3.0 – OPERATIONS PLAN

The following Operation Plan has been created for the **Dunn Erwin Land Clearing and Inert Debris Landfill** (Dunn Erwin LCID LF) in accordance with NCDENR-SWS Rule 15A NCAC 13B .0566. as operated by Harnett County Department of Solid Waste. This plan discusses the operation of this solid waste management facility:

1. This plan discusses the operation of the following solid waste management activities:
  - a. LCID Landfill
  - b. Landfill mining for processing
  - c. Wood waste processing and reuse
  - d. Reuse and processing of existing LCID landfill debris
  - e. Crushing of block, brick, and concrete debris
2. The approved plans shall be followed. The information contained within the approved plans were prepared to provide facility operating personnel with an understanding of how the Design Engineer assumed the facility would be operated. Minor deviations from the plan outlined herein are expected and anticipated. However, deviations should be reviewed and approved by the Design Engineer.
3. The operations of this facility should be conducted to comply with the rules stated in NCDENR-SWS Rule 15A NCAC 13B .500 and .300.
4. All required records, correspondence, etc. that pertain to the operation and permit compliance of this facility will be stored at the office of Harnett County Department of Solid Waste located at:

Harnett County Department of Solid Waste  
Attn: Amanda Bader, PE, LEED AP, County Engineer  
PO Box 940  
103 E Ivey Street  
Lillington, NC 27546  
(910) 893-7536  
[abader@harnett.org](mailto:abader@harnett.org)

In addition, copies of operational records and pertinent correspondence will be kept at the facility located at:

Dunn Erwin Landfill  
Attn: Randy Smith, Solid Waste Operations Manager  
446 Daniel's Road  
Dunn, NC 28334  
(910) 897-3222  
[rsmith@harnett.org](mailto:rsmith@harnett.org)

Should this location change, the Owner will notify the NCDENR – Solid Waste Section of the change.

5. The Design Engineer for this facility is as follows:

C. T. Clayton, Sr., PE, Inc.  
46 W. Washington Street  
Coats, NC 27521  
Phone: (910) 897-7070  
Fax: (910) 897-6767  
Contact: C. Tyrus Clayton, Jr., PE  
[tyrus@ctclayton.com](mailto:tyrus@ctclayton.com)

6. In the event of an emergency, 911 should be contacted immediately. The 911 operator will dispatch the appropriate emergency personnel based upon the assessment of need.
7. This facility is open Monday, Tuesday, and Thursday thru Saturday from 7:30am to 4:30pm, and on Wednesday from 7:30am to 12:00 noon. The facility is closed on Sundays.
8. Access Control: The Dunn Erwin LCID Landfill will be for the use of the public within Harnett County. The site will be secured with a locked gate at the main entry point at the southern end of Daniels Road. LCID waste will be brought through the lockable gates to the existing scales for screening and direction on disposal. Signs are posted at the entrance to the facility showing the contact name, phone number and the permit number. Signs are also placed throughout the site giving information regarding allowable waste, procedures for dumping and traffic patterns.

The site is surrounded by a combination of chainlink fencing and natural barriers such as ditches and thick vegetation. The fencing and natural barriers should be maintained to discourage unauthorized entry into the site.

Access to the site shall be limited only to operational hours in order to prevent the following:

- Unauthorized and illegal dumping of waste materials
- Trespassing and possible injury resulting from the act
- Vandalism

Facility attendants should be present at all times during operational hours to enforce facility rules and restrict unauthorized access.

9. Access roads are of all-weather construction and will be properly maintained.

10. The Dunn Erwin LCID Landfill will accept only waste as defined in 15A NCAC 13B .0563 (1)(a). No other waste shall be permitted in this area. The list of wastes accepted at the LCID landfill for disposal or processing is as follows:
- a. Stumps
  - b. Trees
  - c. Limbs
  - d. Brush or Yard Trash
  - e. Other naturally occurring vegetative material
  - f. Unpainted concrete
  - g. Unpainted brick
  - h. Unpainted concrete block
  - i. Uncontaminated soil, gravel or rock
  - j. Asphalt
  - k. Untreated, unpainted wood
    - i. Note that pallets, dimensional lumber, or any wood material that is considered to be construction and demolition debris (*as defined by G.S. 130A-290(a)(44a)*) may not be disposed of within the LCID landfill. This type debris will be directed for disposal at the onsite Construction and Demolition Debris Landfill or at a storage area for processing or grinding.
  - l. Other wastes as approved by the Solid Waste Section of the Division of Waste Management
11. The onsite scale attendant will visually check incoming loads for unauthorized waste and redirect the hauler as appropriate. Hazardous waste and liquids are not accepted. Other unacceptable waste such as waste tires, appliances, construction and demolition debris, and household garbage are acceptable at other locations within the facility. Any unacceptable material found on the landfill will be removed, appropriately stored as necessary, and delivered to an approved/permitted facility or landfill for that type of waste. Standard procedures for waste handling and hauling, as dictated by state and federal laws, will be followed. Unacceptable wastes will be removed from the facility on a daily basis.
- a. Attached is a Waste Screening Form that will be utilized by facility operational staff.
12. The following equipment will be utilized for operation of the LCID Landfill. This equipment is either currently owned by the County or will be leased or contracted for periodic operations.
- a. Excavator - *for general soil or waste excavation*
  - b. Bulldozer – *for waste placement, grading, and compaction*
  - c. Sheepsfoot Compactor – *for waste grading and compaction*
  - d. Dump Truck – *for material hauling*
  - e. Pan –*for soil excavation and placement*
  - f. Grinder/Screening Equipment – *for stored material or existing waste processing (contracted for periodic operation onsite)*

13. Waste will not be disposed of in standing water.
14. The LCID will not permit "hot" loads or waste loads smoldering or on fire. In addition, no open burning is allowed at the landfill.

The Harnett County Dunn Erwin Landfill is located roughly equal distance from the limits of the City of Dunn and the Towns of Coats and Erwin, North Carolina and fire protection is provided by them. For major fires, the primary fire control policy for the Facility consists of notifying 911, and waiting for their response. A secondary fire control policy consists of utilizing onsite equipment and soils to contain and control small fires if feasible, until the Fire Department can arrive.

If a burning load arrives on the scales, the load is directed to the Transfer Station where the load is dumped outside the Transfer Station on concrete or an area of bare soil away from flammable materials once the general public has been evacuated from the area. The fire is to be extinguished by smothering with soil. The landfill facility has an ample supply of stockpiled borrow soils within a short distance of all waste disposal areas.

In addition, the existing 2" wash down hydrant located adjacent to the Transfer Station can be used to extinguish the fire. No known hot loads are sent to the Tipping Floor. If a hot load were to be dumped within the building it will be pushed out to the concrete building apron with the Front End Loader and extinguished with the 2" hydrant. A Fire Notification Form would then be filled out and issued to the SWS in either case.

A fire hydrant with a pumper nozzle is located along the landfill entrance road. In addition, Underwriters Laboratory (UL) fire extinguishers are located on the tipping floor, the transfer trailer loading area, in the office, and on equipment operating on the Landfill. Facility staffs are trained on how to use fire extinguishers and the hose bibs. Buildings receiving waste are metal construction with concrete floors.

In accordance with Rule 15A NCAC 13B.0505(10)(c), fires that occur at the Dunn Erwin Landfill require verbal notice to the Division of Solid Waste within 24 hours and written notification shall be submitted within 15 days. Written notification will consist of the DWM "Solid Waste Management Facility Fire Occurrence Notification" form (form attached). Verbal and written notification shall be submitted to the Raleigh Regional Waste Management Specialist:

Department of Environment and Natural Resources  
Division of Waste Management, Solid Waste Division  
1646 Mail Service Center  
Raleigh, North Carolina 27699-1646  
(919) 707-8200

15. In order to maintain an orderly work area and to minimize erosion, the working face of the LCID will be kept as small as possible with a ½ acre maximum size. Waste will be compacted as densely as practical. Waste will be deposited in the upper areas first until final grades are reached, thus ensuring that surface runoff is flowing away from the working face.
- a. Periodic Cover: On a weekly basis, or sooner as needed to maintain a ½ acre working face, a minimum of a 6-inch layer of soil or other material as approved by DWM will be placed over the exposed waste. This cover is intended to control vectors, fire, odors, and blowing debris.
  - b. Intermediate Cover: In areas that have not received waste in the previous 30 days or the exposed waste reaches one acre in size, but are below the final grades of the LCID, shall be covered with a 12-inch layer of soil material. This cover should be graded properly to divert precipitation to the onsite storm water system and seeded/mulched immediately.
  - c. Final Cover: On or before 120 calendar days, or 30 working days after completion of any phase of disposal operations, or upon revocation of a permit, the disposal area shall be covered with a minimum of one foot of suitable soil cover sloped to allow surface water runoff in a controlled manner. The soil cover shall be fertilized, limed and seeded. Erosion control matting shall be applied to assist in achieving stabilization. Further actions in order to correct any condition which is or may become injurious to the public health or a nuisance to the community may be required by DENR.
16. The site will be graded using a bulldozer to ensure that proper drainage of the area is maintained, thus diverting water away from the working face and eliminating any ponding of water on top of the waste. Grades shall be kept to a slope steep enough (suggested minimum of 5%) to encourage quick runoff and to minimize infiltration.

Leachate seeps can occur due to a variety of circumstances. The goal in dealing with leachate seeps is to prevent seepage from leaving the limits of waste disposal areas and to minimize the potential for reoccurrence. If evidence of leachate seeps is observed, the Operator will take the following actions. Depending on the circumstances, various combinations of actions may be appropriate.

- a. If leachate is observed outside of the limits of waste disposal areas, notify DENR.
- b. Contain the flow of leachate using soil berms and/or excavation.
- c. Excavate the area of seepage to attempt to allow flow into the underlying layers (i.e. break-up barriers that may be causing the seep.).
- d. Run-on Control: Surface water run-on, when identified will be re-routed through the use of diversion berms and/or diversion ditches to prevent infiltration into the debris facility.
- e. Surface Grading: Filling operations shall include grading with positive slopes (>5%) to promote runoff over the debris. At the end of each day, any low areas should be filled with debris and/or soil to prevent potential impounding of surface water. Furthermore, in the case of impending storms, periodic cover should be advanced to provide a "soil seal" to further promote runoff and minimize infiltration.

- f. Facility Inspections: On a periodic basis, site personnel should conduct “walk-over” inspections to identify areas of settlement which may create additional areas of “ponding”. Any areas identified should be re-filled with debris and/or soil to further promote runoff. In the event seeps are identified on the slopes or near the base of the facility, the area above the seeps shall be inspected for signs of inadequate cover or settlement and re-grading by placement of additional debris and/or soil
  - g. Leachate Diversion Trenches: In the event leachate seeps are identified along the outer slopes of the landfill or at the base, trenches are diverted back into the limits of waste by excavating trenches at and around the location of the seeps. These trenches are filled with a granular material to encourage the leachate to re-enter the waste containment area. The trench and seep area are then covered with an impermeable type soil material (clay, silt, or clay mix) and compacted.
  - h. For contained leachate that will not flow into underlying layers, a pump may be required to route the leachate to an existing leachate collection area (pump station) or to a tanker truck.
  - i. The use of soil (particularly clay) to plug the seepage may also be successful in the case where flows are minor.
  - j. Repair landfill cover as necessary.
17. Adequate erosion and sediment control measures, structures, and devices shall be employed and maintained to prevent silt from leaving the site and to prevent excessive erosion. The facility Erosion and Sediment Control Plan(s) as approved by NCDENR Land Quality Section shall be followed at all times.
18. The concentration of explosive gases, if generated by the facility, will not exceed the following:
- a. 25% of the lower explosive limit (LEL) for the gases in facility structures
  - b. The LEL for the gases at the property boundary
19. Open burning will not be conducted at the landfill. Should an accidental fire start at the landfill, landfill equipment will be summoned to extinguish the blaze. If the fire is beyond the capability of existing equipment, the local fire department will be summoned.
20. All incoming LCID waste shall go directly to the Landfill or to a recycle stockpile until it can be processed for sale or reuse. There shall be no excessive stockpile of unprocessed material within the processing area. Stockpiled unprocessed Inert Debris and overage is to be covered with 6” of soil at least every 30 days.
21. Recovery (mining) of the landfill will be considered another alternative in process to recycle both woody materials and inert debris. All material from the recovery (mining) of the site is assumed at 50 cubic yards per day (~260 days per year) of wastes for processing. Thus, approximately 13,000 cubic yards per year (maximum) of wastes are anticipated for processing at the proposed facility. Site personnel will perform the recovery operations on a limited basis to supplement the processing operations as

described in Item 23 below. Generally, the process includes excavation, sorting of the material into small and large fraction materials for grinding and screening further described below.

