

# ROBERT M. CHILES, P.E.

ENGINEERS, CONSULTANTS  
&  
MARINE SURVEYORS

417-A BROAD ST.  
P.O. BOX 3496  
NEW BERN, NORTH CAROLINA 28564-3496

August 9, 2005

BUSINESS: 252-637-4702  
FAX: 252-637-3100  
office@robertmchilespe.com

Certified Mail Receipt No. 7004 2510 0000 3103 6536

Mr. Ed Mussler, P.E.  
NCDENR, DWM, Solid Waste Section  
1646 Mail Service Center  
Raleigh, NC 27699-1646



Enclosures: (1) 4 copies, R.J. Bushhogging, Inc. Land Clearing and Interim Erosion Control (LCID) Landfill Permit Application Data and LCID Operation Criteria, prepared by Robert M. Chiles, P.E., revised August 9, 2005.

Dear Mr. Mussler:

We present the enclosures and following information in response to the Solid Waste Section's preliminary review and Mr. Jim Barber's July 20, 2005 response to the LCID permit application we submitted on behalf of Mr. Robert E. Jones, owner of R.J. Bushhogging, Inc.

The following addresses the comments and requests as they are presented in Mr. Barber's letter and where applicable, describes revisions that were made to the enclosures. Items from Mr. Barber's letter not specifically addressed below are either satisfied by the response to another item, already included in the LCID submission, or not applicable and do not require a response.

564(1) - The originally provided portion of FEMA FIRM panel 55403, dated July 2004 is replaced with a portion of FEMA FIRM panel 225, dated May 1987. The older FIRM does not include the aerial background image and is much easier to read. The site is not located in the 100-year floodplain, and a note indicating that the project site is located in Zone X (according to the 2004 FIRM) was included on the originally submitted drawings and remains on the revised drawings.

564(2) and (3) - Our firm did not perform an endangered species survey prior to the timbering of the project site, as the site was timbered prior to our being hired by R.J. Bushhogging, Inc. The previously timbered area is indicated on the originally submitted drawings by the text "trees removed: stumps and logging debris remaining."

564(4) and (5) - We have contacted Mrs. Renee Gledhill-Earley at the State Historic Preservation Office (SHPO) to inquire why we have not received a response to our April 28 letter. After searching her files, she was unable to find any indication that her office received our letter. On August 2, 2005, we transmitted another copy of the letter, the return receipts, a portion of Quadrangle Jasper, and a completed SHPO borrow pit/waste area form to Mrs. Gledhill-Earley via facsimile. We requested that she direct a copy of her response to you for your information. If you do not receive a copy directly from her, contact us and we will forward a copy of the response when we received it.

564(6) - As indicated by the note contained on the originally submitted drawings, there are no wetlands within the portion of the property that contains the project site. The introduction contained in the LCID submission indicates that the project site is located in a 10 acre portion of a 20 acre property. Although not shown in the drawings, the property extends north-westerly to the "Bachelor Creek low ground." We have not determined if the entire property is without wetlands, and phrased our note to reflect the limit of our investigation.

MECHANICAL, CIVIL, AND MARINE ENGINEERING  
FORENSIC ENGINEERING AND FAILURE ANALYSIS

COMMERCIAL, INDUSTRIAL, MARINE AND RAILROAD FACILITIES DESIGN

MARINE HYDROGRAPHIC AND LAND SURVEYS  
BOUNDARY SURVEYS AND MAPPING SERVICE

564(7) - We neglected to indicate that R.J. Bushhogging, Inc. operates two sand mines in Craven County, and suitable soils for LCID cover can be provided from those sites if necessary. The LCID submission introduction is revised to include this information.

564(8)(a) and (c) - We have prepared a stormwater management permit application and an erosion control plan for this project and have presented it to Mr. Jones for submission to NCDENR for their approval and permitting. Future correspondence regarding these permits should be directed to Mr. Robert Jones, owner of R.J. Bushhogging, Inc.

564(9)(b) - Drawing sheet 1 indicating the approximate boundary of the <2 acre LCID is revised to highlight portions of the existing LCID material that shall be removed to establish the required 100-foot buffer between the fill and the property line. Drawing sheet 2 indicating the proposed expansion is revised to depict 100-foot wide buffers on all sides of the LCID.

565(1)(c) - On August 8 we returned to the site and inspected a test pit excavated to a depth of 8 feet below the original grade. At 9AM the top of the ground water was located 7.4 feet below the original ground surface elevation of the proposed site. At 12PM the top of the ground water was located 7 feet below the original ground surface elevation of the proposed site. Wet soil was observed in the test pit at a depth of 5 feet below the existing grade. Section III(B) of the LCID submission is revised to include this additional information. Drawing 1 is revised to indicate the location of the test pit.

565(1)(d) - Section III(A) of the originally submitted LCID submission contains the language of 15A NCAC 13B.0564.

565(3)(a) - Sheets 1 and 2 are revised to include the bearings and distances of the property lines depicted on the drawings.

565(3)(b) - There are no easements or rights of way within the project site.

565(3)(d) - Sheets 1 and 2 are revised to include the existing gates at the entrances to the project site.

565(3)(f) - There are no streams, creek, rivers, ponds or other waters or impoundments within the project site other than the indicated existing property line ditch.

565(3)(i) - The contour intervals depicted on the originally submitted drawing sheet 1 are based upon the USGS Quadrangle Jasper, and verified by field observation. A note indicating this was included on the originally submitted drawings. Although a topographic survey was not performed, observations made at the project site corroborate the general topography indicated on the Jasper quadrangle. Contours do not appear in the expansion area because the area is flat, is located between elevation 20 and 25, and would require a contour interval of 1 foot or less to indicate the existing topography as it was observed.

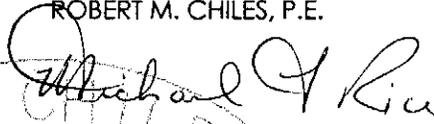
565(3)(l) - There are no surface water control features proposed other than the specified 3H:1V side slopes and vegetative cover.

565(3)(o) - The cross sections depicted in sheet 3 are revised to label the existing ground (assumed to be elevation 20), and the typical side slopes. There is no proposed excavation to depict.

We have presented Mr. Jones with completed erosion and sediment control plan, and stormwater management permit application packages, and tasked him with the responsibility of submitting that information. We have pointed out to Mr. Jones the requirement contained in your letter regarding the portions of the existing LCID material that will have to be relocated to establish the required 100-foot buffers.

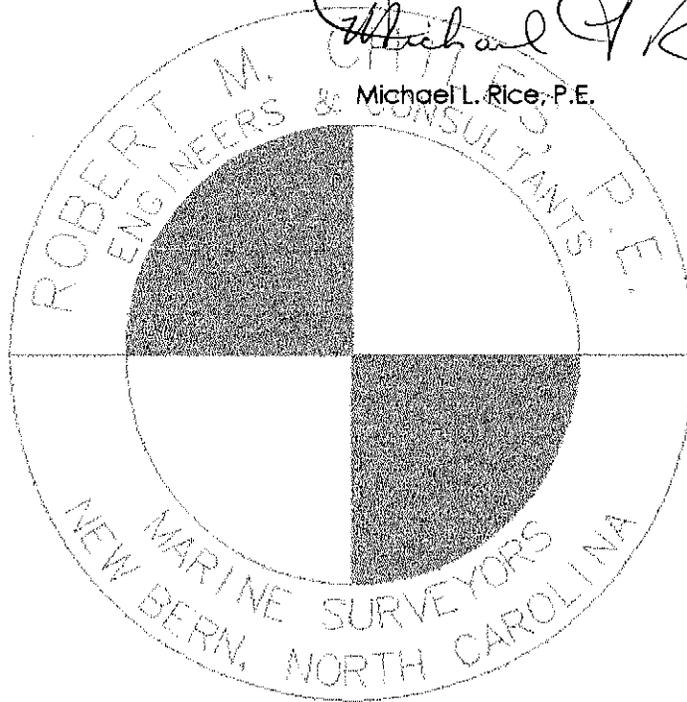
This response concludes our representation of R.J. Bushhogging, Inc. with respect to this LCID application. Should you discover shortcomings in our response, require additional information, or have any questions regarding our response, contact us your convenience. Any other correspondence should be directed to R.J. Bushhogging, Inc.

