

Scanned By	Date	DOC ID	Permit
Backus	08/14/2014	20904	92N-LCID-1986

December 20, 2013

Ms. Patricia Backus, P.E.  
*Environmental Engineer*  
**NCDENR Division of Waste Management**  
217 West Jones Street  
Raleigh, North Carolina 27603

**RE: Revised Final Cover Grading Plan**  
**Currin Brothers Sunset Lake Road LCID Landfill & Recycling Facility**  
**NC Solid Waste Permit No. 92N**

Dear Pat:

On behalf of Currin Brothers, Inc. (Currin), Smith Gardner, Inc. (S+G) is submitting the enclosed final cover grading revisions for the above referenced site. Please be advised that following an aerial survey performed on May 12, 2013, S+G performed a review of site remaining capacity which is presented in Table 1 (below) and based on the proposed grading presented herein.

**Table 1 – Volume Summary**

Landfill Unit	Area (Acres)	Gross Capacity (CY)	Net (Debris) Capacity (CY)	Life Expectancy (Years)
Phase 1-2A	37.1	2,794,300	580,000	19
Phase 2B	8.3	545,700	60,000	2
Phase 3	2.7	108,500	1,700	0
Total:	48.1	3,448,500	641,700	21

Notes:

- Life expectancy for the facility is based on the net capacity remaining and is based on an annual incoming volume of 150,000 CY with a recovery rate of 80% through the facility recycling operations.

As you are aware, the facility has been performing a high level of debris recovery including the mining of previously filled areas within the landfill footprint. Based on our analysis, the site has managed a recovery rate of approximately 80% wherein most of the woody debris has been sold as boiler fuel and the recovered soil has been similarly sold for re-use in general grading projects. The updated existing conditions of the site are presented with respect to the on-site streams and wetlands through delineation and determination with the U.S. Army Corps of Engineers and the NCDENR Division of Water Resources (copy attached).

Ms. Pat Backus, P.E.  
December 20, 2013  
Page 2 of 2

We appreciate your attention in this matter. Please feel free to contact me with any questions or concerns at (919) 828-0577 or by email below.

Sincerely,  
**SMITH GARDNER, INC.**



Stacey A. Smith, P.E.  
Project Manager, ext. 127  
[stacey@smithgardnerinc.com](mailto:stacey@smithgardnerinc.com)



sas/sas

Att.

Cc: Mr. Ed Mussler III, P.E., NCDENR  
Mr. Allen Currin, Currin Brothers, Inc.  
Mr. Glenn Currin, Currin Brothers, Inc.  
Ms. Shawn McKee, NCDENR  
File

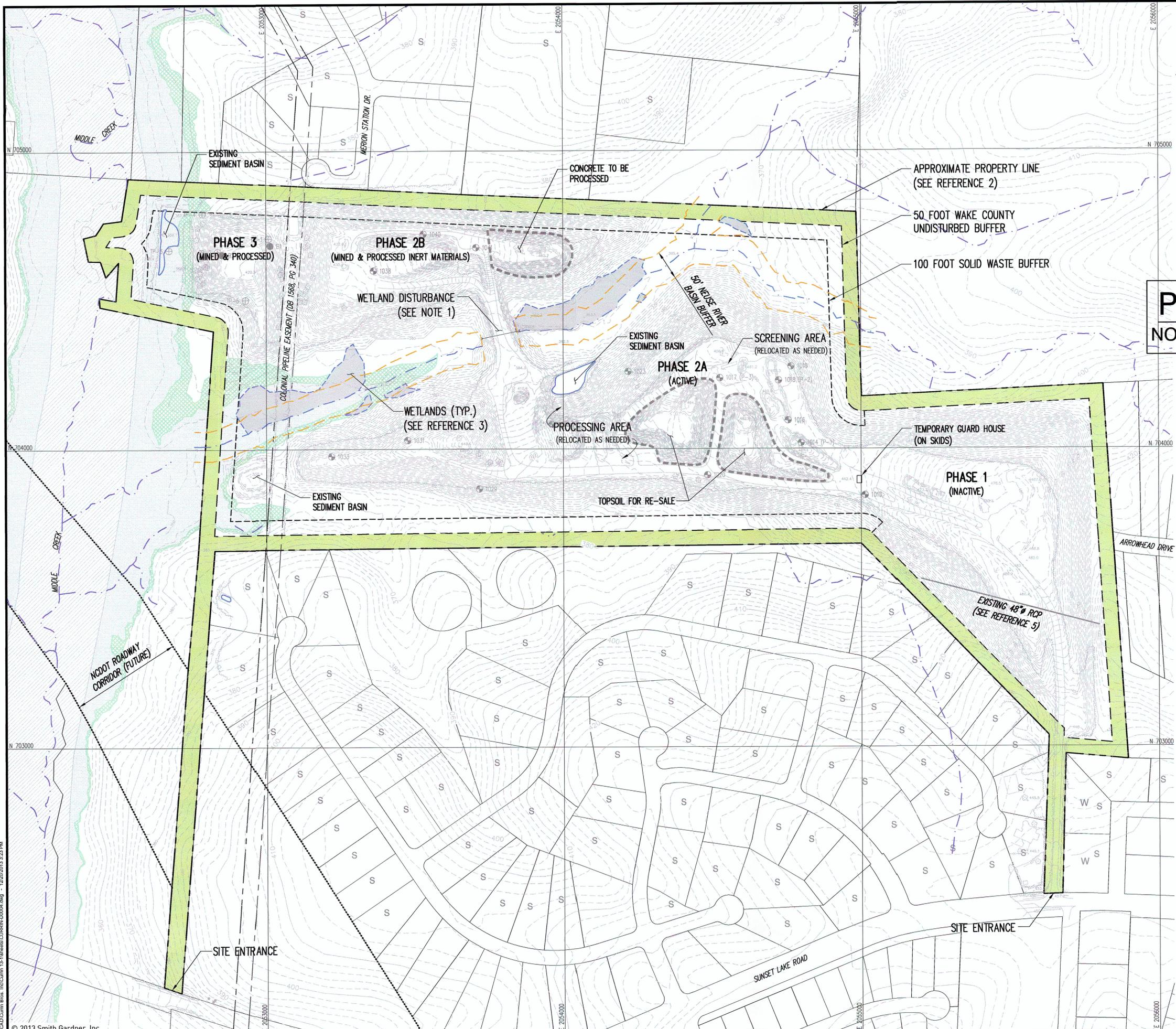


PREPARED FOR:  
**CURRIN BROTHERS, INC.**  
 P.O. BOX 547  
 FUQUAY-VARINA, NC 27526

PREPARED BY:  
 NC LIC. NO. C-0828 (ENGINEERING)  
**SMITH+GARDNER**  
 ENGINEERS  
 14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577



**PERMIT ISSUE**  
 NOT FOR CONSTRUCTION



- LEGEND**
- 400 — EXISTING 10' CONTOUR (REFERENCE 1)
  - 2' — EXISTING 2' CONTOUR (REFERENCE 1)
  - - - - - PROPERTY LINE (SEE REFERENCE 2)
  - — — — — PARCEL LINE (SEE REFERENCE 2)
  - █ WAKE COUNTY 50 FOOT UNDISTURBED BUFFER
  - - - - - 100 FOOT PROPERTY BUFFER
  - - - - - EASEMENT
  - ..... NCDOT ROADWAY CORRIDOR
  - — — — — STREAM (SEE REFERENCE 3)
  - ▨ WETLAND (SEE REFERENCE 3)
  - — — — — 50 FOOT NEUSE RIVER BASIN BUFFER
  - 1020 EXISTING WELL (SEE REFERENCE 6)
  - B1 EXISTING BORING
  - ⊕ TP-3 EXISTING TEST PIT
  - W EXISTING WELL ON PROPERTY (SEE REFERENCE 2)
  - S EXISTING SEWER OR SEPTIC ON PROPERTY (SEE REFERENCE 2)
  - ▨ FLOOD ZONE X (0.2% OR 1% (FUTURE))
  - ▨ FLOOD HAZARD AREAS (1% CHANCE ANNUAL FLOOD)
  - ▨ FLOODWAY AREAS IN ZONE AE (NO ENCROACHMENT)

**NOTES**

- NATIONWIDE PERMITS #14 AND #28 HAVE BEEN OBTAINED FROM ARMY CORPS OF ENGINEERS FOR DISTURBANCE OF 0.79 ACRES DATED JULY 14, 1995 UNDER ACTION ID 199404122.