22. The Dunn Erwin LCID facility will engage in material processing from time to time in order to divert and reduce the amount of waste disposed of in the LCID landfill. The operations of the material processing will be as follows:
- a. Material determined to be acceptable for processing and diversion from the working face of the landfill or existing waste removed from the landfill shall be stored within the permitted limits of waste for the facility. This will be on the base grades of the cell or on areas of the landfill that have received final or intermediate cover.
  - b. Materials acceptable for grinding are as follows:
    - i. Woody material
    - ii. Untreated, unpainted, non-engineered wood
    - iii. Wood pallets
  - c. Materials acceptable for crushing/screening:
    - i. Unpainted concrete block
    - ii. Unpainted brick
    - iii. Unpainted and untreated concrete
    - iv. Uncontaminated soil, gravel or rock
  - d. All grinding, crushing and/or screening activities will be conducted within the approved landfill footprint. The grinding, crushing, screening and recovery operations will be conducted as needed, on a periodic basis, to facilitate landfill recovery and incoming waste operations by contracted equipment and operators. The contractor selected will be responsible for maintaining an adequate safety plan and procedures per current standards and the safety and maintenance literature of the equipment manufacturer.
  - e. Finished products anticipated to be produced from this process are as follows:
    - i. Mulch
    - ii. Amended Soil
    - iii. Crushed aggregate
  - f. Final products are to be used onsite at the Dunn Erwin Facility for operational uses such as, but not limited to:
    - i. Road bed material
    - ii. Drainage media
    - iii. Topsoil amendment for seeding and stabilization
    - iv. Daily/Periodic cover of waste areas
    - v. Other uses as permitted by DWM
  - g. Processed materials will be stockpiled for use within the facility boundary in designated areas. A minimum buffer between stockpiles and other operations will be 20 feet. For safety and fire protection, stockpiles will be monitored for size and temperatures of less than 110 degrees Fahrenheit.
  - h. If the amount of stockpiled material is determined to exceed the quantity required for onsite operations, the County may choose to market the material to the County residents and businesses. If so, the rate at which the material is sold will be determined by the County Board of Commissioners and a policy on material

sales established. The Landfill will keep weight records of all materials sold and leaving the site.

23. Periodically, the Operator will evaluate the overall landfill operations. At a minimum of twice yearly, an evaluation of the general site conditions will look for problems with routine operations. A site inspection checklist is attached at the end of this document. Any deficiencies can be incorporated into a "punch list" for further action. After evaluation, any deficiencies noted should be corrected and records kept of the correction.
24. Markers shall be placed to clearly delineate the edge-of-waste around the perimeter of every active, inactive and closed disposal area. All markers must be maintained throughout the life of the landfill and throughout the required period of post-closure care. In addition, facility staff should be aware of and be able to show Division staff the permitted boundary of the facility.
25. Closure Activities: On or before 120 calendar days after completion of any phase of disposal operations, or upon revocation of a permit, the disposal area shall be covered with a minimum of 12-inches of suitable soil cover sloped to allow surface water runoff in a controlled manner. The soil cover shall be fertilized, limed and seeded. Erosion control matting shall be applied to assist in achieving stabilization. Further actions in order to correct any condition which is or may become injurious to the public health or a nuisance to the community may be required by DENR. (See item 13.c above)

## **SECTION 4.0 – LCID RENEWAL DRAWINGS**

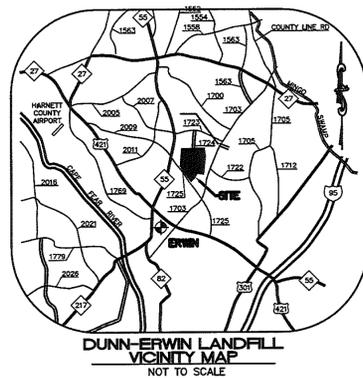
Attached and following are the renewal drawings for the LCID Landfill (6 Sheets). As the Solid Waste Section is aware based on recent correspondence from Smith Gardner, Inc. dated July 22, 2013, the landfill has been dealing with leachate seeps due to the extensive amount of rain received from June 7-8, 2013. As a result of this event, the County has adopted adjustments to the daily operations of the LCID Landfill. In addition the attached drawings show a steeper slope and final cover to help reduce the possibility of stormwater intrusion into the waste.

# DUNN-ERWIN LCID LANDFILL HARNETT COUNTY

PERMIT RENEWAL PLAN  
PERMIT NO. 43-02

JULY 2013

PERMIT DOCUMENT- FOR REVIEW ONLY - NOT FOR CONSTRUCTION



### PERMIT RENEWAL PLAN SHEET INDEX

COVER SHEET	
EXISTING CONDITIONS	.1 OF 5
FINAL FILL PLAN	.2 OF 5
CELL PROFILES	.3 OF 5
DETAILS	.4 OF 5
DETAILS	.5 OF 5

DESIGNED CTC Jr.	DATE: JULY 2013
DRAWN SBK	CTC PROJ # 03-012
CHECKED CTC JR.	DWG FILE: 03012_MAS130509.dwg
PROJ. ENG. CTC JR.	

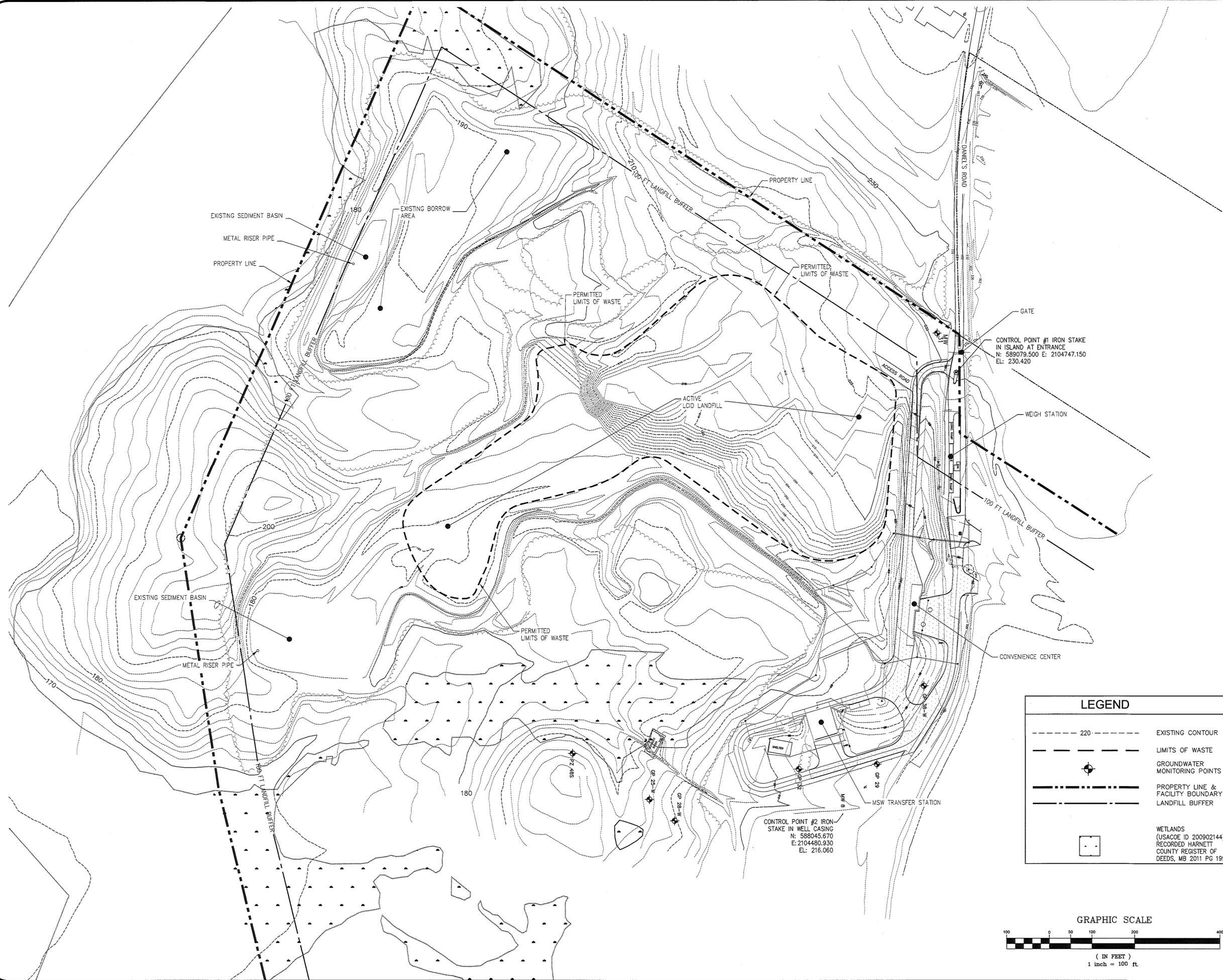


*Clayton, Sr.* P.E.  
7/25/2013 DATE

**Clayton, Sr., P.E., Inc.**  
CIVIL & ENVIRONMENTAL ENGINEERING  
46 WEST WASHINGTON STREET  
COATS, NORTH CAROLINA 27521  
PHONE: 910-897-7070 FAX: 910-897-6767  
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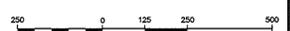
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FOR REVIEW ONLY  
NOT RELEASED FOR CONSTRUCTION

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**LEGEND**

PERMIT DOCUMENT  
FOR REVIEW ONLY



No.	Revision/Issue	Date

Professional Engineer Seal for Travis Clayton, No. 028819, State of North Carolina. Signature of Travis Clayton and date 7/25/2013.

**Clayton, Sr., P.E., Inc.**  
CIVIL & ENVIRONMENTAL ENGINEERING  
48 WEST WASHINGTON STREET  
COASTS, NORTH CAROLINA 27521  
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**DUNN ERWIN LCID LANDFILL  
PERMIT RENEWAL PLAN**

HARNETT COUNTY, NC

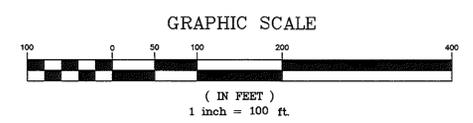
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Designed By:	CTC Jr.	Drawn By:	SBK
Checked By:	CTC Jr.	Proj. Eng.:	SBK

Sheet Title: EXISTING CONDITIONS

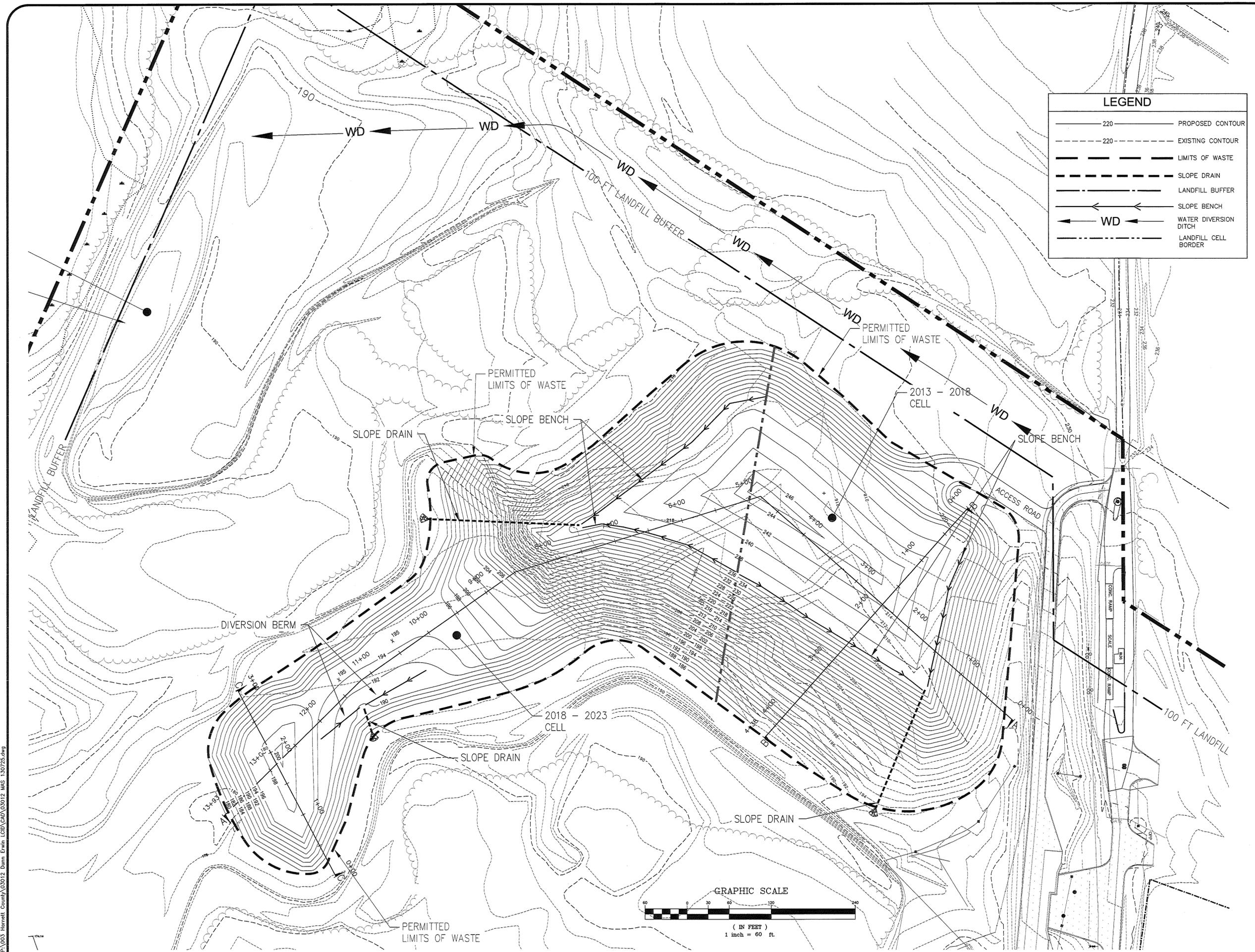
Date:	25 JULY 2013	Sheet:	1
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**LEGEND**

- 220 --- EXISTING CONTOUR
- LIMITS OF WASTE
- ⊕ GROUNDWATER MONITORING POINTS
- PROPERTY LINE & FACILITY BOUNDARY
- LANDFILL BUFFER
- WETLANDS (USACE ID 200902144)
- RECORDED HARNETT COUNTY REGISTER OF DEEDS, MB 2011 PG 199



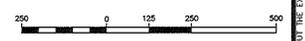
THIS DRAWING IS THE PROPERTY OF G. T. CLAYTON, Sr., P. E., Inc. NEITHER THIS DRAWING NOR THE INFORMATION SHOWN HEREON IS TO BE USED ON ANY OTHER PROJECT AND MUST BE RETURNED TO G. T. CLAYTON, Sr., P. E., Inc. COPYRIGHT 2009 PENDING



