SHIELD
ENGINEERING, INC.

September 25, 2009

Solid Waste Section
Division of Waste Management
NCDENR
401 Oberlin Road
Raleigh, North Carolina 27605

RE: Closure Report for Beneficial Use Structural Fill
Belews Creek Steam Station
Duke Energy Company
Stokes County, North Carolina
Shield Project No. 1040010

Shield Engineering, Inc. (Shield) is pleased to present the attached Closure Report for a Beneficial Use Structural Fill project for the Duke Energy facility. If you have any questions concerning this notification, please do not hesitate to call us at (704) 394-6913.

Sincerely,
Shield Engineering, Inc.

Jeremy Horton, E.I.
Staff Engineer

Keith A. Anthony, P.E.
Principal Engineer

Attachment

cc: Tim Smart – Duke Energy

4301 Taggart Creek Road
Charlotte, NC 28208

www.shieldengineering.com

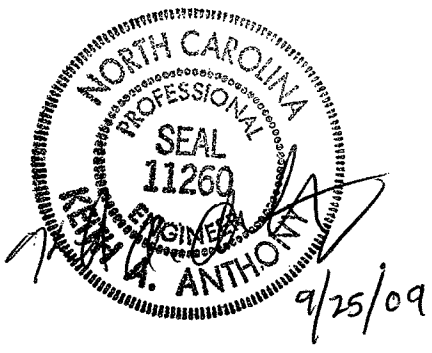
Telephone 704.394.6913
Fax 704.394.6968

Closure Report for Beneficial Use Structural Fill
Belews Creek Steam Station
Duke Energy Company
Stokes County, North Carolina

Prepared for:
Duke Energy Company
Charlotte, North Carolina

Prepared by:
Shield Engineering, Inc.
4301 Taggart Creek Road
Charlotte, North Carolina 28208

Shield Project No. 1040010



September 2009

SHIELD
ENGINEERING, INC.

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1.0 INTRODUCTION

The submittal of this Beneficial Use Structural Fill Closure shall serve as written notice of Duke Energy Company's plan to close a beneficial use structural fill project utilizing coal combustion by-products, otherwise called ash. This submittal contains information as required under T15A:13B.1700 - Requirements for Beneficial Use of Coal Combustion By-Products.

1.1 Project Description

This beneficial use structural fill project is planned for an industrial development site located adjacent to Duke Energy Company's Belews Creek Steam Station. This site has been developed for potential use as an equipment/material staging area and/or overflow parking. The finished top portion of this area has already been utilized for equipment staging while the fill was still in progress. The entire Duke Energy Company property, including the area of the structural fill, is designated on the Belews Lake, NC 7.5 minute USGS quadrangle map (Figure 1).

1.2 Schedule

The Notification of the Beneficial Use Structural Fill was submitted on May 7, 2003. Ash fill operations were initiated in February 2004. The last ash placement occurred in July 2009.

2.0 FILL OPERATIONS

Following are the operational procedures, which were used and/or implemented during this project.

2.1 Protection of the Environmental

The structural fill facility was designed, constructed, operated, closed, and maintained in such a manner as to minimize the potential for release of harmful constituents of ash to the environment or create a nuisance to the public. This was accomplished through the procedures explained below.

2.2 Erosion and Sedimentation Control

Site development complied with the North Carolina Sedimentation Pollution Control Act of 1973, as amended. An Erosion and Sedimentation Control Plan was submitted on December 3, 2003 and approved by the North Carolina Department of Environment and Natural Resources on December 19, 2003.

2.3 Off-Site Discharge

The beneficial use structural fill facility was effectively maintained and operated to prevent discharge of ash to surface water resulting from the operation of the facility. The main sediment control basin was designed to contain the 100 year – 24 hour storm event. During the entire operation of the beneficial fill a pump was provided at the sediment basin in order to pump any accumulated discharge to the coal yard sump, which

discharges to the Ash Basin. This Ash Basin is permitted as an NPDES wastewater treatment facility. Because of this added control there were no discharges to Belews Lake.

2.4 Ash Placement

Ash was placed uniformly and compacted in lifts not exceeding twelve (12) inches in thickness and were compacted to standards, including in-situ density, compaction effort and relative density, specified by a registered Professional Engineer for a specific end use purpose.

2.5 Cover Material

Upon completion of the project the structural fill was covered with a minimum of twelve (12) inches compacted earth, and an additional six (6) inches of surface soil capable of supporting native plant growth.

3.0 DENSITY TESTING

To insure that the fill was properly constructed, density tests were performed as the ash was placed. Approximately once a week a representative of Shield Engineering visited the site to conduct the density testing. Density tests and one 1-point Proctors were performed during the weekly visits. The maximum dry density and optimum moisture content for each field test were compared to maximum dry density and optimum moisture content from Proctor tests. To pass, each test must meet the 95% compaction requirements. The results of these tests are included in Appendix A.

4.0 PROFESSIONAL ENGINEER INSECTIONS

Professional Engineer inspections were generally performed on a quarterly basis. During these inspections, a Professional Engineer from Shield Engineering would walk the entire site with the contractor responsible for constructing the fill, along with a representative from Duke Energy. Recommendations and comments on the construction of the fill and the erosion control measures were discussed during the site visit. These comments were provided to Duke Energy after the visit in the Professional Engineers Quarterly Inspection Report.

5.0 ASH VOLUME

Shield Engineering periodically performed a volume analysis using AutoCAD Civil3D to determine the amount of ash placed in the fill. The analysis utilizes a surface created from the original ground topography and a surface created from an as-built survey. The analysis compares the vertical difference between the surfaces over a specific area to determine the

approximate volume. The most recent volume analysis was performed in December 2007. The approximate fill volume, at that time, based on the analysis was 709,300 cubic yards with a projected total fill volume at closure of 918,300 cubic yards. Results of this analysis are included in Appendix A.

6.0 CLOSURE

The final cover has been placed and the entire fill has been graded and seeded. The site has been graded to minimize erosion of cover materials. Slope drains and drop inlets were installed to reduce the erosion effect of runoff on the slopes of the fill. The grading of the fill allows for drainage of area precipitation and prevents ponding on the top and the benches. Erosion control measures, such as silt fence and sediment traps were installed for the construction of the fill to ensure no visible ash migration to adjacent properties. Some of these measures are no longer needed and have been removed while others are still in use. Riprap aprons are located at the bottom of all slope drains to prevent erosion.

The fill has been covered with a minimum of 12 inches of compacted earth and 6 inches of soil capable of native plant growth per 15A NCAC 13B .1705. The depth of cover was verified by a Shield Engineering representative. A hand auger was used to dig a hole until ash was present in the auger head. The depth of the hole was then measured as well as the depth of ash in the hand auger head. The difference in measurements is the depth of cover on the fill. The initial soil verification identified several areas where soil thickness did not appear to meet the 18-inch requirement. These areas were covered with an additional 6 inches of soil. The locations and depths of these tests are shown on Figure 2.

7.0 RECORDATION

Following is the recordation procedure, which will be performed upon closure of this structural fill project.

1. Duke Energy Company shall file a statement of the volume and locations of the coal combustion by-product (ash) with the Register of Deeds in the Stokes County Office. The statement will identify the parcel of land with a complete legal description on the deed either by metes and bounds or reference to a recorded plat map. The statement shall be signed and acknowledged by Duke Energy Company in the form prescribed by G.S. 47-38 through 47-43.

2. The recordation shall be filed within 90 days after completion of the project.

3. The Register of Deeds shall record the notarized statement and index it in the Grantor Index under the name of the owner of the land. The original notarized statement with the

Register's Seal, date, book, and page number of recording shall be returned to the Division after recording.

4. When the property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the description section, in no smaller type than used in the body of the deed or instrument, a statement that coal combustion by-products have been used as fill material on the property.

8.0 LIMITATIONS

This report has been prepared in accordance with generally accepted civil and environmental engineering practices for the exclusive use of Duke Energy Company, its agents, and/or clients. This report may not be reproduced in whole or in part without the permission of Duke Energy Company.

Our conclusions and recommendations are based upon our site observations, provided survey and Solid Waste Management requirements under T15A:13B.1700 - Requirements for Beneficial Use of Coal Combustion By-Products. We have assumed that information provided to us by others is correct and true, unless otherwise noted. If additional information or changes in information is available in the future we request the chance to review and change our recommendations, if necessary.

The Closure Report for Beneficial Use Structural Fill was prepared under my direct supervision:

By: _____
Keith A. Anthony, P.E.
Principal Engineer

I assisted with the preparation of this project:

By: _____
Jeremy Horton, E.I.
Staff Engineer

FIGURES

SHIELD
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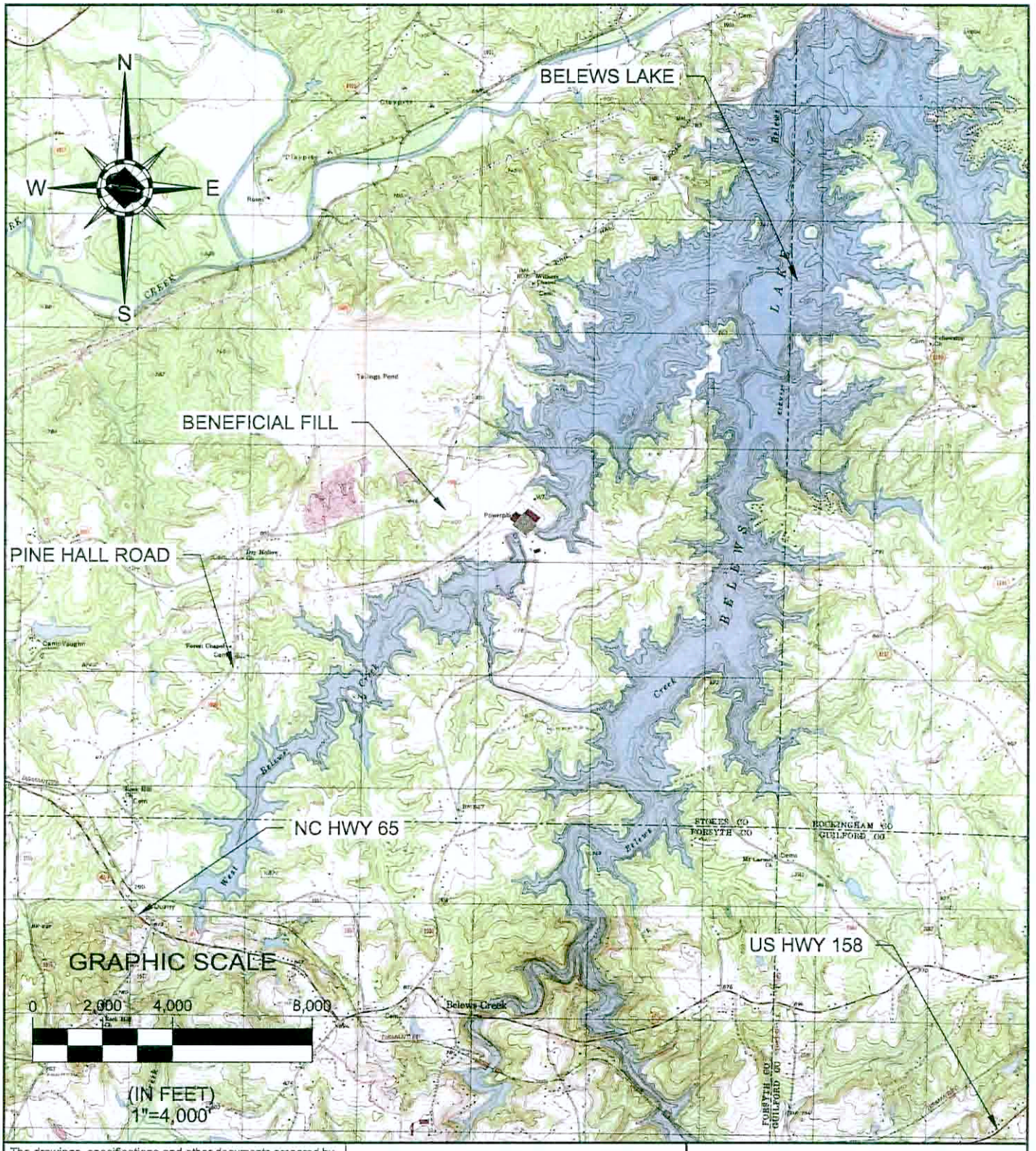


The drawings, specifications and other documents prepared by Shield engineering for this project are instruments of Shield Engineering for use solely with respect to this project and, unless otherwise provided, Shield shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including copyright.