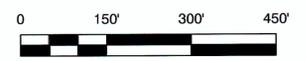
- REFERENCES**
- TOPOGRAPHY WITHIN THE LIMITS OF THE SUBJECT PROPERTY FROM AERIAL SURVEY DATED MAY 12, 2013, PREPARED BY GEODATA CORPORATION, ZEBULON, NC. TOPOGRAPHY OUTSIDE OF THE SUBJECT PROPERTY BOUNDARY FROM NCDOT GIS DEPARTMENT.
  - PROPERTY BOUNDARY, SURROUNDING PARCELS, AND WELL/SEPTIC DATA FROM WAKE COUNTY GIS DEPARTMENT.
  - WETLAND AND STREAM AREAS WITHIN THE LIMITS OF THE SUBJECT PROPERTY PROVIDED BY JOHN TUCKER CONSULTING. STREAM LOCATIONS OUTSIDE OF THE SUBJECT PROPERTY FROM WAKE COUNTY GIS DEPARTMENT.
  - FLOOD BOUNDARIES FROM FEMA FIRM MAP NUMBER 3720075000I, EFFECTIVE DATE MAY 2, 2006.
  - EXISTING 48 INCH RCP PIPE LOCATION FROM DRAWING "LANDFILL RECLAMATION" BY LITTLE AND LITTLE, DATED OCTOBER 14, 1985.
  - EXISTING WELL, BORING, AND TEST PIT LOCATION PROVIDED BY JOHN TUCKER CONSULTING.

REV.	DATE	DESCRIPTION

PROJECT TITLE:  
**CURRIN BROTHERS LANDFILL  
 SUNSET LAKE ROAD  
 LCID LANDFILL &  
 RECYCLING FACILITY**

DRAWING TITLE:  
**EXISTING CONDITIONS**

DESIGNED: S.A.S.	PROJECT NO: CURRIN 13-1
DRAWN: J.A.L.	SCALE: AS SHOWN
APPROVED: [Signature]	DATE: DEC. 2013
FILENAME: CURRIN-D0004	DRAWING NUMBER:
SHEET NUMBER: 1	S1





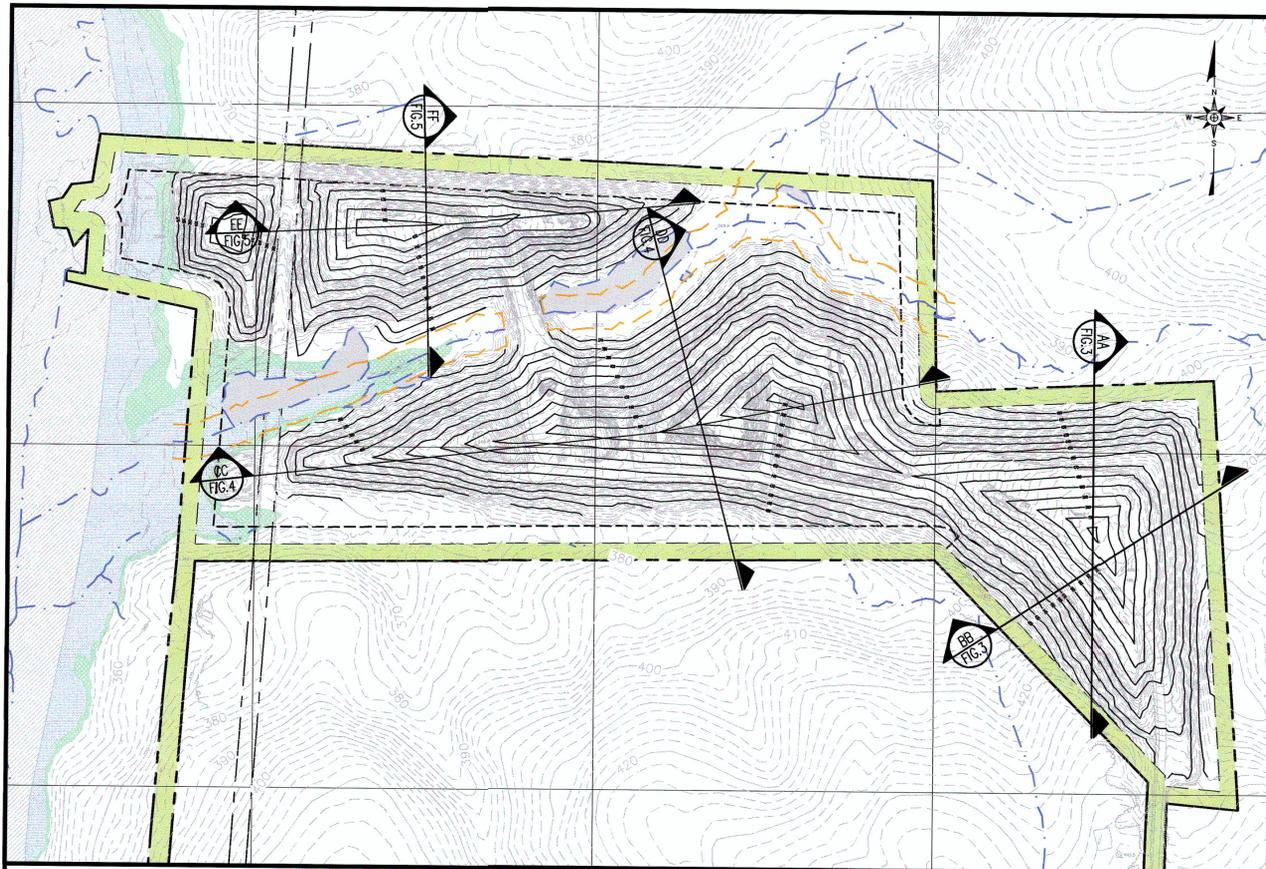
**PERMIT ISSUE**  
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PREPARED FOR:  
**CURRIN BROTHERS, INC.**  
 P.O. BOX 547  
 FUQUAY-VARINA, NC 27526