LEGEND	
— 220 —	PROPOSED CONTOUR
- - - 220 - - -	EXISTING CONTOUR
— — — — —	LIMITS OF WASTE
- - - - -	SLOPE DRAIN
— — — — —	LANDFILL BUFFER
← ← ← ← ←	SLOPE BENCH
← ← ← ← ←	WD
← ← ← ← ←	WATER DIVERSION DITCH
- - - - -	LANDFILL CELL BORDER

**LEGEND**

**PERMIT DOCUMENT**  
FOR REVIEW ONLY



No.	Revision/Issue	Date



*Travis Clayton*  
Signature  
7/25/2013  
Date

**Clayton, Sr., P.E., Inc.**  
CIVIL & ENVIRONMENTAL ENGINEERING  
46 WEST WASHINGTON STREET  
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**DUNN ERWIN LCID LANDFILL  
PERMIT RENEWAL PLAN**

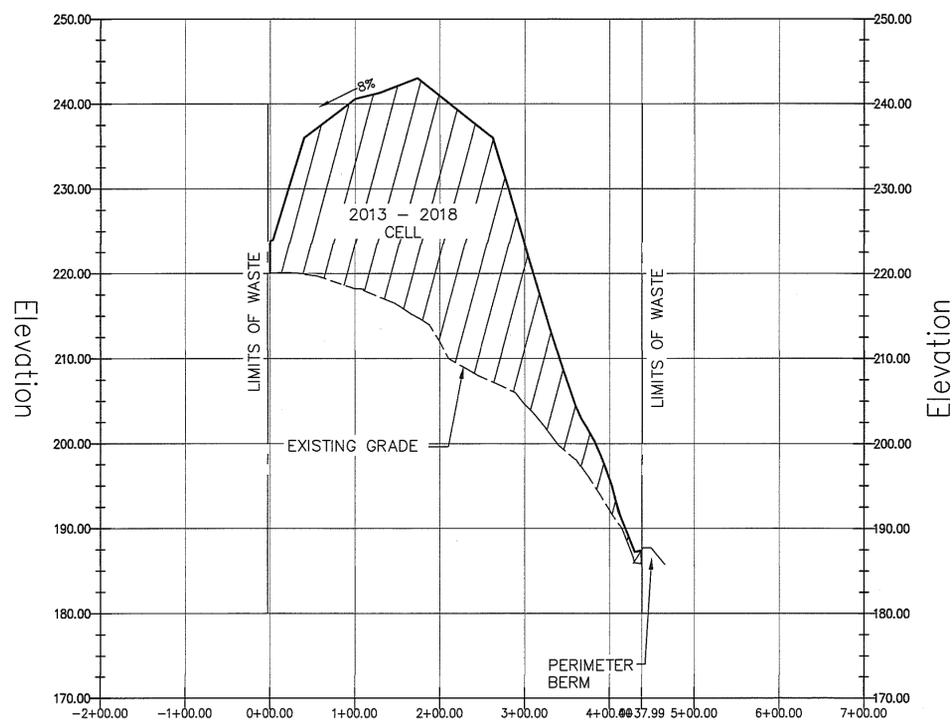
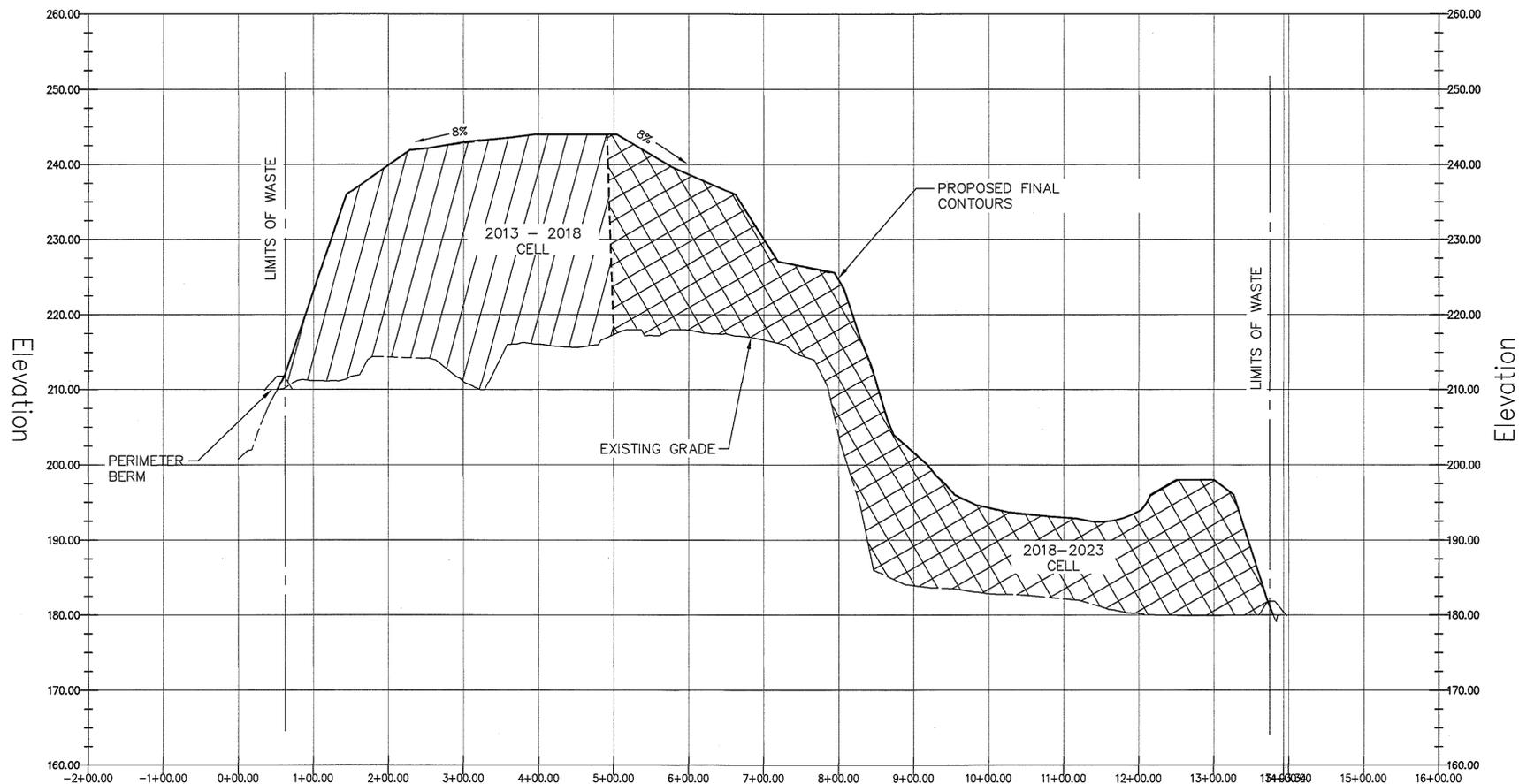
HARNETT COUNTY, NC	
Project No: 3007A	File Name: 3007A DELF STORMWATER.DWG
Designed By: CTC Jr.	Drawn By: SBK
Checked By: CTC Jr.	Proj. Eng.: SBK

GRADING PLAN	
Date: 25 JULY 2013	Sheet
Scale: 1" = 250'	2

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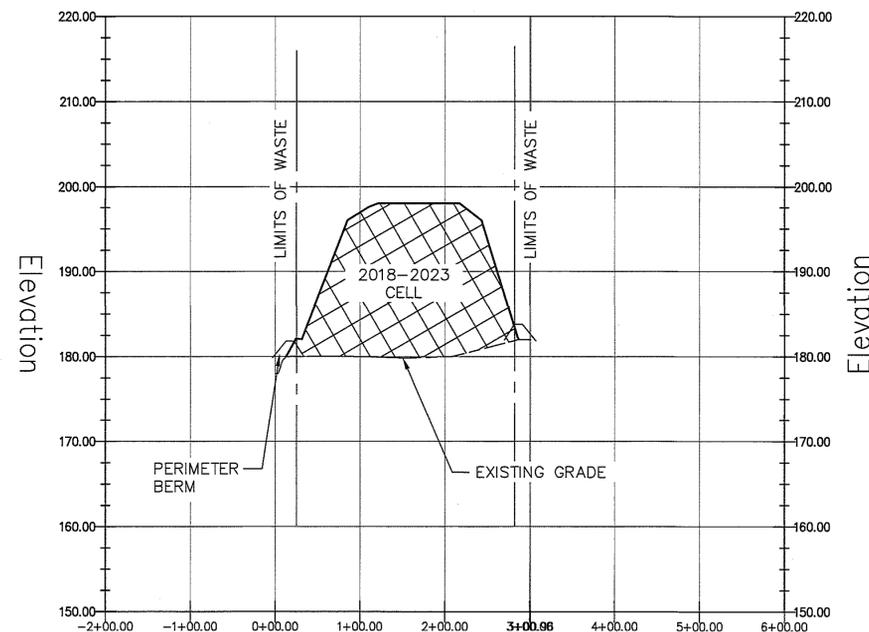
THIS DRAWING IS THE PROPERTY OF CLAYTON, SR., P.E., INC. NO PART OF THIS DRAWING OR ANY INFORMATION HEREON IS TO BE USED ON ANY OTHER PROJECT AND MUST BE RETURNED TO CLAYTON, SR., P.E., INC. IMMEDIATELY UPON COMPLETION OF THE PROJECT FOR WHICH THIS DRAWING WAS PREPARED.

**LEGEND**



VOLUME CALCULATIONS	
AVAILABLE AIR SPACE (CU. YRDS.)	~178,200 CU. YDS.
FINAL COVER SURFACE AREA (SQ. FT.)	403,427 SQ. FT. (~30,000 CU. YDS.)
PEAK ELEVATION	244 FT.

CALCULATIONS AND GRADING BASED APRIL 2013 SURVEY



PERMIT DOCUMENT  
FOR REVIEW ONLY



NORTH



No.	Revision/Issue	Date



*C. T. Clayton*  
 Date: 7/25/2013



**DUNN ERWIN LCID LANDFILL  
PERMIT RENEWAL PLAN**

HARNETT COUNTY, NC

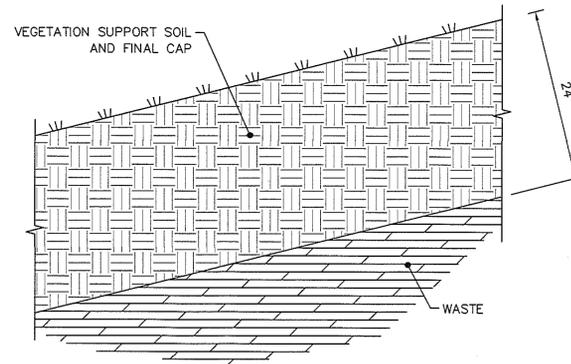
Project No: 3007A	File Name: 3007A DRLF STORMWATER.DWG
Designed By: CTC Jr.	Drawn By: SBK
Checked By: CTC Jr.	Proj. Eng.: SBK

**PROFILES**

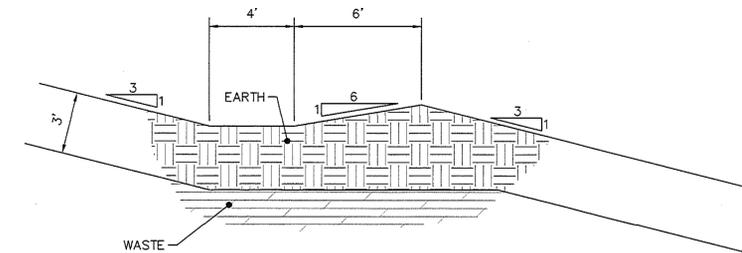
Date: 25 JULY 2013	Sheet
Scale: AS SHOWN	3



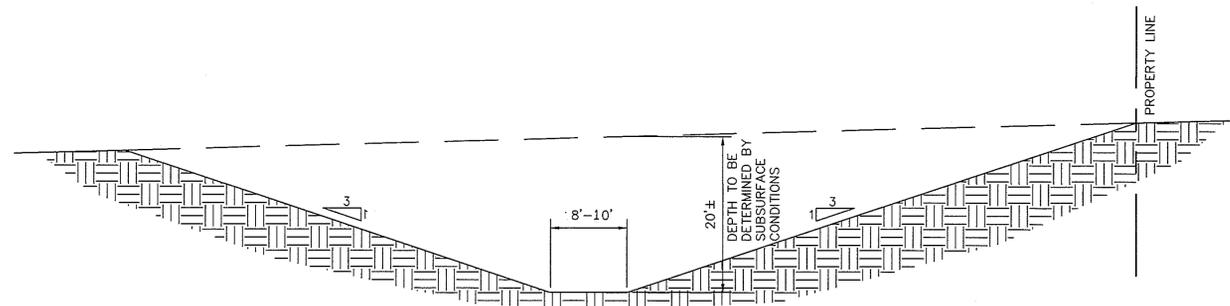
**LEGEND**



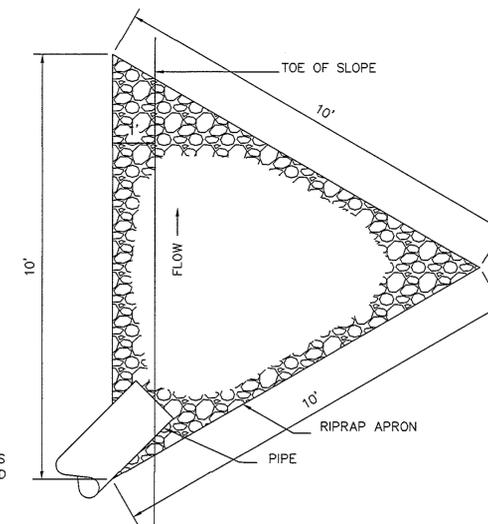
**TYPICAL CAP DETAIL**  
NOT TO SCALE



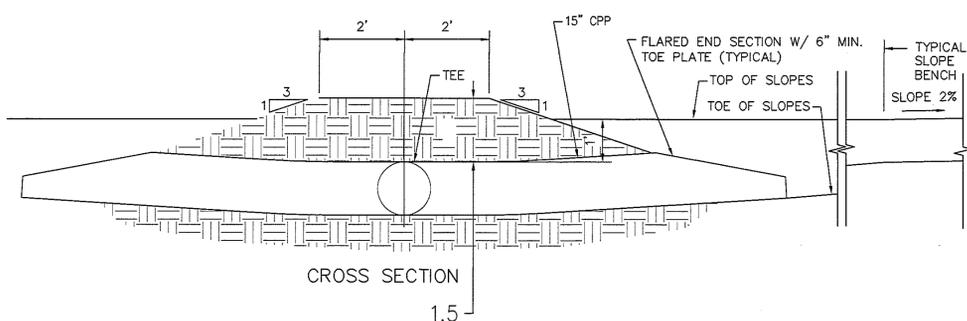
**TYPICAL SLOPE BENCH DETAIL**  
SCALE: 1/4" = 1'-0"



