



Jim Coffey  
DEHNR

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT, JR.  
GOVERNOR

DIVISION OF HIGHWAYS  
Route 2, Box 29-C  
Nashville, NC 27856  
April 21, 1995



State Project: 8.1301002 (I-2004)  
F. A. Number: NHF-95-3(71)170  
County: Halifax  
Description: New Interchange on I-95 at NC 125, South of Roanoke Rapids

MEMORANDUM

TO: Mr. D. R. Dupree  
Division Engineer

FROM: R. E. Greene, Jr., P.E.  
Resident Engineer

SUBJECT: Request to Use Fly Ash in Embankment

A request from Barnhill Contracting Company to make beneficial use of fly ash material on their project is attached for your review and further consultation with DEHNR and the Materials and Tests Unit. The contractor specifically wishes to use fly ash in lieu of borrow at certain locations.

A draft special provision for coal fly ash in embankments is also attached for your review. The M&T Lab provided this draft provision to me at the same time a lab test report was sent out for a fly ash sample we obtained from Roanoke Valley Energy Facility in Weldon, North Carolina. This power plant is located just a few miles from the project limits. The test results for our fly ash sample are attached for your review.

Mr. Rod Rabold with Roanoke Valley Energy Facility (919-536-3200) has indicated that the fly ash is stored in a silo. The flyash is usually transported by a trucking firm to a landfill or to a building site. The fly ash runs through a pug for water conditioning prior to being discharged into trucks. The amount of water can be adjusted as needed to approach optimum moisture. The trucks are covered by a tarp before the material is transported.

Mr. Rabold indicated that approximately 2000-2700 tons of fly ash per week are generated with a dry unit weight of 72 lbs per cubic foot. This relatively low production rate has led the contractor to request stockpiling the fly ash material on the project to prevent delays to embankment construction. If stockpiling operations could begin very shortly, approximately 5000-7000 cubic yards of fly ash could be incorporated into project embankment.



Mr. D. R. Dupree  
April 21, 1995  
Page Two

If fly ash is to be used on this project, a decision must be reached as quickly as possible. Earth borrow excavation has already begun and is progressing rapidly. Mr. Cecil Jones, State Materials Quality Engineer (733-7089), Mr. Jim Coffey, Head of Permitting for DEHNR's Solid Waste Section (733-0692) and Marie Casey of Design Services (250-4128) are already aware of the contractor's request and will need to be involved in the final decision.

One other attachment which may be helpful to you is DEHNR's "Requirements for Beneficial Use of Coal Combustion By-products. Please let me know if you need any other information.

REGjr:jat

Attachment

cc: Mr. L. A. Sanderson, P.E.  
Mr. J. C. Manning, P.E.  
Mr. Jim Coffey  
Mr. Cecil Jones  
Ms. Marie Casey  
File



From: Matt Bramblett  
Date: 10-8-03  
E-mail:

To: Bob Moore  
Fax No: 704-552-0397  
No. Pages: 16

Re: Asbestos Inspection - Roanoke Rapids

Message:

RECEIVED  
OCT 8 2003  
CARMEL CONTRACTORS

~~704-560-5767~~

cc ~~COOPER QUETA~~

Hart & Hickman, PC 501 Minuet Lane Suite 101 Charlotte NC 28217  
Ph. 704.586.0007 Fx. 704.586.0373

THE INFORMATION CONTAINED IN THIS MESSAGE IS UNCLASSIFIED AND FOR CONFIDENTIAL AND INTENDED ONLY FOR THE USE OF THE INDIVIDUAL NAMED ABOVE. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED.

IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE CALL (704) 586-0007

10/15/03 10:40:10

#### 4.6 Lead-Based Paint

The shopping center was built in the late 1960's to early 1970's when lead-based paint (LBP) was being used. Therefore, a potential exists that LBP could be present on some surfaces. The primary painted surface consists of white paint on the exterior concrete block of the shopping building. The white paint appeared to be a newer flexible material and did not appear to have qualities characteristic of lead-based paint; however, H&H analyzed the white paint using a Knowlead sampling kit. The test kit consists of test daubers, wet wipes, and confirmation cards. Based upon H&H's test result, the white painted surface identified at the site does not appear to contain lead above a concentration of 0.0587%. Therefore, the white paint is not considered to be LBP.

Although LBP was not detected in the white paint, a small amount of LBP could be present on site building materials. However, the quantity of potential LBP would be small when compared to the amount of the accompanying demolition debris (i.e., concrete block, wood, etc.). Therefore, the demolition material is not expected to require special attenuation if it is disposed together because the material as a whole would not likely produce regulated levels of lead.

## AGREEMENT

October 14, 2003

Where as Roanoke Valley Rentals, LLC is owner of property located on Hwy 125 ( Old Farm Road ext. ) boarding Chockoyotte Creek in the city of Roanoke Rapids, N. C. here after referred to as "owner", and T-Rex Construction a North Carolina Company has been hired by a third party to tear down and remove from site several stores in the Plaza Shopping Center in Roanoke Rapids N. C. here after referred to as "contractor".

Roanoke Valley Rentals, LLC. Owner will allow T-Rex Construction to dump building debris as fill material on its property at no dumping fee expense under the following conditions:

1. Only cement, bricks, block and dirt will be dumped on site free of any other material.
2. Every thing dumped on site will be dumped above ground and covered with fill dirt, slopes will have a minimum of 12 inches of fill dirt and top will have a minimum of 48 inches of fill dirt. Dirt will be at expense of owner and hauled at contractors expense to site on a daily basis as needed to keep debris covered at end of each day.
3. Contractor will provide proof that all material dumped is free of contaminants including but not limited to lead, asbestos, petroleum products.
4. Owner will show contractor wet land limits and contractor will not fill or dump with in 15 foot of limits.
5. Owner will show property lines to contractor and contractor will stay 10 feet off property lines.
6. Contractor will maintain a top level elevation on fill the same over complete fill area similar to that of existing fill area.
7. Contractor will maintain a minimum of 6 inches of mulch cover on site at all times for erosion control measures. Mulch will be obtained free of charge from the city of Roanoke Rapids, hauled to site by contractor at contractors expense.
8. All slopes created by this fill shall not exceed a 2 to 1 slope ( 1 being the rise )

WE HERE BY AGREE, to the above agreement and will do as it states.