Very truly yours,  
ROBERT M. CHILES, P.E.



Michael L. Rice, P.E.

cc: Mr. Robert Jones.



# R.J. Bushhogging, Inc.

## Land Clearing and Inert Debris (LCID) Landfill

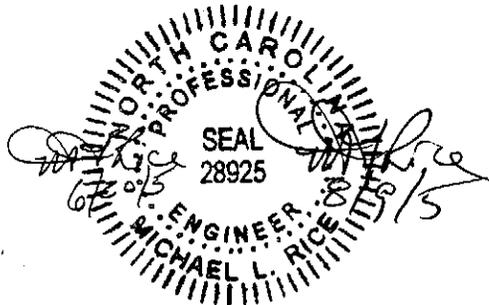
### Permit Application Data and LCID Operation Criteria

Number 8 Township  
Craven County  
New Bern, N.C.

For

Mr. Robert E. Jones  
175 High School Road  
Vanceboro, NC 28586  
(252) 244-2805

Prepared By



Michael L. Rice, P.E.

**ROBERT M. CHILES, P.E.**

P.O. Box 3496  
New Bern, N.C.  
(252) 637 - 4702  
June 20, 2005

*Revised 8/9/15*



# INDEX

## I. INTRODUCTION

## II. LOCATION INFORMATION

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- B. Road Map with Approximate Location Indicated.
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- A. 15A NCAC 13B.0564: Siting Criteria for Land Clearing and Inert Debris (LCID) Landfills.
- B. Seasonal High Water Table Elevation Determination.
- C. Map Showing Relative Positions of LCID Site and Water Level Observation Wells NC138 and NC196.
- D. Copy, Well Descriptions and Water-Level Measurements for Wells NC138, and NC196.
- E. Copy, Zoning Consistency Letter from Craven County Office of Planning and Community Development.
- F. Copy, RMC, PE letter to the N.C. Department of Cultural Resources, State Historic Preservation Office and postal receipts: (No Response Received).
- G. Copy, Letter from the N.C. National Heritage Program, NCDENR.

## IV. OPERATION PLAN

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- B. 15A NCAC 13B.0566: Operational Requirements for Land Clearing and Inert Debris (LCID) Landfills.
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- A. Approximate Boundary for the Less than 2 acre LCID Landfill Site for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.
- B. Proposed Expansion to a 4.1 Acre LCID Landfill Site for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.
- C. Section and Isometric Views of the Proposed LCID Topographic Contours for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.
- D. Area Within 1/4 Mile of the 4.1 Acre LCID Landfill Site for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.

## I. INTRODUCTION

R. J. Bushhogging, Inc. is owned and operated by Mr. Robert E. Jones. The decreasing availability of disposal sites and the increasing cost of disposal for the land clearing debris generated by his business prompted Mr. Jones to provide his own disposal site.

Mr. Jones owns a 20± acre tract of land located on NCSR 1243 (Sanders Lane) within which a less-than-two-acres Land Clearing and Inert Debris (LCID) Landfill is currently in operation. Expansion to a 4.05± acre LCID is proposed. The proposed expansion is located in a portion of the property that contains approximately 10.05 acres of the total tract. There are no other facilities located on the project site.

The proposed landfill will incorporate an existing less-than-two-acre land clearing and inert debris landfill that is currently being operated on the site. The landfill shall be operated entirely above the existing ground level, and this should ensure the required vertical separation between the landfill and the seasonal high groundwater table.

R.J. Bushhogging, Inc. currently operates two sand mines in Craven County, and will soon begin operations at a sand mine located in Carteret County. Cover soils for the LCID can be provided from these sites if insufficient quantities are generated by the land clearing portions of the business.

More specific information regarding the location, siting and operating requirements, supporting data and drawings follow.

II. LOCATION INFORMATION A.

(Page 1 of 4)

Work Flow No: 9999-017E238

Craven NC - Document Stamp  
Becky Thompson, Register of Deeds  
Date 01/06/2004 Time 12:44:16 1 of 4 Pgs  
No: 2004-00086071  
Book 2134 Page 80  
Fee Amt : 23.00  
Excise Tax: 96.00

Excise Tax \$ \_\_\_\_\_ Recording Time, Book and Page \_\_\_\_\_  
Tax Lot No. \_\_\_\_\_ Parcel Identifier No. 7-225-075 part  
Verified by \_\_\_\_\_ County on the \_\_\_\_\_ day of \_\_\_\_\_, 2003  
by \_\_\_\_\_  
Mail after recording to \_\_\_\_\_  
This instrument was prepared by WILLIAM H. HOLLONS  
Brief Description for the index

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 5 day of <sup>Jan</sup>December, 2003, by and between

GRANTOR	GRANTEE
<b>KENNETH E. ROOMER and wife, HELENIA J. ROOMER</b>	<b>ROBERT JONES</b>

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g., corporation or partnership.

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 the City of \_\_\_\_\_, Number Eight Township, Craven County, North Carolina and more particularly described as follows:

SEE EXHIBIT "A" ATTACHED HERETO



EXHIBIT "A"

All of that tract or parcel of land lying and being in Craven County, North Carolina, in Number Eight Township, and more particularly described as follows:

Beginning at a point in the western right of way line of NCSR 1243 at its intersection with the Fred Ricks northern line, and running thence North 57 degrees 05 minutes West 1338.98 feet to set iron pipe, thence North 58 degrees 01 minute West 751.39 feet to an oak stump, thence continuing North 58 degrees 01 minute West 135.61 feet to the Bachelor Creek low ground, thence North 3 degrees 35 minutes East 587.79 feet to the center of Dogwood Branch, thence South 52 degrees 37 minutes East 286.02 feet, thence North 38 degrees 15 minutes East 170.0 feet, thence South 51 degrees 42 minutes East 357.23 feet, thence South 31 degrees 28 minutes West 270.16 feet; thence South 13 degrees 00 minutes East 161.44 feet, thence South 57 degrees 33 minutes East 599.70 feet, thence North 30 degrees 05 minutes East 415.0 feet, thence South 56 degrees 05 minutes East 145.45 feet, thence South 34 degrees 35 minutes East 607.0 feet, thence South 66 degrees 58 minutes East 175.0 feet to the western right of way line of NCSR 1243, thence with the western right of way line of NCSR 1243 South 23 degrees 02 minutes West 446.80 feet to the Fred Ricks line, the place of beginning. Being Lot 2, containing 24.75 acres according to a plat entitled "Survey for David M. & Alice H. Koonce and Mitchell & Lillie H. Koonce", prepared by Lonnie Nelms, Jr., R.L.S. L-1529, on January 31, 1987, reference to which is hereby made.

SAVING AND EXCEPTING from the above described tract the following six (6) parcels:

- 1) Parcel described in the deed recorded in Book 1159 at Page 448 of the Craven County Registry.
- 2) Parcel described in the deed recorded in Book 1248 at Page 733 of the Craven County Registry.
- 3) Parcel described in the deed recorded in Book 1565 at Page 771 of the Craven County Registry.
- 4) Parcel described in the deed recorded in Book 1922 at Page 143 of the Craven County Registry.
- 5) Parcel described in the deed recorded in Book 1976 at Page 626 of the Craven County Registry.
- 6) Parcel described as follows:

Beginning at a point located the following courses and distances from the intersection of the centerline of N.C.S.R. #1243 and the southwestern right of way line of the "30' ACCESS ROAD" as shown on the map for Kenneth Koonce by Southern Boundaries dated December 19, 2003: North 57 degrees 09 minutes 45 seconds West 859.00 feet, North 57 degrees 05 minutes 05 seconds West 214.56 feet, North 56 degrees 52 minutes 50 seconds West 95.78 feet and North 31 degrees 49 minutes 15 seconds East 30.01 feet to the point of beginning, THENCE North 56 degrees 52 minutes 50 seconds East 175.00 feet; thence North 31 degrees 49 minutes 15 seconds East 125.00 feet; thence