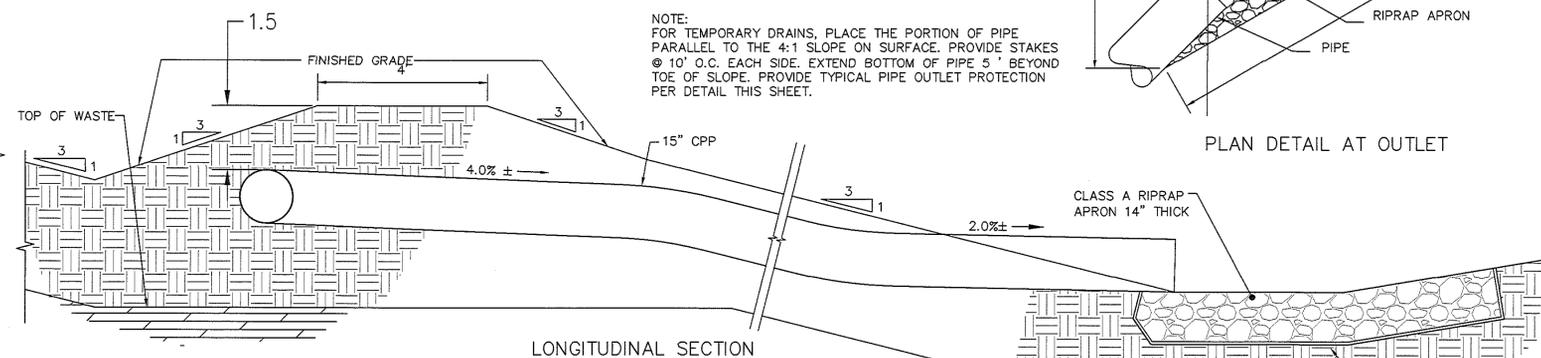
**WATER DIVERSION DETAIL**  
NOT TO SCALE



PLAN DETAIL AT OUTLET



CROSS SECTION  
1.5



LONGITUDINAL SECTION

**SPECIFICATIONS**

A COMMON FAILURE OF SLOPE DRAINS IS CAUSED BY WATER SATURATING THE SOIL AND SEEPING ALONG THE PIPE. THIS CREATES VOIDS FROM CONSOLIDATION AND PIPING AND CAUSES WASHOUTS. PROPER BACKFILLING AROUND AND UNDER THE PIPE "HAUNCHES" WITH STABLE SOIL MATERIAL AND HAND COMPACTING IN 6-INCH LIFTS TO ACHIEVE FIRM CONTACT BETWEEN THE PIPE AND THE SOIL AT ALL POINTS WILL ELIMINATE THIS TYPE OF FAILURE.

1. PLACE SLOPE DRAINS ON UNDISTURBED SOIL OR WELL COMPACTED FILL AT LOCATIONS AND ELEVATIONS SHOWN ON THE PLAN.
2. SLIGHTLY SLOPE THE SECTION OF PIPE UNDER THE DIKE TOWARD ITS OUTLET.
3. HAND TAMP THE SOIL UNDER AND AROUND THE ENTRANCE SECTION IN LIFTS NOT TO EXCEED 6 INCHES.
4. ENSURE THAT ALL SLOPE DRAIN CONNECTIONS ARE WATERTIGHT.

5. ENSURE THAT ALL FILL MATERIAL IS WELL COMPACTED.
6. ADEQUATELY PROTECT THE DRAIN OUTLET FROM EROSION.
7. MAKE THE SETTLED, COMPACTED DIKE RIDGE NO LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE AT EVERY POINT.
8. IMMEDIATELY STABILIZE ALL DISTURBED AREAS FOLLOWING CONSTRUCTION.

**MAINTENANCE**

INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL, AND PROMPTLY MAKE NECESSARY REPAIRS. WHEN THE PROTECTED AREA HAVE BEEN PERMANENTLY STABILIZED, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.

**SLOPE DRAIN DETAIL**  
SCALE: 1/2" = 1'-0"

PERMIT DOCUMENT  
FOR REVIEW ONLY



No.	Revision/Issue	Date



Signature: *C.T. Clayton, Jr.*  
Date: 7/25/2013

**Clayton, Sr., P.E., Inc.**  
CIVIL & ENVIRONMENTAL ENGINEERING  
46 WEST WASHINGTON STREET  
COATS, NORTH CAROLINA 27621  
PHONE: 919-897-7070 FAX: 919-897-6767  
License No. C-2570 www.ctclayton.com

**DUNN ERWIN LCID LANDFILL PERMIT RENEWAL PLAN**

Project No: 03012		File Name: 03012MAS130509.DWG	
Designed By: CTC Jr.	Drawn By: SBK	Checked By: CTC Jr.	Proj. Eng.: SBK

Date: 25 JULY 2013		Sheet: 5
Scale: NOT TO SCALE		

P:\003\_Hornett\_County\03012\_Dunn\_Erwin\_LCID\CAD\03012\_MAS\_130725.dwg

THIS DRAWING IS THE PROPERTY OF C. T. CLAYTON, SR., P. E., INC. NEITHER THIS DRAWING NOR THE INFORMATION SHOWN HEREON IS TO BE USED ON ANY OTHER PROJECT AND MUST BE RETURNED TO C. T. CLAYTON, SR., P. E., INC. COPYRIGHT 2009 FOUNDED

## **SECTION 5.0 – AIRSPACE ANALYSIS**

The existing conditions of the LCID landfill were surveyed in April 2013 to facilitate an analysis of the available airspace and the approximate life left in the LCID Landfill. The analysis is presented on the following page.

The analysis anticipates that approximately 11 years of available airspace is left in the Dunn Erwin LCID Landfill. This estimate was generated based on an assumed average tonnage of 6,000 tons of LCID waste being received per year at the facility. It also assumes no reduction in waste due to mining, settlement, grinding or other methods of waste reduction or diversion. Any of these activities will ultimately extend the life of the LCID landfill.

However, if natural occurrences such as tornadoes or hurricanes that generate waste that is disposed of in the LCID landfill strike the area, a significant temporary increase in tonnage will be experienced.

Overall, the estimated life of 11 years should be a sufficient estimate for planning purposes at this time.

Expected Life of Existing/Active LCID LF

Assume

- 1. 850 lbs of C&D waste = 1 yd<sup>3</sup> of landfilled waste under normal compaction
- 2. Weekly Cover Soil Ratio 8:1 for every 8 cyd of LCID, 1 cyd of cover soil  
8:1 = .125
- 3. Average waste intake for for life of the cell = 6,000 tons/year \*

Design Info

Total Space = 208,100 cy  
2 ft Final Cover = 29,883 cy  
Airspace Available = 178,217 cy

Calculation of Life Expectancy of Existing/Active C&D LF

1) Total waste received per year = 6,000 tons  
6,000 tons = 12,000,000 lbs  
12,000,000 lbs = 14,118 cy of C&D waste  
14,118 x .125 = 1765 cyds of weekly cover

**Total Volume Used Per Year = 15,882 cy/year**

2) Time left before design grade (minus 3 ft final cover) is met

Airspace Available = 178,217 cyds  
Time Left = 178,217 cyds / 15,882 cyds/year

**Time Left = 11.22 years** 134.7 months

**Please Note: This does not account for any waste diversion, processing or mining of LCID material**

\* Estimated from historical County scale records

## **SECTION 6.0 – SEDIMENTATION & EROSION CONTROL PLAN**

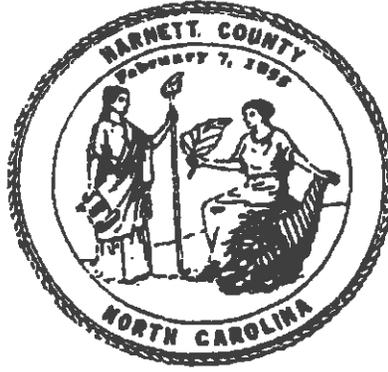
The Dunn Erwin Landfill operates under multiple E&S permits for different activities within the facility. This application is for a permit renewal. We do not propose to expand the footprint of the LCID Landfill and thus a revision to the existing E&S Control Plans are not anticipated. Copy of the E&S Control Plan approval letter for the LCID is found in Section 7.0.

## **SECTION 7.0 – APPENDIX DOCUMENTS**

Legal Description of Property  
USGS Topographic Quadrangle Map  
Zoning Letter  
FEMA Flood Map  
ACOE Wetlands Documentation  
Erosion & Sedimentation Control Plan Approval Letter  
Fire Occurrence Notification Form  
Waste Screening Form  
Routine Inspection Forms

# **Legal Description of Property**

**Deed information for Parcels 07 15080054, 07 1508 0053, and 07 1508 0053 01**



KIMBERLY S. HARGROVE  
REGISTER OF DEEDS, HARNETT  
305 W CORNELIUS HARNETT BLVD  
SUITE 200  
LILLINGTON, NC 27546

**PLEASE RETAIN YELLOW TRAILER PAGE**

It is part of recorded document, and must be submitted with original for re-recording  
and/or cancellation.

\*\*\*\*\*

Filed For Registration: 03/03/2005 09:03:33 AM

Book: RE 2049 Page: 17B-181

Document No.: 2005003566

DEED 4 PGS \$20.00

NC REAL ESTATE EXCISE TAX: \$141.00

Recorder: ELMIRA MCLEAN

\*\*\*\*\*

State of North Carolina, County of Harnett

The foregoing certificate of LINDA J. MORGAN Notary is certified to be correct. This 3 RD of March 2005

KIMBERLY S. HARGROVE , REGISTER OF DEEDS

By: Elmira McLean  
Deputy/Assistant Register of Deeds

\*\*\*\*\*



2005003566



FOR REGISTRATION REGISTER OF DEEDS  
 STREETLY S. HERRING  
 HARNETT COUNTY, NC  
 2005 MAR 03 09:03:33 AM  
 BK:2049 PG:178-181 FEE:\$20.00  
 NC REV STAMP:\$141.00  
 INSTRUMENT # 2005003566

07-1508 0054  
 07-1508 0053  
 3/3/05 BY SKG

**NORTH CAROLINA GENERAL WARRANTY DEED**

Excise Tax \$141.00

Parcel Identifier No.: Tract 1: 07 1508 0054; Tract 2: 07 1508 0053

Verified by \_\_\_\_\_ County on the \_\_\_\_\_ day of \_\_\_\_\_, 2004  
 by \_\_\_\_\_

Mail after recording to Dwight W. Snow, Attorney at Law, P.O. Box 397, Dunn NC 28335  
 This instrument was prepared by Dwight W. Snow, Attorney at Law, P.O. Box 397, Dunn NC 28335

Brief Description for the index

Two Tracts - Thessie Daniel Farm

THIS DEED made this the 3rd day of March, 2005 by and between

GRANTOR	GRANTEE
JEANETTE DANIEL JOHNSON and husband, P.J. JOHNSON 317 Melvin Daniel Lane Dunn, N.C. 28334	COUNTY OF HARNETT P.O. Box 759 102 E. Front St. Lillington, N.C. 27546

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in Grove Township, Harnett County, North Carolina and more particularly described as follows:

SEE ATTACHED EXHIBIT "A"

The property hereinabove described was acquired by Grantor by instrument recorded in Book 759, Page 236, Harnett County Registry and Harnett County Estate File No. 99 E 536.

A map showing the above described property is recorded in Map No. \_\_\_\_\_ County Registry.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

- a. General utility easements for phone and power purposes.
- b. Roadways and rights-of-way of record and those visible by inspection of the premises.
- c. Such facts as an environmental study on the subject property by an environmental engineer would reveal.
- d. Such facts that would be revealed by a recent survey on the subject tract by a registered land surveyor.
- e. 2006 Harnett County ad valorem taxes which are not yet due and payable and which will be the responsibility of the Grantee to pay when they become due.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

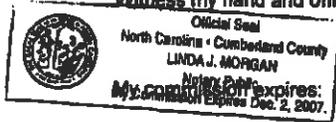
(Corporate Name)

By: \_\_\_\_\_ President

*Jeanette Daniel Johnson* (SEAL)  
 JEANETTE DANIEL JOHNSON  
*P.J. Johnson* (SEAL)  
 P.J. JOHNSON  
 \_\_\_\_\_ (SEAL)  
 \_\_\_\_\_ (SEAL)

**SEAL-STAMP**

NORTH CAROLINA, Cumberland County.  
I, LINDA J. MORGAN, a Notary Public of the County and State aforesaid, certify that JEANETTE DANIEL JOHNSON and husband, P.J. JOHNSON, Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 3<sup>rd</sup> day of March, 2005.