Owner \_\_\_\_\_ Date \_\_\_\_\_

Contractor \_\_\_\_\_ Date \_\_\_\_\_

Witness \_\_\_\_\_ Date \_\_\_\_\_

# CERTIFICATE OF PLAN APPROVAL



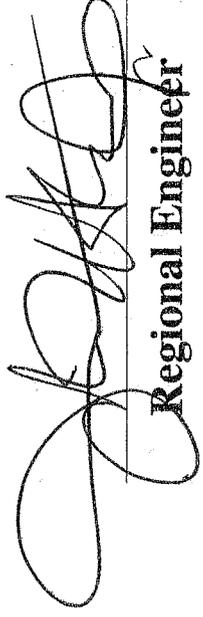
The posting of this certificate certifies that an erosion and sedimentation control plan has been approved for this project by the North Carolina Department of Environment and Natural Resources in accordance with North Carolina General Statute 113A - 57 (4) and 13A - 54 (d) (4) and North Carolina Administrative Code, Title 15A, Chapter 4B.0107 (c). This certificate must be posted at the primary entrance of the job site before construction begins and until establishment of permanent groundcover as required by North Carolina Administrative Code, Title 15A, Chapter 4B.0127 (b).

Roanoke Valley Rentals, LLC - Halifax County

## Project Name and Location

July 10, 2003

Date of Plan Approval



Regional Engineer

# ReUse Technology, Inc.

...progress today, with respect for tomorrow.

May 19, 1995

Ms. Marie Casey  
State of North Carolina  
Department of Transportation  
Division of Highways  
Route 2, Box 29-C  
Nashville, North Carolina 27865

Post-It® Fax Note 7671		Date 5/22/95	# of pages 5
To Bill Hecutt	From Marie Casey		
Co. DEHNR	Co. NC DOT		
Phone #	Phone # 252-9128		
Fax # 733-4810	Fax # 252-9119		

Re: Coal Combustion By-Product Structural Fill  
I-95 at NC 125  
Halifax County

Dear Ms. Casey:

I am pleased to forward the information you will need for notifying NCDEHNR of the change in coal combustion by-products to be used in the I-95 at NC 125 interchange. According to Rule .1703 of 15A NCAC 13B, the following information is needed:

.1703(4)

Attached is a TCLP analysis report dated February 28, 1995 which has been certified by the generator as representative of the coal combustion by-products to be used in this project.

.1703(6)

- (A) Name of the coal combustion by-products generator.  
Cogentrix of Rocky Mount, Inc.
- (B) Physical location of the generating facility.  
Along NC 1400 approximately one mile south of Battleboro, NC
- (C) Address of the generator.  
P.O. Box 370  
Route 2  
Battleboro, North Carolina 27809
- (D) Name of contact for generator.  
Steve Doyon

CORPORATE OFFICE  
100 Chastain Center Boulevard • Suite 155 • Kennesaw, Georgia 30144 • Phone 404 426-7676 • Fax 404 426-7681



Printed on Recycled Paper

Ms. Marie Casey  
May 19, 1995  
Page 2

(E) Telephone number of the generator.  
(704) 525-3800

Other information you have requested is ReUse's relationship with the generator and a statement of liability. ReUse Technology, Inc. is a wholly-owned subsidiary of Cogentrix, the coal combustion by-product generator. ReUse provides ash management services for the Cogentrix plant located in Battleboro.

ReUse Technology, Inc. assumes all liabilities normally associated with the generator and transporter of coal combustion by-products as a solid waste material. Any liabilities associated with the proper storage, use, placement, and further transportation of these coal combustion by-products transfer to others upon ReUse Technology's delivery of such coal combustion by-products to the project site.

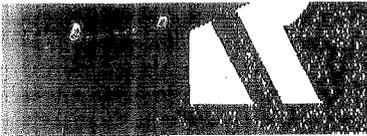
Sincerely,



Robert J. Waldrop  
Vice President, Environmental

RJW/cmm  
Attachment  
cc/att.:

Steve Critchfield  
Jimmy Deal



# ReUse Technology, Inc.

PERMITTING • DISPOSAL PLANNING • REUSE

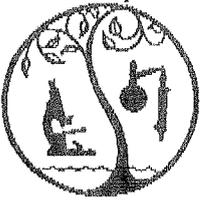
## FACSIMILE COVER SHEET

To: Bill Hocutt  
 Company: Dekner Solid Waste Management  
 Phone: \_\_\_\_\_  
 Fax: 919-733-4810

From: Laura Light  
 Company: ReUse Technology, Inc.  
 Phone: (404) 425-7676  
 Fax: (404) 425-7681

Date: 5/22/95  
 Pages including this cover page: 3

Comments: I will forward a hard copy. If you have any questions please call.



# Bionomics Laboratory, Inc.

## Atlanta Division

2264 Northwest Parkway, Suite F • Marietta, GA 30067  
 (404) 984-8070 • Fax (404) 988-0491

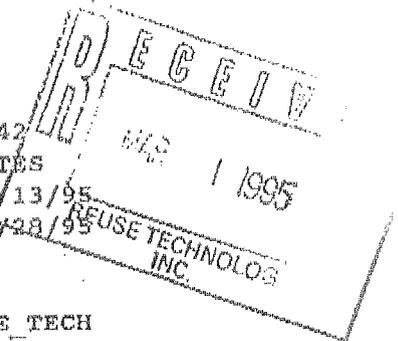
FL. HRS E87194 FL. HRS SDW 87368 SC. DHEC #98006  
 FL DEP COAP#890201G

RE-USE TECHNOLOGY, INC.  
 100 CHASTAIN CENTER BOULEVARD  
 SUITE 155  
 KENNESAW, GA 30144  
 Attn: LAURA SEIBERT

Order #: A5-02-058  
 Date: 02/28/95 08:42  
 Work ID: RE-USE SITES  
 Date Received: 02/13/95  
 Date Completed: 02/28/95

Purchase Order: 300-134527 (TCLP Metals)  
 Invoice Number: not set

Client Code: RE\_USE\_TECH



### SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	ROCKY MOUNT - FLY ASH
02	ROCKY MOUNT - BOTTOM ASH
03	ROCKY MOUNT - RECYCLE #1
04	ROCKY MOUNT - RECYCLE #2
05	HOPEWELL #1 - FLY ASH
06	HOPEWELL #2 - FLY ASH
07	PORTSMOUTH #1 - FLY ASH

<u>Sample Number</u>	<u>Sample Description</u>
08	PORTSMOUTH #2 - FLY ASH
09	RICHMOND - RECYCLE #1
10	RICHMOND - RECYCLE #2
11	RICHMOND - RECYCLE #3
12	RICHMOND - RECYCLE #4
13	RICHMOND - BOTTOM ASH 1&2
14	RICHMOND - BOTTOM ASH 3&4