FILE NUMBER: 1040010-01	DRAWING NAME: 1040010-01 Vicinity Map.dwg
SCALE: 1"=4,000'	DRAWN BY: JTH
DATE: 9/21/09	CHECKED BY: KAA

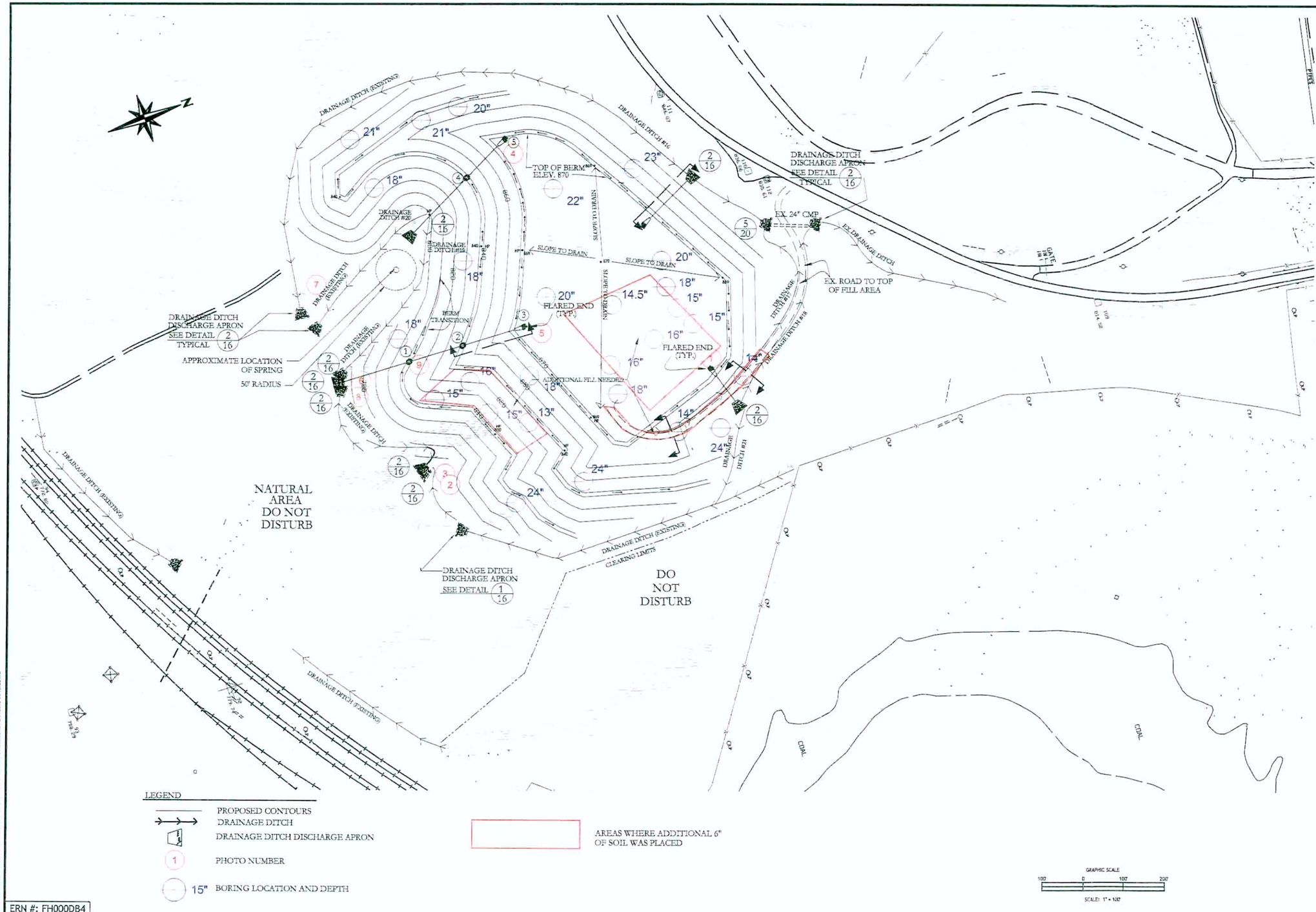
CLIENT NAME:
DUKE ENERGY CAROLINAS, LLC.
526 SOUTH CHURCH STREET
CHARLOTTE, NC

PROJECT NAME:
BELEWS CREEK BENEFICIAL FILL CLOSURE
3195 PINE HALL ROAD
WALNUT COVE, NC

SHEET TITLE:
VICINITY MAP

1

H:\Projects\2004\1040010-01 Belews Creek\Drawings\2009\1040010-01 Vicinity Map.dwg , 9/24/2009 3:20 PM, Jeremy Horton



ERN #: FH000DB4

H:\PROJECTS\2004\1040010-01 BELEWS CREEK\CLOSURE DRAWINGS\CLOSURE PLAN SOIL COVER.DWG

REVISIONS

REV.	DATE	COMMENTS
0	2/12/04	RELEASED FOR CONSTRUCTION
1	9/28/05	ADD ACCESS ROAD & REVISE SLOPE DRAINS

SHIELD ENGINEERING, INC.
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704 394 6968 FAX
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PROJECT #:	1040010-01
DATE:	9/28/05
PROJECT MGR:	KAA
DESIGNED BY:	KAA
DRAWN BY:	DW
SCALE:	AS NOTED

BELEWS CREEK STRUCTURAL FILL
DUKE ENERGY

CONSTRUCTION DRAWINGS - EXPANSION
CLOSURE PLAN

DRAWING: BC-1037-05.15

APPENDIX A

SHIELD
ENGINEERING, INC.

December 5, 2007

Mr. Mark Baker
Duke Energy - Mail Code: EC10A
526 South Church Street
P.O. Box 1006
Charlotte, North Carolina 28201-1006

RE: Beneficial Fill Volume Computations
Belews Creek Steam Station
Stokes County, North Carolina
Project Number 1040010-01

Dear Mr. Baker:

Shield Engineering has performed a preliminary earthwork analysis for the Belews Creek Steam Station located in Stokes County, North Carolina. The purpose of the analysis is to quantify the approximate volume of ash placed in the Beneficial Fill Area currently in use South of Pine Hall Road. Two of the existing topographic surfaces used during the course of these computations were produced by NOVA Digital (NOVA), while the third topographic surface used was produced by Shield Engineering.

During the course of the analysis, AutoCAD Civil 3D software was used to determine the quantity of ash placed within the outlined Fill Area (see Sheets 1-2). Each analysis utilizes a base surface prepared by NOVA, one of which is the original ground topography prior to any earth-moving activities, and the other an as-built surface showing current conditions. The analyses compare the vertical difference between the surfaces over a specific area in order to determine an approximate volume. The two analyses utilized are as follows:

1. Comparing the Original Base Surface prepared by NOVA (dated 1/10/01) with an As-Built Survey prepared by NOVA (dated 10/09/07).
2. Comparing the As-Built Survey prepared by NOVA (dated 10/09/07) with the "proposed" ultimate build-out topographic surface as prepared by Shield Engineering.

Analysis 1

The first analysis compares the Original Base Surface that was created by NOVA on January 10, 2001 with an As-Built Survey generated by NOVA on October 9, 2007. This Original Base topography represents the existing ground surface within the Beneficial Fill Area prior to any placement of material and/or any type of earthwork associated with this project. The As-Built topography represents the amount of material placed in the Beneficial Fill Area as of October 9, 2007. Both of the NOVA surfaces are based on aerial topography. The calculated total amount of fill material (ash) placed under Analysis 1 is approximately 709,000 yd^3.

Analysis 2

The second analysis compares the As-Built Survey generated by NOVA on October 9, 2007 with the "proposed" Ultimate Build-Out Topographic Surface as prepared by Shield Engineering on November 28, 2007. The "proposed" surface was generated by recreating the 3:1 side slopes, including the required

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10-ft benches, utilizing the already-established features shown on the As-Built Survey. These features include portions of the Fill Area already graded with established grass slopes (these areas were left intact), existing benches located along the existing slopes, existing ditches intended to be along the proposed toe-of-slopes, existing roadways to be used to reach to top of Fill Area, etc. This method allowed us to maximize the amount of fill material that could be stockpiled in the Fill Area without having to reconstruct the already-established features in and around the area in question. The calculated amount of fill material (ash/soil cover) that it will take to complete the Fill Area proposed by Shield Engineering (as of October 9, 2007) using Analysis 2 is approximately 209,000 yd^3.

Volume Comparison Table

Analysis	Base Surface	Comparison Surface	Cut	Fill	Net
1	NOVA Aerial (1/10/01)	NOVA As-Built (10/9/07)	7,473 cy	716,781 cy	709,308 cy
2	NOVA As-Built (10/9/07)	Shield Proposed Contours Ultimate Build-Out (11/28/07)	4,706 cy	213,672 cy	208,966 cy

Should you have any questions, please do not hesitate to call us at (704) 394-6913.

Sincerely,

SHIELD ENGINEERING, INC.

David Weikle, E.I.T.
Project Engineer

Keith A. Anthony, P.E.
Chief Engineer

NORTH CAROLINA PROFESSIONAL SEAL 11260 ENGINEER KEITH A. ANTHONY

12/5/07

Attachments

H:\Projects\2004\104001O-01 Belews Creek\As-Built Topo\10-09-07\Documents\Notification.doc

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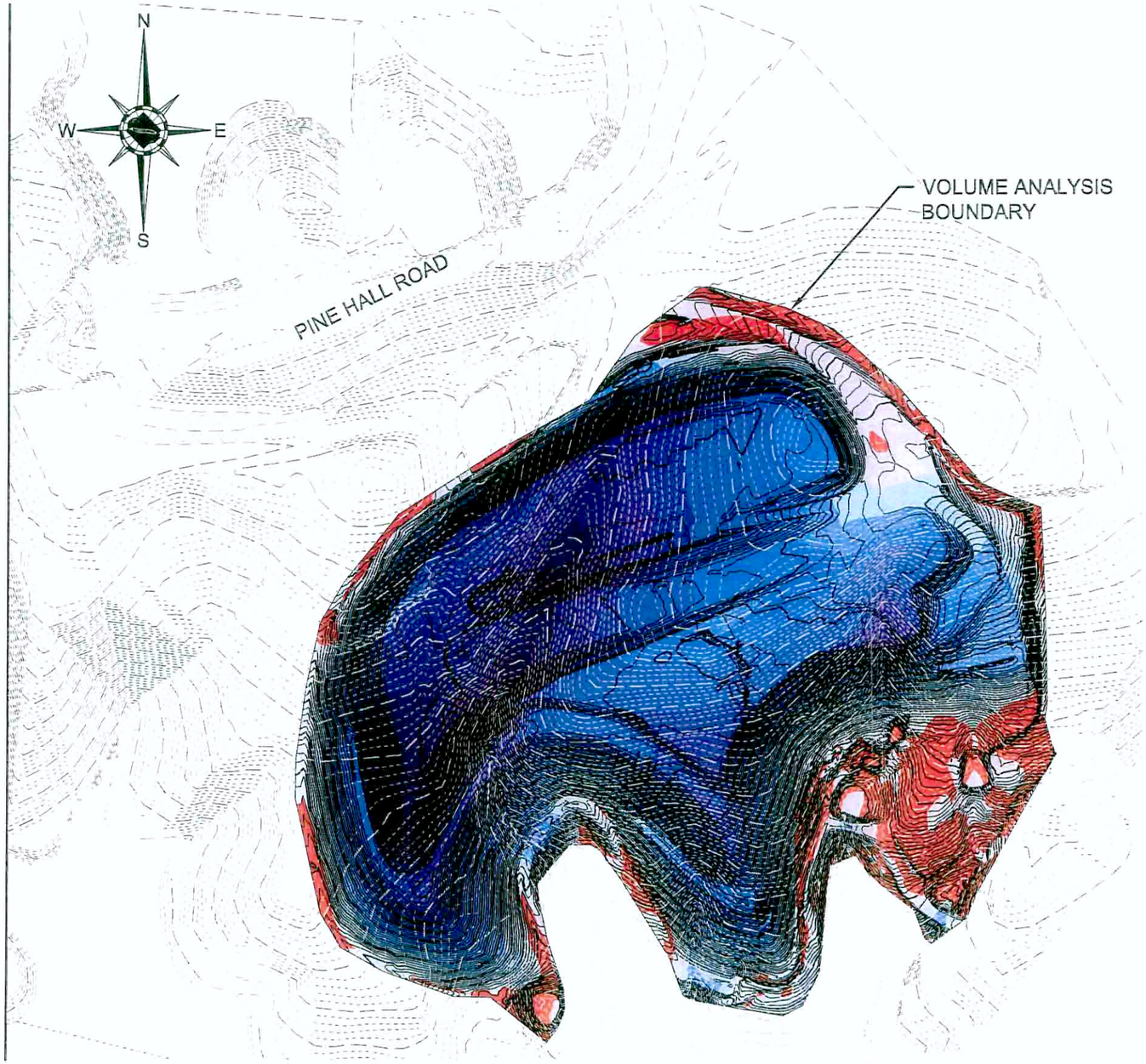

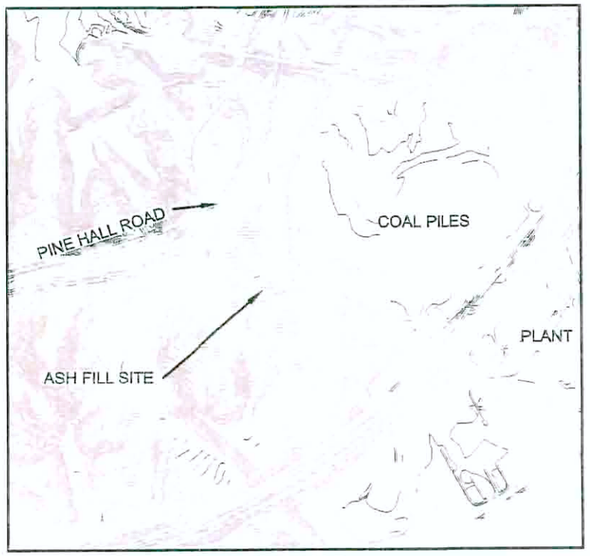

KEY MAP

Earthwork Summary Table				
Level	Color	Depth Range* Minimum (ft)	Depth Range* Maximum (ft)	Volume (cyd)
1		-10.00	-5.00	190909
2		-5.00	0.00	183623
3		0.00	5.00	149611
4		5.00	10.00	131842
5		10.00	15.00	115428
6		15.00	20.00	96883
7		20.00	25.00	77076
8		25.00	30.00	56905
9		30.00	35.00	39108
10		35.00	40.00	25882
11		40.00	45.00	15305
12		45.00	50.00	7162
13		50.00	55.00	1581