Date 01/06/2004 Time 12:44:16 4 of 4 Pgs  
No: 2004-00085071

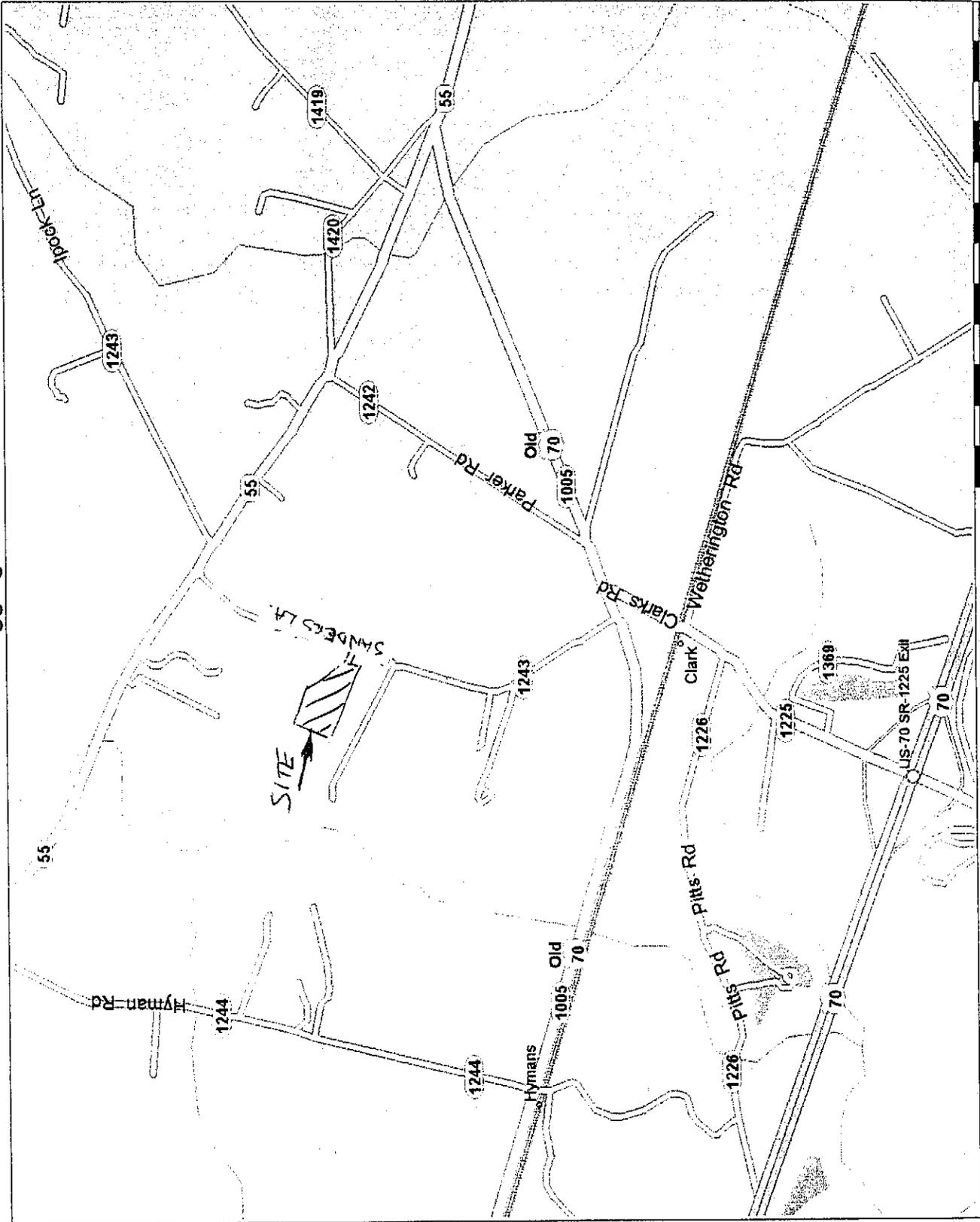
South 56 degrees 52 minutes 50 seconds East 175.00 feet;  
thence South 31 degrees 49 minutes 15 seconds West 125.00  
feet to the point of beginning, containing 0.50 acre in  
accordance with the above referred to map by Southern  
Boundaries. **Book 2134 Page 83**

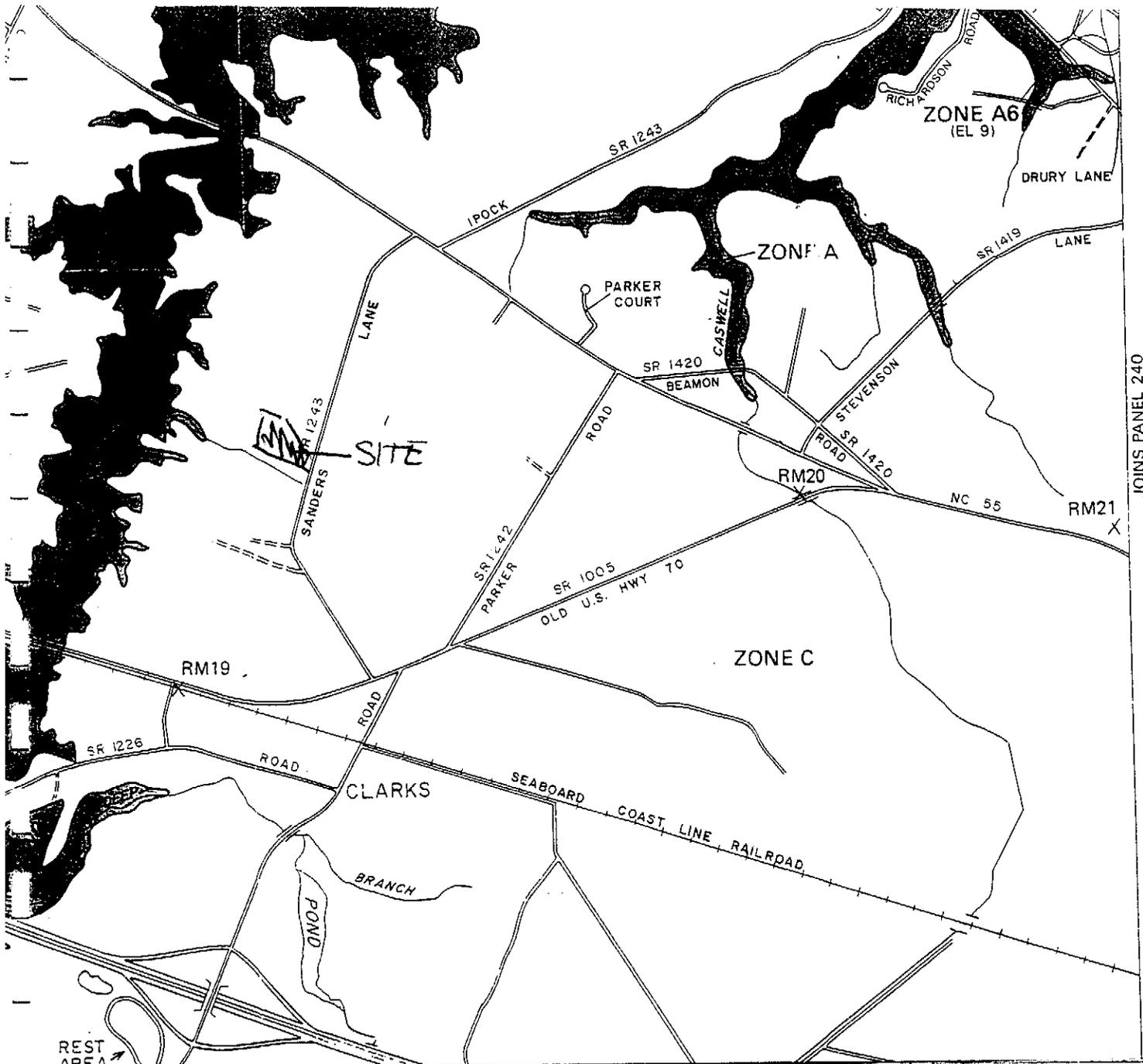
ALSO CONVEYED is a non-exclusive right of ingress, regress and  
egress to and from the tract conveyed herein and N.C.S.R. #1243  
over and upon the roadway denoted as "30' ACCESS ROAD" on the map  
recorded in Plat Cabinet G at Slide 31-B of the Craven County  
Registry.

FURTHER EXCEPTED from this conveyance are any tobacco allotments  
through any governmental agency or entity.