*Richard Alt*  
 Certified By  
 RICHARD ALT, DIRECTOR

Order # A5-02-050  
02/28/95 09:42

TEST RESULTS BY SAMPLE

Sample Description: ROCKY MOUNT - FLY ASH  
Test Description: TCLP METALS

Lab No: 01A  
Method: 6010/7000 Test Code: TCLP\_M

PARAMETER	RESULT	LIMIT	MS_RECOVERY
Arsenic	BDL	0.02	*****
Barium	0.693	0.01	*****
Cadmium	BDL	0.005	*****
Chromium	BDL	0.01	*****
Lead	BDL	0.015	*****
Mercury	BDL	0.002	*****
Selenium	BDL	0.01	*****
Silver	BDL	0.01	*****

Notes and Definitions for this Report:

DATE RUN 02/21/95  
UNITS mg/L

Sample Description: ROCKY MOUNT - BOTTOM ASH  
Test Description: TCLP METALS

Lab No: 02A  
Method: 6010/7000 Test Code: TCLP\_M

PARAMETER	RESULT	LIMIT	MS_RECOVERY
Arsenic	BDL	0.02	*****
Barium	0.584	0.01	*****
Cadmium	BDL	0.005	*****
Chromium	BDL	0.01	*****
Lead	BDL	0.015	*****
Mercury	BDL	0.002	*****
Selenium	BDL	0.01	*****
Silver	BDL	0.01	*****

Notes and Definitions for this Report:

DATE RUN 02/23/95  
UNITS mg/L

I hereby certify that this TCLP analysis is representative of the coal combustion by-products from the Cogentrix cogeneration facility located in Rocky Mount, North Carolina.

  
Signature

Sample Description: ROCKY MOUNT - RECYCLE #1  
Test Description: TCLP METALS

Lab No: 03A  
Method: 6010/7000 Test Code: TCLP\_M

PARAMETER	RESULT	LIMIT	MS_RECOVERY
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**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY  
MATERIALS & TESTS UNIT  
SOILS LABORATORY**

T. I. P. No. \_\_\_\_\_

**REPORT ON SAMPLES OF FLY ASH FOR BORROW - COASTAL PLAINS**

Project	<u>8.1301002</u>	County	<u>HALIFAX</u>	Owner	<u>REUSE TECH</u>
Date: Sampled	<u>5/15/95</u>	Received	<u>5/16/95</u>	Reported	<u>5/18/95</u>
Sampled from	<u>STOCKPILE</u>	By	<u>D. B. MANNING</u>		
Submitted by	<u>R. E. GREENE</u>	1990 Standard Specifications			

598708 TO 598708  
5/18/95

**TEST RESULTS**

Proj. Sample No.			<b>1</b>				
Lab. Sample No.			<b>598708</b>				
Retained #4 Sieve	%		<b>4</b>				
Passing #10 Sieve	%		<b>86</b>				
Passing #40 Sieve	%		<b>62</b>				
Passing #200 Sieve	%		<b>40</b>				

**MINUS NO. 10 FRACTION**

<b>SOIL MORTAR - 100%</b>							
Course Sand Ret - #60	%		<b>35.8</b>				
Fine Sand Ret - #270	%		<b>22.2</b>				
Silt 0.05 - 0.005 mm	%		<b>40.0</b>				
Clay < 0.005 mm	%		<b>2.0</b>				
Passing #40 Sieve	%		<b>-</b>				
Passing #200 Sieve	%		<b>-</b>				

L. L.		<b>58</b>					
P. I.		<b>NP</b>					
AASHTO Classification		<b>A-5(0)</b>					
Station		<b>HWY 301</b>					
Hole No.							
Depth (Ft)							
	to						
		<b>OK</b>					

cc: R. E. GREENE (2)  
Soils File

  
 \_\_\_\_\_  
 Soils Engineer

State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Division of Solid Waste Management

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director



April 27, 1995

Ms. Marie L. Casey  
NC Department of Transportation  
Century Center  
P.O. Box 25201  
Raleigh, NC 27611

Subject: Coal Fly Ash structural fill at interchange of I-95 and NC 125, South of Roanoke Rapids in Halifax County, NC. (State Project 8.1301002, I 2004)

Dear Ms. Casey:

The Division of Solid Waste management has received your notification of plans to utilize coal ash in the subject project on which embankment construction began April 18, 1995. The coal fly ash structural fill portion of this project is estimated to be completed by early June, 1995. Approximately 5,000 - 7,000 cubic yards of coal fly ash have been estimated as the size of this fill. The information submitted satisfies the requirements for coal ash structural fill activities as set forth in Solid Waste Management Rules 15A NCAC 13B Section .1700 concerning beneficial use of coal combustion by-products.

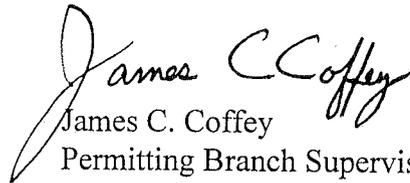
Please be aware that the size of a fill project is not a decisive factor in determining if the services of NC licensed professional engineer (PE) is necessary on a coal ash structural fill. The Section 1700 Rules do specify that a proposed fill site which anticipates utilization of 10,000 Yd<sup>3</sup> or more must include a PE approved Construction Plan in the Notification. Regardless of the volume of coal ash used in a structural fill project, the Closure Rule, 15A N.C. Administrative Code 13B .1706, requires certification signed and sealed by a PE that all rules in Section .1700 have been met. These rules include, among other things, Rule 1704 (a) (4) certification that no coal ash has been placed within two feet of the seasonal high groundwater table and certification under Rule 1705 (c) that the coal ash has been placed uniformly and compacted in lifts not exceeding one foot in thickness, compacted to standards including in-situ density, compaction effort and relative density, specified by a PE for a specific end use purpose. Critical set back distances are specified in Rule .1704. Rule .1705 (c) engineering specifications must be designated before commencement of the fill. Moreover, a PE cannot certify that these rules have been met unless he or she has been involved in the project from the beginning and has made periodic inspections of the work in progress.

Ms. Casey  
Page 2.

Analyses of groundwater samples collected from monitoring wells located at a North Carolina coal ash structural fill site indicate that the ash may have caused or contributed to violation of the 15A N.C. Administrative Code 2L Standards for arsenic, cadmium, chromium, lead, and selenium, as well as elevated sulfate levels. Based upon this information, the Solid Waste Management Division strongly recommends that you retain the services of a qualified hydrogeologic consulting firm to assist you in determining the vulnerability of the groundwater at the site based on site attenuation, waste extractability and end use to inhibit infiltration and consider installation of groundwater monitoring wells on vulnerable sites before commencing fill operations.