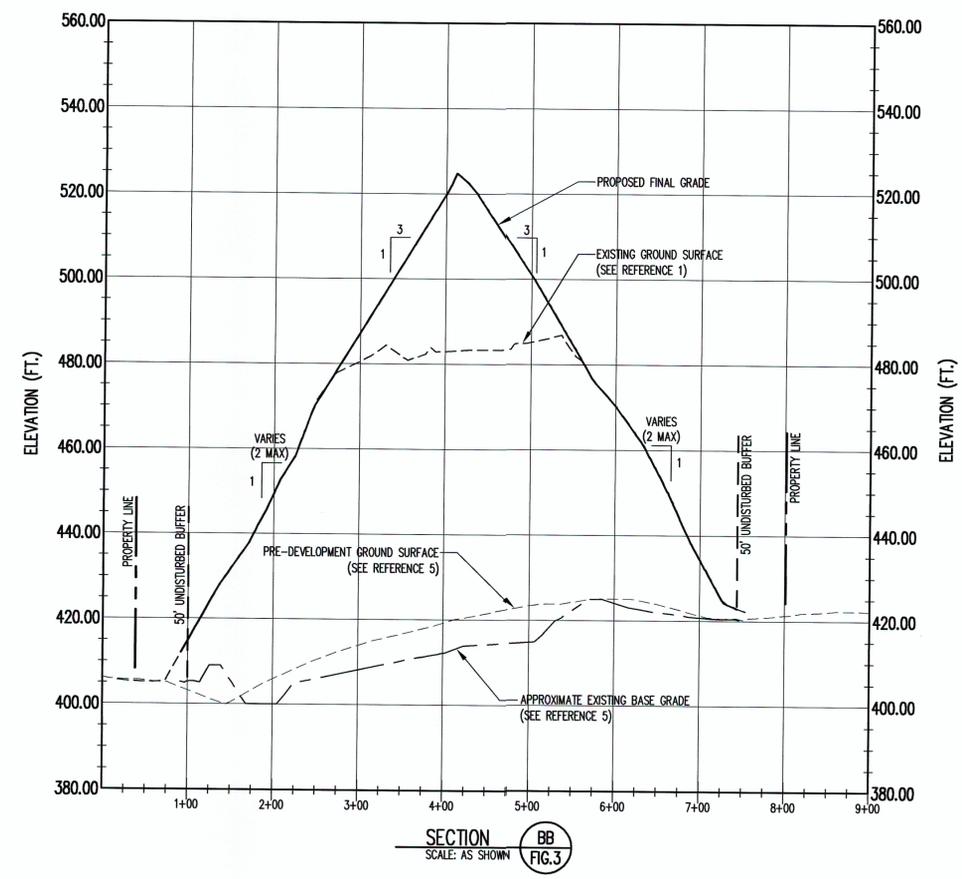
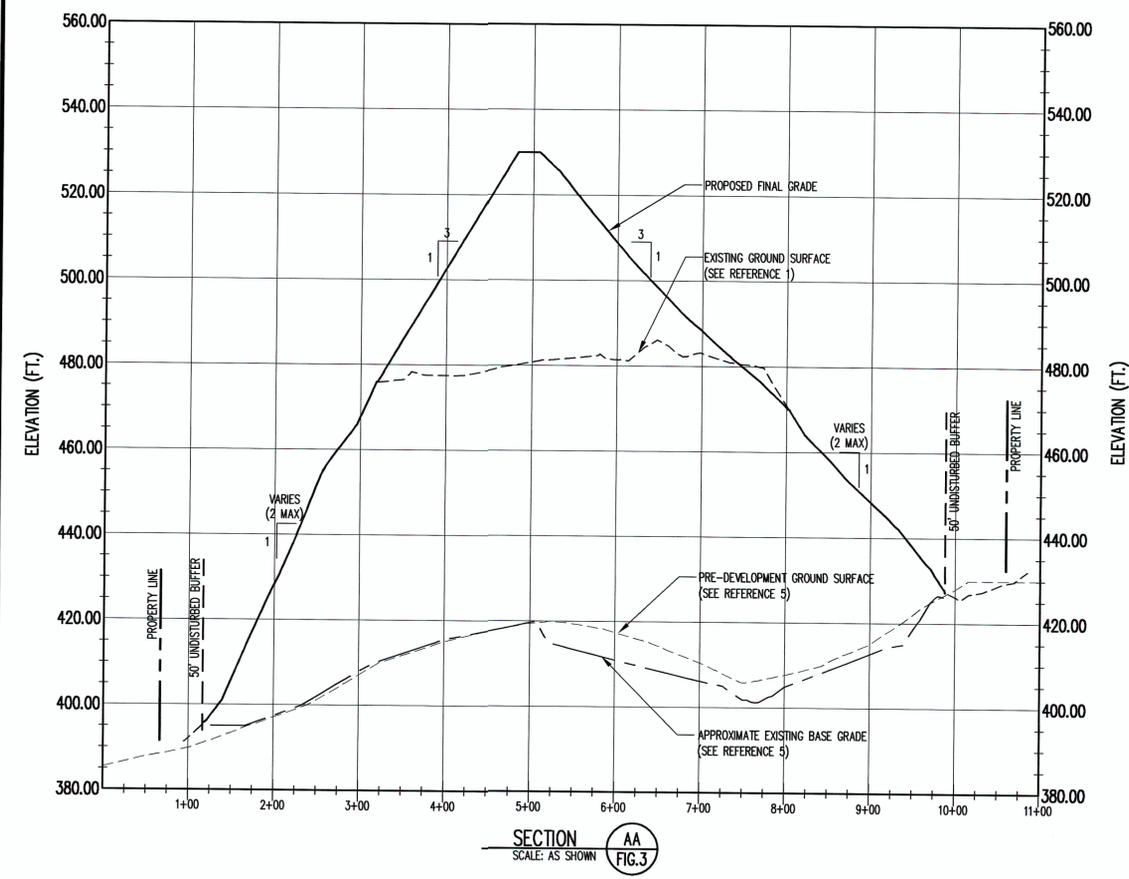
PREPARED BY:  
 NC LIC. NO. C-0828 (ENGINEERING)  
**SMITH+GARDNER**  
 ENGINEERS  
 14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577



- LEGEND - PLAN**
- 400 — EXISTING 10' CONTOUR (SEE REFERENCE 1)
  - - - EXISTING 2' CONTOUR (SEE REFERENCE 1)
  - - - PROPERTY LINE (SEE REFERENCE 2)
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  - - - 100 FOOT PROPERTY BUFFER
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  - █ FLOODWAY AREAS IN ZONE AE (NO ENCROACHMENT)



**SECTION LOCATION MAP**  
 SCALE: 1" = 250'



- LEGEND - PROFILE**
- - - EXISTING GROUND SURFACE (SEE REFERENCE 1)
  - - - PRE-DEVELOPMENT GROUND SURFACE (SEE REFERENCE 5)
  - - - PROPOSED FINAL COVER GRADE
  - - - APPROXIMATE EXISTING BASE GRADE (SEE REFERENCE 5)

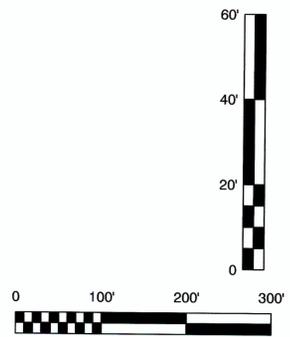
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  5. PRE-DEVELOPMENT GROUND SURFACE AND BASE GRADES FROM JOHN TUCKER CONSULTING.

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PROJECT TITLE:  
**CURRIN BROTHERS LANDFILL  
 SUNSET LAKE ROAD  
 LCID LANDFILL &  
 RECYCLING FACILITY**

DRAWING TITLE:  
**CROSS SECTIONS  
 (SHEET 1 OF 3)**

DESIGNED: S.A.S.	PROJECT NO: CURRIN 13-1
DRAWN: J.A.L.	SCALE: AS SHOWN
APPROVED: [Signature]	DATE: DEC. 2013
FILENAME: CURRIN-D0005	DRAWING NUMBER:
SHEET NUMBER: 3	DRAWING NUMBER: X1

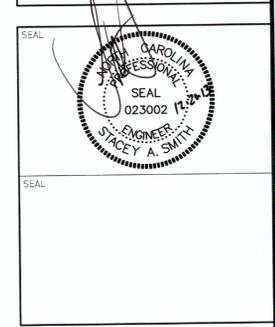


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PREPARED BY:  
 NC LIC. NO. C-0828 (ENGINEERING)  
**SMITH+GARDNER**  
 ENGINEERS  
 14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577