# II LOCATION INFORMATION B

RJ Bushhogging Inc. LCID





NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

CRAVEN COUNTY,  
NORTH CAROLINA  
(UNINCORPORATED AREAS)

PANEL 225 OF 530  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

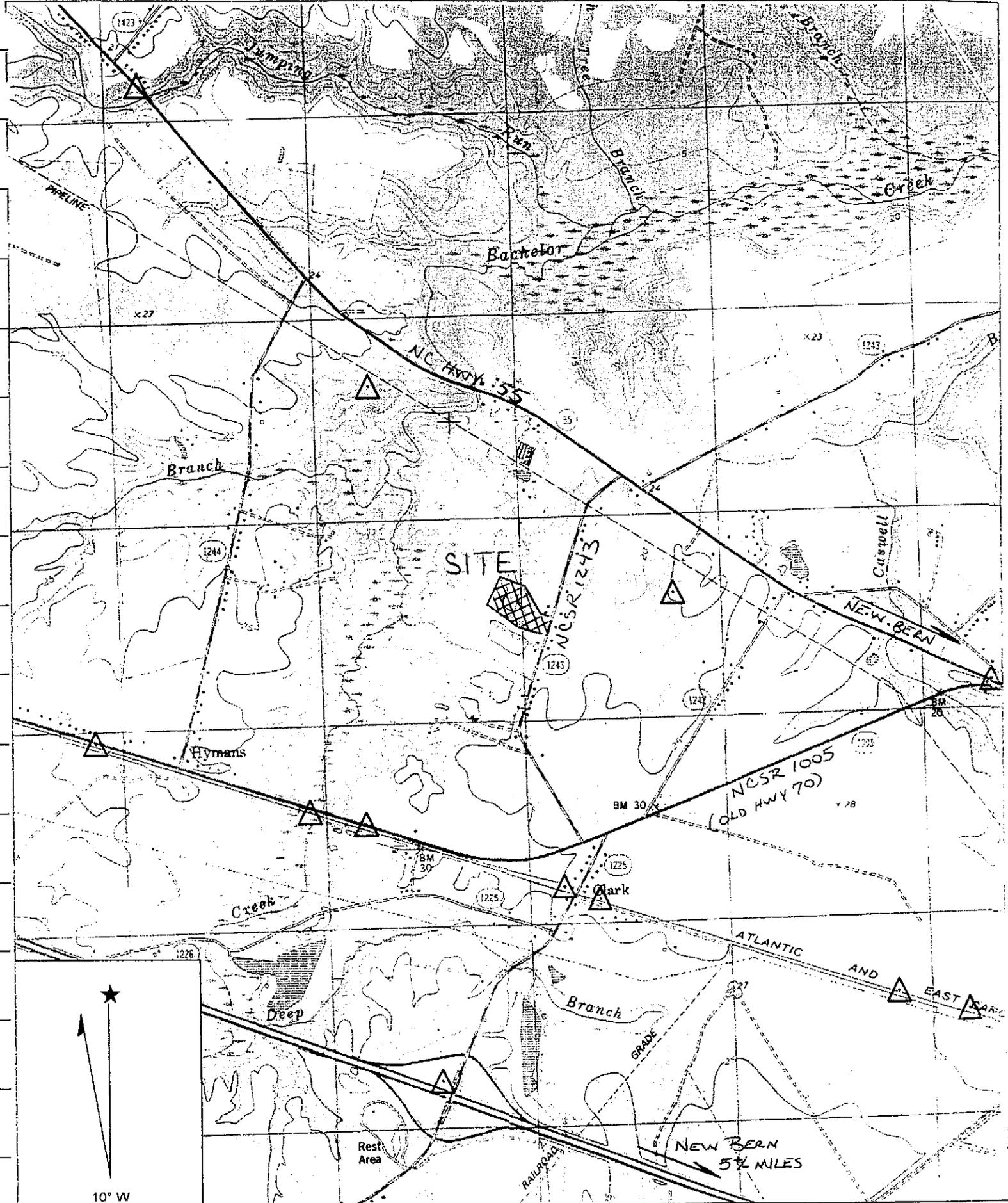
COMMUNITY-PANEL NUMBER  
370072 0225 B  
EFFECTIVE DATE:  
MAY 4, 1987



Federal Emergency Management Agency

REST AREA

II LOCATION INFORMATION TD



Name: JASPER  
 Date: 7/28/2004  
 Scale: 1 inch equals 2000 feet

Location: 035° 09' 31.0" N 077° 09' 48.4" W  
 Caption: 2004146 ROBERT JONES  
 < 2 ACRE LCID SITE  
 SANDERS LANE

### III. SITING REQUIREMENTS AND SUPPORTING DATA - A

15A NCAC 13B.0564: Siting Criteria for Land Clearing and Inert Debris (LCID) Landfills.

The following siting criteria shall apply for Land Clearing and Inert Debris (LCID) landfills:

1. Facilities or practices shall not be located in the 100-year floodplain.
2. Facilities or practices shall not cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife.
3. Facilities or practices shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species as identified in 50 CFR Part 17 which is hereby incorporated by reference including any subsequent amendments and editions. This material is available for inspection at the Department of Environment, Health and Natural Resources, Division of Solid Waste Management, 401 Oberlin Road, Raleigh, North Carolina 27605 where copies can be obtained at no cost.
4. Facilities or practices shall not damage or destroy an archeological or historical site.
5. Facilities or practices shall not cause an adverse impact on a state park, recreation or scenic area, or any other lands included in the state nature and historic preserve.
6. Facilities shall not be located in any wetland as defined in the Clean Water Act, Section 404(b).
7. It must be shown that adequate suitable soils are available for cover, either from on or off site.
8. Land Clearing and Inert Debris landfills shall meet the following surface and ground water requirements:
  - a. Facilities or practices shall not cause a discharge of pollutants into waters of the state that is in violation of the requirements of the National Pollutant Discharge Elimination System (NPDES), under Section 402 of the Clean Water Act, as amended.
  - b. Facilities or practices shall not cause a discharge of dredged materials or fill material into waters of the state that is in violation of the requirements under Section 404 of the Clean Water Act, as amended.
  - c. Facilities or practices shall not cause non-point source pollution of waters of the state that violates assigned water quality standards.
  - d. Waste in landfills with a disposal area greater than two acres shall be placed a minimum of four feet above the seasonal high water table, except where an alternative separation is approved by the Division.
  - e. Waste in landfills with a disposal area less than two acres shall be placed above the seasonal high water table.
9. The facility shall meet the following minimum buffer requirements:
  - a. 50 feet from the waste boundary to all surface waters of the state as defined in G.S. 143-212.
  - b. 100 feet from the disposal area to property lines, residential dwellings, commercial or public buildings, and wells.
  - c. Buffer requirements may be adjusted as necessary to insure adequate protection of public health and the environment.
10. The facility shall meet all requirements of any applicable zoning ordinance.

### III. SITING REQUIREMENTS AND SUPPORTING DATA - B

On August 8 the ground water table elevation was measured directly in a test pit excavated to a depth of 8 feet below the original grade. At 9AM the top of the ground water was located 7.4 feet below the original ground surface elevation of the proposed site. At 12PM the top of the ground water was located 7 feet below the original ground surface elevation of the proposed site. The top layer of wet soil was observed in the test pit at a depth of 5 feet below the existing grade.

The existing ground elevation at the project site is between 20 and 25 feet above mean sea level. Bachelor Creek is located approximately 1400 feet away from the proposed LCID boundary, and a number of ditches are located between the site and the creek.

Observations were made during April and May, 2005 site visits to identify the possible elevation of the ground water table. During all site visits, the property line ditch adjacent to the site and those between the site and creek were dry. The invert of the property line ditch is approximately 6 feet below the existing ground elevation of the site. The water surface elevation in Bachelor Creek is estimated to be 15 feet below the existing ground elevation of the site.

Electronic data retrieved from the NCDENR Division of Water Resources identifies two surficial aquifer wells near the project site. Wells Q 21T1 - Vanceboro and S 22J4 - Clarks are located 8.8 and 1.5 miles from the site, respectively. These wells are located at similar ground elevations as the LCID site and both indicate mean depths to the surficial aquifer of 8 to 10 feet below existing ground.