*Linda J. Morgan*  
 \_\_\_\_\_  
 Notary Public

**SEAL-STAMP**

NORTH CAROLINA, \_\_\_\_\_ County.  
I, a Notary Public of the County and State aforesaid, certify that \_\_\_\_\_ personally came before me this day and acknowledged that he/she is \_\_\_\_\_ of \_\_\_\_\_ a North Carolina corporation, and that he/she, as \_\_\_\_\_, being authorized to do so, executed the foregoing on behalf of the corporation. Witness my hand and official stamp or seal, this \_\_\_\_ day of \_\_\_\_\_, 2004.

\_\_\_\_\_  
 Notary Public

My commission expires:

EXHIBIT "A"

TRACT 1:

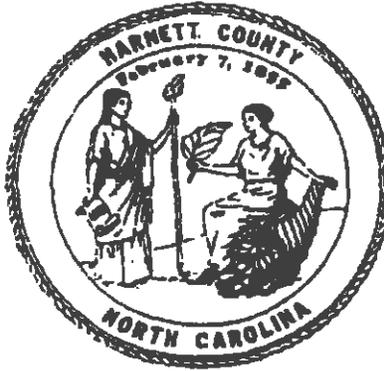
BEGINNING at an iron stake in the edge of a small marsh area which said Beginning Point is also the northernmost point of the Thessie D. Daniel farm property as shown on that map recorded in Plat Cabinet 2, Slide 399, Harnett County Registry; thence from said Beginning Point South 52 degrees 48 minutes 36 seconds East 1513.41 feet to a found iron pipe in the centerline of NCSR 1721; thence running with the centerline of NCSR 1721 South 03 degrees 47 minutes 31 seconds West 232.84 feet to a set rebar; thence South 53 degrees 19 minutes 30 seconds East 51.91 feet to a point; thence North 71 degrees 16 minutes 16 seconds West 1657.83 feet to an iron stake; thence North 27 degrees 38 minutes 19 seconds East 729.00 feet to the Point of Beginning containing 16.97 acres more or less designated as Tract 1 on that map dated March 25, 2004 by Andrew H. Joyner, PLS which is recorded in Map No. 2004-251 Harnett County Registry.

The above described tract is the same property conveyed to Jeanette D. Johnson in that deed recorded in Book 513, Page 279 less that 1.43 acre portion designated as Tract 3 on that map recorded as Map No. 2004-251 Harnett County Registry which was conveyed to the County of Harnett in that deed recorded in Book 1922, Page 633 Harnett County Registry.

TRACT 2:

Being all that certain tract or parcel of land containing 47.55 acres, more or less, and situate on both sides of Secondary Road No. 1724 (said Secondary Road ends or terminates upon said tract of land) in Grove Township, Harnett County, North Carolina, and being more specifically shown upon a map of survey entitled "Division of Thessie Daniel Farm" as prepared by Artis P. Spence, Registered Land Surveyor, dated December 21, 1985, (said survey being from a boundary survey made in June of 1985) and more fully described upon the aforementioned survey as follows: BEGINNING at an iron stake in the original western line of the tract from which this parcel is carved, said point being a corner in the line of the lands of Stewart Turlington heirs and said beginning corner also being the Southwestern corner of an 18.38 acre tract of land heretofore conveyed to Jeanette D. Johnson (reference is made to deed recorded in Book 513, Page 279, Harnett County Registry); and runs thence as the Southern line of the 18.38 acre tract South 71 degrees 16 minutes 20 seconds East 1657.83 feet crossing Secondary Road No. 1721 to a point; thence South 53 degrees 19 minute 30 seconds East 388.37 feet to a found rebar; thence North 36 degrees 47 minutes 41 seconds East 190.44 feet to a found rebar; thence South 52 degrees 48 minutes 39 seconds East 1040.21 feet to an iron stake in or near a small branch area; thence as the original line South 34 degrees 32 minutes 26 seconds West 297.10 feet to an iron stake; thence continuing as the original line South 16 degrees 06 minutes 06 seconds East 93.60 feet to an iron stake; thence continuing as the original line South 37 degrees 22 minutes 09 seconds East 147.14 feet to an iron stake, being a corner between Tracts 1 and 2; thence as a new division line between Tracts 1 and 2 North 70 degrees 36 minutes 19 seconds West 3270.23 feet to an iron stake in the original western line of the tract from which this parcel is carved; thence as the original line North 27 degrees 38 minutes 19 seconds East 682.81 feet to the point and place of BEGINNING and containing 46.75 acres, more or less.

This is the same property that was devised to Jeanette D. Johnson in Article Five of the Last Will and Testament of Thessie D. Daniel which is filed in Estate File No. 99 E 536 less that 0.80 acre tract which is designated as Tract 4 in that map recorded as Map No. 2004-251 Harnett County Registry.



KIMBERLY S. HARGROVE  
REGISTER OF DEEDS, HARNETT  
305 W CORNELIUS HARNETT BLVD  
SUITE 200  
LILLINGTON, NC 27546

**PLEASE RETAIN YELLOW TRAILER PAGE**

It is part of recorded document, and must be submitted with original for re-recording  
and/or cancellation.

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Filed For Registration: 03/03/2005 09:03:33 AM

Book: RE 2049 Page: 182-185

Document No.: 2005003567

DEED 4 PGS \$20.00

NC REAL ESTATE EXCISE TAX: \$109.00

Recorder: ELMIRA MCLEAN

\*\*\*\*\*

State of North Carolina, County of Harnett

The foregoing certificate of LINDA J. MORGAN Notary is certified to be correct. This 3 RD of March 2005

KIMBERLY S. HARGROVE , REGISTER OF DEEDS

By: Elmira McLean  
Deputy/Assistant Register of Deeds

\*\*\*\*\*



2005003567



FOR REGISTRATION REGISTER OF DEEDS  
 KIMBERLY S. HARGROVE  
 HARNETT COUNTY, NC  
 2005 MAR 03 09:03:33 AM  
 BK: 2849 PG: 182-185 FEE: \$20.00  
 NC REV STAMP: \$109.00  
 INSTRUMENT # 2005003567

HARNETT COUNTY TAX ID #  
 07-1508-0053-01  
 \_\_\_\_\_  
 \_\_\_\_\_  
 3-3-05 BY SKB

**NORTH CAROLINA GENERAL WARRANTY DEED**

Excise Tax \$109.00

Parcel Identifier No.: 07 1508 0053 01

Verified by \_\_\_\_\_ County on the \_\_\_\_\_ day of \_\_\_\_\_, 2004  
 by \_\_\_\_\_

Mail after recording to Dwight W. Snow, Attorney at Law, P.O. Box 397, Dunn NC 28335  
 This instrument was prepared by Dwight W. Snow, Attorney at Law, P.O. Box 397, Dunn NC 28335

Brief Description for the index

49.50 acre tract - Thessie Daniel Farm

THIS DEED made this the 3rd day of March, 2005 by and between

GRANTOR	GRANTEE
LYNDY DANIEL BUTLER and husband, ROBIE BUTLER 163 Melvin Daniel Lane Dunn, N.C. 28334	COUNTY OF HARNETT P.O. Box 759 102 E. Front St. Lillington, N.C. 27546

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in Grove Township, Harnett County, North Carolina and more particularly described as follows:

SEE ATTACHED EXHIBIT "A"

The property hereinabove described was acquired by Grantor by instrument filed in Harnett County Estate File No. 99 E 536.

A map showing the above described property is recorded in Map No. \_\_\_\_\_ County Registry.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

- a. General utility easements for phone and power purposes.
- b. Roadways and rights-of-way of record and those visible by inspection of the premises.
- c. Such facts as an environmental study on the subject property by an environmental engineer would reveal.
- d. Such facts that would be revealed by a recent survey on the subject tract by a registered land surveyor.
- e. 2005 Harnett County ad valorem taxes which are not yet due and payable and which will be the responsibility of the Grantee to pay when they become due.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

(Corporate Name)

By: \_\_\_\_\_ President

Lynnda Daniel Butler (SEAL)  
LYNDA DANIEL BUTLER

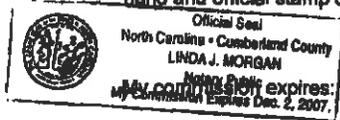
Robie Butler (SEAL)  
ROBIE BUTLER

\_\_\_\_\_  
(SEAL)

\_\_\_\_\_  
(SEAL)

SEAL-STAMP

NORTH CAROLINA, Cumberland County.  
I, Linda J. Morgan, a Notary Public of the County and State aforesaid, certify that LYNDA DANIEL BUTLER and husband, ROBIE BUTLER, Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 3<sup>rd</sup> day of March, 2005.



Linda J. Morgan  
Notary Public

SEAL-STAMP

NORTH CAROLINA, \_\_\_\_\_ County.  
I, a Notary Public of the County and State aforesaid; certify that \_\_\_\_\_ personally came before me this day and acknowledged that he/she is \_\_\_\_\_ of \_\_\_\_\_ a North Carolina corporation, and that he/she, as \_\_\_\_\_, being authorized to do so, executed the foregoing on behalf of the corporation.  
Witness my hand and official stamp or seal, this \_\_\_ day of \_\_\_\_\_, 2004.

\_\_\_\_\_  
Notary Public

My commission expires:

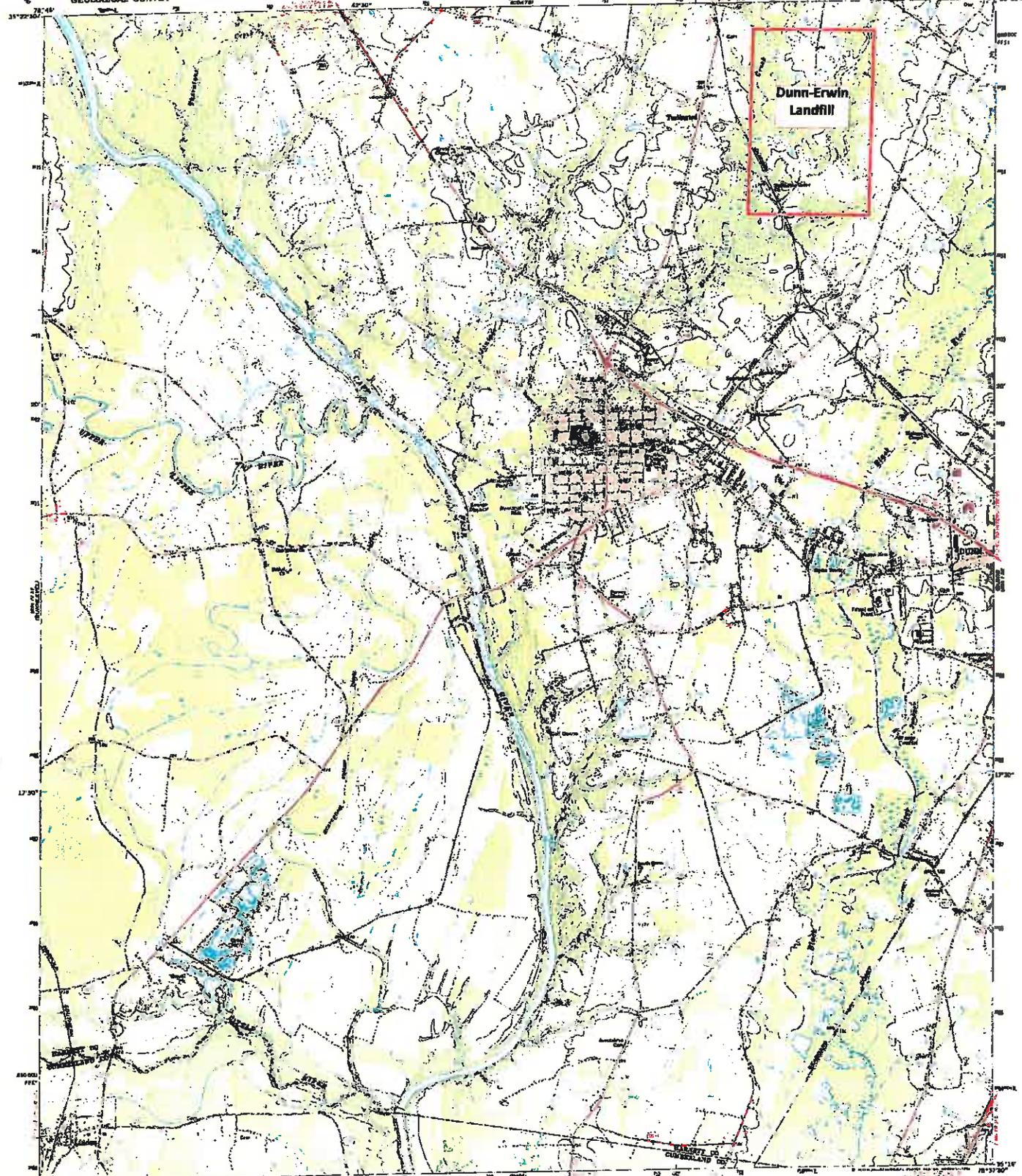
EXHIBIT "A"

All that certain tract or parcel of land containing 49.50 acres, more or less, and being shown as Tract No. 2 on that certain map of survey entitled "Division of Thessie Daniel Farm" as prepared by Artis P. Spence, Registered Land Surveyor, dated December 21, 1985, (said survey being from a boundary survey made in June of 1985) and more fully described upon the aforementioned survey as follows: BEGINNING at an iron stake in the western line of the tract from which this parcel is carved, said iron stake being a point in the Stewart Turlington heirs line and also being the southwestern corner of Tract No. 1 as shown on said division map and runs thence from said beginning point South 70 degrees 36 minutes 19 seconds East 3270.23 feet to an iron stake in the eastern line of the tract from which this parcel is carved, being the southeastern corner of Tract No. 1 as shown on said division map; thence as the original line South 37 degrees 22 minutes 09 seconds East 490.35 feet to a concrete monument on the edge of a hill; thence as the original line South 38 degrees 54 minutes 40 seconds West 397.08 feet to an iron stake, being a corner for Tracts 2 and 3 in said division; thence as the division line between Tracts 2 and 3 North 70 degrees 36 minutes 16 seconds West 3273.90 feet to an iron stake in the western line of the tract from which this parcel is carved; thence as the original line North 09 degrees 41 minutes 48 seconds West 75.76 feet to an iron stake in the edge of the swamp; thence continuing as the original line North 04 degrees 35 minutes 41 seconds West 600 feet to an iron stake on a ridge; thence continuing as the original line North 27 degrees 38 minutes 19 seconds East 15.43 feet to the point and place of BEGINNING and containing 49.50 acres, more or less.