REV.	DATE	DESCRIPTION

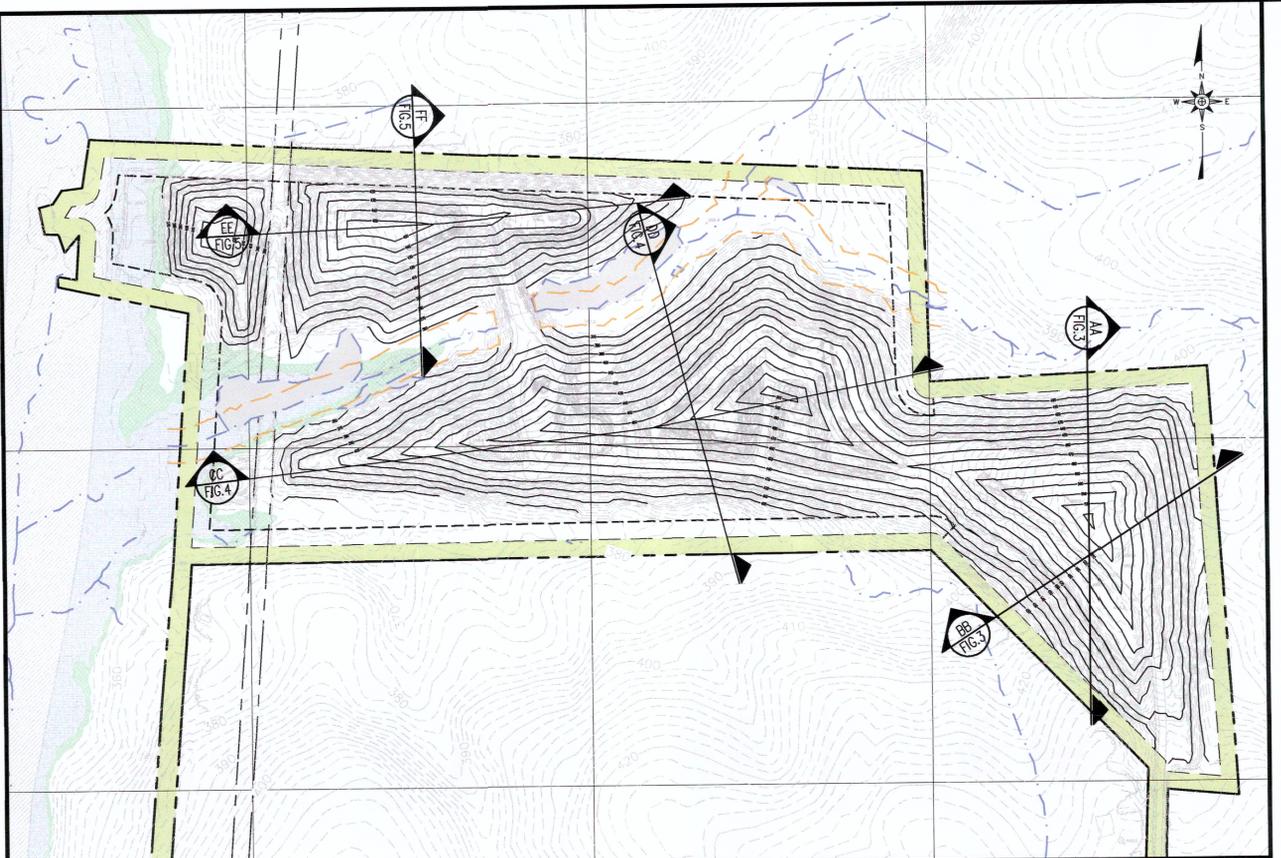
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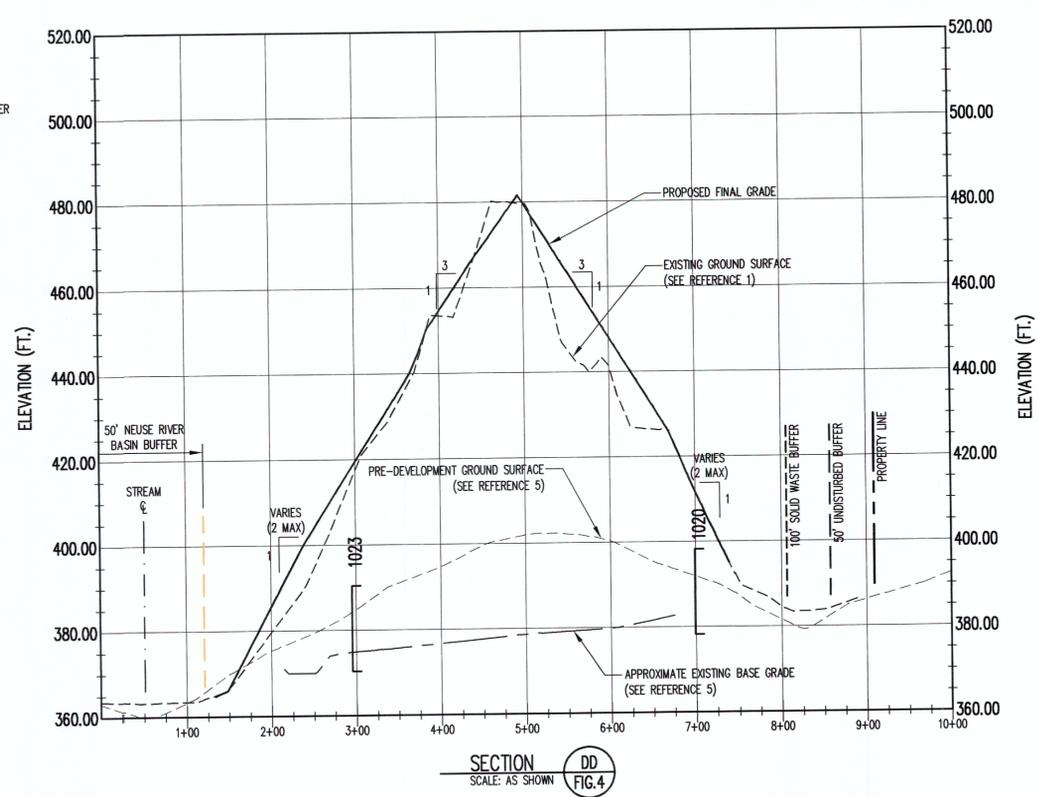
DRAWING TITLE:  
**CROSS SECTIONS  
 (SHEET 2 OF 3)**

DESIGNED: S.A.S. PROJECT NO: CURRIN 13-1  
 DRAWN: J.A.L. SCALE: AS SHOWN  
 APPROVED: DATE: DEC. 2013  
 FILENAME: CURRIN-D0005  
 SHEET NUMBER: DRAWING NUMBER:  
**4 X2**