Please contact me or Bill Hocutt at (919) 733-0692 if you have any question about this.

Sincerely,



James C. Coffey  
Permitting Branch Supervisor  
Solid Waste Section

cc: Bill Hocutt  
Jim Barber

→ Rod Raybold; Valley Energy Facility; Highway 158 and Railroad St.; Weldon, NC 27890  
R.E. Greene, Jr., P.E.; NC Dept. of Transportation; Resident Engineer's Office; RFD 2,  
Box 29C; Nashville, NC 27856

State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Division of Solid Waste Management

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director



May 24, 1995

Ms. Marie L. Casey  
NC Department of Transportation  
Century Center  
Post Office Box 25201  
Raleigh, NC 27611

Subject: REVISION to coal fly ash structural fill at interchange of I-95 and NC 125, south of Roanoke Rapids in Halifax County, NC (State Project 8.1301002, I 2004).

Dear Ms. Casey:

This acknowledgement letter is being written to record the change in the source of coal fly ash to be used in the subject project. Previously, the ash generator was to be the Weldon, NC Roanoke Valley Energy Facility and this is changed to the Rocky Mount, NC Cogentrix Facility. The information you supplied on Cogentrix satisfies the requirements set forth in Solid Waste Management Rules 15A NCAC 13B Section .1700 concerning beneficial use of coal combustion by-products. The project start/completion dates are changed to the week of May 29, 1995 beginning time and estimated to be finished by early July, 1995. The other information initially submitted remains unchanged and satisfactory. 1996

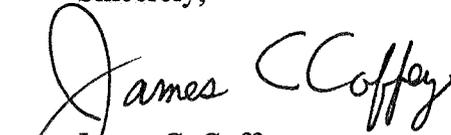
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Ms. Casey  
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Please contact me at (919) 733-0692, ext. 255 or Bill Hocutt at (919) 733-0692, ext. 260 if you have any questions about this.

Sincerely,

  
James C. Coffey  
Permitting Branch Supervisor  
Solid Waste Section

cc: Bill Hocutt  
Jim Barber  
Rod Raybold; Valley Energy Facility; Highway 158 and Railroad St.; Weldon, NC 27890  
R. E. Greene, Jr., P.E.; NC Dept. of Transportation; Resident Engineer's Office; RFD 2,  
Box 29C; Nashville, NC 27856  
Steve Doyon; Cogentrix of Rocky Mount; P.O. Box 370; Route 2; Battleboro, NC 27809  
Robert Waldrop; ReUse Technology, Inc.; 100 Chastain Center Blvd.; Suite 155;  
Kennesaw, Ga 30144



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT, JR.  
GOVERNOR

P.O. BOX 25201, RALEIGH, N.C. 27611-5201

R. SAMUEL HUNT III  
SECRETARY

April 26, 1995

State Project: 8.1301002  
F.A. Project: IR-95-3(57)17  
T.I.P.: I-2004  
Halifax County

"New Interchange on I-95 at NC 125, South of Roanoke Rapids"

Mr. Bill Hocutt  
North Carolina Department of Environment, Health,  
and Natural Resources, Solid Waste Section  
P.O. Box 27687  
401 Oberlin Road, Suite 150  
Raleigh, NC 27611-7687

Dear Mr. Hocutt,

The North Carolina Department of Transportation as land owners of the subject project, will file a statement of the volume and locations of the coal combustion by-products with the Register of Deeds in Halifax County where the property is located within 90 days after completion of coal combustion by-product fill. The statement will identify the parcel of land according to the complete legal description on the recorded deed, either by metes and bounds, or by reference to a recorded map. The statement will be signed and acknowledged by the form prescribed by G.S. 47-38 through 47-43.

Sincerely,

A handwritten signature in cursive script, appearing to read "Larry R. Goode".

Larry R. Goode, PhD, PE  
State Highway Administrator

LRG/mc

cc: R. E. Greene, P.E.





STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR.  
GOVERNOR

DIVISION OF HIGHWAYS

GARLAND B. GARRETT JR.  
SECRETARY

3013 US 64 Alternate  
Nashville, North Carolina 27856  
August 19, 1996

Halifax County Register of Deeds  
Post Office Box 67  
Halifax, North Carolina 27839

To Whom It May Concern:

A statement of use of coal combustion by-products for a NCDOT highway construction project at the interchange of I-95 and NC 125 is attached for your use.

Please record this statement in accordance with G. S. 161-14 and then return the original to:

Division of Solid Waste Management  
Solid Waste Section (Coal Ash)  
401 Oberlin Road, Suite 150  
Raleigh, North Carolina 27605

Respectfully,

A handwritten signature in black ink, appearing to read "R. E. Greene, Jr.", with a long horizontal flourish extending to the right.

R. E. Greene, Jr., P.E.  
Resident Engineer

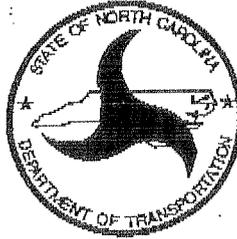
REGjr:jat

Attachment

cc: Mr. L. A. Sanderson, P.E.  
Mr. D. R. Dupree  
Mr. J. C. Manning, P.E.  
Ms. Marie Casey  
Division of Solid Waste Management  
File (c:\winword\letters\nc125\deed)







# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## DIVISION OF HIGHWAYS



Resident Engineer's Office



RFD 2, Box 29C  
Nashville, NC 27856

Telephone: (919) 459-2129

Fax: (919) 459-2401

CS # 07-73-07

Date: 4-21-95

Please deliver the following pages to:

JIM HOSKINS    CECIL JONES    JC MANNING  
JIM COFFEY    MARIE CASEY    DREW JOHNSON

Fax #'s 237-6164, 733-4810, 733-8742, 250-4119, 823-0137  
(2)

This transmittal is being sent from RICKY GREENE

There should be a total of 3 pages (including the cover sheet).  
<sup>NOT</sup>

(If all pages are not received, please call the number listed above.)