The location of the wells relative to the project site and copies of the data recorded at them are included in Sections III, D . for reference.



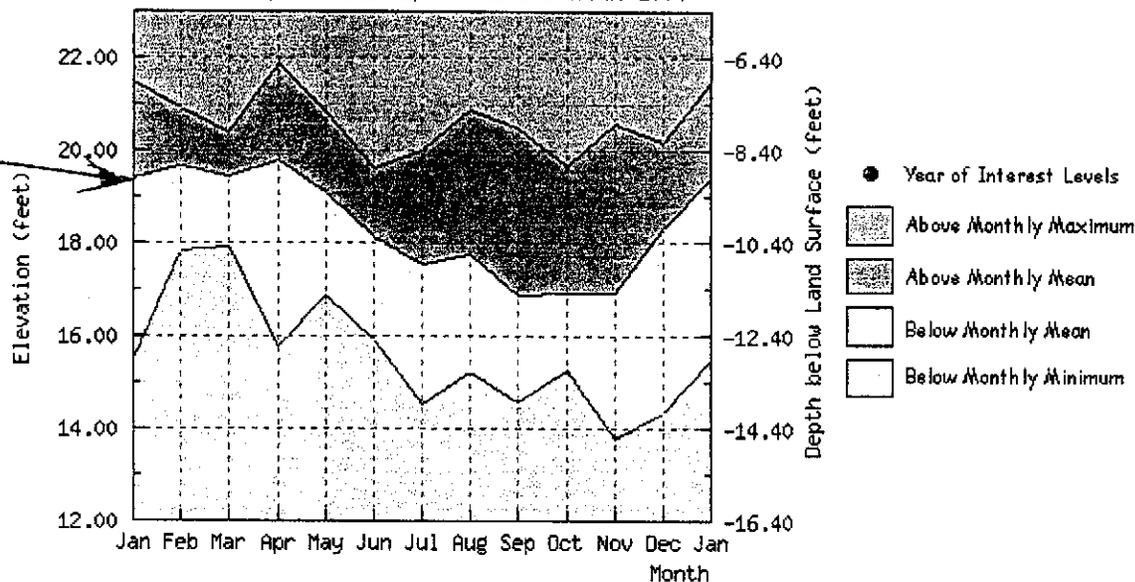
# III SITING REQUIREMENTS & SUPPORTING DATA D

North Carolina Department of Environment and Natural Resources

About DWR • Contact Us • Job

## Division of Water Resources

Vanceboro, Year: 2005, Statistics Thru: 2004



**Well: Q 21T1 -- Vanceboro**  
 Statistical curves are monthly minimum, mean, & maximum of the record through 2004.  
 Red points are 2005, end of month data.  
 Statistics based on both USGS and DWR data for well.

Choose Plot Type:  Min-Mean-Max  Percentile Distribution

Enter Year of Interest (red points): 2005 (YYYY)

Enter the last year for statistical curves: 2004 (YYYY)

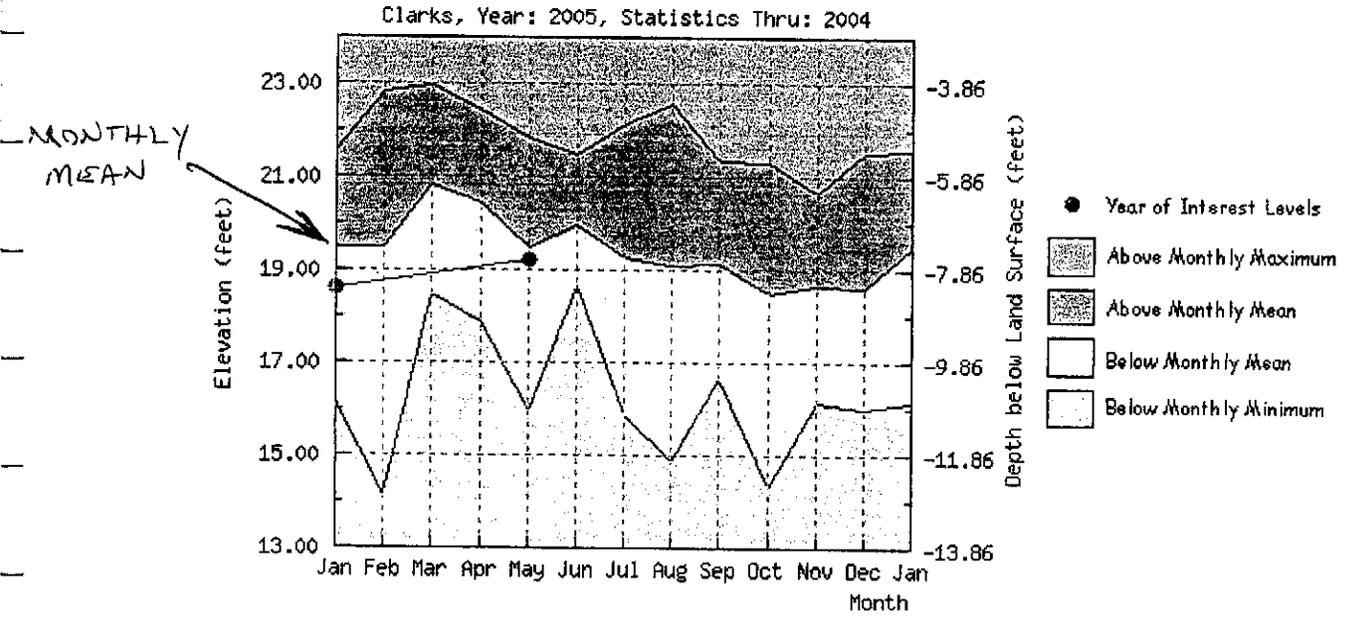
NC Division of Water Resources, DENR - 1611 Mail Service Center - Raleigh, NC 27699-1611  
 Phone: (919)733-4064 - Fax: (919)733-3558

Last Modified: 05.19.2005

# III SITING REQUIREMENTS & SUPPORTING DATA D

North Carolina Department of Environment and Natural Resources  
**Division of Water Resources**

About DWR ■ Contact Us ■ Jobs ■



**Well: S 22J4 -- Clarks**  
 Statistical curves are monthly minimum, mean, & maximum of the record through 2004.  
 Red points are 2005, end of month data.  
 Statistics based on both USGS and DWR data for well.

Choose Plot Type:  Min-Mean-Max  Percentile Distribution  
 Enter Year of Interest (red points): 2005 (YYYY)  
 Enter the last year for statistical curves: 2004 (YYYY)

NC Division of Water Resources, DENR - 1611 Mail Service Center -  
 Raleigh, NC 27699-1611  
 Phone: (919)733-4064 - Fax: (919)733-3558

Last Modified:  
 05.19.2005

County of Craven

Office of Planning  
and  
Community Development



Human Services Annex  
2828 Neuse Boulevard  
New Bern, North Carolina 28562

Donald R. Baumgardner, Director  
Stephanie S. Currier, Assistant Director  
Shelton P. Toler, Chief Building Codes Inspector

Planning & CD (252) 636-6618  
Fax (252) 636-5190  
Inspections (252) 636-4987  
Fax (252) 636-4984

May 2, 2005

Robert M. Chiles, P.E.  
417-A Broad St.  
P.O. Box 3496  
New Bern, NC 28564

Re: Sanders Lane (Tax Parcel # 8-225-075)

Dear Michael Rice:

The above property located in Craven County, North Carolina does not fall within any municipality and, therefore, is regulated by the county. Craven County does not have a zoning ordinance within its jurisdiction.

If you have any further questions or comments regarding this property or county policies, please do not hesitate to contact me.

Thank you,

Chad Strawn  
Planning Technician

III SITING REQUIREMENTS & SUPPORTING DATA F

ROBERT M. CHILES, P.E.

ENGINEERS, CONSULTANTS

&

MARINE SURVEYORS

417-A BROAD ST.  
P.O. BOX 3496  
NEW BERN, NORTH CAROLINA 28564-3496

BUSINESS: 252-637-4702  
FAX: 252-637-3100  
rmcengr@cconnect.net

April 28, 2005

Certified Mail Receipt No. 7004 1160 0002 2769 6799

Renee Gledhill-Earley  
Environmental Review Coordinator  
State Historic Preservation Office  
4617 Mail Service Center  
Raleigh, NC 27699-4617

Subject: Archaeological or Historical Sites.