- LEGEND - PLAN**
- 400' — EXISTING 10' CONTOUR (SEE REFERENCE 1)
  - 200' — EXISTING 2' CONTOUR (SEE REFERENCE 1)
  - - - PROPERTY LINE (SEE REFERENCE 2)
  - █ WAKE COUNTY 50 FOOT UNDISTURBED BUFFER
  - - - 100 FOOT PROPERTY BUFFER
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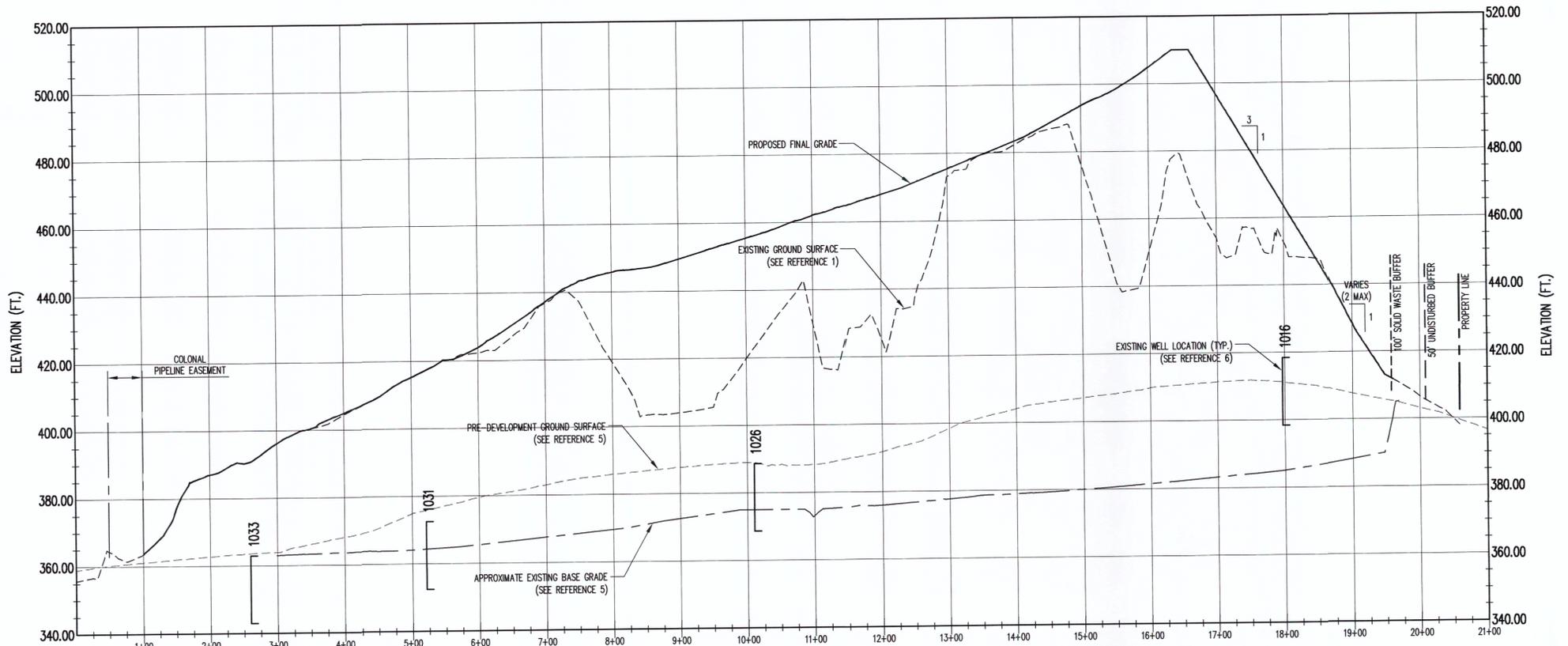
**SECTION LOCATION MAP**  
 SCALE: 1" = 250'



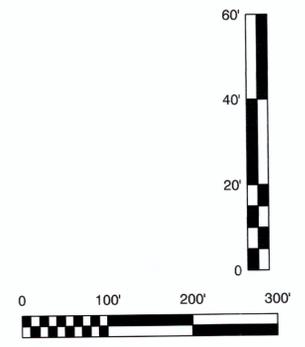
**SECTION DD**  
 SCALE: AS SHOWN  
**FIG.4**

- LEGEND - PROFILE**
- - - EXISTING GROUND SURFACE (SEE REFERENCE 1)
  - - - PRE-DEVELOPMENT GROUND SURFACE (SEE REFERENCE 5)
  - PROPOSED FINAL COVER GRADE
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**SECTION CC**  
 SCALE: AS SHOWN  
**FIG.4**

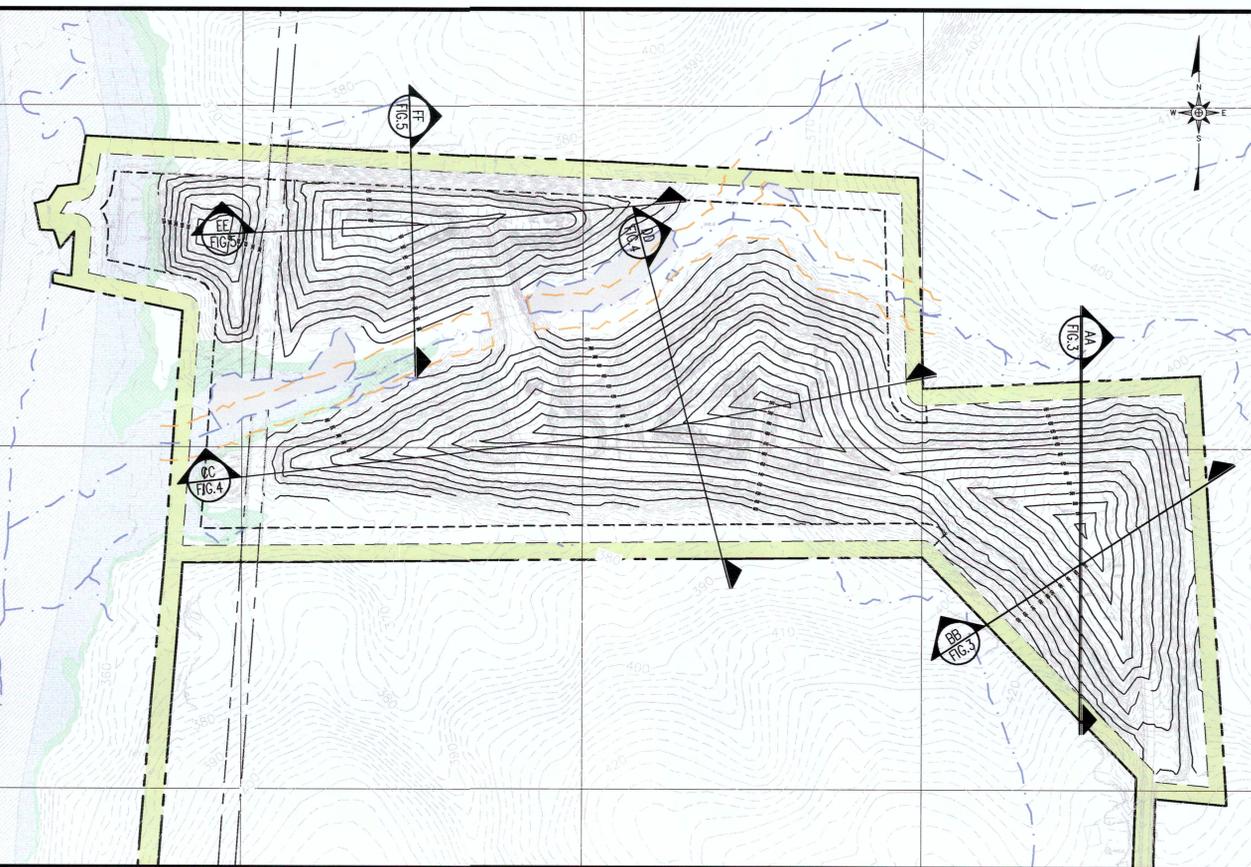


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PREPARED FOR:  
**CURRIN BROTHERS, INC.**  
P.O. BOX 547  
FUQUAY-VARINA, NC 27526

PREPARED BY:  
NC LIC. NO. C-3628 (ENGINEERING)