This is the same property that was devised to Lynda Daniel Butler in Article Five of the Last Will and Testament of Thessie D. Daniel which is filed in Estate File No. 99 E 536 in the office of the Harnett County Clerk of Superior Court.

LOB RB  
47

# **USGS Topographic Quadrangle Map**



Dunn-Erwin  
Landfill

Revised, edited, and published by the Geological Survey  
Control by USGS, WASHINGTON, USGS and North Carolina Geologic Survey  
Topography by photogrammetric methods from aerial photographs  
taken 1972. First checked 1973.  
Projection and 30,000-foot grid taken North Carolina coordinate system  
(Lambert conformal conic). 1983 North American Datum  
grid ticks, zone 17, datum to WGS 1983 North American Datum  
by phone are the projected North American Datum 1983 from the  
projection zone 17 (zone 17) and 23 meters east as shown  
by North American Datum.  
Flowed stream lines indicate stream flow and field lines show  
generally visible in aerial photographs. To a minimum it is indicated  
that the drainage area in which only headwater runoff is shown  
that dashed blue lines indicate stream flow by stream flow  
in aerial photographs.



ROAD CLASSIFICATION  
Five or six highway, Light duty road, best or  
hard surface, Improved surface  
Secondary highway, Bare surface  
Local road, U.S. Route, State Route  
Interstate Route

THIS MAP COMPLETES WITH NATIONAL MAP ASSURANCE STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY REGIONAL OFFICE  
A FUTURE EDITION, TOPOGRAPHIC DATA AND ANNOTATIONS IS AVAILABLE ON REQUEST

ERWIN, N. C.  
82211-4782 8/72  
1972  
REVISED 1987  
GSA 1:24,000 8/72

# Zoning Letter



**Harnett**  
COUNTY  
NORTH CAROLINA

Planning Department

[www.harnett.org](http://www.harnett.org)

September 13, 2012

Attn: Amanda Bader  
Harnett County Engineer  
102 East Front Street  
Lillington, NC 27546

PO Box 65  
108 E. Front St.  
Lillington, NC 27546

Ph: 910-893-7525  
Fax: 910-814-6459

Property Owner: Harnett County

PIN(s)#: 1508-49-0386.000  
1508-48-5635.000  
1508-47-5974.000

To Whom It May Concern:

With regard to the above-referenced property (the "Property Owner"), please be advised as follows:

1. The Property is zoned RA-30 (the "Zoning Classification"), and in this case the build out is a **Waste Related Transfer Station**. This use is grandfathered as a "**Legal Non-Conforming**" use of the property until such time that it is discontinued for a period of 180 days or more.
3. Attached hereto and incorporated herein by reference is a list of the permitted uses under the Zoning Classification RA-30 (the "Permitted Uses");
4. The undersigned is unaware of any pending proceedings against the Property or its owner(s) for any building code or zoning ordinance violations and the undersigned is unaware that this department has received any complaints regarding violation or non-compliance with the regulations of the inspections department of the County of Harnett NC.
5. Assuming that the existing improvements on the Property (the "Improvements") are a Permitted Use under the Zoning Classification, the Improvements can be rebuilt in accordance with the Harnett County Unified Development Ordinance, in the event of partial or total destruction of the Improvements;
6. To the best of the undersigned's knowledge, upon due inquiry, all permits or governmental approvals required in connection with the operation of the Property are in place. Furthermore, all site plan requirements such as Parking, Lighting, and Access have been provided for and approved by the necessary bodies.

Sincerely,

Landon Chandler  
Planner II  
(910) 893-7525

## Harnett County Unified Development Ordinance Use Table (Adopted October 17, 2011)

Article V "Use Regulations" as shown

### 1.2 Table of Use Types & Regulations

	IND	LI	COMM	O&I	CONS	RA-40	RA-30	RA-20R	RA-20M	PARKING	USE GROUP LEVEL	BUILDING CODE CLASS
<b>RESIDENTIAL USES</b>												
<b>Traditional Household Residential</b>												
Single Family Dwellings (including modular homes)					P*	P	P	P	P	2 per dwelling unit	1	R-3
Manufactured Homes (on individual parcel)							C*	P*	P*	2 per dwelling unit	1	R-3
Multi-Section Manufactured Homes (on individual parcel)							P*	P*	P*	2 per dwelling unit	1	R-3
<b>Multifamily Residential</b>												
Duplex Development							C*	C*	P*	1.5 per bdrm + 1 per bdrm over 2	2	R-3
Condominium Development				P*			C*	C*	P*	1.5 per bedroom	2	R-2
Live/Work Development			C*	C*						As required by proposed uses	3	
Multifamily Dwelling (three (3) or more dwelling units on individual parcel)				P*			C*	C*	P*	1.5 per bdrm + 1 per bdrm over 2	2	R-2
Townhome Development				P*			C*	C*	P*	1.5 per bdrm + 1 per bdrm over 2	2	R-3
Two-Family Dwelling (duplex on individual parcel)							P	P	P	1.5 per bdrm + 1 per bdrm over 2	1	R-3
<b>Group Residential</b>												
Family Care Facility						P*	P*	P*	P*	1 per 5 beds	2	R-3
Group Care Facility			C*			C*	C*	C*	C*	1 per 5 beds	2	
<b>ACCESSORY USES &amp; STRUCTURES</b>												
Customary Home Occupations						P*	P*	P*	P*		1	
Education: Typically Related Accessory Uses (i.e. dormitories, modular units, stadiums, auditoriums, museums etc...)	P	P		P		P	P	P	P	see O&I District Regulations		
Junk Motor Vehicles (on private property)						P*	P*	P*	P*			
Kennel, Private Accessory						P*	P*	P*	P*		1	
Religious Structures Related Accessory Uses (i.e. Rectories, Parsonages, Manses, Parish Houses, Cemeteries, Mausoleums)	C	C	P	P		P	P	P	P		2	
Solar Energy System	P*	P*	P*	P*		P*	P*	P*	P*			
Swimming Pools	P*	P*	P*	P*		P*	P*	P*	P*		1	
Wind Energy System	P*	P*	P*	P*		P*	P*	P*	P*			
<b>AGRICULTURE &amp; FORESTRY USES</b>												
Bona Fide Farm & Agritourism	P	P	P		P	P	P	P	P		1	
Nursery					P*	P*	P*	P*	P*	1 per 500 sq. ft.	2	M
Preserves (Nature, Wildlife, or Forest)	P	P	P	P	P	P	P	P	P		1	
<b>EDUCATIONAL &amp; INSTITUTIONAL USES</b>												
Continuing Care Retirement Community/Nursing Home	P	P	P	P		C	C	C	C	1 per employee (largest shift) + 1/2 per resident	2	
Crematorium	P	C	C			C	C	C	C	1 per employee	1	

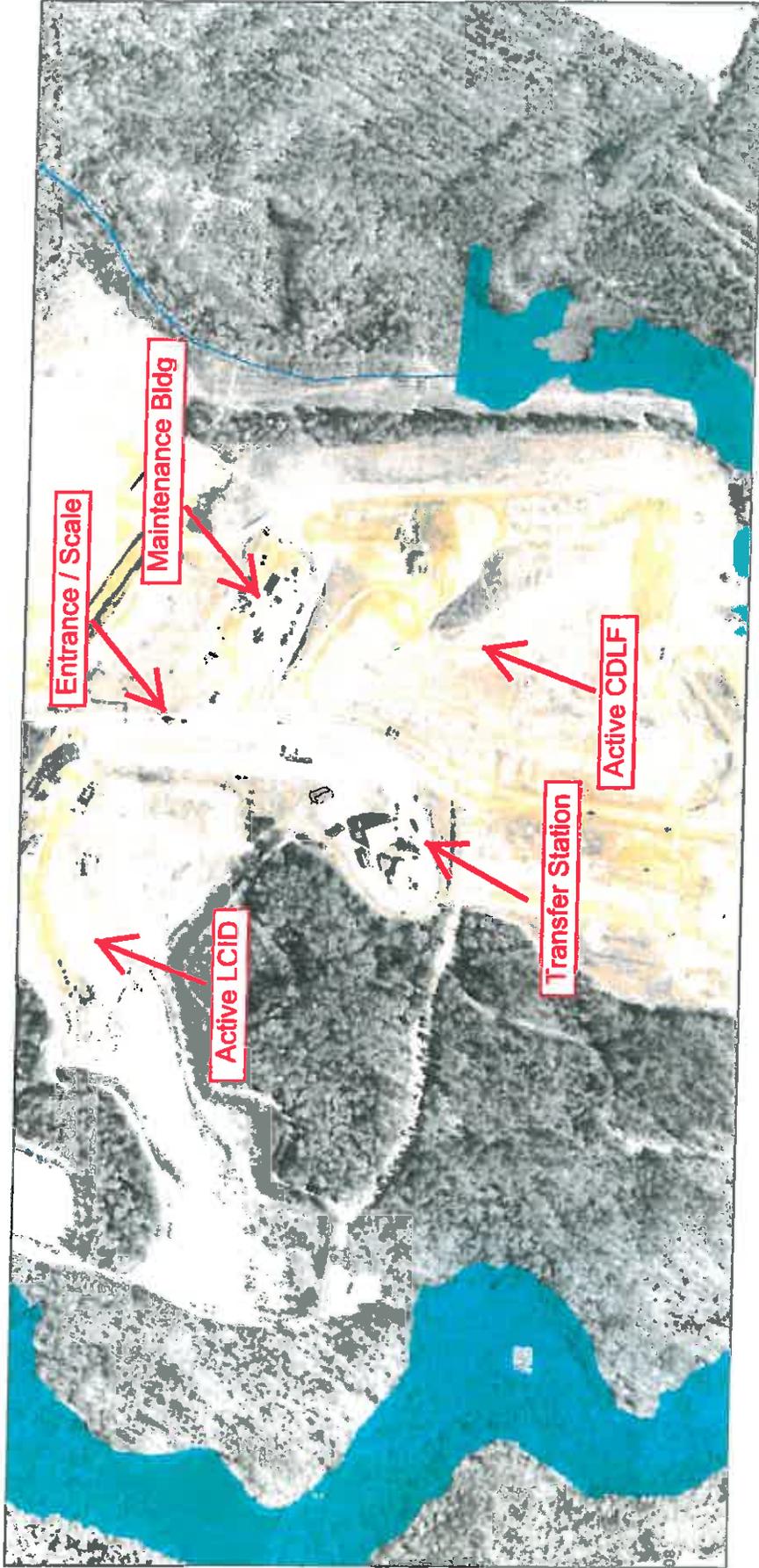
	IND	LI	COMM	O&I	CONS	RA-40	RA-30	RA-20R	RA-20M	PARKING	USE GROUP LEVEL	BUILDING CODE CLASS
Cemetery or Mausoleum, Commercial Use			C*			C*	C*	C*	C*		2	
Cemetery or Mausoleum, Private Use						P	P	P	P		2	
Funeral Home or Mortuary			P			C	C	C	C	1 per 4 seats (OR 1 per 200 sq. ft.)	2	A-3
Religious Structures	C*	P*	P*	P*		P*	P*	P*	P*	1 per 4 sanctuary seats	2	A-3
<b>Daycare Facilities</b>												
Adult Daycare	C*	P*	P*	C*		C*	C*	C*	C*	1 per employee + 1 per 8 clients	2	
Childcare Facility	C*	P*	P*	C*		C*	C*	C*	C*	1 per employee + 1 per 8 clients	2	
In-Home Childcare						P*	P*	P*	P*	As required by underlying use	1	R-3
<b>Educational Services</b>												
Colleges & Universities	P	P	C	P		P	P	P	P	5 per classroom + 1 per office	2	B
Learning Center		C	P	P						1 per employee + 1 per 8 clients	2	B
Research Laboratory	P	P	C	P						1 per 2 employees (largest shift) (OR 1 per 500 sq. ft.)	1	
School, Private: Elementary, Middle, & High	C	C	C			P	P	P	P	2 per classroom	2	E
School, Public: Elementary, Middle, & High	C	C	C			P	P	P	P	5 per classroom	2	E
Trade School	P	P	P			C	C	C	C	5 per classroom + 1 per office	2	B
Truck Driving School	P	C	C							5 per classroom + 1 per office	4	B
<b>Financial Services</b>												
Automated Teller Machine (ATM)	P*	P*	P*	P*		P*	P*	P*	P*	2 per machine	2	
Financial Institutions (Banks, Credit Agencies, Investment Companies, etc)	C	P	P	P						1 per 200 sq. ft.	3	B
<b>Health Services</b>												
Emergency Services (ie- Police, Fire, Rescue, Ambulance Service)	P	P	P	P		P	P	P	P	1 per 350 sq. ft.	2	
Health Care Services (ie- Medical & Dental Clinic & Lab, Blood Bank, etc)	C	P	P	P		C	C	C	C	1 per 300 sq. ft.	3	B
Hospitals	P	P	P	P		P	P	P	P	2 per bed	3	I-2
<b>Public Services</b>												
Parks		P	P	P	P	P	P	P	P		1	
Public Library	P	P	P	P		P	P	P	P	1 per 300 sq. ft.	2	A-3
<b>Social Institutions</b>												
Community & Civic Centers		P	P			P	P	P	P	1 per 200 sq. ft.	2	A-3
Social Halls, Lodges, Fraternal Organizations, Clubs, & Similar Activities		P	P			C	C	C	C	1 per 200 sq. ft.	2	A-3
<b>COMMERCIAL USES</b>												
Existing Commercial Uses Applying for Permits to Expand				P		C	C	C		As required by underlying use	3	
<b>Animal Services</b>												
Kennels, Boarding Stables, & Other Similar Regulated Land Uses	C	C	C			C	C	C	C	1 per employee + 1 per kennel or pen	3	B
Veterinarian Service	C*	P*	C*	C*		C*	C*	C*	C*	1 per 300 sq. ft.	3	B
Zoo & Petting Zoo			C*			C*	C*	C*		1 per 4 persons (at max capacity)	4	
<b>Eating &amp; Drinking Services</b>												
Bar, Tavern, & Entertainment Venue	P*	C*	P*							1 per 2 seats	3	A
Restaurant	P*	P*	P*	P*		C*	C*	C*	C*	1 per 4 seats + 1 per 2 employees	3	A
<b>Lodging Services</b>												
Bed & Breakfast						C*	C*	C*	C*	1 per room + 1 per employee	3	R
Boarding House			C*					C*	C*	1 per room + 1 per employee	3	R
Hotel or Motel	C	P	P	C						1 per room + 1 per 2 employees	3	R
Homeless Shelter	C*		C*			C*	C*	C*		1 per 400 sq. ft.	3	R
Recreational Vehicle Park			C*			C*	C*	C*			3	
<b>Offices, General</b>												