*A NEGATIVE (-) VALUE INDICATES A CUT DEPTH

Volume Summary Table		
CUT	7,473	CYD
FILL	716,781	CYD
NET	709,308	CYD

100' 0 200' 400' 600'

SCALE: 1"= 200'

ANALYSIS 1
NOVA AS-BUILT (10/09/2007) VS NOVA AS-BUILT (1/01/2001)

SCALE: 1"=200'

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PROJECT NAME: BELEWS CREEK STEAM STATION STOKES COUNTY, NC

CLIENT NAME: DUKE ENERGY CHARLOTTE, NC

DRAWING NAME: NOVA 2001 VS NOVA 2007
DRAWN BY: JH
FILE NUMBER: 1060030-01
CHECKED BY: AB
SCALE: AS SHOWN
DATE: 12/5/07

SHEET TITLE: NOVA AS-BUILT 2001 VS NOVA AS-BUILT 2007

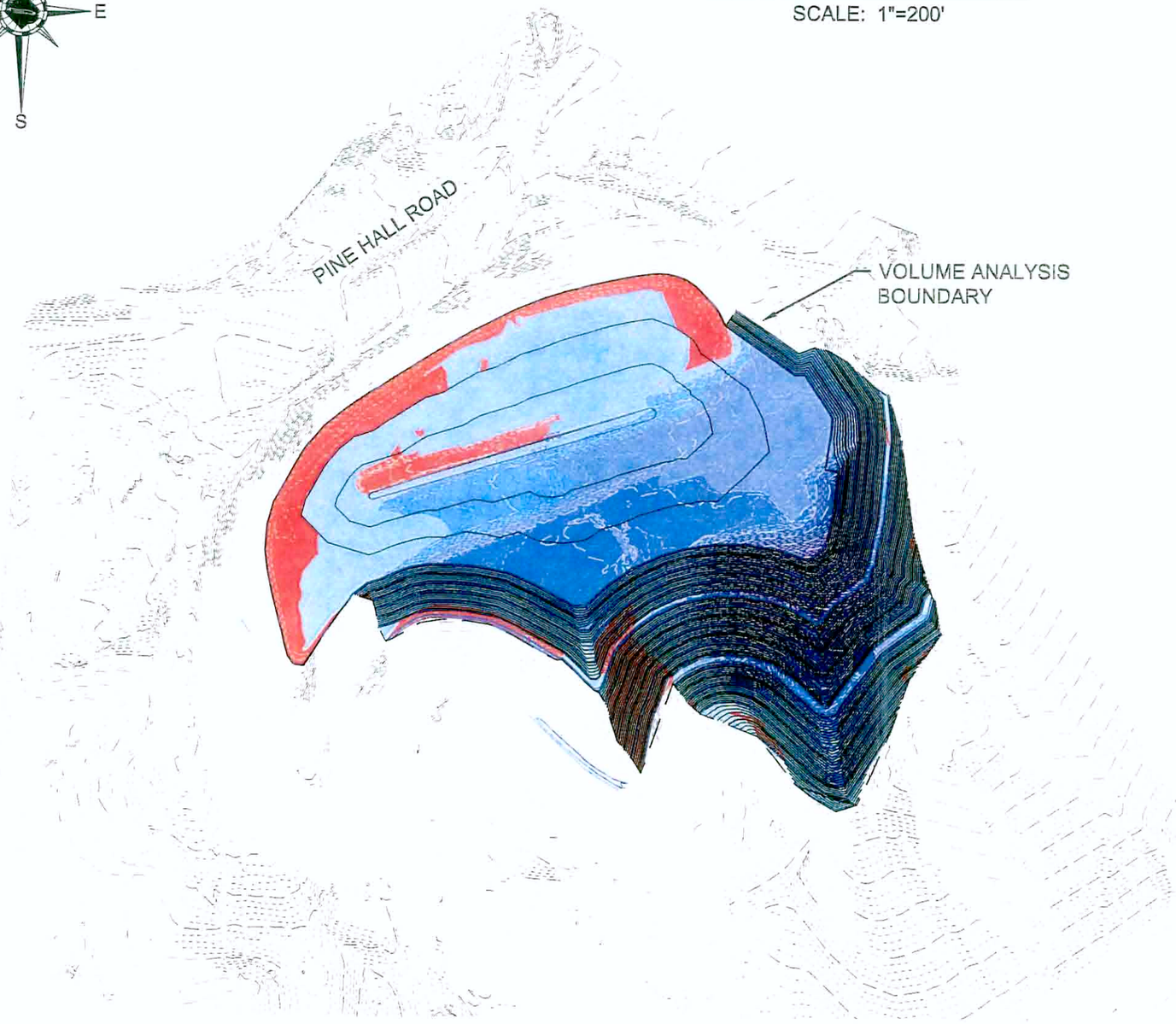
SHEET: 1

H:\Projects\2004\10400010-01 Belews Creek\As-Built Topo\10-09-07\Design-3D.dwg, 10/19/2007 1:54 PM, David Welkie

ANALYSIS 2
NOVA AS-BUILT (10/09/2007) VS PROPOSED FINAL GRADE
SCALE: 1"=200'

N
W E
S

100' 0 200' 400' 600'
SCALE: 1"= 200'



Earthwork Summary Table				
Level	Color	Depth*		Volume (cyd)
		Minimum (ft)	Maximum (ft)	
1		-10	-5	116149
2		-5	0	111138
3		0	5	71940
4		5	10	54029
5		10	15	39736
6		15	20	19896
7		20	25	12369
8		25	30	8047
9		30	35	5055
10		35	40	2389
11		40	45	566
12		45	50	28

A NEGATIVE (-) VALUE INDICATES A CUT DEPTH

Volume Summary Table		
CUT	4,706	CYD
FILL	213,672	CYD
NET	208,966	CYD

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PROJECT NAME: DELEWS CREEK STEAM STATION STOKES COUNTY, NC

CLIENT NAME: DUKE ENERGY CHARLOTTE, NC

DRAWING NAME: NOVA 2007 VS PROPOSED
DRAWN BY: JH
FILE NUMBER: 1060030-01
CHECKED BY: AB
SCALE: AS SHOWN
DATE: 12/5/07

SHEET TITLE: NOVA AS-BUILT 2007 VS PROPOSED FINAL GRADE

SHEET: 2

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APPENDIX B

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1	02/26/04	See location plan	6	830	93.1	16.1	80.2	84.9	21.1	BC-1	94.5		X	-5.0
DT-2	02/26/04	See location plan	6	830	92.8	14.1	81.3	84.9	21.1	BC-1	95.8	X		-7.0
DT-3	02/26/04	See location plan	6	830	97.6	15.4	84.6	84.9	21.1	BC-1	99.6	X		-5.7
DT-4	02/26/04	See location plan	6	830	96.4	16.1	83.0	84.9	21.1	BC-1	97.8	X		-5.0
DT-5	02/26/04	See location plan	6	830	96.1	16.3	82.6	84.9	21.1	BC-1	97.3	X		-4.8
DT-6	02/26/04	See location plan	6	830	95.5	15.5	82.7	84.9	21.1	BC-1	97.4	X		-5.6
DT-7	02/26/04	See location plan	6	830	93.7	17.4	79.8	84.9	21.1	BC-1	94.0		X	-3.7
DT-8	02/26/04	See location plan	6	830	90.1	14.7	78.6	84.9	21.1	BC-1	92.5		X	-6.4
DT-9	03/02/04	See location plan	6	835	95.8	16.2	82.4	84.9	21.1	BC-1	97.1	X		-4.9
DT-10	03/02/04	See location plan	6	835	93.1	14.3	81.5	84.9	21.1	BC-1	95.9	X		-6.8
DT-11	03/02/04	See location plan	6	835	99.1	16.6	85.0	84.9	21.1	BC-1	100+	X		-4.5
DT-12	03/02/04	See location plan	6	835	96.1	17.0	82.1	84.9	21.1	BC-1	96.8	X		-4.1
DT-13	03/02/04	See location plan	6	835	98.5	17.7	83.7	84.9	21.1	BC-1	98.6	X		-3.4
DT-14	03/02/04	See location plan	6	835	97.9	16.3	84.2	84.9	21.1	BC-1	99.2	X		-4.8
DT-15	03/05/04	See location plan	6	822	97.0	19.5	81.2	50.0	21.1	BC-1	100+	X		-1.6
DT-16	03/05/04	See location plan	6	822	97.9	19.9	81.7	84.9	21.1	BC-1	96.2	X		-1.2
DT-17	03/05/04	See location plan	6	822	100.0	18.1	84.7	84.9	21.1	BC-1	99.7	X		-3.0
DT-18	03/09/04	See location plan	6	835	94.3	15.4	81.7	84.9	21.1	BC-1	96.2	X		-5.7
DT-19	03/09/04	See location plan	6	835	93.4	12.7	82.9	84.9	21.1	BC-1	97.6	X		-8.4
DT-20	03/09/04	See location plan	6	835	101.5	17.3	86.5	84.9	21.1	BC-1	100+	X		-3.8
DT-21	03/09/04	See location plan	6	835	97.9	15.9	84.5	84.9	21.1	BC-1	99.5	X		-5.2
DT-22	03/09/04	See location plan	6	835	93.4	16.1	80.4	84.9	21.1	BC-1	94.7		X	-5.0
DT-22R	03/18/04	See location plan	6	835	95.5	18.3	80.7	84.9	21.1	BC-1	95.1	X		-2.8
DT-23	03/09/04	See location plan	6	835	92.8	12.3	82.6	84.9	21.1	BC-1	97.3	X		-8.8
DT-24	03/18/04	See location plan	6	837	95.8	17.6	81.5	84.9	21.1	BC-1	96.0	X		-3.5
DT-25	03/18/04	See location plan	6	837	95.2	16.8	81.5	84.9	21.1	BC-1	96.0	X		-4.3
DT-26	03/18/04	See location plan	6	837	94.3	16.3	81.1	84.9	21.1	BC-1	95.5	X		-4.8
DT-27	03/18/04	See location plan	6	837	99.7	18.3	84.3	84.9	21.1	BC-1	99.3	X		-2.8
DT-28	03/25/04	See location plan	6	838	102.1	20.6	84.7	84.9	21.1	BC-1	99.7	X		-0.5
DT-29	03/25/04	See location plan	6	838	98.5	17.4	83.9	84.9	21.1	BC-1	98.8	X		-3.7
DT-30	03/25/04	See location plan	6	838	92.2	15.9	79.5	84.9	21.1	BC-1	93.7		X	-5.2
DT-30R	03/25/04	See location plan	6	838	95.5	17.8	81.1	84.9	21.1	BC-1	95.5	X		-3.3
DT-31	03/25/04	See location plan	6	838	94.6	17.1	80.8	84.9	21.1	BC-1	95.1	X		-4.0
DT-32	03/25/04	See location plan	6	838	101.8	16.9	87.1	84.9	21.1	BC-1	100+	X		-4.2
DT-33	03/25/04	See location plan	6	838	96.1	18.9	80.8	84.9	21.1	BC-1	95.2	X		-2.2
DT-34	03/25/04	See location plan	6	838	94.0	15.8	81.1	84.9	21.1	BC-1	95.6	X		-5.3
DT-35	04/01/04	See location plan	6	838	97.3	19.3	81.6	84.9	21.1	BC-1	96.1	X		-1.8
DT-36	04/01/04	See location plan	6	838	94.3	16.4	81.0	84.9	21.1	BC-1	95.4	X		-4.7
DT-37	04/01/04	See location plan	6	838	96.6	16.7	82.8	84.9	21.1	BC-1	97.5	X		-4.4
DT-38	04/01/04	See location plan	6	838	96.4	19.5	80.7	84.9	21.1	BC-1	95.0	X		-1.6
DT-39	04/01/04	See location plan	6	838	93.4	15.6	80.8	84.9	21.1	BC-1	95.1	X		-5.5
DT-40	04/01/04	See location plan	6	838	98.5	15.6	85.2	84.9	21.1	BC-1	100+	X		-5.5