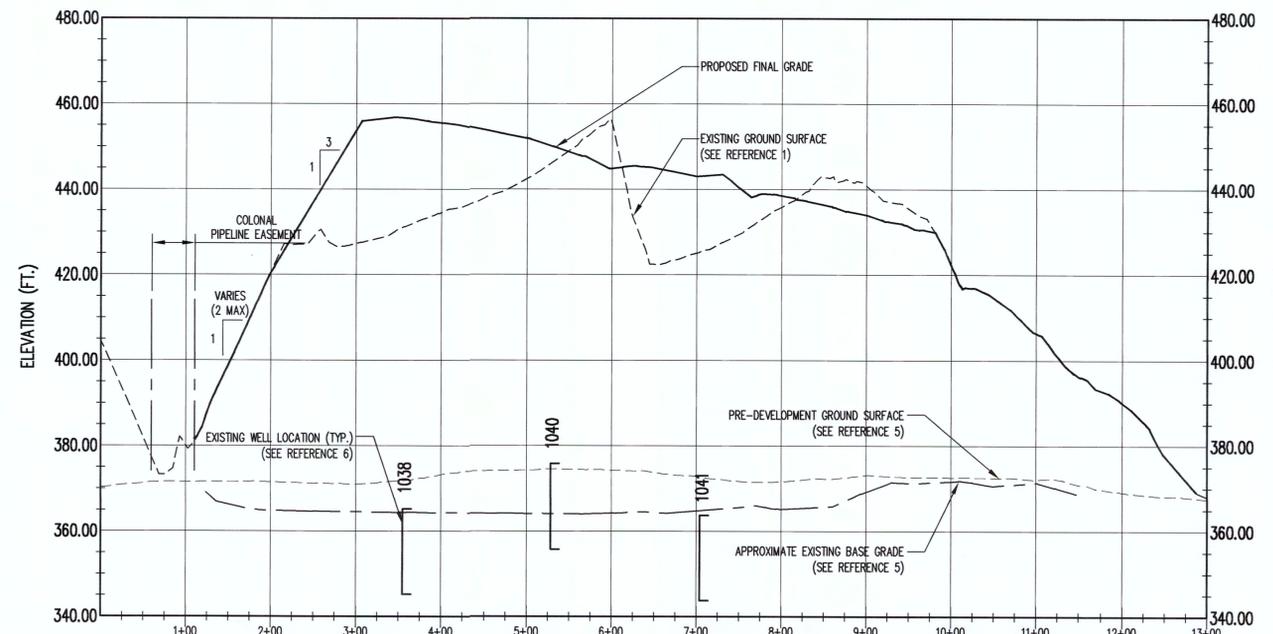
**SMITH+  
GARDNER**  
ENGINEERS  
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577



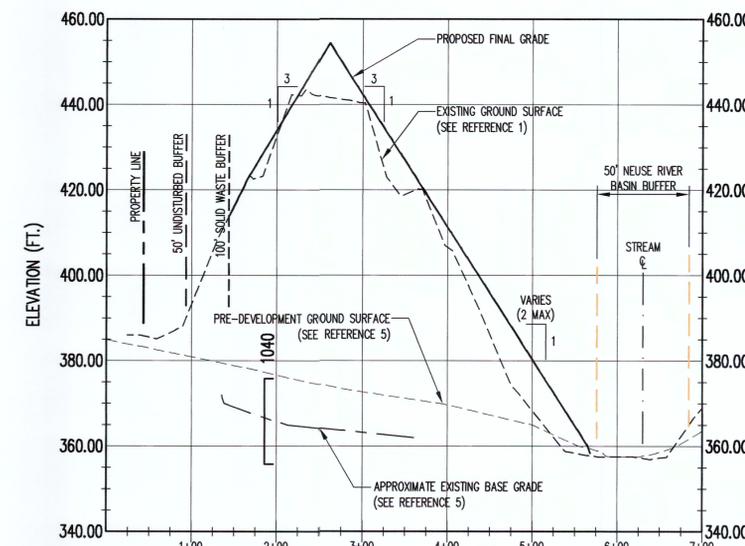
### LEGEND - PLAN

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SECTION LOCATION MAP  
SCALE: 1" = 250'



SECTION EE  
SCALE: AS SHOWN  
FIG. 5



SECTION FF  
SCALE: AS SHOWN  
FIG. 5

### LEGEND - PROFILE

- - - - - EXISTING GROUND SURFACE (SEE REFERENCE 1)
- - - - - PRE-DEVELOPMENT GROUND SURFACE (SEE REFERENCE 5)
- — — — — PROPOSED FINAL COVER GRADE
- - - - - APPROXIMATE EXISTING BASE GRADE (SEE REFERENCE 5)

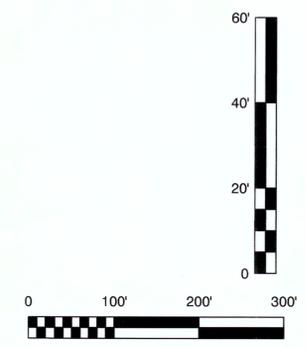
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PROJECT TITLE:  
**CURRIN BROTHERS LANDFILL  
SUNSET LAKE ROAD  
LCDI LANDFILL &  
RECYCLING FACILITY**

DRAWING TITLE:  
**CROSS SECTIONS  
(SHEET 3 OF 3)**

DESIGNED: S.A.S.	PROJECT NO. CURRIN 13-1
DRAWN: J.A.L.	SCALE: AS SHOWN
APPROVED: 	DATE: DEC. 2013
FILENAME: CURRIN-0005	DRAWING NUMBER: 5 X3







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

Pat McCrory  
 Governor

Thomas A. Reeder  
 Director

John E. Skvarla, III  
 Secretary

September 27, 2013

Currin Brothers Inc.  
 1810 Coley Road  
 Durham, NC 27703

**Subject: Surface Water Determination Letter**  
 NBRRO#13-252  
 Wake County

Determination Type	
Buffer Call	Isolated or EIP Call
<input checked="" type="checkbox"/> Neuse (15A NCAC 2B .0233) <input type="checkbox"/> Tar-Pamlico (15A NCAC 2B .0259) <input type="checkbox"/> Jordan (15A NCAC 2B .0267)	<input type="checkbox"/> Ephemeral/Intermittent/Perennial Determination <input type="checkbox"/> Isolated Wetland Determination

Project Name: Currin Brothers Inc. Landfill-4525 Sunset Lake Road, Apex

Location/Directions: Subject property is a private developed lot at project address

Subject Stream: UT to Middle Creek, Middle Creek

**Determination Date: September 27, 2013**      **Staff: Sara Knies**

Feature	E/I/P*	Not Subject	Subject	Start@	Stop@	Soil Survey	USGS Topo
SA	I		X	Throughout		X	
SB	P		X	Throughout		X	X
SC	P		X	Throughout		X	X
SD	Not Present	X				X	
SE	P		X	Throughout		X	
SF	E	X		Throughout		X	

\*E/I/P = Ephemeral/Intermittent/Perennial

Explanation: The feature(s) listed above has or have been located on the Soil Survey of Wake County, North Carolina or the most recent copy of the USGS Topographic map at a 1:24,000 scale. Each feature that is checked "Not Subject" has been determined not to be a stream or is not present on the property. Features that are checked



"Subject" have been located on the property and possess characteristics that qualify it to be a stream. There may be other streams located on your property that do not show up on the maps referenced above but, still may be considered jurisdictional according to the US Army Corps of Engineers and/or to the Division of Water Resources (DWR).

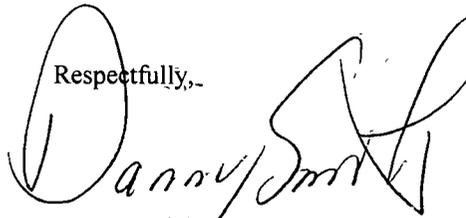
**This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by the DWR or Delegated Local Authority may request a determination by the Director. An appeal request must be made within sixty (60) days of date of this letter or from the date the affected party (including downstream and/or adjacent owners) is notified of this letter. A request for a determination by the Director shall be referred to the Director in writing c/o Karen Higgins, DWR WeBSCaPe Unit, 1650 Mail Service Center, Raleigh, NC 27699.**

**This determination is final and binding unless, as detailed above, you ask for a hearing or appeal within sixty (60) days.**

**The owner/future owners should notify the Division of Water Resources (including any other Local, State, and Federal Agencies) of this decision concerning any future correspondences regarding the subject property (stated above). This project may require a Section 404/401 Permit for the proposed activity. Any inquiries should be directed to the Division of Water Resources (Central Office) at (919)-807-6300, and the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.**