Remarks:

NCDOT PROJECT 8-1301002 HALIFAX CO. I-95/NC 125 INTERCHANGE

- CONTRACTOR'S REQUEST TO USE FLYASH IN EMBANKMENT

APR-21-1995 07:57 FROM BARNHILL TARBORO

TO

917004592401

P.02



2311 North Main Street, P.O. Box 1529  
Tarboro, North Carolina 27886

919-823-1021 Fax 919-823-0137

April 21, 1995

Mr. R. E. Greene, Jr., P. E.  
N. C. Department of Transportation  
Division of Highways  
Rt. 2, Box 29-C  
Nashville, North Carolina 27856

Re: Project No. 8.1301002/BCC #25594  
Halifax County, N. C.  
Fly Ash Usage

Dear Mr. Greene:

We are requesting to use fly ash in lieu of borrow material on portions of the above referenced project. We are proposing the use of this material in the following areas:

1. Core fill for Ramp C embankment
2. Fill with shredded tires
3. Mixed with regular borrow

Per our previous conversation, you are very aware of the limited quantity of the fly ash produced per week. We are also requesting, because of the limited production, that the fly ash be stockpiled for use on the project. Please review and reply to this request at your earliest possible convenience, so that we will not miss this opportunity.

If additional information is required, please advise.

Yours very truly,

BARNHILL CONTRACTING COMPANY

A handwritten signature in dark ink, appearing to read 'Drew M. Johnson', is written over the typed name.

Drew M. Johnson, P. E.  
Engineer/Estimator

DMJ/jks

Enclosure

WTA 010-450-2401

PROPOSAL TO USE FLYASH IN NCDOT T.I.P. PROJECT  
FOR EMBANKMENT CONSTRUCTION

A Joint Request from NCDOT and Barnhill Contracting Company

Description of Project:

NCDOT Project 8.1301002 in Halifax County is a new interchange on Interstate 95 at NC 125 approximately 2 miles south of Roanoke Rapids. The work to be performed includes grading, drainage, paving, new bridge, guardrail and signing. This project already includes use of recycled or recyclable products such as:

- plastic for fence posts, delineators, guardrail offset blocks, barricade support members and corrugated pipe
- chipped tire for use in embankment construction
- Fly ash in concrete mixes
- glass beads for pavement marking lines

Dates of Construction:

Work began on 1-23-95 and is scheduled for completion by 7-1-96 with the exception of landscape planting which should be completed by 12-27-96. Embankment construction began 4-18-95 and should continue for the next 6-8 weeks.

Volume of Fly Ash Proposed for Use in Embankment Construction:

Approximately 5000-7000 cubic yards could be utilized if a favorable decision is reached within the next two weeks. This quantity is dependent on temporarily stockpiling the fly ash within the project limits. The contractor for this project needs to have the material readily available at the proper point for embankment formation to prevent construction delays.

Toxicity Characteristic Leaching Procedure (TCLP) Analysis:

A copy of this analysis is attached and has been previously submitted to DEHNR for review as a part of the notification for other structural fill projects in the private or municipal sector.

Owner of Affected Property:

All fly ash structural fill would be placed on right-of-way owned by the N. C. Department of Transportation. The Department supports the contractor's request and consents to use of fly ash in embankment construction on this project. As constructed plans would be prepared and maintained by the Department after completion of the project. These plans would indicate the physical limits of the fly ash material within the project embankment.

Fly Ash Generator:

Roanoke Valley Energy Facility  
Located: Highway 158 and Railroad Street  
Weldon, NC 27890  
Contract: Rod Raybold  
Telephone: (919) 536-3200

Site Considerations:

The temporary stockpile and final location of the fly ash fill would meet all guidelines established by DEHNR Regulation .1704 "Siting for Structural Fill Facilities."

Design and Construction Considerations:

The coal fly ash will be placed in the core of the embankment with a minimum distance of 4 feet separating the fly ash from subgrade or the outside limit of the natural earth embankment, sides and bottom.

Embankments will be constructed by placing fly ash in level, uniform lifts. The thickness of each lift shall be a maximum of 10 inches or no greater than can be compacted to a minimum density of 95% as determined by test methods AASHTO T-99, Determination of Maximum Density and Optimum Moisture Content, Method A or C. The moisture content at the time of compaction shall be within 4% of optimum moisture but no greater than 1% of optimum moisture. Testing shall be performed by NCDOT personnel working under the supervision of a registered professional engineer.

Fly ash will be delivered to the project conditioned by the addition of water in covered trucks. No dusting will be permitted. The temporary stockpile of fly ash shall be constructed with stable slopes and surface conditioned as necessary to prevent movement of the stockpiled material by rainfall. The stockpile would remain in place approximately a month or less. All stockpiled fly ash would be used in project embankment.

# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-8300 FAX: 708-953-8306



Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
1129 W. OLNEY ROAD, NORFOLK, VA 23507  
TEL: (804) 626-0006  
FAX: (804) 626-0408

February 8, 1995

ROANOKE VALLEY ENERGY FACILITY  
UC Operating Services  
Highway 158 & Railroad Street  
WELDON, NORTE CAROLINA 27890

Sample identification by  
Yourselves

Sample type: Submitted  
RVEC Id: Fly Ash

Kind of sample reported to us **SUBMITTED**

Sample taken at \_\_\_\_\_

Sample taken by **Yourselves**

Date sampled \_\_\_\_\_

Date received **January 12, 1995**

Analysis Report No.: **54-30448-02**

## TOXICITY CHARACTERISTIC LEACHATE PROCEDURE

### TCLP-PREPARATION DATA (Mark with "YES")

Sample Phase	
Solid .....	YES
Sludge .....	---
Liquid .....	---
Suspended Solids, %	
>0.5 .....	YES
<0.5 .....	---
Sample Treatment	
Extracted, Filtered, and Analyzed.	YES
Filtered and Analyzed .....	---

Bottle Extraction Date & Analyst . --- SW1311 01/27/95 11:00 KE

TCLP Extraction Procedure and Regulatory Levels: 40CFR; Part 261; Appendix II  
Method Reference: USEPA: Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed; Nov. 1986

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*[Handwritten Signature]*  
Manager, Norfolk Laboratory



PLEASE ADDRESS ALL CORRESPONDENCE TO:  
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 TEL: (804) 626-0006  
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February 8, 1995

ROANOKE VALLEY ENERGY FACILITY  
 UC Operating Services  
 Highway 158 & Railroad Street  
 WELDON, NORTH CAROLINA 27890

Sample identification by  
 Yourselves

Sample type: Submitted  
 RVEC Id: Fly Ash

Kind of sample reported to us: SUBMITTED  
 Sample taken at: -----  
 Sample taken by: Yourselves  
 Date sampled: -----  
 Date received: January 12, 1995