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-41	04/01/04	See location plan	6	838	98.2	16.2	84.5	84.9	21.1	BC-1	99.5	X		-4.9
DT-42	04/01/04	See location plan	6	838	96.4	15.1	83.7	84.9	21.1	BC-1	98.6	X		-6.0
DT-43	04/08/04	See location plan	6	838	103.6	17.5	88.2	84.9	21.1	BC-1	100+	X		-3.6
DT-44	04/08/04	See location plan	6	838	99.4	17.8	84.4	84.9	21.1	BC-1	99.4	X		-3.3
DT-45	04/08/04	See location plan	6	838	100.9	16.8	86.4	84.9	21.1	BC-1	100+	X		-4.3
DT-46	04/08/04	See location plan	6	838	101.5	16.5	87.1	84.9	21.1	BC-1	100+	X		-4.6
DT-47	04/08/04	See location plan	6	838	99.1	18.8	83.4	84.9	21.1	BC-1	98.2	X		-2.3
DT-48	04/15/04	See location plan	6	838	95.2	16.9	81.4	84.9	21.1	BC-1	95.9	X		-4.2
DT-49	04/15/04	See location plan	6	838	97.9	18.2	82.8	84.9	21.1	BC-1	97.5	X		-2.9
DT-50	04/15/04	See location plan	6	838	100.0	18.6	84.3	84.9	21.1	BC-1	99.3	X		-2.5
DT-51	04/15/04	See location plan	6	838	102.7	19.8	85.7	84.9	21.1	BC-1	100+	X		-1.3
DT-52	04/15/04	See location plan	6	838	111.8	20.8	92.5	84.9	21.1	BC-1	100+	X		-0.3
DT-53	04/15/04	See location plan	6	838	103.6	28.2	80.8	84.9	21.1	BC-1	95.2	X		7.1
DT-54	04/22/04	See location plan	6	839	92.5	14.7	80.6	84.9	21.1	BC-1	95.0	X		-6.4
DT-55	04/22/04	See location plan	6	839	93.1	13.7	81.9	84.9	21.1	BC-1	96.4	X		-7.4
DT-56	04/22/04	See location plan	6	839	97.0	17.1	82.8	84.9	21.1	BC-1	97.6	X		-4.0
DT-57	04/22/04	See location plan	6	839	94.6	13.8	83.1	84.9	21.1	BC-1	97.9	X		-7.3
DT-58	04/22/04	See location plan	6	839	92.2	14.2	80.7	84.9	21.1	BC-1	95.1	X		-6.9
DT-59	04/30/04	See location plan	6	839	93.4	15.1	81.1	84.9	21.1	BC-1	95.5	X		-6.0
DT-60	04/30/04	See location plan	6	839	93.1	12.7	82.6	84.9	21.1	BC-1	97.3	X		-8.4
DT-61	04/30/04	See location plan	6	839	95.5	14.0	83.8	84.9	21.1	BC-1	98.7	X		-7.1
DT-62	04/30/04	See location plan	6	839	91.9	13.7	80.8	84.9	21.1	BC-1	95.2	X		-7.4
DT-63	05/06/04	See location plan	6	840	99.4	22.7	81.0	84.9	21.1	BC-1	95.4	X		1.6
DT-64	05/06/04	See location plan	6	840	93.7	21.1	77.3	84.9	21.1	BC-1	91.1		X	0.0
DT-64R	05/13/04	See location plan	6	840	96.4	19.4	80.7	84.9	21.1	BC-1	95.1	X		-1.7
DT-65	05/06/04	See location plan	6	840	90.7	17.5	77.2	84.9	21.1	BC-1	90.9		X	-3.6
DT-65R	05/13/04	See location plan	6	840	97.6	20.3	81.1	84.9	21.1	BC-1	95.6	X		-0.8
DT-66	05/06/04	See location plan	6	840	104.2	20.6	86.3	84.9	21.1	BC-1	100+	X		-0.3
DT-67	05/06/04	See location plan	6	837	94.9	16.1	81.7	84.9	21.1	BC-1	96.3	X		-5.0
DT-68	05/13/04	See location plan	6	838	94.9	17.1	81.0	84.9	21.1	BC-1	95.4	X		-4.0
DT-69	05/13/04	See location plan	6	838	100.9	20.5	83.7	84.9	21.1	BC-1	98.6	X		-0.6
DT-70	05/20/04	See location plan	6	838	97.6	19.0	82.0	84.9	21.1	BC-1	96.6	X		-2.1
DT-71	05/20/04	See location plan	6	838	109.0	18.2	92.3	84.9	21.1	BC-1	100+	X		-2.9
DT-72	05/20/04	See location plan	6	838	94.0	16.9	80.4	84.9	21.1	BC-1	94.7		X	-4.2
DT-72R	05/27/04	See location plan	6	838	101.2	12.9	89.6	84.9	21.1	BC-1	100+	X		-8.2
DT-73	05/27/04	See location plan	6	840	91.3	17.1	77.9	84.9	21.1	BC-1	91.8		X	-4.0
DT-73R	06/10/04	See location plan	6	840	95.8	17.8	81.3	84.9	21.1	BC-1	95.8	X		-3.3
DT-74	05/27/04	See location plan	6	840	92.8	15.5	80.3	84.9	21.1	BC-1	94.6		X	-5.6
DT-74R	06/10/04	See location plan	6	840	92.8	14.4	81.1	84.9	21.1	BC-1	95.5	X		-6.7
DT-75	05/27/04	See location plan	6	840	91.6	15.7	79.1	84.9	21.1	BC-1	93.2		X	-5.4
DT-75R	06/10/04	See location plan	6	840	99.1	21.0	81.9	84.9	21.1	BC-1	96.5	X		-0.1
DT-76	05/27/04	See location plan	6	840	88.9	14.6	77.5	84.9	21.1	BC-1	91.3		X	-6.5
DT-76R	06/10/04	See location plan	6	840	96.7	16.5	83.0	84.9	21.1	BC-1	97.8	X		-4.6
DT-77	06/10/04	See location plan	6	840	94.9	15.8	81.9	84.9	21.1	BC-1	96.5	X		-5.3
DT-78	06/18/04	See location plan	6	840	110.8	23.1	90.0	82.4	23.2	BC-4	100+	X		-0.1
DT-79	06/18/04	See location plan	6	840	102.4	19.7	85.5	82.4	23.2	BC-4	100+	X		-3.5
DT-80	06/18/04	See location plan	6	840	96.1	18.1	81.4	82.4	23.2	BC-4	98.8	X		-5.1
DT-81	06/18/04	See location plan	6	840	92.8	15.4	80.4	82.4	23.2	BC-4	97.6	X		-7.8
DT-82	07/06/04	See location plan	6	841	100.9	22.3	82.5	82.4	23.2	BC-4	100+	X		-0.9
DT-83	07/06/04	See location plan	6	841	95.8	20.5	79.5	82.4	23.2	BC-4	96.5	X		-2.7

SHIELD ENGINEERING, INC

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SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-84	07/06/04	See location plan	6	841	94.0	17.2	80.2	82.4	23.2	BC-4	97.3	X		-6.0
DT-85	07/06/04	See location plan	6	841	92.2	14.4	80.6	82.4	23.2	BC-4	97.8	X		-8.8
DT-86	07/22/04	See location plan	6	841	95.8	17.2	81.7	84.9	21.1	BC-1	96.3	X		-3.9
DT-87	07/22/04	See location plan	6	841	94.9	17.3	80.9	84.9	21.1	BC-1	95.3	X		-3.8
DT-88	07/22/04	See location plan	6	841	94.6	15.8	81.7	84.9	21.1	BC-1	96.2	X		-5.3
DT-89	07/22/04	See location plan	6	841	94.9	16.6	81.4	84.9	21.1	BC-1	95.9	X		-4.5
DT-90	07/22/04	See location plan	6	841	95.5	16.0	82.3	84.9	21.1	BC-1	97.0	X		-5.1
DT-91	07/22/04	See location plan	6	841	95.2	16.7	81.6	84.9	21.1	BC-1	96.1	X		-4.4
DT-92	07/29/04	See location plan	6	841	95.2	17.9	80.7	84.9	21.1	BC-1	95.1	X		-3.2
DT-93	07/29/04	See location plan	6	841	94.9	17.6	80.7	84.9	21.1	BC-1	95.0	X		-3.5
DT-94	07/29/04	See location plan	6	841	95.2	17.5	81.0	84.9	21.1	BC-1	95.4	X		-3.6
DT-95	07/29/04	See location plan	6	841	94.6	17.0	80.8	84.9	21.1	BC-1	95.2	X		-4.1
DT-96	07/29/04	See location plan	6	841	95.2	17.4	81.1	84.9	21.1	BC-1	95.5	X		-3.7
DT-97	07/29/04	See location plan	6	841	94.9	17.3	80.9	84.9	21.1	BC-1	95.3	X		-3.8
DT-98	08/05/04	See location plan	6	842	94.6	17.3	80.6	84.9	21.1	BC-1	95.0	X		-3.8
DT-99	08/05/04	See location plan	6	842	94.6	17.2	80.7	84.9	21.1	BC-1	95.1	X		-3.9
DT-100	08/05/04	See location plan	6	842	94.3	16.9	80.7	84.9	21.1	BC-1	95.0	X		-4.2
DT-101	08/05/04	See location plan	6	842	94.3	16.9	80.7	84.9	21.1	BC-1	95.0	X		-4.2
DT-102	08/05/04	See location plan	6	842	94.6	17.0	80.8	84.9	21.1	BC-1	95.2	X		-4.1
DT-103	08/05/04	See location plan	6	842	94.9	17.6	80.7	84.9	21.1	BC-1	95.0	X		-3.5
DT-104	08/17/04	See location plan	6	843	92.8	14.1	81.3	82.4	23.2	BC-4	98.7	X		-9.1
DT-105	08/17/04	See location plan	6	843	94.9	17.7	80.6	82.4	23.2	BC-4	97.8	X		-5.5
DT-106	08/17/04	See location plan	6	843	103.6	24.8	83.0	82.4	23.2	BC-4	100+	X		1.6
DT-107	08/17/04	See location plan	6	842	95.5	21.0	78.9	82.4	23.2	BC-4	95.8	X		-2.2
DT-108	08/17/04	See location plan	6	842	92.5	19.4	77.5	82.4	23.2	BC-4	94.0		X	-3.8
DT-108R	08/24/04	See location plan	6	842	95.5	17.6	81.2	84.9	21.1	BC-1	95.7	X		-3.5
DT-109	08/17/04	See location plan	6	843	96.7	22.2	79.1	82.4	23.2	BC-4	96.0	X		-1.0
DT-110	08/24/04	See location plan	6	843	94.6	16.4	81.3	84.9	21.1	BC-1	95.7	X		-4.7
DT-111	08/24/04	See location plan	6	843	94.6	16.8	81.0	84.9	21.1	BC-1	95.4	X		-4.3
DT-112	08/24/04	See location plan	6	843	95.2	17.6	81.0	84.9	21.1	BC-1	95.4	X		-3.5
DT-113	08/24/04	See location plan	6	843	94.3	16.9	80.7	84.9	21.1	BC-1	95.0	X		-4.2
DT-114	08/24/04	See location plan	6	843	94.6	17.0	80.8	84.9	21.1	BC-1	95.2	X		-4.1
DT-115	08/31/04	See location plan	6	845	91.3	13.2	80.6	84.9	21.1	BC-1	95.0	X		-7.9
DT-116	08/31/04	See location plan	6	845	103.3	22.8	84.1	84.9	21.1	BC-1	99.1	X		1.7
DT-117	08/31/04	See location plan	6	845	90.7	13.3	80.0	84.9	21.1	BC-1	94.2	X		-7.8
DT-118	08/31/04	See location plan	6	845	99.4	20.4	82.6	84.9	21.1	BC-1	97.2	X		-0.7
DT-119	08/31/04	See location plan	6	845	98.8	17.7	83.9	84.9	21.1	BC-1	98.9	X		-3.4
DT-120	09/14/04	See location plan	6	846	92.2	16.7	79.0	82.4	23.2	BC-4	95.8	X		-6.5
DT-121	09/14/04	See location plan	6	846	90.7	15.5	78.5	82.4	23.2	BC-4	95.3	X		-7.7
DT-122	09/14/04	See location plan	6	846	91.6	16.0	78.9	82.4	23.2	BC-4	95.8	X		-7.2
DT-123	09/14/04	See location plan	6	846	97.3	19.9	81.1	82.4	23.2	BC-4	98.5	X		-3.3
DT-124	09/14/04	See location plan	6	846	95.8	16.0	82.6	82.4	23.2	BC-4	100+	X		-7.2
DT-125	09/14/04	See location plan	6	846	91.6	14.4	80.0	82.4	23.2	BC-4	97.1	X		-8.8
DT-126	09/24/04	See location plan	6	846	95.5	18.0	80.9	84.9	21.1	BC-1	95.3	X		-3.1
DT-127	09/24/04	See location plan	6	846	94.9	17.1	81.0	84.9	21.1	BC-1	95.4	X		-4.0
DT-128	09/24/04	See location plan	6	846	94.9	17.3	80.9	84.9	21.1	BC-1	95.3	X		-3.8
DT-129	09/24/04	See location plan	6	846	94.9	17.3	80.9	84.9	21.1	BC-1	95.3	X		-3.8
DT-130	09/24/04	See location plan	6	846	95.2	17.6	81.0	84.9	21.1	BC-1	95.4	X		-3.5
DT-131	09/24/04	See location plan	6	846	95.5	17.8	81.1	84.9	21.1	BC-1	95.5	X		-3.3
DT-132	09/30/04	See location plan	6	846	104.8	22.4	85.6	84.9	21.1	BC-1	100+	X		1.3