Enclosure: 1. Portion of USGS Quadrangle Jasper.

Dear Mrs. Gledhill-Earley:

On behalf of our client, Mr. Robert Jones, we request your determination regarding the presence of archaeological or historical sites near the project site indicated on Enclosure 1.

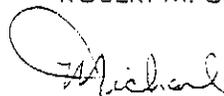
The tract containing the site is described in the Craven County Register of Deeds Book 2134 at Page 80 and is owned by Mr. Jones. It contains approximately 20.6 acres and fronts the western right of way of NCSR 1243 (Sanders Lane) in Craven County, west of New Bern, N.C., near Longitude 77° 09' 48.4" and Latitude 35° 09' 31". The portion of the tract where the project site is located contains approximately 10 acres. The affected area was timbered last year, and a variety of low ground cover is present. The only structures on the site are a gravel surface access road and a landfill mound.

Mr. Jones is currently operating a Land Cleaning and Inert Debris (LCID) Landfill with a disposal area less than two acres in size, but is preparing to increase the size of the operation. The desired increase in size invokes additional permitting requirements by the Division of Waste Management. Among those requirements is a determination from your office regarding the presence of nearby archaeological or historical sites.

Please provide your determination regarding the presence of archaeological or historical sites near the project site.

Should you require additional information or have any questions, please contact us your convenience.

Very truly yours,  
ROBERT M. CHILES, P.E.



Michael L. Rice, P.E.

CC: ROBERT JONES

III. SITING REQUIREMENTS

F SUPPORTING DATA

F

ROBERT M. CHILES

ENGINEERS, CONSULTANT & MARINE SURVEYORS

417-A BROAD ST.  
P.O. BOX 3496  
NEW BERN, NORTH CAROLINA 28564-3496

April 28, 2005

Certified Mail Receipt No. 7004 1160 0002 2769 6799

Renee Gledhill-Earley  
Environmental Review Coordinator  
State Historic Preservation Office  
4617 Mail Service Center  
Raleigh, NC 27699-4617

Subject: Archaeological or Historical Sites.

Enclosure: 1. Portion of USGS Quadrangle Jasper.

Dear Mrs. Gledhill-Earley:

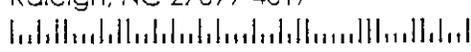
On behalf of our client,  
of archaeological or historical

The tract containing the  
Page 80 and is owned by Mr. J  
way of NCSR 1243 (Sanders L&R  
and Latitude 35° 09'31". The p  
10 acres. The affected area w  
only structures on the site are c

Mr. Jones is currently op  
less than two acres in size, but  
size invokes additional permissi  
requirements is a determinatio  
historical sites.

Please provide your de  
near the project site.

Should you require add  
convenience.

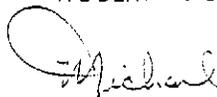
SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p>Renee Gledhill-Earley Environmental Review Coordinator State Historic Preservation Office 4617 Mail Service Center Raleigh, NC 27699-4617</p> 		<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7004 1160 0002 2769 6799</p>		<p>PS Form 3800, June 2002 See Reverse for Instructions</p>	

PS Form 3811, August 2001

Domestic Return Receipt

102595-02-M-15-0

Very truly yours,  
ROBERT M. CHILES, P.E.



Michael L. Rice, P.E.

CC: ROBERT JONES

7004 1160 0002 2769 6799

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

**OFFICIAL USE**

Postage	\$ 0.37	0561 03 Postmark Here
Certified Fee	\$2.30	
Return Receipt Fee (Endorsement Required)	\$1.75	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 4.42	

04/29/2005

Sent To: Renee Gledhill-Earley  
Street, Apt. No., or PO Box No.: 4617 Mail Svc Center  
City, State, ZIP+4: Raleigh NC 27699 4617

PS Form 3800, June 2002 See Reverse for Instructions



III SITING REQUIREMENTS  
SUPPORTING DATA  
G

North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor

William G. Ross Jr., Secretary

May 4, 2005

Mr. Michael L. Rice  
Robert M. Chiles, P.E.  
417-A Broad St.  
P.O. Box 3496  
New Bern, NC 28564-3496

Subject: Expansion of Land Clearing and Inert Debris (LCID) Landfill; NCSR 1243 (Sanders Lane), Craven County

Dear Mr. Rice:

The Natural Heritage Program has no record of rare species, significant natural communities, or priority natural areas at the site nor within 0.7 mile of the project area. Although our maps do not show records of such natural heritage elements in the project area, it does not necessarily mean that they are not present. It may simply mean that the area has not been surveyed. The use of Natural Heritage Program data should not be substituted for actual field surveys, particularly if the project area contains suitable habitat for rare species, significant natural communities, or priority natural areas.

You may wish to check the Natural Heritage Program database website at [www.ncnhp.org](http://www.ncnhp.org) for a listing of rare plants and animals and significant natural communities in the county and on the topographic quad map. Please do not hesitate to contact me at 919-715-8697 if you have questions or need further information.

Sincerely,

Harry E. LeGrand, Jr., Zoologist  
Natural Heritage Program

HEL/hel

#### **IV. OPERATION PLAN - A**

##### **General Operation Information:**

Owner: R.J. Bushhogging, Inc.  
Address: 175 High School Road, Vanceboro, NC 28586  
Phone Number: (252) 244-2805

##### **Projected Land Use After Completion:**

After the closure of the landfill, the natural propagation of native plant species will be allowed to occur and the site will revert to a natural state.

##### **Systematic Usage of the Site:**

A "noticed" LCID landfill (< 2ac.) is currently being operated within the proposed 4.1± acre site. The existing ground surface elevation provides the required separation between waste and the water table, and the existing and proposed operation will be entirely above the existing ground surface.

The active area of the landfill will be expanded as more space becomes required until the permitted boundary is reached. The woodland cover of the proposed site was removed during previous logging activities. When the landfill extends to the permitted boundary, the waste will then be stacked and covered vertically, potentially achieving the shape depicted in the application drawings.

As filled areas covered with soil become inactive, they shall be seeded to prevent sedimentation and to promote stability of the cover.

##### **Type , Source and Quantity of Waste to be Accepted:**

This facility will receive land clearing waste, yard trash, and inert debris as defined in 15A NCAC 13B.0101. This includes stumps, trees, tree limbs, brush, grass, other naturally occurring vegetative material, concrete, brick, concrete block, gravel and rock, untreated and unpainted wood, and uncontaminated soil. The primary source of the waste material will be the Owner's other businesses, in quantities capable of being landfilled on the proposed site.

##### **Emergency Contingency Plan:**

The locale of this facility is served by volunteer fire, rescue, EMS and the County Sheriff's Department all of which can be contacted as needed.

#### IV. OPERATION PLAN - B

##### 15A NCAC 13B.0566: Operational Requirements for Land Clearing and Inert Debris (LCID) Landfills.

1. Operational plans shall be approved and followed as specified for the facility.
2. The facility shall only accept those solid wastes which it is permitted to receive.
3. Solid waste shall be restricted to the smallest area feasible and compacted as densely as practical into cells.
4. Adequate soil cover shall be applied monthly, or when the active area reaches one acre in size, whichever occurs first.
5. 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 one foot of suitable soil cover sloped to allow surface runoff in a controlled manner. The Division may require further action in order to correct any condition which is or may become injurious to the public health, or nuisance to the community.
6. Adequate erosion control measures, structures, or devices shall be utilized to prevent silt from leaving the site and to prevent excessive on site erosion.
7. Provisions for a ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of landfill development.
8. The facility shall be adequately secured by means of gates, chains, berms, fences, etc. to prevent unauthorized access except when an operator is on duty. An attendant shall be on duty at all times while the landfill is open for public use to assure compliance with operational requirements and to prevent acceptance of unauthorized wastes.
9. Access roads shall be of all-weather construction and properly maintained.
10. Surface water shall be diverted from the working face and shall not be impounded over waste.
11. Solid waste shall not be disposed of in water.
12. Open burning of solid waste is prohibited.
13. The concentration of explosive gases generated by the facility shall not exceed:
  - a. Twenty-five percent of the lower explosive limit for the gases in facility structures.
  - b. The lower explosive limit for the gases at the property boundary.
14. Leachate shall be properly managed on site through the use of current best management practices.
15. Should the Division deem it necessary, ground water or surface water monitoring, or both, may be required as provided for under Rules 15A NCAC 13B.0601 and .0602.
16. A sign shall be posted at facility entrance showing contact name and number in case of emergency, and the permit number.