Analysis Report No.: 54-30448-02

TOXICITY CHARACTERISTIC LEACHATE PROCEDURE: METALS

PARAMETER	RESULT	MDL	UNITS	METHOD	REGULATORY LEVEL	ANALYZED DATE/TIME/ANALYST
Asenic [As] in leachate (TCLP)	ND	0.10	MG/L	SW6010	5.0	01/30/95 20:26 ELS
Barium [Ba] in leachate (TCLP)	2.4	0.01	MG/L	SW6010	100	01/30/95 20:26 ELS
Cadmium [Cd] in leachate (TCLP)	ND	0.02	MG/L	SW6010	1.0	01/30/95 20:26 ELS
Chromium [Cr] in leachate (TCLP)	ND	0.05	MG/L	SW6010	5.0	01/30/95 20:26 ELS
Lead [Pb] in leachate (TCLP)	ND	0.10	MG/L	SW6010	5.0	01/30/95 20:26 ELS
Selenium [Se] in leachate (TCLP)	ND	0.10	MG/L	SW6010	1.0	01/30/95 20:26 ELS
Silver [Ag] in leachate (TCLP)	ND	0.01	MG/L	SW6010	5.0	01/30/95 20:26 ELS
Mercury [Hg] in leachate (TCLP)	0.0029	0.002	MG/L	SW7470	0.2	01/31/95 10:12 NVW

ND: Not detected at a concentration greater than MDL - Method Detection Limit.  
 Method Reference: USEPA: Test Methods For Evaluating Solid Waste; SW-846, 3rd Edition; Nov, 1986  
 TCLP Extraction Procedure and Regulatory Levels: 40CFR; Part 261; Appendix II.

Respectfully submitted,  
 COMMERCIAL TESTING & ENGINEERING CO.

Manager, Norfolk Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, UNDERWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

MEMBER OF THE SGS GROUP

PHONE NO. : 536 4329

FROM : THE PLUMBLINE CORP. P.A.

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
 1129 W. OLNEY ROAD, NORFOLK, VA 23507  
 TEL: (804) 626-0006  
 FAX: (804) 626-0408

February 8, 1995

ROANOKE VALLEY ENERGY FACILITY  
 UC Operating Services  
 Highway 158 & Railroad Street  
 WELDON, NORTH CAROLINA 27890

Sample identification by  
 Yourselves

Sample type: Submitted  
 RVEC Id: Fly Ash

Kind of sample reported to us SUBMITTED

Sample taken at -----

Sample taken by Yourselves

Date sampled -----

Date received January 12, 1995

Analysis Report No.: 54-30448-02

SPIKED SAMPLE ANALYSIS SUMMARY REPORT  
 FOR TCLP METALS

PARAMETER	RESULT	SPIKE LEVEL	UNITS	PERCENT RECOVERY
<b>QC SPIKE</b>				
Arsenic [As] in leachate (TCLP)	2.0	2.0	mg/L	100
Barium [Ba] in leachate (TCLP)	*	0.60	mg/L	
Cadmium [Cd] in leachate (TCLP)	0.55	0.60	mg/L	92
Chromium [Cr] in leachate (TCLP)	0.59	0.60	mg/L	98
Lead [Pb] in leachate (TCLP)	1.8	2.0	mg/L	90
Selenium [Se] in leachate (TCLP)	1.0	1.0	mg/L	100
Silver [Ag] in leachate (TCLP)	0.60	0.60	mg/L	100
Mercury [Hg] in leachate (TCLP)	0.0024	0.002	mg/L	120

All spike results are corrected for the sample background  
 Percent Recovery = Background corrected spike result / spike level x 100

\*: Unable to demonstrate Spike Recovery because of high analyte concentration.

Respectfully submitted,  
 COMMERCIAL TESTING & ENGINEERING CO.

*[Handwritten Signature]*  
 Manager, Norfolk Laboratory





STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT, JR.  
GOVERNOR

DIVISION OF HIGHWAYS  
Route 7, Box 29-C  
Nashville, NC 27856  
May 4, 1995

R. SAMUEL HUNT III  
SECRETARY

State Project: 8.1301002 (I-2004)  
F. A. Number: NHF-95-3(71)170  
County: Halifax  
Description: New Interchange on I-95 at NC 125, South of Roanoke Rapids

Mr. Drew M. Johnson, P.E.  
Barnhill Contracting Company  
Post Office Box 1529  
Tarboro, North Carolina 27886

SUBJECT: Use of Coal Fly Ash in Embankment

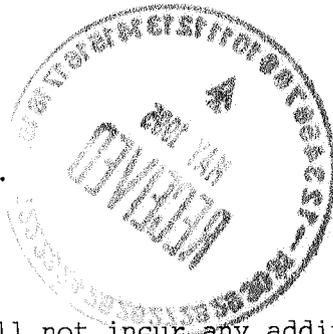
Dear Mr. Johnson:

Your letter to my office dated April 21, 1995 requested the use of coal fly ash as a substitute for natural earth borrow within portions of the roadway embankment for this project. Your request is approved and you are free to proceed under the following conditions:

1. The stipulations in DEHNR's notice to proceed letter (4-27-95) and DEHNR's "Requirements for Beneficial Use of Coal Combustion By-Products" will govern. This information is attached for your further use.
2. Coal fly ash shall be placed in the core of embankment as directed by the Engineer. No coal fly ash shall be placed within four (4) feet of the outside limits of embankment or subgrade.
3. Coal fly ash shall be compacted to a minimum density of 95% as determined by AASHTO, Method C - Determination of Maximum Density and Optimum Moisture Content. This testing will be performed by my office.
4. The quantity of coal fly ash to be paid for will be the actual number of cubic yards of approved material, measured in trucks, which has been delivered and incorporated into completed and accepted work. Each truck will be measured (LxWxD) by my office and should arrive on the project loaded to its measured capacity. The reduction in pay quantity due to voids will be limited to 10% instead of the customary 25%. Payment will be made under the Borrow line item.
5. Delivery trucks will have fully functioning, audible backup alarms as required by OSHA regulations. Any truck which does not have such an alarm will be barred from the project.



Mr. Drew M. Johnson, P.E.  
May 4, 1995  
Page Two



6. The Department shall not incur any additional expense due to use of coal fly ash material in lieu of borrow.

The Department appreciates your efforts to make beneficial use of a by-product material on this project. Please feel free to contact me if you need any additional information.

Respectfully,

A handwritten signature in cursive script that reads "R. E. Greene, Jr." The signature is written in dark ink and is positioned above the typed name.