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-133	09/30/04	See location plan	6	846	104.5	22.2	85.5	84.9	21.1	BC-1	100+	X		1.1
DT-134	09/30/04	See location plan	6	846	105.7	23.8	85.4	84.9	21.1	BC-1	100+	X		2.7
DT-135	09/30/04	See location plan	6	846	102.4	23.0	83.3	84.9	21.1	BC-1	98.1	X		1.9
DT-136	10/07/04	See location plan	6	846	90.4	16.2	77.8	84.9	21.1	BC-1	91.6		X	-4.9
DT-136R	10/14/04	See location plan	6	846	97.9	17.8	83.1	84.9	21.1	BC-1	97.9	X		-3.3
DT-137	10/07/04	See location plan	6	846	100.9	17.4	85.9	84.9	21.1	BC-1	100+	X		-3.7
DT-138	10/07/04	See location plan	6	846	95.2	16.0	82.1	84.9	21.1	BC-1	96.7	X		-5.1
DT-139	10/07/04	See location plan	6	846	94.9	16.1	81.7	84.9	21.1	BC-1	96.3	X		-5.0
DT-140	10/14/04	See location plan	6	846	100.9	19.7	84.3	84.9	21.1	BC-1	99.3	X		-1.4
DT-141	10/14/04	See location plan	6	846	95.2	17.4	81.1	84.9	21.1	BC-1	95.5	X		-3.7
DT-142	10/14/04	See location plan	6	846	94.9	17.3	80.9	84.9	21.1	BC-1	95.3	X		-3.8
DT-143	10/14/04	See location plan	6	846	95.2	16.1	82.0	84.9	21.1	BC-1	96.6	X		-5.0
DT-144	10/14/04	See location plan	6	846	95.8	17.8	81.3	84.9	21.1	BC-1	95.8	X		-3.3
DT-145	10/28/04	See location plan	6	847	97.3	15.9	84.0	84.9	21.1	BC-1	98.9	X		-5.2
DT-146	10/28/04	See location plan	6	847	95.8	17.4	81.6	84.9	21.1	BC-1	96.1	X		-3.7
DT-147	10/28/04	See location plan	6	847	95.2	16.0	82.1	84.9	21.1	BC-1	96.7	X		-5.1
DT-148	10/28/04	See location plan	6	847	95.5	17.7	81.1	84.9	21.1	BC-1	95.6	X		-3.4
DT-149	10/28/04	See location plan	6	847	98.2	21.8	80.6	84.9	21.1	BC-1	95.0	X		0.7
DT-150	10/28/04	See location plan	6	847	94.9	16.1	81.7	84.9	21.1	BC-1	96.3	X		-5.0
DT-151	11/08/04	See location plan	6	847	92.5	15.2	80.3	84.9	21.1	BC-1	94.6		X	-5.9
DT-151R	11/11/04	See location plan	6	847	96.1	14.9	83.6	84.9	21.1	BC-1	98.5	X		-6.2
DT-152	11/08/04	See location plan	6	847	101.5	16.7	87.0	84.9	21.1	BC-1	100+	X		-4.4
DT-153	11/08/04	See location plan	6	847	105.1	16.0	90.6	84.9	21.1	BC-1	100+	X		-5.1
DT-154	11/08/04	See location plan	6	847	94.3	16.1	81.2	84.9	21.1	BC-1	95.7	X		-5.0
DT-155	11/08/04	See location plan	6	847	95.5	16.6	81.9	84.9	21.1	BC-1	96.5	X		-4.5
DT-156	11/08/04	See location plan	6	847	94.9	17.2	81.0	84.9	21.1	BC-1	95.4	X		-3.9
DT-157	11/11/04	See location plan	6	847	97.9	15.5	84.8	82.4	23.2	BC-4	100+	X		-7.7
DT-158	11/11/04	See location plan	6	847	91.9	15.0	79.9	82.4	23.2	BC-4	97.0	X		-8.2
DT-159	11/11/04	See location plan	6	847	89.8	14.0	78.8	82.4	23.2	BC-4	95.6	X		-9.2
DT-160	11/11/04	See location plan	6	847	88.0	12.4	78.3	82.4	23.2	BC-4	95.0	X		-10.8
DT-161	11/11/04	See location plan	6	847	91.3	14.0	80.1	82.4	23.2	BC-4	97.2	X		-9.2
DT-162	11/11/04	See location plan	6	847	89.5	13.8	78.6	82.4	23.2	BC-4	95.4	X		-9.4
DT-163	11/22/04	See location plan	6	848	94.9	18.9	79.8	82.4	23.2	BC-4	96.9	X		-4.3
DT-164	11/22/04	See location plan	6	848	94.3	19.2	79.1	82.4	23.2	BC-4	96.0	X		-4.0
DT-165	11/22/04	See location plan	6	848	93.7	19.5	78.4	82.4	23.2	BC-4	95.1	X		-3.7
DT-166	11/22/04	See location plan	6	848	95.8	16.1	82.5	82.4	23.2	BC-4	100+	X		-7.1
DT-167	11/22/04	See location plan	6	848	94.0	18.2	79.5	82.4	23.2	BC-4	96.5	X		-5.0
DT-168	11/22/04	See location plan	6	848	91.6	16.1	78.9	82.4	23.2	BC-4	95.7	X		-7.1
DT-169	12/01/04	See location plan	6	849	95.5	14.7	83.3	82.4	23.2	BC-4	100+	X		-8.5
DT-170	12/01/04	See location plan	6	849	94.6	15.1	82.2	82.4	23.2	BC-4	99.7	X		-8.1
DT-171	12/01/04	See location plan	6	849	94.9	15.6	82.1	82.4	23.2	BC-4	99.6	X		-7.6
DT-172	12/01/04	See location plan	6	849	94.9	12.8	84.1	82.4	23.2	BC-4	100+	X		-10.4
DT-173	12/01/04	See location plan	6	849	95.8	14.4	83.7	82.4	23.2	BC-4	100+	X		-8.8
DT-174	12/01/04	See location plan	6	849	92.5	15.4	80.1	82.4	23.2	BC-4	97.3	X		-7.8
DT-175	12/07/04	See location plan	6	850	96.7	17.8	82.1	84.9	21.1	BC-1	96.7	X		-3.3
DT-176	12/07/04	See location plan	6	850	97.6	20.0	81.3	84.9	21.1	BC-1	95.8	X		-1.1
DT-177	12/07/04	See location plan	6	850	98.8	18.9	83.1	84.9	21.1	BC-1	97.9	X		-2.2
DT-178	12/07/04	See location plan	6	850	96.1	18.4	81.2	84.9	21.1	BC-1	95.6	X		-2.7
DT-179	12/07/04	See location plan	6	850	99.7	18.5	84.1	84.9	21.1	BC-1	99.1	X		-2.6
DT-180	12/07/04	See location plan	6	850	100.0	19.9	83.4	84.9	21.1	BC-1	98.2	X		-1.2

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-181	12/07/04	See location plan	6	850	102.1	24.6	81.9	84.9	21.1	BC-1	96.5	X		3.5
DT-182	12/07/04	See location plan	6	850	102.1	20.4	84.8	84.9	21.1	BC-1	99.9	X		-0.7
DT-183	12/14/04	See location plan	6	850	94.9	18.5	80.1	82.4	23.2	BC-4	97.2	X		-4.7
DT-184	12/14/04	See location plan	6	850	94.3	18.9	79.3	82.4	23.2	BC-4	96.2	X		-4.3
DT-185	12/14/04	See location plan	6	850	93.7	17.2	79.9	82.4	23.2	BC-4	97.0	X		-6.0
DT-186	12/14/04	See location plan	6	850	95.8	19.0	80.5	82.4	23.2	BC-4	97.7	X		-4.2
DT-187	12/14/04	See location plan	6	850	94.0	18.2	79.5	82.4	23.2	BC-4	96.5	X		-5.0
DT-188	12/14/04	See location plan	6	850	91.6	16.7	78.5	82.4	23.2	BC-4	95.2	X		-6.5
DT-189	12/21/04	See location plan	6	851	95.5	18.3	80.7	84.9	21.1	BC-1	95.1	X		-2.8
DT-190	12/21/04	See location plan	6	851	95.2	17.2	81.2	84.9	21.1	BC-1	95.7	X		-3.9
DT-191	12/21/04	See location plan	6	851	95.5	17.1	81.6	84.9	21.1	BC-1	96.1	X		-4.0
DT-192	12/21/04	See location plan	6	851	94.9	17.6	80.7	84.9	21.1	BC-1	95.0	X		-3.5
DT-193	12/21/04	See location plan	6	851	96.4	13.6	84.9	84.9	21.1	BC-1	100.0	X		-7.5
DT-194	12/21/04	See location plan	6	851	97.9	19.6	81.9	84.9	21.1	BC-1	96.4	X		-1.5
DT-195	12/29/04	See location plan	6	853	95.2	18.4	80.4	82.4	23.2	BC-4	97.6	X		-4.8
DT-196	12/29/04	See location plan	6	853	94.9	18.8	79.9	82.4	23.2	BC-4	96.9	X		-4.4
DT-197	12/29/04	See location plan	6	853	94.6	18.3	80.0	82.4	23.2	BC-4	97.0	X		-4.9
DT-198	12/29/04	See location plan	6	853	95.2	20.7	78.9	82.4	23.2	BC-4	95.7	X		-2.5
DT-199	12/29/04	See location plan	6	853	94.6	18.4	79.9	82.4	23.2	BC-4	97.0	X		-4.8
DT-200	12/29/04	See location plan	6	853	92.2	17.7	78.3	82.4	23.2	BC-4	95.1	X		-5.5
DT-201	01/05/05	See location plan	6	863	98.5	14.0	86.4	82.4	23.2	BC-4	100+	X		-9.2
DT-202	01/05/05	See location plan	6	863	94.9	13.9	83.3	82.4	23.2	BC-4	100+	X		-9.3
DT-203	01/05/05	See location plan	6	863	91.3	15.2	79.2	82.4	23.2	BC-4	96.2	X		-8.0
DT-204	01/05/05	See location plan	6	863	93.1	13.6	81.9	82.4	23.2	BC-4	99.4	X		-9.6
DT-205	01/05/05	See location plan	6	863	93.7	14.8	81.6	82.4	23.2	BC-4	99.0	X		-8.4
DT-206	01/05/05	See location plan	6	863	90.7	14.4	79.3	82.4	23.2	BC-4	96.2	X		-8.8
DT-207	01/11/05	See location plan	6	864	94.9	17.5	80.8	82.4	23.2	BC-4	98.0	X		-5.7
DT-208	01/11/05	See location plan	6	864	95.5	16.8	81.8	82.4	23.2	BC-4	99.2	X		-6.4
DT-209	01/11/05	See location plan	6	864	94.3	16.0	81.3	82.4	23.2	BC-4	98.6	X		-7.2
DT-210	01/11/05	See location plan	6	864	94.6	17.3	80.6	82.4	23.2	BC-4	97.9	X		-5.9
DT-211	01/11/05	See location plan	6	864	92.5	14.0	81.1	82.4	23.2	BC-4	98.5	X		-9.2
DT-212	01/11/05	See location plan	6	864	93.1	15.7	80.5	82.4	23.2	BC-4	97.6	X		-7.5
DT-213	01/20/05	See location plan	6	864	93.7	16.2	80.6	84.9	21.1	BC-1	95.0	X		-4.9
DT-214	01/20/05	See location plan	6	864	93.7	16.1	80.7	84.9	21.1	BC-1	95.1	X		-5.0
DT-215	01/20/05	See location plan	6	864	94.3	16.8	80.7	84.9	21.1	BC-1	95.1	X		-4.3
DT-216	01/20/05	See location plan	6	864	93.4	15.0	81.2	84.9	21.1	BC-1	95.7	X		-6.1
DT-217	01/20/05	See location plan	6	864	92.8	15.0	80.7	84.9	21.1	BC-1	95.0	X		-6.1
DT-218	01/20/05	See location plan	6	864	93.7	13.6	82.5	84.9	21.1	BC-1	97.1	X		-7.5
DT-219	01/26/05	See location plan	6	863	94.3	16.5	80.9	82.4	23.2	BC-4	98.2	X		-6.7
DT-220	01/26/05	See location plan	6	865	93.1	16.8	79.7	82.4	23.2	BC-4	96.7	X		-6.4
DT-221	01/26/05	See location plan	6	865	91.0	15.5	78.8	82.4	23.2	BC-4	95.6	X		-7.7
DT-222	01/26/05	See location plan	6	865	92.2	15.7	79.7	82.4	23.2	BC-4	96.7	X		-7.5
DT-223	01/26/05	See location plan	6	865	93.4	16.5	80.2	82.4	23.2	BC-4	97.3	X		-6.7
DT-224	01/26/05	See location plan	6	865	90.7	15.7	78.4	82.4	23.2	BC-4	95.1	X		-7.5
DT-225	02/02/05	See location plan	6	866	89.5	17.1	76.4	82.4	23.2	BC-4	92.8		X	-6.1
DT-225R	02/09/05	See location plan	6	866	95.2	18.8	80.1	82.4	23.2	BC-4	97.3	X		-4.4
DT-226	02/02/05	See location plan	6	866	96.7	18.6	81.5	82.4	23.2	BC-4	98.9	X		-4.6
DT-227	02/02/05	See location plan	6	866	95.8	20.2	79.7	82.4	23.2	BC-4	96.8	X		-3.0
DT-228	02/02/05	See location plan	6	866	101.2	19.2	84.9	82.4	23.2	BC-4	100+	X		-4.0
DT-229	02/02/05	See location plan	6	866	102.7	20.4	85.3	82.4	23.2	BC-4	100+	X		-2.8