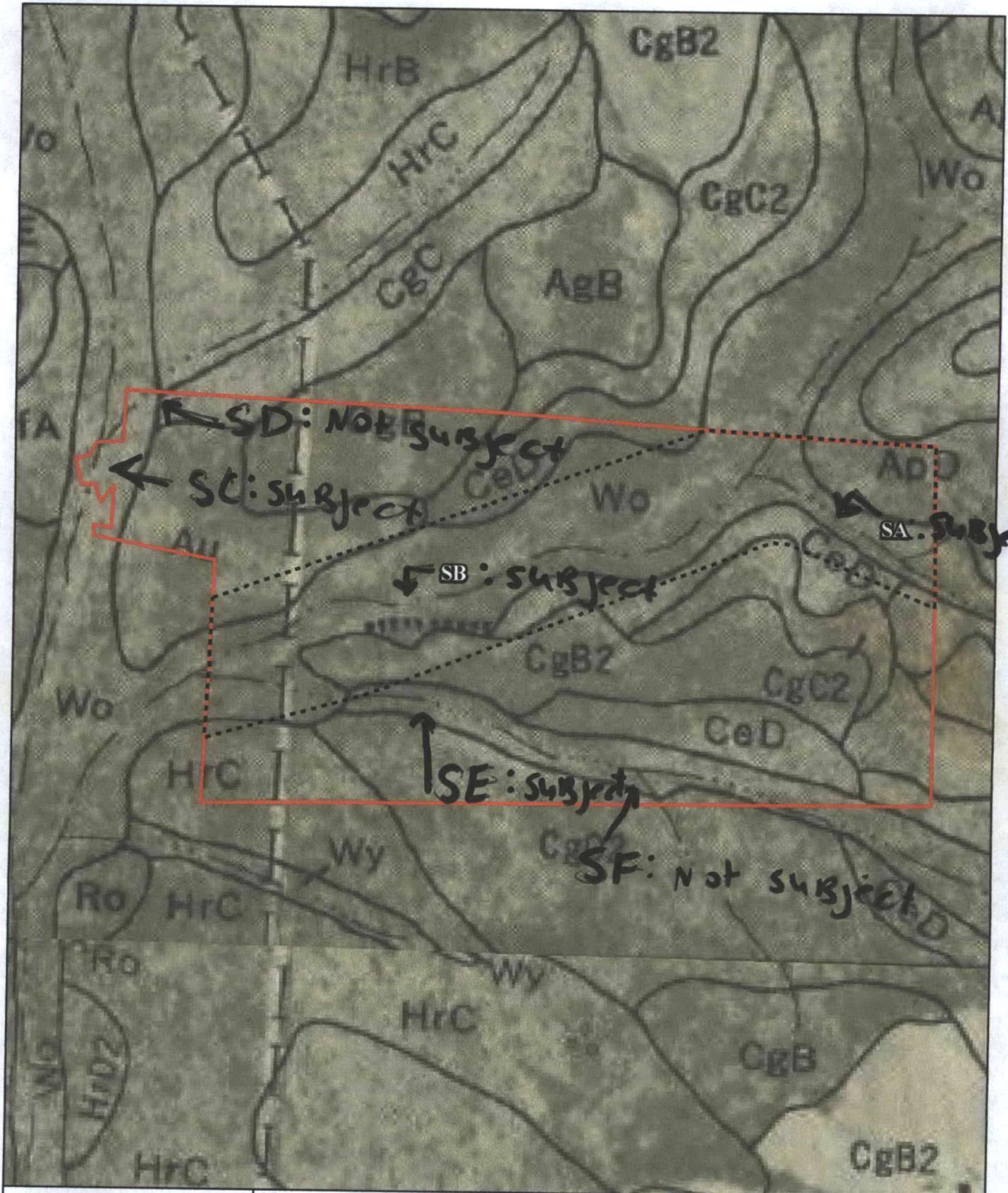
If you have questions regarding this determination, please feel free to contact Sara Knies at (919) 791-4200.

Respectfully,



Danny Smith  
Regional Supervisor

cc: RRO/SWP File Copy



**CAROLINA ECOSYSTEMS, INC.**  
 3040 NC 42 West; Clayton NC, 27520  
 P:(919)-606-9145 F:(919)-585-5570

September 2013

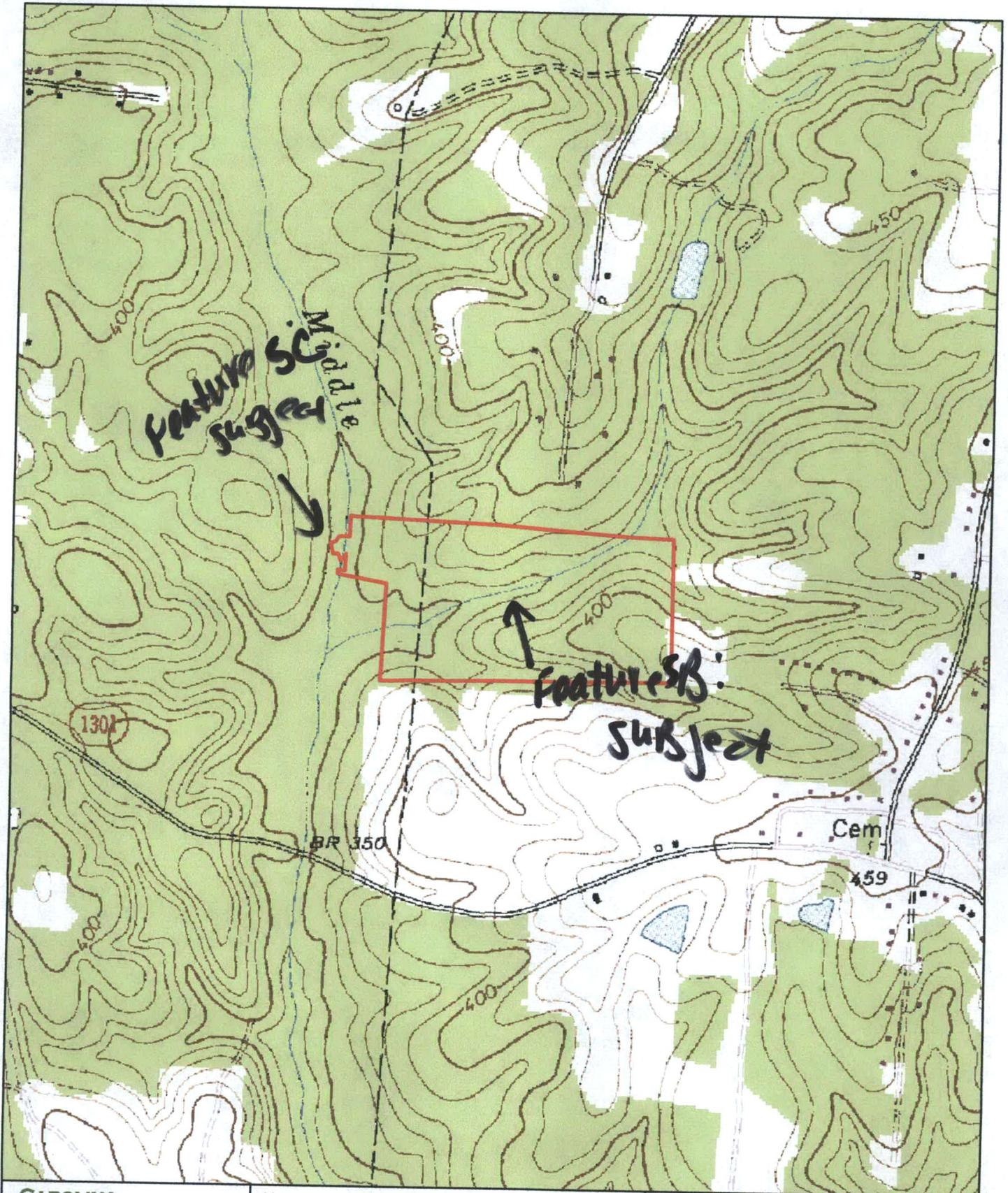
N

Feet  
0 400

Site Boundary  
Study Area

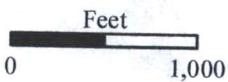
**Figure 3: NRCS Soil Survey**  
**Currin Brothers Landfill**  
**Smith Gardner Engineers Inc.**  
**Wake County, NC**