	IND	LI	COMM	O&I	CONS	RA-40	RA-30	RA-20R	RA-20M	PARKING	USE GROUP LEVEL	BUILDING CODE CLASS
Business Service Establishment	P	P	P	P						1 per 300 sq. ft.	3	B
Offices (Business or Professional)	P	P	P	P		C	C	C	C	1 per 200 sq. ft.	3	B
Offices (Governmental)	P	P	P	P		C	C	C	C	1 per 200 sq. ft.	3	B
<b>Personal Services</b>												
Laundry Mat	P	P	P	P		C	C	C	C	1 per 150 sq. ft.	3	
Massage & Bodywork Therapy Practice, Licensed			P*				C*	C*	C*	3 per licensed therapist	3	B
Massage & Bodywork Therapy Practice, Unlicensed	C*									1 per 300 sq. ft.	4	B
Personal Service Establishment	P	P	P			C	C	C	C	1 per 300 sq. ft.		B
<b>Recreational Facilities</b>												
Recreational Facility	C*	C*	C*	C*		C*	C*	C*	C*	1 per 4 persons (at max capacity)	3	A
Athletic Fields, Private			P*	P*		C*	P*	P*	P*	25 per field + 1 per 200 sq. ft.	3	A
Health & Training Center, Indoor	C	P	P	P						1 per 200 sq. ft.	2	A
Health & Training Center, Outdoor		C*	C*	C*						1 per 200 sq. ft.	2	A
Race Track	C*	C*	C*	C*		C*	C*	C*	C*	1 per participant + 1 per 3 seats	3	A
Recreation & Amusement Services		C	C							1 per 4 persons (at max capacity)	3	A
Recreational Day Camp		C*	C*			C*	C*	C*	C*	1 per employee + 1 per 8 clients	2	
Recreational Facility, Indoor		P	P	P		C	C	C	C	1 per 200 sq. ft.	2	A
Shooting Range, Indoor	P*	P*	P*	C*		C*	C*	C*	C*	1 per firing point	4	
Shooting Range, Outdoor	C*	C*	C*	C*		C*	C*	C*	C*	1 per firing point	4	
<b>Retail Services</b>												
Convenience Stores & Convenience Type Business Establishments	P*	P*	P*	P*		C*	C*	C*	C*	1 per 150 sq. ft.	3	M
Grocery Store		C	P	P		C	C	C	C	1 per 200 sq. ft.	3	M
Flea Markets, Rummage, Second Hand Sales & Activities, Indoor			P*				C*	C*	C*	1 per 300 sq. ft.	3	M
Flea Markets, Rummage, Second Hand Sales & Activities, Outdoor			P*							1 per 300 sq. ft.	3	M
Nursery, Retail		P	P			C	C	C	C	1 per 500 sq. ft.	3	M
Retail Sales (entirely within an enclosed building)	P*	P*	P*							1 per 300 sq. ft.	3	M
Retail Sales, Outdoor (primarily outside of an enclosed building)	P*	P*	P*							1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	3	M
Shopping Center		P*	P*							1 per 200 sq. ft.	3	
Sexually-Oriented Business (bookstore, motion picture, nightclub)	C*									1 per 300 sq. ft.	4	
<b>Vehicle Services</b>												
Automobile Repair Facility	P*	P*	P*	C*		C*	C*	C*	C*	3 per bay + 1 per employee	3	S
Car Wash	P*	P*	P*	C*		C*	C*	C*	C*	1 per employee + 1 per 200 sq. ft.	3	
Parking Lot	P	P	P	P				C	C		3	
Repossession Storage Facility (repot lot)	P*	C*	C*							1 per 200 sq. ft.	4	
Vehicle Sales, Leasing, & Rental		C*	P*							1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	3	B
<b>INDUSTRIAL USES</b>												
Existing Industrial Uses Applying for Permits to Expand			C				C	C	C	As required by underlying use	4	
<b>Alternative Energy</b>												
Ethanol Diesel & Biofuel Production	C*	C*								1 per 2 employees (largest shift)	4	H
Solar Energy Facility	P*	P*				C*	C*	C*	C*	1 per 2 employees (largest shift)	4	
Wind Energy Facility	P*	P*				C*	C*	C*	C*	1 per 2 employees (largest shift)	4	
<b>Manufacturing</b>												

	IND	LI	COMM	O&I	CONS	RA-40	RA-30	RA-20R	RA-20M	PARKING	USE GROUP LEVEL	BUILDING CODE CLASS
Manufacturing, Fertilizer	C*									1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	II
Manufacturing, General	P*	C*								1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
Manufacturing, Light	P*	P* C*	P*	P*						1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
<b>Warehousing &amp; Freight Handling</b>												
Assembling, Processing Industries, Wholesale, & Warehouse	P*	C*	C*							1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
Distribution Center	P*	C*	C*							1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	S
Storage, Recreational Vehicle & Travel Trailer						P*	P*	P*	P*	see Office, if applicable	3	
Storage, Self Mini-Warehouse	P*	P*	P*				C*	C*	C*	see Office, if applicable	3	S
<b>Wholesale Trade</b>												
Wholesale Storage of Gasoline or Bulk Terminal Plants	C*									1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	II-3
<b>Waste Related</b>												
Recycling Collection Centers (unmanned)	P*	P*	P*	P*		P*	P*	P*	P*	1 per unit	1	
Recycling Collection Centers & Solid Waste Container Sites (manned)	P	P					C	C	C	1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
Recycling Plant	P	C	C							1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
Solid Waste Disposal	C*	C*	C*			C*	C*	C*	C*	1 per 2 employees (largest shift)	4	
<b>UTILITY USES</b>												
Privately Owned Public Utility Structures & Facilities	P* C*	P* C*	P* C*	P* C*	P* C*	C* C*	C* C*	C* C*	C* C*	1 per 2 employees, if applicable	3	U
Publicly Owned Utility Structures & Facilities	P*	1 per 2 employees, if applicable	3	U								
<b>TEMPORARY USES</b>												
Modular Classroom	P*	P*	P*	P*		P*	P*	P*	P*			II
Nonresidential Building, Temporary	P*											
Portable Food Sales		P*	P*	P*								
Residence, Temporary						P*	P*	P*	P*	2 per dwelling unit	1	
Roadside Stands						P*	P*	P*	P*		1	
Season Sales			P*			P*	P*	P*	P*		1	
Temporary Events	P*	P*	P*	P*		P*	P*	P*	P*		1	
Turkey Shoot, Temporary/Seasonal	C*	C*	C*	C*		C*	C*	C*	C*	1 per firing point	1	
Yard Sale						P*	P*	P*	P*		1	
<b>OTHER USES</b>												
Airports & Related Uses	P* C*	C*	C*	C*						1 per 300 sq. ft.	4	U
Comm. Towers: Microwave, TV, Telephone, Radio, & Cellular	C*	C*	C*	C*		C*	C*	C*	C*		4	U
Junkyards	C*									1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
Manufactured Home Parks									C*	2 per dwelling unit	3	
Mining Activities	C*	C*	C*			C*	C*	C*	C*	1 per 2 employees (largest shift) OR 1 per 500 sq. ft.	4	
Outdoor advertising signs			P									
Planned Unit Development	C*	C*	C*			C*	C*	C*	C*	As required by underlying use	3	

# FEMA Flood Map

# Dunn Erwin Landfill Transfer Station - FLOOD MAP



0 500 Feet

**Major Crs**

- Major Crs
- Benchmarks
- DFRM Grid
- Rivers and Streams
- Transects (Coastal)
- County Boundaries
- Coastal Barrier Resources Systems

**Roads**

- NC Highway
- US Highway
- Interstate Highway
- Political Areas
- Extrajurisdictional Jurisdiction
- Coastal Sounds

- 100yr Flooding - Floodway (AE)
- 100yr Flooding - No BFE's (AE)
- 100yr Flooding - No BFE's (A)
- 100yr Flooding - Velocity Zone
- 60yr Flooding (Shaded X)
- Base Flood Elevation (Symbol)
- Cross Sections

- 100yr Flooding - Floodway (AE)
- 100yr Flooding - No BFE's (AE)
- 100yr Flooding - No BFE's (A)
- 100yr Flooding - Velocity Zone
- 60yr Flooding (Shaded X)
- Base Flood Elevation (Symbol)
- Cross Sections

# **ACOE Wetlands Documentation**

U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT

Action Id. 200902144

County: Harnett

U.S.G.S. Quad: Erwin

PN: 3007A  
PN: 3002B  
"DELF Wetlands  
Jurisdictional  
Determination"

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner/Agent: Harnett County Public Utilities

Address: Attn: Steve Ward  
308 West Duncan St  
Lillington, NC 27546

Telephone No.: 910-893-7536

Property description:

Size (acres) 27.32

Nearest Waterway Stewart's Creek

USGS HUC 03030004

Nearest Town Erwin

River Basin Cape Fear

Coordinates N 35.36321 W -78.65029

Location description The Erwin-Dunn landfill is located south of Daniels Rd, approximately 0.5 miles south of the intersection of Daniels Rd and Turlington Rd in Erwin, Harnett County, North Carolina. The project area includes the northern and western portions of the track and is shown on the attached map.

Indicate Which of the Following Apply:

**A. Preliminary Determination**

- Based on preliminary information, there may be wetlands on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process ( Reference 33 CFR Part 331).

**B. Approved Determination**

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S. on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
  - We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.
  - The waters of the U.S. on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.
  - The wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on \_\_\_\_\_. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
  - There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

Action ID: 2009-02144

- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Washington, NC, at (252) 946-6481 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact Crystal Amschler at 910-251-4170.

### C. Basis For Determination

Wetlands were determined using the Corps 1987 delineation manual and the Atlantic and Gulf Coastal Plain Region Supplement.

### D. Remarks

### E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

### F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division  
Attn: Crystal Amschler, Project Manager,  
Wilmington Regulatory Field Office  
69 Darlington Ave  
Wilmington, North Carolina 28403

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 4/20/2010.

**\*\*It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.\*\***

Corps Regulatory Official: \_\_\_\_\_



Date 02/19/2010

Expiration Date 02/19/2015

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at <http://per2.nwp.usace.army.mil/survey.html> to complete the survey online.

Copy furnished:  
Wetland Solutions  
Attn: Adam Carter  
PO Box 244  
Bunnlevel, NC 28323

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Harnett County Public Utilities

File Number: 200902144

Date: 2/19/2010

Attached is:

<input type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/> PERMIT DENIAL	C
<input checked="" type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION	D
<input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION	E

**SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.**

**A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.**

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT: You may accept or appeal the permit**

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.**

**D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.**

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:  
District Engineer, Wilmington Regulatory Division  
Attn Crystal Amschler, Project Manager,  
Wilmington Regulatory Field Office  
69 Darlington Ave  
Wilmington, North Carolina 28403

If you only have questions regarding the appeal process you may also contact:  
Mr. Mike Bell, Administrative Appeal Review Officer  
CESAD-ET-CO-R  
U.S. Army Corps of Engineers, South Atlantic Division  
60 Forsyth Street, Room 9M15  
Atlanta, Georgia 30303-8801

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:

**For appeals on Initial Proffered Permits and approved Jurisdictional Determinations send this form to:**

District Engineer, Wilmington Regulatory Division, Attn: Crystal Amschler, Project Manager,  
Wilmington Regulatory Field Office, 69 Darlington Ave, Wilmington, North Carolina 28403

**For Permit denials and Proffered Permits send this form to:**

Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Mike Bell,  
Administrative Appeal Officer, CESAD-ET-CO-R, 60 Forsyth Street, Room 9M15, Atlanta,  
Georgia 30303-8801



2009-02144

Project area

Furlington Rd

NC 55

NC 55

Prospect Church Rd

Ashley Ln

Clayton Rd

# **Erosion & Sedimentation Control Plan Approval Letter**

State of North Carolina  
Department of Environment  
and Natural Resources  
Fayetteville Regional Office

James B. Hunt, Jr., Governor  
Wayne McDevitt, Secretary

RECEIVED  
DEC - 1 1997  
Asst. ....