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-230	02/02/05	See location plan	6	866	98.2	22.4	80.2	82.4	23.2	BC-4	97.4	X		-0.8
DT-231	02/09/05	See location plan	6	866	94.6	19.8	79.0	82.4	23.2	BC-4	95.8	X		-3.4
DT-232	02/09/05	See location plan	6	866	96.1	20.4	79.8	82.4	23.2	BC-4	96.8	X		-2.8
DT-233	02/09/05	See location plan	6	866	96.1	17.9	81.5	82.4	23.2	BC-4	98.9	X		-5.3
DT-234	02/09/05	See location plan	6	866	97.9	20.5	81.2	82.4	23.2	BC-4	98.6	X		-2.7
DT-235	02/09/05	See location plan	6	866	95.5	19.3	80.1	82.4	23.2	BC-4	97.2	X		-3.9
DT-236	02/16/05	See location plan	6	866	96.4	17.1	82.3	82.4	23.2	BC-4	99.9	X		-6.1
DT-237	02/16/05	See location plan	6	865	101.2	20.5	84.0	82.4	23.2	BC-4	100+	X		-2.7
DT-238	02/16/05	See location plan	6	867	101.2	16.8	86.6	82.4	23.2	BC-4	100+	X		-6.4
DT-239	02/16/05	See location plan	6	868	95.2	18.3	80.5	82.4	23.2	BC-4	97.7	X		-4.9
DT-240	02/16/05	See location plan	6	868	91.0	16.1	78.4	82.4	23.2	BC-4	95.1	X		-7.1
DT-241	02/16/05	See location plan	6	868	92.8	15.9	80.1	82.4	23.2	BC-4	97.2	X		-7.3
DT-242	02/25/05	See location plan	6	868	94.6	17.2	80.7	84.9	21.1	BC-1	95.0	X		-3.9
DT-243	02/25/05	See location plan	6	868	94.6	17.0	80.8	84.9	21.1	BC-1	95.2	X		-4.1
DT-244	02/25/05	See location plan	6	868	99.4	21.7	81.7	84.9	21.1	BC-1	96.2	X		0.6
DT-245	02/25/05	See location plan	6	868	96.7	19.6	80.9	84.9	21.1	BC-1	95.2	X		-1.5
DT-246	02/25/05	See location plan	6	868	98.2	21.0	81.2	84.9	21.1	BC-1	95.6	X		-0.1
DT-247	02/25/05	See location plan	6	868	97.3	20.1	81.0	84.9	21.1	BC-1	95.4	X		-1.0
DT-248	03/02/05	See location plan	6	868	97.0	18.5	81.9	82.4	23.2	BC-4	99.3	X		-4.7
DT-249	03/02/05	See location plan	6	868	97.9	19.4	82.0	82.4	23.2	BC-4	99.5	X		-3.8
DT-250	03/02/05	See location plan	6	868	96.1	18.2	81.3	82.4	23.2	BC-4	98.6	X		-5.0
DT-251	03/02/05	See location plan	6	868	94.9	18.3	80.2	82.4	23.2	BC-4	97.3	X		-4.9
DT-252	03/02/05	See location plan	6	868	89.2	18.3	75.4	82.4	23.2	BC-4	91.5		X	-4.9
DT-252R	03/07/05	See location plan	6	868	93.7	16.1	80.7	82.4	23.2	BC-4	98.0	X		-7.1
DT-253	03/02/05	See location plan	6	868	94.0	17.8	79.8	82.4	23.2	BC-4	96.8	X		-5.4
DT-254	03/07/05	See location plan	6	868	94.0	16.0	81.0	84.9	21.1	BC-1	95.4	X		-5.1
DT-255	03/07/05	See location plan	6	868	94.3	16.8	80.7	84.9	21.1	BC-1	95.1	X		-4.3
DT-256	03/07/05	See location plan	6	868	96.4	18.2	81.6	84.9	21.1	BC-1	96.1	X		-2.9
DT-257	03/07/05	See location plan	6	868	95.8	16.4	82.3	84.9	21.1	BC-1	96.9	X		-4.7
DT-258	03/07/05	See location plan	6	868	92.8	14.7	80.9	84.9	21.1	BC-1	95.3	X		-6.4
DT-259	03/07/05	See location plan	6	868	97.6	17.0	83.4	84.9	21.1	BC-1	98.3	X		-4.1
DT-260	03/14/05	See location plan	6	830	94.6	15.6	81.8	82.4	23.2	BC-4	99.3	X		-7.6
DT-261	03/14/05	See location plan	6	830	91.9	16.7	78.7	82.4	23.2	BC-4	95.6	X		-6.5
DT-262	03/14/05	See location plan	6	830	92.5	16.8	79.2	82.4	23.2	BC-4	96.1	X		-6.4
DT-263	03/14/05	See location plan	6	830	95.2	17.6	81.0	82.4	23.2	BC-4	98.2	X		-5.6
DT-264	03/14/05	See location plan	6	830	91.0	16.1	78.4	82.4	23.2	BC-4	95.1	X		-7.1
DT-265	03/14/05	See location plan	6	830	93.7	15.4	81.2	82.4	23.2	BC-4	98.5	X		-7.8
DT-266	03/21/05	See location plan	6	832	104.8	18.0	88.8	82.4	23.2	BC-4	100+	X		-5.2
DT-267	03/21/05	See location plan	6	832	101.8	16.7	87.2	82.4	23.2	BC-4	100+	X		-6.5
DT-268	03/21/05	See location plan	6	832	102.7	16.9	87.9	82.4	23.2	BC-4	100+	X		-6.3
DT-269	03/21/05	See location plan	6	832	102.1	19.5	85.4	82.4	23.2	BC-4	100+	X		-3.7
DT-270	03/21/05	See location plan	6	832	93.4	17.2	79.7	82.4	23.2	BC-4	96.7	X		-6.0
DT-271	03/21/05	See location plan	6	832	92.5	15.9	79.8	82.4	23.2	BC-4	96.8	X		-7.3
DT-272	04/06/05	See location plan	6	869	89.5	11.6	80.2	82.4	23.2	BC-4	97.3	X		-11.6
DT-273	04/06/05	See location plan	6	869	93.1	18.8	78.4	82.4	23.2	BC-4	95.1	X		-4.4
DT-274	05/03/05	See location plan	6	870	93.1	15.3	80.7	84.9	21.1	BC-1	95.1	X		-5.8
DT-275	05/03/05	See location plan	6	870	93.7	14.4	81.9	84.9	21.1	BC-1	96.5	X		-6.7
DT-276	05/03/05	See location plan	6	870	95.5	17.7	81.1	84.9	21.1	BC-1	95.6	X		-3.4
DT-277	05/03/05	See location plan	6	870	93.1	13.5	82.0	84.9	21.1	BC-1	96.6	X		-7.6
DT-278	05/03/05	See location plan	6	870	91.6	12.0	81.8	84.9	21.1	BC-1	96.3	X		-9.1

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-279	05/03/05	See location plan	6	870	94.6	17.1	80.8	84.9	21.1	BC-1	95.1	X		-4.0
DT-280	05/24/05	See location plan	6	830	97.3	20.0	81.1	82.4	23.2	BC-4	98.4	X		-3.2
DT-281	05/24/05	See location plan	6	831	102.7	20.8	85.0	82.4	23.2	BC-4	100+	X		-2.4
DT-282	06/01/05	See location plan	6	833	101.2	18.1	85.7	82.4	23.2	BC-4	100+	X		-5.1
DT-283	06/01/05	See location plan	6	832	94.3	17.7	80.1	82.4	23.2	BC-4	97.2	X		-5.5
DT-284	06/08/05	See location plan	6	831	96.1	16.8	82.3	82.4	23.2	BC-4	99.8	X		-6.4
DT-285	06/08/05	See location plan	6	831	96.7	18.1	81.9	82.4	23.2	BC-4	99.3	X		-5.1
DT-286	06/08/05	See location plan	6	831	98.2	19.7	82.0	82.4	23.2	BC-4	99.6	X		-3.5
DT-287	06/08/05	See location plan	6	831	99.7	21.4	82.1	82.4	23.2	BC-4	99.7	X		-1.8
DT-288	06/08/05	See location plan	6	831	97.0	18.0	82.2	82.4	23.2	BC-4	99.7	X		-5.2
DT-289	06/08/05	See location plan	6	831	95.2	17.7	80.9	82.4	23.2	BC-4	98.1	X		-5.5
DT-290	06/16/05	See location plan	6	831	94.6	19.3	79.3	82.4	23.2	BC-4	96.2	X		-3.9
DT-291	06/16/05	See location plan	6	831	97.6	21.4	80.4	82.4	23.2	BC-4	97.6	X		-1.8
DT-292	06/16/05	See location plan	6	831	105.7	18.5	89.2	82.4	23.2	BC-4	100+	X		-4.7
DT-293	06/16/05	See location plan	6	831	97.0	17.6	82.5	82.4	23.2	BC-4	100+	X		-5.6
DT-294	06/16/05	See location plan	6	831	93.7	16.7	80.3	82.4	23.2	BC-4	97.5	X		-6.5
DT-295	06/16/05	See location plan	6	831	91.3	16.5	78.4	82.4	23.2	BC-4	95.1	X		-6.7
DT-296	06/22/05	See location plan	6	832	94.6	13.8	83.1	82.4	23.2	BC-4	100+	X		-9.4
DT-297	06/22/05	See location plan	6	832	94.0	14.7	81.9	82.4	23.2	BC-4	99.4	X		-8.5
DT-298	06/22/05	See location plan	6	832	95.8	16.2	82.4	82.4	23.2	BC-4	100+	X		-7.0
DT-299	06/22/05	See location plan	6	832	94.9	16.8	81.2	82.4	23.2	BC-4	98.6	X		-6.4
DT-300	06/22/05	See location plan	6	832	95.2	14.3	83.3	82.4	23.2	BC-4	100+	X		-8.9
DT-301	06/22/05	See location plan	6	832	96.4	15.7	83.3	82.4	23.2	BC-4	100+	X		-7.5
DT-302	07/06/05	See location plan	6	832	94.6	17.2	80.7	84.9	21.1	BC-1	95.0	X		-3.9
DT-303	07/06/05	See location plan	6	832	94.9	17.1	81.0	84.9	21.1	BC-1	95.5	X		-4.0
DT-304	07/06/05	See location plan	6	832	95.5	17.1	81.6	84.9	21.1	BC-1	96.1	X		-4.0
DT-305	07/06/05	See location plan	6	832	96.4	18.1	81.6	84.9	21.1	BC-1	96.2	X		-3.0
DT-306	07/06/05	See location plan	6	832	93.7	14.6	81.8	84.9	21.1	BC-1	96.3	X		-6.5
DT-307	07/06/05	See location plan	6	832	94.9	17.0	81.1	84.9	21.1	BC-1	95.5	X		-4.1
DT-308	07/12/05	See location plan	6	833	94.6	15.5	81.9	84.9	21.1	BC-1	96.4	X		-5.6
DT-309	07/12/05	See location plan	6	833	96.7	19.0	81.3	84.9	21.1	BC-1	95.7	X		-2.1
DT-310	07/12/05	See location plan	6	833	97.9	16.6	84.0	84.9	21.1	BC-1	98.9	X		-4.5
DT-311	07/12/05	See location plan	6	833	96.4	16.6	82.7	84.9	21.1	BC-1	97.4	X		-4.5
DT-312	07/12/05	See location plan	6	833	96.1	15.7	83.1	84.9	21.1	BC-1	97.8	X		-5.4
DT-313	07/12/05	See location plan	6	833	95.8	16.3	82.4	84.9	21.1	BC-1	97.0	X		-4.8
DT-314	07/20/05	See location plan	6	833	96.7	16.6	82.9	84.9	21.1	BC-1	97.7	X		-4.5
DT-315	07/20/05	See location plan	6	833	97.0	17.7	82.4	84.9	21.1	BC-1	97.0	X		-3.4
DT-316	07/20/05	See location plan	6	833	95.8	17.0	81.9	84.9	21.1	BC-1	96.4	X		-4.1
DT-317	07/20/05	See location plan	6	833	94.9	17.6	80.7	84.9	21.1	BC-1	95.0	X		-3.5
DT-318	07/20/05	See location plan	6	833	97.3	18.2	82.3	84.9	21.1	BC-1	96.9	X		-2.9
DT-319	07/20/05	See location plan	6	833	96.4	17.1	82.3	84.9	21.1	BC-1	96.9	X		-4.0
DT-320	07/27/05	See location plan	6	834	97.6	22.1	79.9	82.4	23.2	BC-4	97.0	X		-1.1
DT-321	07/27/05	See location plan	6	834	98.5	21.5	81.1	82.4	23.2	BC-4	98.4	X		-1.7
DT-322	07/27/05	See location plan	6	834	92.8	18.4	78.4	82.4	23.2	BC-4	95.1	X		-4.8
DT-323	07/27/05	See location plan	6	834	92.5	18.1	78.3	82.4	23.2	BC-4	95.1	X		-5.1
DT-324	07/27/05	See location plan	6	834	97.9	20.5	81.2	82.4	23.2	BC-4	98.6	X		-2.7
DT-325	07/27/05	See location plan	6	834	95.5	21.3	78.7	82.4	23.2	BC-4	95.5	X		-1.9
DT-326	08/03/05	See location plan	6	835	100.9	19.7	84.3	82.4	23.2	BC-4	100+	X		-3.5
DT-327	08/03/05	See location plan	6	835	98.8	20.3	82.1	82.4	23.2	BC-4	99.7	X		-2.9
DT-328	08/03/05	See location plan	6	835	97.0	21.6	79.8	82.4	23.2	BC-4	96.8	X		-1.6