R. E. Greene, Jr., P.E.  
Resident Engineer

REGjr:jat

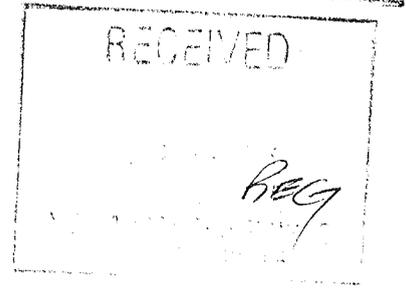
Attachments

cc: Mr. J. D. Goins, P.E.  
Mr. L. A. Sanderson, P.E.  
Mr. D. R. Dupree  
Mr. J. C. Manning, P.E.  
Mr. C. L. Jones, P.E.  
Ms. M. L. Casey  
Mr. J. C. Coffey  
Mr. Rod Rabold  
File



2311 North Main Street, P.O. Box 1529  
Tarboro, North Carolina 27886

919-823-1021 Fax: 919-823-0137



April 21, 1995

Mr. R. E. Greene, Jr., P. E.  
N. C. Department of Transportation  
Division of Highways  
Rt. 2, Box 29-C  
Nashville, North Carolina 27856

Re: Project No. 8.1301002/BCC #25594  
Halifax County, N. C.  
Fly Ash Usage

Dear Mr. Greene:

We are requesting to use fly ash in lieu of borrow material on portions of the above referenced project. We are proposing the use of this material in the following areas:

1. Core fill for Ramp C embankment
2. Fill with shredded tires
3. Mixed with regular borrow

Per our previous conversation, you are very aware of the limited quantity of the fly ash produced per week. We are also requesting, because of the limited production, that the fly ash be stockpiled for use on the project. Please review and reply to this request at your earliest possible convenience, so that we will not miss this opportunity.

If additional information is required, please advise.

Yours very truly,

BARNHILL CONTRACTING COMPANY

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Drew M. Johnson, P. E.  
Engineer/Estimator

DMJ/jks

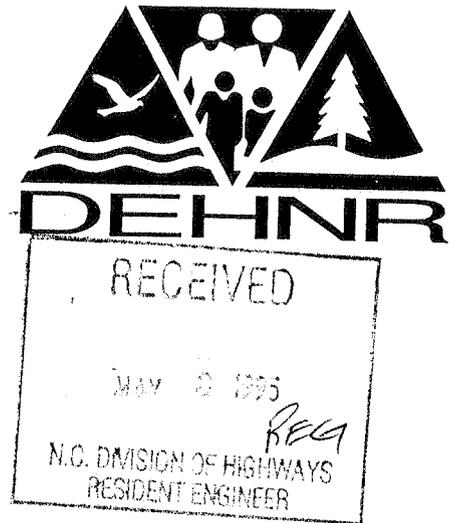
Enclosure

VIA Fax: 919-459-2401

State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Division of Solid Waste Management

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director

April 27, 1995



Ms. Marie L. Casey  
NC Department of Transportation  
Century Center  
P.O. Box 25201  
Raleigh, NC 27611

Subject: Coal Fly Ash structural fill at interchange of I-95 and NC 125, South of Roanoke Rapids in Halifax County, NC. (State Project 8.1301002, I 2004)

Dear Ms. Casey:

The Division of Solid Waste management has received your notification of plans to utilize coal ash in the subject project on which embankment construction began April 18, 1995. The coal fly ash structural fill portion of this project is estimated to be completed by early June, 1995. Approximately 5,000 - 7,000 cubic yards of coal fly ash have been estimated as the size of this fill. The information submitted satisfies the requirements for coal ash structural fill activities as set forth in Solid Waste Management Rules 15A NCAC 13B Section .1700 concerning beneficial use of coal combustion by-products.

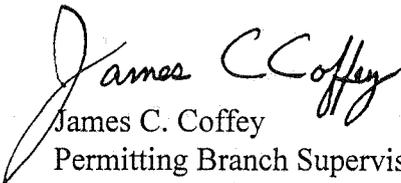
Please be aware that the size of a fill project is not a decisive factor in determining if the services of NC licensed professional engineer (PE) is necessary on a coal ash structural fill. The Section 1700 Rules do specify that a proposed fill site which anticipates utilization of 10,000 Yd<sup>3</sup> or more must include a PE approved Construction Plan in the Notification. Regardless of the volume of coal ash used in a structural fill project, the Closure Rule, 15A N.C. Administrative Code 13B .1706, requires certification signed and sealed by a PE that all rules in Section .1700 have been met. These rules include, among other things, Rule 1704 (a) (4) certification that no coal ash has been placed within two feet of the seasonal high groundwater table and certification under Rule 1705 (c) that the coal ash has been placed uniformly and compacted in lifts not exceeding one foot in thickness, compacted to standards including in-situ density, compaction effort and relative density, specified by a PE for a specific end use purpose. Critical set back distances are specified in Rule .1704. Rule .1705 (c) engineering specifications must be designated before commencement of the fill. Moreover, a PE cannot certify that these rules have been met unless he or she has been involved in the project from the beginning and has made periodic inspections of the work in progress.

Ms. Casey  
Page 2.

Analyses of groundwater samples collected from monitoring wells located at a North Carolina coal ash structural fill site indicate that the ash may have caused or contributed to violation of the 15A N.C. Administrative Code 2L Standards for arsenic, cadmium, chromium, lead, and selenium, as well as elevated sulfate levels. Based upon this information, the Solid Waste Management Division strongly recommends that you retain the services of a qualified hydrogeologic consulting firm to assist you in determining the vulnerability of the groundwater at the site based on site attenuation, waste extractability and end use to inhibit infiltration and consider installation of groundwater monitoring wells on vulnerable sites before commencing fill operations.

Please contact me or Bill Hocutt at (919) 733-0692 if you have any question about this.