November 25, 1997

Neil Emory, County Mgr.  
Harnett County  
PO Box 759  
Lillington, NC 27546

Re: Approval of Soil Erosion and  
Sediment Control Plan  
Land Clearing & Inert Debris LF  
LCID, Dunn/Erwin LF  
Harnett County, NC

Dear Mr. Emory:

The review of the above-referenced erosion control plan has been completed.

The plan has been found to be acceptable subject to the following stipulations:

1. A detail of the drop inlet sediment control measures should be provided.
2. Enclosed is a Certificate of Plan Approval which must be displayed at the job site.
3. This project is subject to the National Pollutant Discharge Elimination System (NPDES) for point source stormwater discharges from construction activities. Enclosed is a copy of the necessary permit information. Please contact Mr. Ken Averitte, Division of Water Quality, at (910) 486-1541 for further assistance regarding this permit.

Neil Emory, County Mgr.  
Re: Land Clearing & Inert Debris LF  
LCID, Dunn/Erwin LF  
Harnett County

Page 2

4. In order to ensure the early coordination and implementation of the erosion control plan for this project, it is requested that a preconstruction conference be held. As a minimum, representatives of the owner, engineer, contractor, and this office should attend, subject to the availability of staff. Please notify Connie Miller of this office as to when this conference is scheduled.
5. The developer is responsible for obtaining any and all permits and approvals necessary for the developing of this project prior to the commencement of this land-disturbing activity. This could include the Division of Water Quality under storm water regulations, the US Army Corps of Engineers under Article 404 jurisdiction, local county or town agencies under their local ordinances, or others that may be required. This approval cannot supersede any other permit or approval; however, in the case of a Cease and Desist Order from the Corps of Engineers, that Order would only apply to wetland areas. All other lands must still be in compliance with the Sedimentation Pollution Control Act.
6. If any area on site falls under the jurisdiction of Section 404 of the Clean Water Act, the developer is responsible to the orders of the US Army Corps of Engineers. Any erosion control measures that fall within jurisdictional wetland area must be relocated to the transition point between the wetlands and the highlands to assure that the migration of sediment will not occur. If that relocation presents a problem or contradicts any requirements of the Corps of Engineers, it is the responsibility of the developer to inform the Land Quality Section's Regional Office so that an adequate contingency plan can be made to assure sufficient erosion control on-site. Failure to do so will be considered a violation of this approval.
7. Any borrow material brought onto this site must be from a legally permitted mine site or other approved source. A single use borrow or waste area site is only permissible if it is operated under control of the financially responsible person or firm that is developing this site. An approved erosion and sediment control plan is required for all single use borrow and waste sites.

Neil Emory, County Mgr.  
Page 3

8. Following the completion of the project, you should notify this office to schedule a final inspection. The purpose of this inspection is to ensure that all erosion control requirements have been met.

This approval is subject to the satisfactory performance of the erosion control measures under field conditions. Should it be determined that the requirements of the Sedimentation Pollution Control Act of 1973 (GS 113A, 51-66) are not being met, revisions to the plan and its implementation will be required.

This permit allows for a land disturbance, as called for on the application plan, not to exceed 9.3 acres and/or the limits of the submitted plans. Exceeding these limits will be a violation of this permit and would require a revised plan and additional application fee. Amendments to the plan should be submitted to this office under the same procedures as followed for the original plan. This plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, as is required by Title 15A NCAC 4B .0029.

Title 15, Section 4B .0017 (A) of the North Carolina Administrative Code requires that a copy of the approved plan be on file at the job site and that inspections of the project be made by this office to ensure compliance with the approved plan.

We look forward to working with you on this project.

Sincerely,



Gerald Lee  
Assistant Regional Engineer  
Land Quality Section

GL/bt

Enclosure

cc: Thomas Wainwright, P.E.  
Linwood McDonald  
Ken Averitte

Project Name: Land Clearing & Inert Debris LF LCID, Dunn/Erwin LF  
Location: Harnett County, NC  
Submitted By: McKim & Creed Eng., P.A.  
Date Received By LQ: 11-19-97  
River Basin: Cape Fear

**SOLID WASTE MANAGEMENT FACILITY  
FIRE OCCURRENCE NOTIFICATION  
NC DENR Division of Waste Management  
Solid Waste Section**



Notify the Section verbally within 24 hours and submit written notification within 15 days of the occurrence.  
*(If additional space is needed, use back of this form.)*

NAME OF FACILITY: \_\_\_\_\_ PERMIT # \_\_\_\_\_

DATE AND TIME OF FIRE: \_\_\_\_\_ @ \_\_\_\_\_

HOW WAS THE FIRE REPORTED AND BY WHOM:  
\_\_\_\_\_

LIST ACTIONS TAKEN:  
\_\_\_\_\_

WHAT WAS THE CAUSE OF THE FIRE:  
\_\_\_\_\_

DESCRIBE AREA, TYPE, AND AMOUNT OF WASTE INVOLVED:  
\_\_\_\_\_

WHAT COULD HAVE BEEN DONE TO PREVENT THIS FIRE:  
\_\_\_\_\_

DESCRIBE PLAN OF ACTIONS TO PREVENT FUTURE INCIDENTS:  
\_\_\_\_\_

NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

\*\*\*\*\*  
THIS SECTION TO BE COMPLETED BY SOLID WASTE SECTION REGIONAL STAFF  
DATE RECEIVED \_\_\_\_\_

List any factors not listed that might have contributed to the fire or that might prevent occurrence of future fires:

FOLLOW-UP REQUIRED:  
 NO     PHONE CALL     SUBMITTAL     MEETING     RETURN VISIT    BY: \_\_\_\_\_ (DATE)

ACTIONS TAKEN OR REQUIRED:  
\_\_\_\_\_

# Waste Screening Form

## RANDOM WASTE SCREENING FORM

### GENERAL INFORMATION (completed by transporter or landfill personnel)

Date & Time : \_\_\_\_\_  
Transporter Name : \_\_\_\_\_  
License Plate No. : \_\_\_\_\_  
Drivers License No. : \_\_\_\_\_  
Source of Waste : \_\_\_\_\_  
Waste Description : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### INSPECTION OBSERVATIONS (completed by landfill personnel)

Hazardous waste labels or placards ?	YES / NO
PCE transformers, labels or placards ?	YES / NO
Lead-acid batteries ?	YES / NO
Unrinsed pesticide containers ?	YES / NO
Bulk or containerized liquids ?	YES / NO
Free liquids present ?	YES / NO
Sludges, pastes or slurries ?	YES / NO
Powders, dusts, smoke or vapors ?	YES / NO
Petroleum odors ?	YES / NO
Unusual odors ?	YES / NO
Other suspicious conditions ?	YES / NO

If YES, describe : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Photos Taken ? YES / NO (attach when available)

Will the wastes pass the Paint Filter Liquids Test ? YES / NO

Waste Accepted ? YES / NO

If NO, complete information of the back of this form

\_\_\_\_\_  
Signature (landfill personnel)

\_\_\_\_\_  
Date

**WASTE REJECTION INFORMATION** (completed by landfill personnel only if waste is rejected)

Why was the waste rejected ?

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What happened to the rejected waste ? (who took it where?)

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Who was contacted at the SHWD ?

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Time : \_\_\_\_\_ AM / PM

Date : \_\_\_\_\_

ORIGINAL : Facility Records  
COPY : Generator or Transporter

# **Routine Inspection Forms**

**INSPECTION CHECKLIST**  
**DUNN ERWIN LCID LANDFILL**  
**SWS PERMIT #43-02LCID**

Date of Inspection: \_\_\_\_\_ Weather: \_\_\_\_\_

Inspector's Name: \_\_\_\_\_

Category	No.	Inspection Item to be Conducted	(Circle Answer)	
<b>Site Access and Control</b>	1	Is entrance gate and lock functioning properly?	Yes	No
	2	Is fencing maintained?	Yes	No
	3	Is access controlled by wooded areas where no fence exists?	Yes	No
	4	Are conditions of roads from State Road to landfill acceptable?	Yes	No
	5	Is traffic pattern safe for landfill users?	Yes	No
<b>Waste Handling</b>	6	Are wastes being deposited and contained within designated areas?	Yes	No
	7	Is working face contained to ½ acre or less?	Yes	No
	8	Are any unacceptable wastes present on working face or surrounding areas?	Yes	No
	9	Are unacceptable wastes removed from cell being handled and removed from site per the operational plan?	Yes	No
	10	Is surface water being properly diverted away from the working face?		
<b>Closed and Inactive Areas</b>	11	Are finished areas of the cell being properly covered with soils?	Yes	No
	12	Is there any waste exposed on inactive areas of the cell?	Yes	No
	13	Has final cover been applied to areas at final grade?	Yes	No
	14	Is vegetative cover established on closed and inactive areas?	Yes	No
	15	Is there settlement occurring or water ponding on closed or inactive areas?	Yes	No
	16	Does the vegetation require mowing and is the vegetation healthy?	Yes	No
<b>Erosion and Sediment Control</b>	17	Are the Erosion & Sediment Control devices being properly maintained?	Yes	No
	18	Is there any evidence of erosion, rills, or gullies on the surface of the landfill and surrounding areas?	Yes	No
	19	Do the sediment basins/traps require cleaning?	Yes	No
	20	Are inactive and closed areas receiving vegetative cover in a timely manner?	Yes	No
<b>Records</b>	21	Are previous inspection records up to date and properly filed?	Yes	No
	22	Is a copy of the current SWS permit in the file?	Yes	No
	23	Are records of facility audits by SWS present?	Yes	No
	24	Are records maintained of incoming waste volumes/loads?	Yes	No
	25	Are records of rejected loads/materials and actions taken maintained?	Yes	No

Notes: \_\_\_\_\_

(use back as necessary)

**HARNETT COUNTY LANDFILL DAILY/WEEKLY CHECK LIST**

Inspector: \_\_\_\_\_  
 Inspection Dates:    /    /    20 to    /    /    20

Facility: _____	DELFCO							Active LCID	Active C&D	Sat	Sun	COMMENTS/NOTES <small>(utilize back of form for more description as necessary)</small>
	Mon	Tue	Wed	Thu	Fri	Sat	Sun					
<b>DAILY OPERATION REQUIREMENTS</b>												
Trucks using designated roads/approved parking areas per permit												
Operations conducted during permitted operating hours												
Access controlled per plan												
Access road(s) maintained (erosion, dust, litter, mud, etc) per plan												
Vehicles directed promptly to unloading area												
Vehicles promptly unloaded												
Inspection procedures implemented for prohibited wastes per plan												
No unapproved wastes												
Solid waste spread and compacted into layers per plan												
No waste <15 ft. from edge of liner, berm, edge marked, etc.												
Procedures followed for special handling and residual wastes												
No open burning												
Vectors minimized and controlled per plan												
Odors minimized and controlled per plan												
Other nuisances minimized and controlled per plan												
Litter minimized and controlled per plan												
Approved weekly cover placed												
Vegetation established and maintained per plan												
Surface and groundwater pollution discharges prevented/controlled												
Soil and erosion control BMPs are maintained per plan												
Leachate popouts detected												
Leachate popouts repaired												
Flow from leachate management system monitored daily												
Leachate management facilities operated and maintained												
Landfill gas controlled per plan/ LFG Flare Operational												
Daily operational records being made and maintained												
Salvaged materials are stored in an approved area												
Recyclable materials collection center maintained												
No immediate threats to public health and safety												

Daily Inspection Items for Active Cells

Daily & Weekly Inspection Items - All Cells

Inspector Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Key = Yes, No, NA (not applicable), ND (not determined)

(FRONT)



# HARNETT COUNTY DUNN-ERWIN LANDFILL QUARTERLY INSPECTION CHECK LIST

Inspector: \_\_\_\_\_

Quarterly Inspection Date:  Jan  April  July  October 20\_\_\_\_

## GROUNDWATER, GAS, & SURFACE WATER INSPECTION

	WELL ID	Properly Locked?	ID Tag Present?	Well or Casing Damaged?	Well accessible and mowed?	Other Issue(s)?	COMMENTS/NOTES <small>(utilize back of form for more description as necessary)</small>
<b>GROUNDWATER MONITORING WELLS</b>	MW-1						
	MW-2						
	MW-3R						
	MW-4						
	MW-5						
	MW-6						
	MW-7B						
	MW-8						
	MW-9						
	MW-10						
	MW-11						
	MW-12						
	MW-13						
	MW-14						
	MW-15						
	MW-16						
MW-23B							
MW-31							
MW-32							
MW-33							
MW-34							
MW-35							
<b>GEOPROBE WELLS</b>	GP-24W						
	GP-25W						
	GP-27W						
	GP-28W						
	GP-30W						
	GP-33W						
	GP-34W						
	GP-35W						
	GP-36W						
GP-37W							
GP-38W							
<b>GAS WELLS</b>	GW-1						
	GW-2						
	GW-3						
	GW-4						
	GW-5						
<b>SURFACE WATER</b>	SW-1						
	SW-2						
	SW-3						

Key = Yes, No, NA (not applicable), ND (not determined)  
 Please be sure to complete the back of the form!