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-329	08/03/05	See location plan	6	835	95.5	20.3	79.4	82.4	23.2	BC-4	96.4	X		-2.9
DT-330	08/03/05	See location plan	6	835	97.6	20.0	81.3	82.4	23.2	BC-4	98.7	X		-3.2
DT-331	08/03/05	See location plan	6	835	97.3	21.9	79.8	82.4	23.2	BC-4	96.9	X		-1.3
DT-332	08/10/05	See location plan	6	860	105.4	24.4	84.7	82.4	23.2	BC-4	100+	X		1.2
DT-333	08/10/05	See location plan	6	860	103.0	22.3	84.2	82.4	23.2	BC-4	100+	X		-0.9
DT-334	08/10/05	See location plan	6	860	104.2	22.0	85.4	82.4	23.2	BC-4	100+	X		-1.2
DT-335	08/10/05	See location plan	6	860	106.1	21.3	87.5	82.4	23.2	BC-4	100+	X		-1.9
DT-336	08/10/05	See location plan	6	860	101.8	22.3	83.2	82.4	23.2	BC-4	100+	X		-0.9
DT-337	08/10/05	See location plan	6	860	107.5	22.7	87.6	82.4	23.2	BC-4	100+	X		-0.5
DT-338	08/17/05	See location plan	6	861	92.8	18.4	78.4	82.4	23.2	BC-4	95.1	X		-4.8
DT-339	08/17/05	See location plan	6	861	93.1	17.0	79.6	82.4	23.2	BC-4	96.6	X		-6.2
DT-340	08/17/05	See location plan	6	861	91.9	15.7	79.4	82.4	23.2	BC-4	96.4	X		-7.5
DT-341	08/17/05	See location plan	6	861	91.0	16.2	78.3	82.4	23.2	BC-4	95.1	X		-7.0
DT-342	08/17/05	See location plan	6	861	90.7	15.1	78.8	82.4	23.2	BC-4	95.6	X		-8.1
DT-343	08/17/05	See location plan	6	861	92.2	15.3	80.0	82.4	23.2	BC-4	97.0	X		-7.9
DT-344	08/23/05	See location plan	6	838	100.0	23.9	80.7	82.4	23.2	BC-4	97.9	X		0.7
DT-345	08/23/05	See location plan	6	838	101.2	23.7	81.8	82.4	23.2	BC-4	99.3	X		0.5
DT-346	08/23/05	See location plan	6	838	103.6	22.8	84.4	82.4	23.2	BC-4	100+	X		-0.4
DT-347	08/23/05	See location plan	6	860	102.7	21.8	84.3	82.4	23.2	BC-4	100+	X		-1.4
DT-348	08/23/05	See location plan	6	860	102.1	20.5	84.7	82.4	23.2	BC-4	100+	X		-2.7
DT-349	08/23/05	See location plan	6	860	100.0	21.8	82.1	82.4	23.2	BC-4	99.6	X		-1.4
DT-350	08/31/05	See location plan	6	839	107.2	20.1	89.3	82.4	23.2	BC-4	100+	X		-3.1
DT-351	08/31/05	See location plan	6	839	97.0	21.1	80.1	82.4	23.2	BC-4	97.2	X		-2.1
DT-352	08/31/05	See location plan	6	839	97.9	21.9	80.3	82.4	23.2	BC-4	97.5	X		-1.3
DT-353	08/31/05	See location plan	6	839	99.1	23.3	80.4	82.4	23.2	BC-4	97.6	X		0.1
DT-354	08/31/05	See location plan	6	839	106.3	24.7	85.3	82.4	23.2	BC-4	100+	X		1.5
DT-355	08/31/05	See location plan	6	839	108.1	22.8	88.0	82.4	23.2	BC-4	100+	X		-0.4
DT-356	09/07/05	See location plan	6	861	94.3	20.4	78.3	82.4	23.2	BC-4	95.1	X		-2.8
DT-357	09/07/05	See location plan	6	861	95.2	20.2	79.2	82.4	23.2	BC-4	96.1	X		-3.0
DT-358	09/07/05	See location plan	6	861	95.8	19.4	80.2	82.4	23.2	BC-4	97.3	X		-3.8
DT-359	09/07/05	See location plan	6	861	95.5	20.5	79.3	82.4	23.2	BC-4	96.2	X		-2.7
DT-360	09/07/05	See location plan	6	861	96.1	20.7	79.6	82.4	23.2	BC-4	96.6	X		-2.5
DT-361	09/07/05	See location plan	6	861	96.7	19.6	80.9	82.4	23.2	BC-4	98.1	X		-3.6
DT-362	09/13/05	See location plan	6	840	94.9	19.6	79.3	82.4	23.2	BC-4	96.3	X		-3.6
DT-363	09/13/05	See location plan	6	840	93.7	18.5	79.1	82.4	23.2	BC-4	95.9	X		-4.7
DT-364	09/13/05	See location plan	6	840	94.0	19.8	78.5	82.4	23.2	BC-4	95.2	X		-3.4
DT-365	09/13/05	See location plan	6	840	95.5	18.6	80.5	82.4	23.2	BC-4	97.7	X		-4.6
DT-366	09/13/05	See location plan	6	840	94.3	19.6	78.8	82.4	23.2	BC-4	95.7	X		-3.6
DT-367	09/13/05	See location plan	6	840	97.0	19.2	81.4	82.4	23.2	BC-4	98.8	X		-4.0
DT-368	09/21/05	See location plan	6	840	94.0	19.2	78.9	82.4	23.2	BC-4	95.8	X		-4.0
DT-369	09/21/05	See location plan	6	840	95.8	22.3	78.3	82.4	23.2	BC-4	95.0	X		-0.9
DT-370	09/21/05	See location plan	6	840	102.1	24.1	82.3	82.4	23.2	BC-4	99.8	X		0.9
DT-371	09/21/05	See location plan	6	840	96.4	21.5	79.3	82.4	23.2	BC-4	96.3	X		-1.7
DT-372	09/21/05	See location plan	6	840	103.3	21.5	85.0	82.4	23.2	BC-4	100+	X		-1.7
DT-373	09/21/05	See location plan	6	840	94.9	20.6	78.7	82.4	23.2	BC-4	95.5	X		-2.6
DT-374	09/28/05	See location plan	6	841	102.4	21.9	84.0	82.4	23.2	BC-4	100+	X		-1.3
DT-375	09/28/05	See location plan	6	841	105.7	19.8	88.2	82.4	23.2	BC-4	100+	X		-3.4
DT-376	09/28/05	See location plan	6	841	109.6	21.9	89.9	82.4	23.2	BC-4	100+	X		-1.3
DT-377	09/28/05	See location plan	6	841	103.6	23.5	83.9	82.4	23.2	BC-4	100+	X		0.3
DT-378	09/28/05	See location plan	6	841	102.7	24.4	82.6	82.4	23.2	BC-4	100+	X		1.2

SHIELD ENGINEERING, INC

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-379	09/28/05	See location plan	6	841	104.2	23.2	84.6	82.4	23.2	BC-4	100+	X		0.0
DT-380	10/04/05	See location plan	6	840	92.5	13.8	81.3	84.9	21.1	BC-1	95.7	X		-7.3
DT-381	10/04/05	See location plan	6	840	99.7	16.0	85.9	84.9	21.1	BC-1	100+	X		-5.1
DT-382	10/04/05	See location plan	6	840	93.1	14.5	81.3	84.9	21.1	BC-1	95.8	X		-6.6
DT-383	10/04/05	See location plan	6	840	100.9	20.8	83.5	84.9	21.1	BC-1	98.4	X		-0.3
DT-384	10/04/05	See location plan	6	840	101.5	19.4	85.0	84.9	21.1	BC-1	100+	X		-1.7
DT-385	10/04/05	See location plan	6	840	105.4	21.5	86.8	84.9	21.1	BC-1	100+	X		0.4
DT-386	10/12/05	See location plan	6	850	106.6	24.7	85.5	84.9	21.1	BC-1	100+	X		3.6
DT-387	10/12/05	See location plan	6	851	98.2	18.2	83.1	84.9	21.1	BC-1	97.9	X		-2.9
DT-388	10/12/05	See location plan	6	856	105.4	17.3	89.9	84.9	21.1	BC-1	100+	X		-3.8
DT-389	10/12/05	See location plan	6	856	102.1	20.8	84.5	84.9	21.1	BC-1	99.6	X		-0.3
DT-390	10/12/05	See location plan	6	856	101.5	19.4	85.0	84.9	21.1	BC-1	100+	X		-1.7
DT-391	10/12/05	See location plan	6	856	105.4	21.5	86.8	84.9	21.1	BC-1	100+	X		0.4
DT-392	10/19/05	See location plan	6	841	106.6	22.1	87.3	84.9	21.1	BC-1	100+	X		1.0
DT-393	10/19/05	See location plan	6	841	98.2	18.1	83.1	84.9	21.1	BC-1	97.9	X		-3.0
DT-394	10/19/05	See location plan	6	841	105.4	19.7	88.1	84.9	21.1	BC-1	100+	X		-1.4
DT-395	10/19/05	See location plan	6	841	102.1	20.5	84.7	84.9	21.1	BC-1	99.8	X		-0.6
DT-396	10/19/05	See location plan	6	841	101.5	19.0	85.3	84.9	21.1	BC-1	100+	X		-2.1
DT-397	10/19/05	See location plan	6	841	105.4	18.6	88.9	84.9	21.1	BC-1	100+	X		-2.5
DT-398	10/26/05	See location plan	6	841	106.6	21.9	87.5	84.9	21.1	BC-1	100+	X		0.8
DT-399	10/26/05	See location plan	6	841	98.2	21.2	81.0	84.9	21.1	BC-1	95.4	X		0.1
DT-400	10/26/05	See location plan	6	841	105.4	20.4	87.5	84.9	21.1	BC-1	100+	X		-0.7
DT-401	10/26/05	See location plan	6	841	102.1	20.8	84.5	84.9	21.1	BC-1	99.6	X		-0.3
DT-402	10/26/05	See location plan	6	841	101.5	19.4	85.0	84.9	21.1	BC-1	100+	X		-1.7
DT-403	10/26/05	See location plan	6	841	105.4	21.3	86.9	84.9	21.1	BC-1	100+	X		0.2
DT-404	11/02/05	See location plan	6	832	100.6	18.4	85.0	84.9	21.1	BC-1	100+	X		-2.7
DT-405	11/02/05	See location plan	6	832	103.9	19.0	87.3	84.9	21.1	BC-1	100+	X		-2.1
DT-406	11/02/05	See location plan	6	832	107.8	18.2	91.2	84.9	21.1	BC-1	100+	X		-2.9
DT-407	11/02/05	See location plan	6	832	105.7	22.2	86.5	84.9	21.1	BC-1	100+	X		1.1
DT-408	11/02/05	See location plan	6	832	99.1	19.4	83.0	84.9	21.1	BC-1	97.7	X		-1.7
DT-409	11/02/05	See location plan	6	832	107.8	21.3	88.9	84.9	21.1	BC-1	100+	X		0.2
DT-410	11/08/05	See location plan	6	833	94.6	20.4	78.6	82.4	23.2	BC-4	95.4	X		-2.8
DT-411	11/08/05	See location plan	6	833	94.3	19.7	78.8	82.4	23.2	BC-4	95.6	X		-3.5
DT-412	11/08/05	See location plan	6	833	95.2	20.2	79.2	82.4	23.2	BC-4	96.1	X		-3.0
DT-413	11/08/05	See location plan	6	833	95.5	19.7	79.8	82.4	23.2	BC-4	96.8	X		-3.5
DT-414	11/08/05	See location plan	6	833	96.7	20.4	80.3	82.4	23.2	BC-4	97.5	X		-2.8
DT-415	11/08/05	See location plan	6	833	93.4	18.7	78.7	82.4	23.2	BC-4	95.5	X		-4.5
DT-416	11/15/05	See location plan	6	834	93.4	18.6	78.7	82.4	23.2	BC-4	95.6	X		-4.6
DT-417	11/15/05	See location plan	6	834	94.0	18.2	79.5	82.4	23.2	BC-4	96.5	X		-5.0
DT-418	11/15/05	See location plan	6	834	93.1	18.7	78.4	82.4	23.2	BC-4	95.2	X		-4.5
DT-419	11/15/05	See location plan	6	834	92.8	18.2	78.5	82.4	23.2	BC-4	95.3	X		-5.0
DT-420	11/15/05	See location plan	6	834	93.7	18.1	79.3	82.4	23.2	BC-4	96.3	X		-5.1
DT-421	11/15/05	See location plan	6	834	95.8	18.1	81.1	82.4	23.2	BC-4	98.4	X		-5.1
DT-422	12/08/05	See location plan	6	835	101.8	19.2	85.4	84.9	21.1	BC-1	100+	X		-1.9
DT-423	12/08/05	See location plan	6	835	103.3	18.9	86.9	84.9	21.1	BC-1	100+	X		-2.2
DT-424	12/08/05	See location plan	6	835	103.0	20.7	85.3	84.9	21.1	BC-1	100+	X		-0.4
DT-425	12/08/05	See location plan	6	835	101.2	18.5	85.4	84.9	21.1	BC-1	100+	X		-2.6
DT-426	12/08/05	See location plan	6	835	101.2	18.3	85.5	84.9	21.1	BC-1	100+	X		-2.8
DT-427	12/08/05	See location plan	6	835	106.1	19.9	88.5	84.9	21.1	BC-1	100+	X		-1.2
DT-428	12/14/05	See location plan	6	858	99.7	19.5	83.4	84.9	21.1	BC-1	98.2	X		-1.6