9.27.13 SK



**CAROLINA ECOSYSTEMS, INC.**  
 3040 NC 42 West; Clayton NC, 27520  
 P:(919)-606-9145 F:(919)-585-5570

September 2013



 Site Boundary

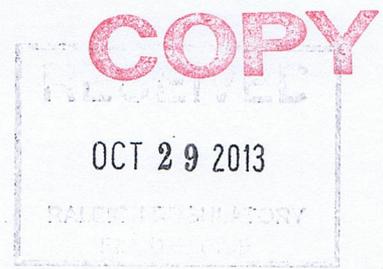
Data Source: Apex 1:24000 USGS Topographic Quadrangle Map

**Figure 2: USGS Topographic Map**

**Currin Brothers Landfill  
 Smith Gardner Engineers Inc.  
 Wake County, NC**

9.27.13 SVK





**ATTACHMENT**

**PRELIMINARY JURISDICTIONAL DETERMINATION FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):** *December 2, 2013*

**B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:**

Allen Currin  
1810 Coley Road  
Durham, NC 27703

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER:** *Wilmington, Currin Landfill*  
*SAW-2013-02211*

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:**  
Currin Brothers Landfill: LCID Landfill and Recycling Center landfill expansion.  
**(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)**

State: NC County/parish/borough: Wake City: Apex  
Center coordinates of site (lat/long in degree decimal format): Lat. 35.6851° N, Long. -78.8190° E.

Universal Transverse Mercator:

Name of nearest waterbody: Middle Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 2683 linear feet: width (ft) and/or acres.

Cowardin Class: Riverine

Stream Flow: Perennial

Wetlands: 2.21 acres.

Cowardin Class: Forested

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: None

Non-Tidal: None

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

Office (Desk) Determination. Date:

Field Determination. Date(s): *11/14/13*

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party

who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "*may be*" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

**SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply**

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:

Corps navigable waters' study:

U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: 1:24000 Apex.

USDA Natural Resources Conservation Service Soil Survey.

Citation: Wake County: sheets 75 and 83 .

National wetlands inventory map(s). Cite name:

State/Local wetland inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

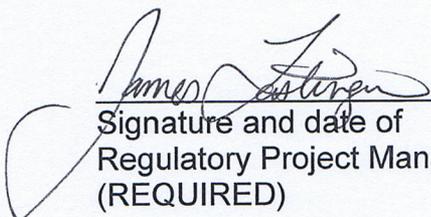
Photographs:  Aerial (Name & Date): NAIP (2012).

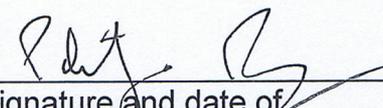
or  Other (Name & Date):

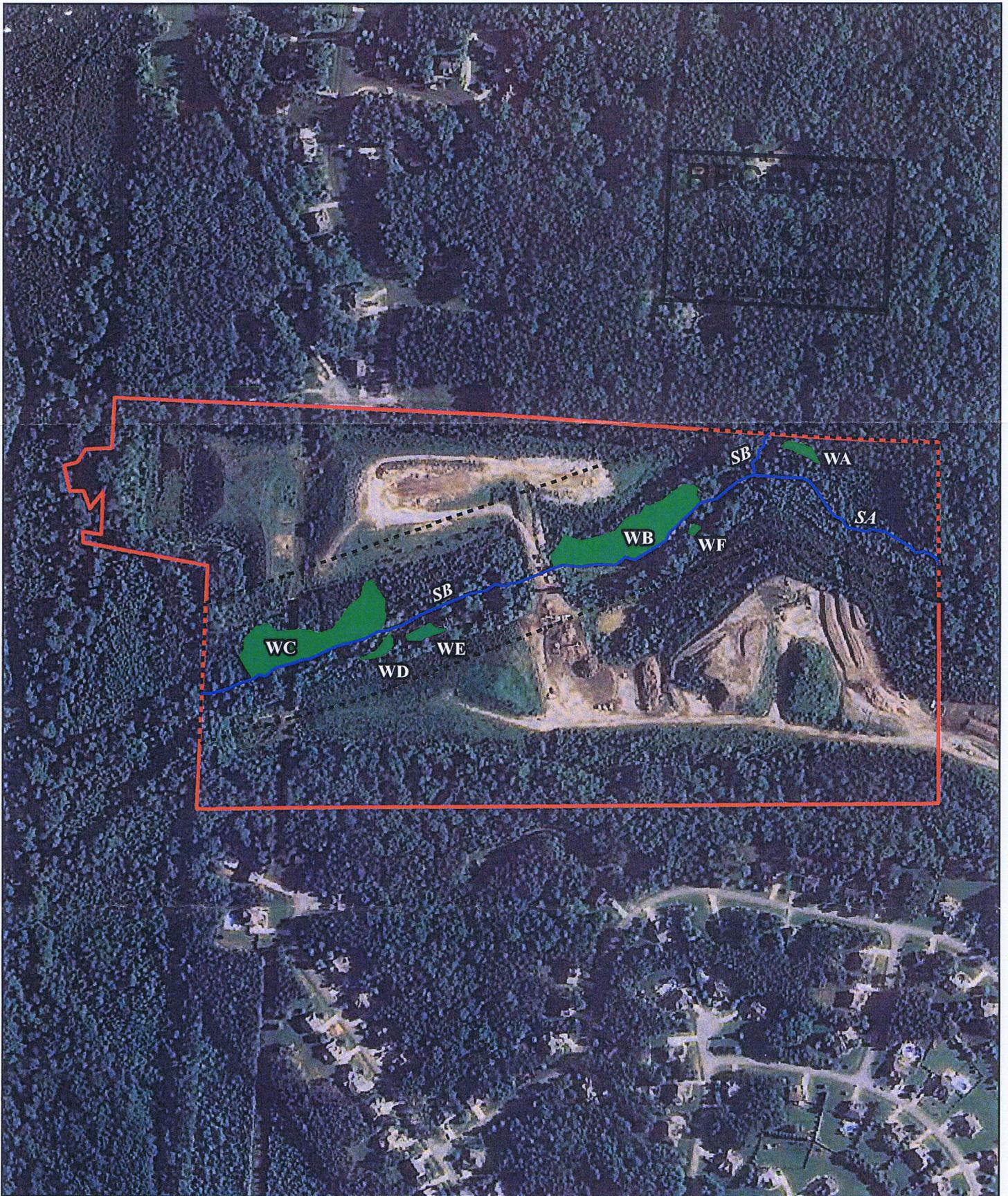
Previous determination(s). File no. and date of response letter:

Other information (please specify):

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

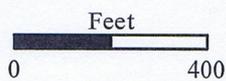
 12/2/13  
Signature and date of  
Regulatory Project Manager  
(REQUIRED)

  
Signature and date of  
person requesting preliminary JD  
(REQUIRED, unless obtaining  
the signature is impracticable)



**CAROLINA ECOSYSTEMS, INC.**  
 3040 NC 42 West; Clayton NC, 27520  
 P:(919)-606-9145 F:(919)-585-5570

September 2013



Date Source: NAIP 2012 Aerial Photography

-  Site Boundary
-  Study Area
-  Streams
-  Wetlands

**Figure 4: Jurisdictional Features**

**Currin Brothers Landfill  
 Smith Gardner Engineers Inc.  
 Wake County, NC**