Sincerely,

  
James C. Coffey  
Permitting Branch Supervisor  
Solid Waste Section

cc: Bill Hocutt  
Jim Barber  
Rod Raybold; Valley Energy Facility; Highway 158 and Railroad St.; Weldon, NC 27890  
R.E. Greene, Jr., P.E.; NC Dept. of Transportation; Resident Engineer's Office; RFD 2,  
Box 29C; Nashville, NC 27856

P Court

This instrument drawn by: M. E. [Signature]

Checked by: W. T. [Signature]

NORTH CAROLINA  
Halifax COUNTY  
TAX LOT NO. \_\_\_\_\_

I. D. NO. 1-2004  
STATE HIGHWAY PROJECT 8.1301002  
F. A. PROJECT NHF-95-3(71)170  
PARCEL 001

THIS FEE SIMPLE DEED, made and entered into this the 9 day of September, 1994, by and between Raymond P. Garner, and wife Roxie Garris Garner; Edward Carlton Garner, and wife Undine Caudle Garner hereinafter referred to as the GRANTORS, and the Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the DEPARTMENT:

W I T N E S S E T H:

That the GRANTORS, for themselves, their heirs, successors, and assigns, for and in consideration of the sum of \$                     agreed to be paid by the DEPARTMENT TO THE GRANTORS, do hereby give, grant and convey unto the DEPARTMENT, its successors and assigns, in FEE SIMPLE (subject to any provisions relating to abutters' rights of access which may be hereinafter stated) the right of way located in Weldon Township, Halifax County, North Carolina, which is particularly described as follows:

Beginning at a point 30' southwest of and normal to survey station 29+12.02, survey line Y-REV.; thence southwesterly in a straight line to a point 50' southwest of and normal to survey station 29+12.02, survey line Y-REV.; thence northwesterly in a straight line to a point 50' southwest of and normal to survey station 26+12.51, survey line Y-REV.; thence northwesterly in a straight line to a point 56.39' southwest of and normal to survey station 25+70, survey line Y-REV.; thence northwesterly in a straight line to a point 80' southwest of and normal to survey station 24+50, survey line Y-REV.; thence northwesterly in a straight line to a point 80' southwest of and normal to survey station 23+25, survey line Y-REV.; thence northwesterly in a straight line to a point 90' southeast of and normal to survey station 13+50, survey line RAMP C; thence southwesterly in a straight line to a point 80' southeast of and normal to survey station 11+56.00, survey line RAMP C; thence southwesterly along a line at all points being 80' southeast of and normal to survey line RAMP C, to a point 80' southeast of and normal to survey station 8+56.00, survey line RAMP C; thence southwesterly along a line at all points being 80' southeast of and normal to survey line RAMP C to a point 80' southeast of and normal to survey station 4+12.30, survey line RAMP C; thence southwesterly along a line at all points being 80' southeast of and normal to survey line RAMP C to a point 80' southeast of and normal to survey station 1+12.30, survey line RAMP C; thence southwesterly in a straight line to a point on the existing southeastern right of way boundary of I-95 (as described in Deed Book 763, Page 185 in the office of the Halifax County Registry), said point being 78' southeast of and normal to survey station 0+00.00, survey line RAMP C; thence northeasterly along the existing southeastern right of way boundary of I-95 to its intersection with survey line Y-REV.; thence southeasterly along survey line Y-REV. passing through equality station Y-REV. POT 21+58.84=RAMP C POT 15+05.38=RAMP D POT 20+07.93 and equality station Y-REV. POT 26+60.00=Y1-REV. POT 10+00.00 to survey station 29+12.02, survey line Y-REV.; thence southwesterly in a straight line to the point of beginning.

The property hereinabove described was acquired by the GRANTORS by instrument(s) recorded in the Halifax County Registry in Deed Book 1564, Page 405

The final right of way plans showing the above-described right of way are to be certified and recorded in the Office of the Register of Deeds for said County pursuant to N.C.G.S. 136-19.4, reference to which plans is hereby made for purposes of further description.

TO HAVE AND TO HOLD the aforesaid right of way and all privileges and appurtenances thereunto belonging to the DEPARTMENT in FEE SIMPLE.

This deed is subject to the following provisions only: It is understood and agreed that the total consideration in the amount of \$115,000.00 is to be made payable as follows: Raymond P. Garner, and wife Roxie Garris Garner: \$57,500.00 Edward Carlton Garner, and wife Undine Caudle Garner: \$57,500.00

NOTE: Coal combustion by-products were placed in the roadway embankment for Ramp 'C' from Station 8+00 to 11+00 for a total distance of approximately 300 feet.

Halifax COUNTY

NORTH CAROLINA

RECEIVED

REG

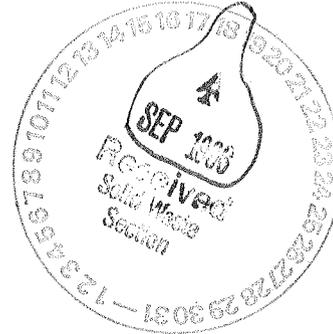
BOOK 1682 PAGE 213

STATEMENT OF USE OF COAL COMBUSTION BY-PRODUCTS

I, Richard E. Greene, Jr., pursuant to 15A North Carolina Administrative Code 13B.1707 do/does hereby state that 4117 cubic yards of coal combustion by-products have been utilized as fill material on the parcel of land more particularly described below:

LEGAL DESCRIPTION:

See attachment



NAME:

*Richard E. Greene, Jr.*

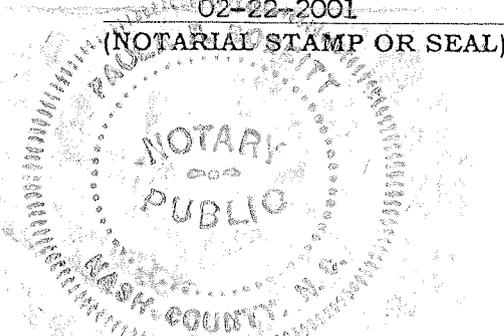
I, Paula B. Bobbitt, do hereby certify that (Name of Signatory) Richard E. Greene, Jr. personally appeared before me this day and acknowledged the due execution of the foregoing instrument. Witness my hand and official seal this the 15th day of August, 1996.

*Paula B. Bobbitt*  
Notary Public

My Commission Expires:

02-22-2001

(NOTARIAL STAMP OR SEAL)



North Carolina, Halifax County

The foregoing certificate of

*Paula B. Bobbitt*

a Notary Public of

*Nash*

County is certified to be

correct. This 9 day of September

1996 Recorded

1:40 P.M.

Book 1682

Page 213

Judy Evans-Barbee, *Judy Evans-Barbee*  
Register of Deeds Halifax Co.

The Register of Deeds in accordance with G.S. 161-14 shall record the notarized statement and index it in the Grantor Index under the name of the owner(s) of the land. The original notarized statement with the Register's seal and the date, book and page number of recording shall be returned to the Division after recording.

Mail completed recorded original notification to the following address:

Division of Solid Waste Management  
Solid Waste Section (Coal Ash)  
401 Oberlin Road, Suite 150  
Raleigh, NC 27605  
(919) 733-0692, ext. 260