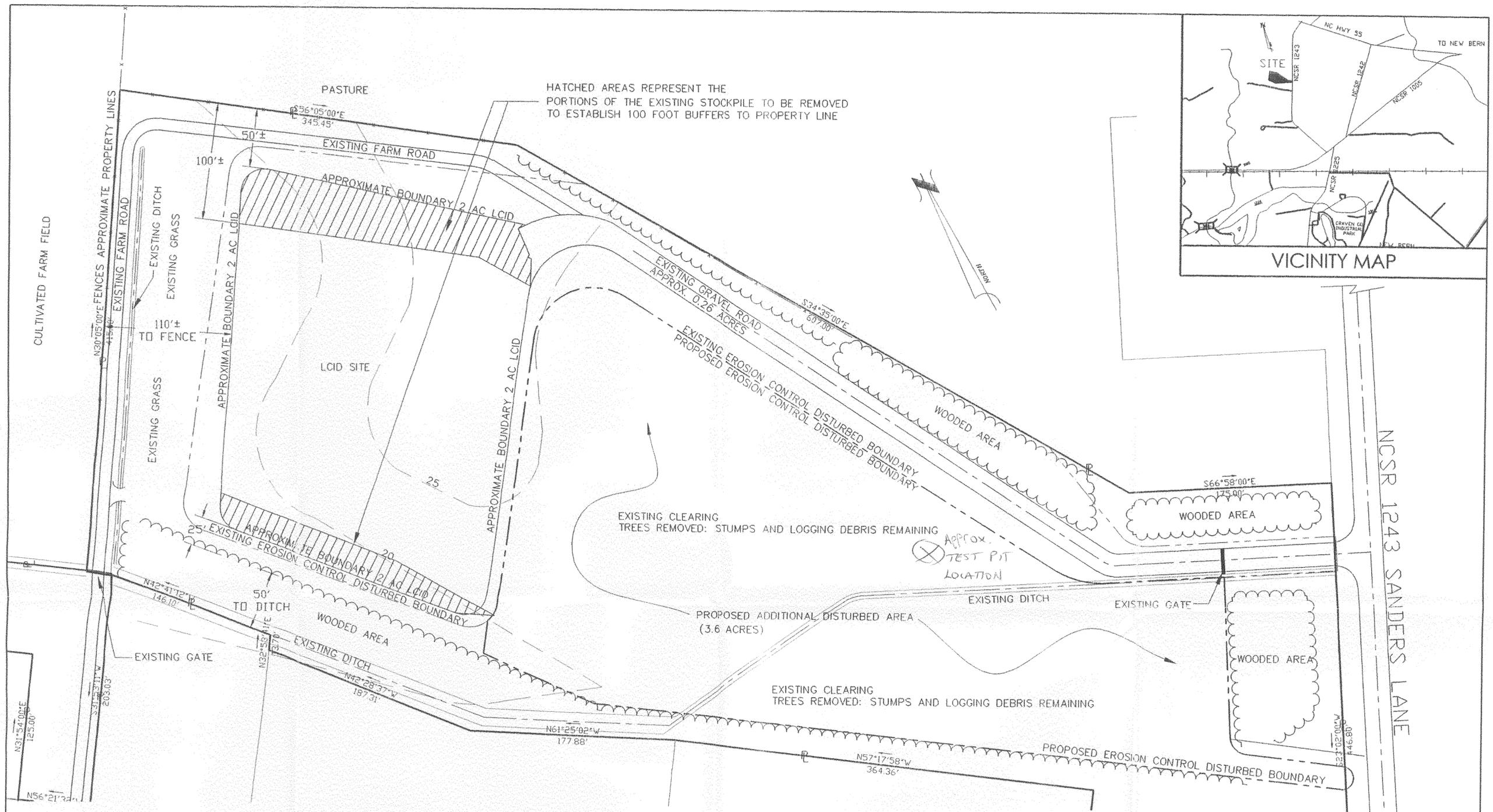
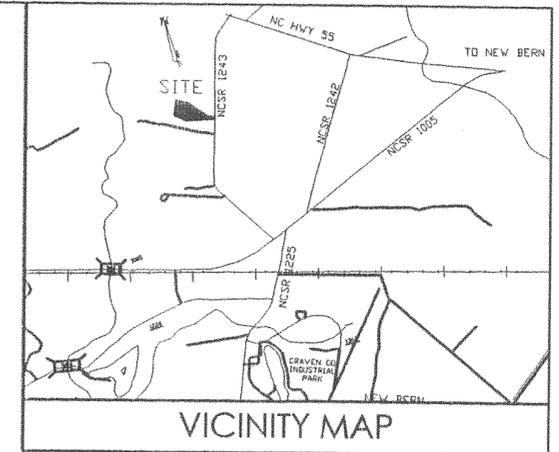
**IV. OPERATION PLAN - C**

As depicted on the plans, the proposed LCID has an approximate total capacity of 104,000 cubic yards. Assuming one-half of the capacity is used by the existing notification LCID, a capacity of 52,000 cubic yards remains.

With a maximum capacity of 15 cubic yards, the average truck load is estimated to contain 12 cubic yards of material. Based upon 12 cubic yards per truck, a 52,000 cubic-yard capacity will serve an additional 4,333 truckloads. At 8 truckloads per work day, 5 work days per week, the landfill will reach capacity in about 2 years, based on the assumptions heretofore mentioned.

**V. DRAWINGS**

- A. Approximate Boundary for the Less than 2 acre LCID Landfill Site for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.
- B. Proposed Expansion to a 4.1 Acre LCID Landfill Site for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.
- C. Section and Isometric Views of the Proposed LCID Topographic Contours for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.
- D. Area Within 1/4 Mile of the 4.1 Acre LCID Landfill Site for R.J. Bushhogging, Inc., prepared by Robert M. Chiles, PE.



HATCHED AREAS REPRESENT THE PORTIONS OF THE EXISTING STOCKPILE TO BE REMOVED TO ESTABLISH 100 FOOT BUFFERS TO PROPERTY LINE

**NOTES**

- CONTOUR LINES ARE SHOWN IN APPROXIMATE POSITIONS AND ARE BASED UPON USGS QUADRANGLE JASPER AND FIELD OBSERVATIONS.
- CONTOURS INDICATE TOPOGRAPHY FOR ORIGINAL GROUND ELEVATIONS
- LCID SITE IS CONTAINED IN A PORTION OF THE PROPERTY DESCRIBED IN CRAVEN COUNTY REGISTER OF DEEDS BOOK 2134 AT PAGE 80.
- THE PROJECT SITE IS LOCATED IN ZONE X ACCORDING TO FEMA FIRM MAP NUMBER 3720554000J, EFFECTIVE JULY 2, 2004.
- THERE ARE NO WETLANDS WITHIN THE PORTION OF THE PROPERTY CONTAINING THE PROJECT SITE.

**LEGEND**

- FENCE
- TREES
- CONTOUR LINES
- PROJECT BOUNDARY
- PROPERTY LINE



REVISED PER NCDENR AUGUST 3, 2005

SHEET 1 OF 4

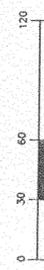
**ENGINEER/SURVEYOR**

ROBERT M. CHILES, P.E.  
ENGINEERS & CONSULTANTS  
P.O. BOX 3496  
NEW BERN, NORTH CAROLINA 28564-3496  
(252) 637-4702

**OWNER/OPERATOR**

R.J. BUSHHOGGING, INC.  
MR. ROBERT JONES, OWNER  
175 HIGH SCHOOL ROAD  
VANCEBORO, NORTH CAROLINA 28586  
(252) 244-2805

GRAPHIC SCALE

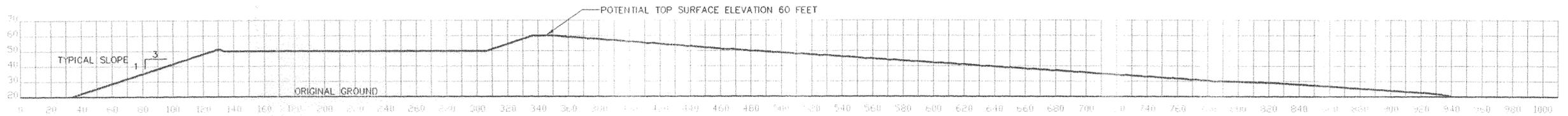


**APPROXIMATE BOUNDARY**  
FOR THE  
**LESS THAN 2 ACRE LCID LANDFILL SITE**  
FOR  
**R.J. BUSHHOGGING, INC.**

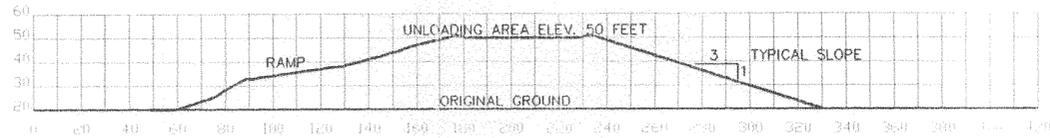
TOWNSHIP NO. 8      CRAVEN COUNTY      NORTH CAROLINA  
DATE: MAY 5, 2005  
JOB NO: 2004146  
SCALE: 1" = 60'  
**ROBERT M. CHILES, P.E.**  
ENGINEERS AND CONSULTANTS  
NEW BERN, NORTH CAROLINA

MLR 2004146 ps 080305

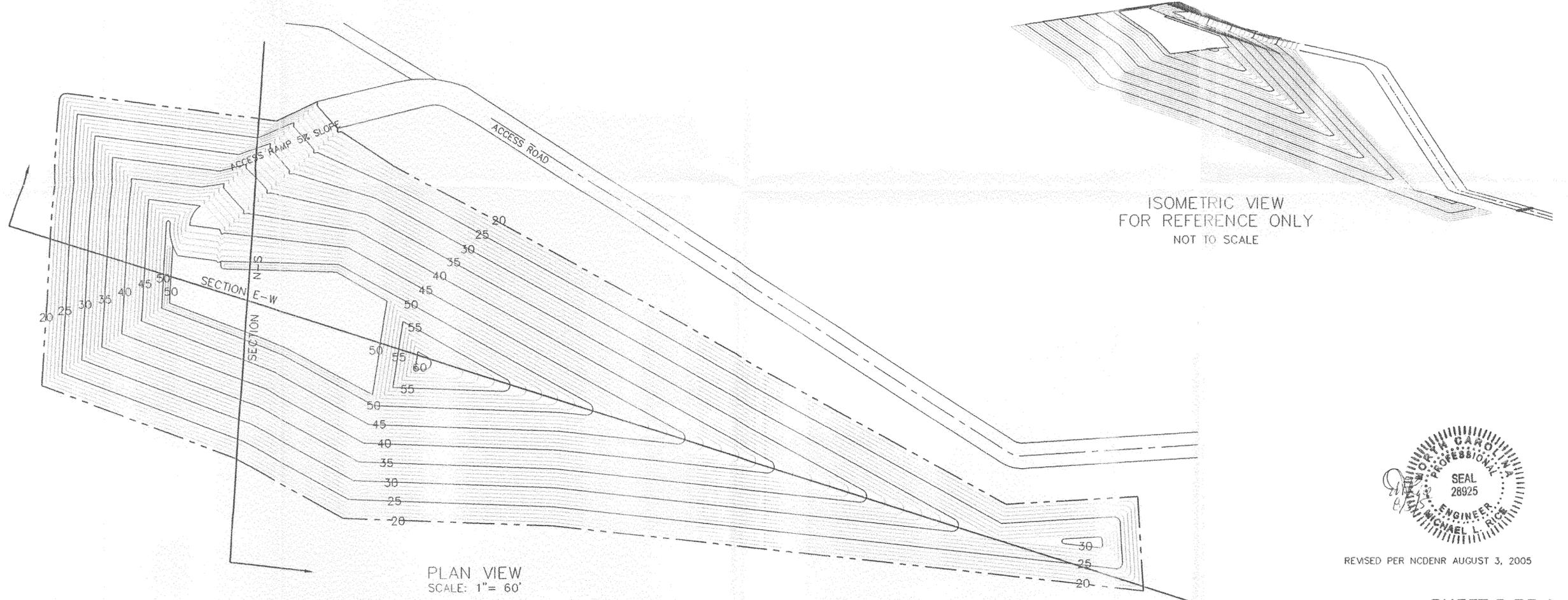




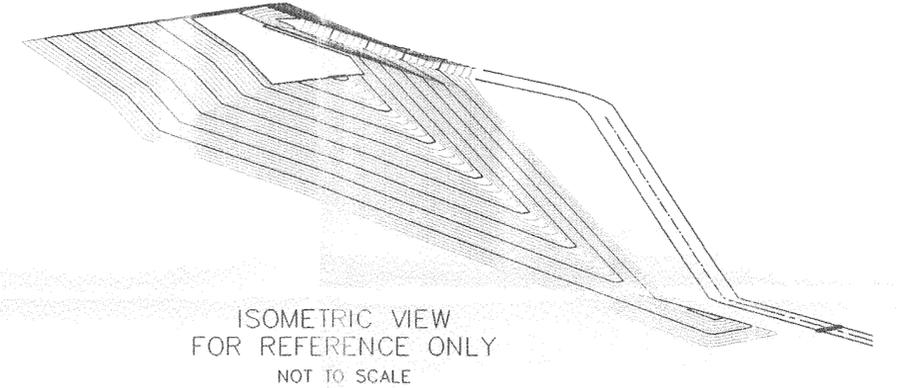
SECTION E-W  
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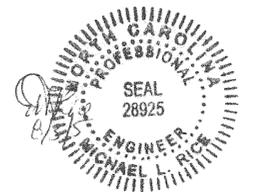
SECTION N-S  
SCALE: 1" = 50'



PLAN VIEW  
SCALE: 1" = 60'



ISOMETRIC VIEW  
FOR REFERENCE ONLY  
NOT TO SCALE



REVISED PER NCDENR AUGUST 3, 2005

SHEET 3 OF 4

ENGINEER/SURVEYOR

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VANCEBORO, NORTH CAROLINA 28586  
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GRAPHIC SCALE



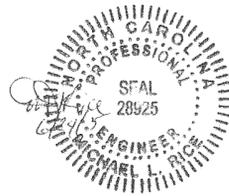
SECTION AND ISOMETRIC VIEWS OF THE PROPOSED LCID TOPOGRAPHICAL CONTOURS FOR R.J. BUSHHOGGING, INC.		
TOWNSHIP NO. 8	CRAVEN COUNTY	NORTH CAROLINA
DATE: MAY 5, 2005	<b>ROBERT M. CHILES, P.E.</b> ENGINEERS AND CONSULTANTS NEW BERN, NORTH CAROLINA	
JOB NO: 2004146		
SCALE: AS INDICATED		

MLR 2004146 ps 080305

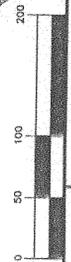


**ENGINEER/SURVEYOR**  
 ROBERT M. CHILES, P.E.  
 ENGINEERS & CONSULTANTS  
 P.O. BOX 3496  
 NEW BERN, NORTH CAROLINA 28564-3496  
 (252) 637-4702

**OWNER/OPERATOR**  
 R.J. BUSHHOGGING, INC.  
 MR. ROBERT JONES, OWNER  
 175 HIGH SCHOOL ROAD  
 VANCEBORO, NORTH CAROLINA 28586  
 (252) 244-2805



SHEET 4 OF 4



**AREA WITHIN 1/4 MILE**  
 OF THE  
**4.1± ACRE LCID LANDFILL SITE**  
 FOR  
**R.J. BUSHHOGGING, INC.**

TOWNSHIP NO. 8      CRAVEN COUNTY      NORTH CAROLINA

DATE:     MAY 5, 2005      
 JOB NO:     2004146      
 SCALE:     1" = 200'    

**ROBERT M. CHILES, P.E.**  
 ENGINEERS AND CONSULTANTS  
 NEW BERN, NORTH CAROLINA

MLR 2004146 ps 062405