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-429	12/14/05	See location plan	6	858	99.1	19.8	82.7	84.9	21.1	BC-1	97.5	X		-1.3
DT-430	12/14/05	See location plan	6	858	100.6	19.0	84.5	84.9	21.1	BC-1	99.6	X		-2.1
DT-431	12/14/05	See location plan	6	858	96.4	18.0	81.7	84.9	21.1	BC-1	96.2	X		-3.1
DT-432	12/14/05	See location plan	6	858	101.2	20.4	84.1	84.9	21.1	BC-1	99.0	X		-0.7
DT-433	12/14/05	See location plan	6	858	101.5	20.0	84.6	84.9	21.1	BC-1	99.7	X		-1.1
DT-434	12/20/05	See location plan	6	837	100.6	18.2	85.1	84.9	21.1	BC-1	100+	X		-2.9
DT-435	12/20/05	See location plan	6	837	100.9	19.8	84.2	84.9	21.1	BC-1	99.2	X		-1.3
DT-436	12/20/05	See location plan	6	837	98.8	18.6	83.3	84.9	21.1	BC-1	98.1	X		-2.5
DT-437	12/20/05	See location plan	6	837	99.7	19.2	83.6	84.9	21.1	BC-1	98.5	X		-1.9
DT-438	12/20/05	See location plan	6	837	99.1	19.4	83.0	84.9	21.1	BC-1	97.8	X		-1.7
DT-439	12/20/05	See location plan	6	837	101.8	19.6	85.1	84.9	21.1	BC-1	100+	X		-1.5
DT-440	12/28/05	See location plan	6	837	98.8	20.5	82.0	84.9	21.1	BC-1	96.6	X		-0.6
DT-441	12/28/05	See location plan	6	837	102.1	18.1	86.5	84.9	21.1	BC-1	100+	X		-3.0
DT-442	12/28/05	See location plan	6	837	97.0	19.8	81.0	84.9	21.1	BC-1	95.4	X		-1.3
DT-443	12/28/05	See location plan	6	837	97.9	18.7	82.5	84.9	21.1	BC-1	97.1	X		-2.4
DT-444	12/28/05	See location plan	6	837	97.3	18.4	82.2	84.9	21.1	BC-1	96.8	X		-2.7
DT-445	12/28/05	See location plan	6	837	100.0	18.1	84.7	84.9	21.1	BC-1	99.7	X		-3.0
DT-446	01/05/06	See location plan	6	837	98.5	19.3	82.6	84.9	21.1	BC-1	97.3	X		-1.8
DT-447	01/05/06	See location plan	6	837	97.3	18.7	82.0	84.9	21.1	BC-1	96.6	X		-2.4
DT-448	01/05/06	See location plan	6	837	96.1	18.8	80.9	84.9	21.1	BC-1	95.3	X		-2.3
DT-449	01/05/06	See location plan	6	837	96.4	17.9	81.8	84.9	21.1	BC-1	96.3	X		-3.2
DT-450	01/05/06	See location plan	6	837	97.6	18.0	82.7	84.9	21.1	BC-1	97.4	X		-3.1
DT-451	01/05/06	See location plan	6	837	98.2	19.2	82.4	84.9	21.1	BC-1	97.1	X		-1.9
DT-452	01/13/06	See location plan	6	838	101.2	22.2	82.8	84.9	21.1	BC-1	97.6	X		1.1
DT-453	01/13/06	See location plan	6	838	100.3	21.8	82.3	84.9	21.1	BC-1	97.0	X		0.7
DT-454	01/13/06	See location plan	6	838	97.0	20.3	80.6	84.9	21.1	BC-1	95.0	X		-0.8
DT-455	01/13/06	See location plan	6	838	96.7	19.8	80.7	84.9	21.1	BC-1	95.0	X		-1.3
DT-456	01/13/06	See location plan	6	838	100.0	22.0	82.0	84.9	21.1	BC-1	96.5	X		0.9
DT-457	01/13/06	See location plan	6	838	99.7	21.0	82.4	84.9	21.1	BC-1	97.1	X		-0.1
DT-458	01/19/06	See location plan	6	859	95.8	18.4	80.9	84.9	21.1	BC-1	95.3	X		-2.7
DT-459	01/19/06	See location plan	6	859	96.7	18.2	81.8	84.9	21.1	BC-1	96.4	X		-2.9
DT-460	01/19/06	See location plan	6	859	97.0	18.3	82.0	84.9	21.1	BC-1	96.6	X		-2.8
DT-461	01/19/06	See location plan	6	859	98.2	17.6	83.5	84.9	21.1	BC-1	98.4	X		-3.5
DT-462	01/19/06	See location plan	6	859	97.9	17.4	83.4	84.9	21.1	BC-1	98.2	X		-3.7
DT-463	01/19/06	See location plan	6	859	94.6	17.0	80.8	84.9	21.1	BC-1	95.2	X		-4.1
DT-464	01/25/06	See location plan	6	839	100.0	19.9	83.4	84.9	21.1	BC-1	98.3	X		-1.2
DT-465	01/25/06	See location plan	6	839	100.6	20.8	83.3	84.9	21.1	BC-1	98.1	X		-0.3
DT-466	01/25/06	See location plan	6	839	102.7	19.6	85.9	84.9	21.1	BC-1	100+	X		-1.5
DT-467	01/25/06	See location plan	6	839	99.1	20.3	82.4	84.9	21.1	BC-1	97.1	X		-0.8
DT-468	01/25/06	See location plan	6	839	99.4	19.2	83.4	84.9	21.1	BC-1	98.2	X		-1.9
DT-469	01/25/06	See location plan	6	839	100.0	18.5	84.4	84.9	21.1	BC-1	99.4	X		-2.6
DT-470	02/02/06	See location plan	6	839	98.5	17.4	83.9	84.9	21.1	BC-1	98.8	X		-3.7
DT-471	02/02/06	See location plan	6	839	93.7	13.3	82.7	84.9	21.1	BC-1	97.4	X		-7.8
DT-472	02/02/06	See location plan	6	839	93.1	14.4	81.4	84.9	21.1	BC-1	95.9	X		-6.7
DT-473	02/02/06	See location plan	6	839	93.4	14.6	81.5	84.9	21.1	BC-1	96.0	X		-6.5
DT-474	02/02/06	See location plan	6	839	94.0	13.3	83.0	84.9	21.1	BC-1	97.7	X		-7.8
DT-475	02/02/06	See location plan	6	839	95.2	13.4	84.0	84.9	21.1	BC-1	98.9	X		-7.7
DT-476	02/09/06	See location plan	6	839	98.8	19.7	82.5	84.9	21.1	BC-1	97.3	X		-1.4
DT-477	02/09/06	See location plan	6	839	100.0	19.5	83.7	84.9	21.1	BC-1	98.6	X		-1.6
DT-478	02/09/06	See location plan	6	839	98.2	18.9	82.6	84.9	21.1	BC-1	97.3	X		-2.2

SHIELD ENGINEERING, INC

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-479	02/09/06	See location plan	6	839	103.0	19.4	86.3	84.9	21.1	BC-1	100+	X		-1.7
DT-480	02/09/06	See location plan	6	839	101.2	19.1	85.0	84.9	21.1	BC-1	100+	X		-2.0
DT-481	02/09/06	See location plan	6	839	103.6	21.3	85.4	84.9	21.1	BC-1	100+	X		0.2
DT-482	02/15/06	See location plan	6	839	98.2	18.3	83.0	84.9	21.1	BC-1	97.8	X		-2.8
DT-483	02/15/06	See location plan	6	839	100.0	19.6	83.6	84.9	21.1	BC-1	98.5	X		-1.5
DT-484	02/15/06	See location plan	6	839	95.8	16.4	82.3	84.9	21.1	BC-1	96.9	X		-4.7
DT-485	02/15/06	See location plan	6	839	101.2	18.2	85.6	84.9	21.1	BC-1	100+	X		-2.9
DT-486	02/15/06	See location plan	6	839	100.0	20.0	83.3	84.9	21.1	BC-1	98.2	X		-1.1
DT-487	02/15/06	See location plan	6	839	98.8	19.2	82.9	84.9	21.1	BC-1	97.6	X		-1.9
DT-488	02/23/06	See location plan	6	839	100.6	18.2	85.1	84.9	21.1	BC-1	100+	X		-2.9
DT-489	02/23/06	See location plan	6	839	100.0	20.1	83.3	84.9	21.1	BC-1	98.1	X		-1.0
DT-490	02/23/06	See location plan	6	839	99.7	19.5	83.4	84.9	21.1	BC-1	98.3	X		-1.6
DT-491	02/23/06	See location plan	6	839	102.1	20.0	85.1	84.9	21.1	BC-1	100+	X		-1.1
DT-492	02/23/06	See location plan	6	839	99.1	20.3	82.4	84.9	21.1	BC-1	97.0	X		-0.8
DT-493	02/23/06	See location plan	6	839	100.3	19.6	83.9	84.9	21.1	BC-1	98.8	X		-1.5
DT-494	03/01/06	See location plan	6	839	96.4	19.3	80.8	84.9	21.1	BC-1	95.2	X		-1.8
DT-495	03/01/06	See location plan	6	839	97.9	19.7	81.8	84.9	21.1	BC-1	96.3	X		-1.4
DT-496	03/01/06	See location plan	6	839	99.7	19.2	83.6	84.9	21.1	BC-1	98.5	X		-1.9
DT-497	03/01/06	See location plan	6	839	98.8	19.5	82.7	84.9	21.1	BC-1	97.4	X		-1.6
DT-498	03/01/06	See location plan	6	839	97.6	19.4	81.7	84.9	21.1	BC-1	96.3	X		-1.7
DT-499	03/01/06	See location plan	6	839	100.0	19.1	84.0	84.9	21.1	BC-1	98.9	X		-2.0
DT-500	03/08/06	See location plan	6	840	99.4	16.2	85.5	84.9	21.1	BC-1	100+	X		-4.9
DT-501	03/08/06	See location plan	6	840	96.7	16.5	83.0	84.9	21.1	BC-1	97.8	X		-4.6
DT-502	03/08/06	See location plan	6	840	97.9	16.7	83.9	84.9	21.1	BC-1	98.8	X		-4.4
DT-503	03/08/06	See location plan	6	840	96.4	16.7	82.6	84.9	21.1	BC-1	97.3	X		-4.4
DT-504	03/08/06	See location plan	6	840	96.9	16.8	82.9	84.9	21.1	BC-1	97.7	X		-4.3
DT-505	03/08/06	See location plan	6	840	95.2	16.2	81.9	84.9	21.1	BC-1	96.5	X		-4.9
DT-506	03/14/06	See location plan	6	841	96.7	13.6	85.1	84.9	21.1	BC-1	100+	X		-7.5
DT-507	03/14/06	See location plan	6	841	96.4	12.0	86.1	84.9	21.1	BC-1	100+	X		-9.1
DT-508	03/14/06	See location plan	6	841	91.9	12.7	81.5	84.9	21.1	BC-1	96.0	X		-8.4
DT-509	03/14/06	See location plan	6	841	94.9	16.0	81.8	84.9	21.1	BC-1	96.4	X		-5.1
DT-510	03/14/06	See location plan	6	841	93.39	14.4	81.6	84.9	21.1	BC-1	96.2	X		-6.7
DT-511	03/14/06	See location plan	6	841	93.7	16.0	80.8	84.9	21.1	BC-1	95.1	X		-5.1
DT-512	03/24/06	See location plan	6	841	95.8	18.3	81.0	84.9	21.1	BC-1	95.4	X		-2.8
DT-513	03/24/06	See location plan	6	841	96.4	17.6	82.0	84.9	21.1	BC-1	96.6	X		-3.5
DT-514	03/24/06	See location plan	6	841	95.2	17.4	81.1	84.9	21.1	BC-1	95.5	X		-3.7
DT-515	03/24/06	See location plan	6	841	96.1	17.9	81.5	84.9	21.1	BC-1	96.0	X		-3.2
DT-516	03/24/06	See location plan	6	841	96.1	17.0	82.1	84.9	21.1	BC-1	96.7	X		-4.1
DT-517	03/24/06	See location plan	6	841	95.8	16.8	82.0	84.9	21.1	BC-1	96.6	X		-4.3
DT-518	04/05/06	See location plan	6	841	99.1	14.9	86.2	86.8	20.6	BC-2	99.4	X		-5.7
DT-519	04/05/06	See location plan	6	841	100.3	17.0	85.7	86.8	20.6	BC-2	98.7	X		-3.6
DT-520	04/05/06	See location plan	6	841	98.2	13.3	86.7	86.8	20.6	BC-2	99.9	X		-7.3
DT-521	04/05/06	See location plan	6	841	101.8	18.4	86.0	86.8	20.6	BC-2	99.1	X		-2.2
DT-522	04/05/06	See location plan	6	841	98.2	13.6	86.4	86.8	20.6	BC-2	99.6	X		-7.0
DT-523	04/05/06	See location plan	6	841	100.6	17.4	85.7	86.8	20.6	BC-2	98.7	X		-3.2
DT-524	04/15/06	See location plan	6	859	94.9	17.0	81.1	84.9	21.1	BC-1	95.5	X		-4.1
DT-525	04/15/06	See location plan	6	859	95.5	17.0	81.6	84.9	21.1	BC-1	96.2	X		-4.1
DT-526	04/15/06	See location plan	6	859	96.4	17.3	82.2	84.9	21.1	BC-1	96.8	X		-3.8
DT-527	04/15/06	See location plan	6	859	97.9	17.4	83.4	84.9	21.1	BC-1	98.2	X		-3.7
DT-528	04/15/06	See location plan	6	859	96.7	17.2	82.5	84.9	21.1	BC-1	97.2	X		-3.9

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TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-529	04/15/06	See location plan	6	859	97.3	16.9	83.2	84.9	21.1	BC-1	98.0	X		-4.2
DT-530	05/02/06	See location plan	6	841	100.3	17.5	85.4	86.8	20.6	BC-2	98.3	X		-3.1
DT-531	05/02/06	See location plan	6	841	98.8	15.2	85.8	86.8	20.6	BC-2	98.8	X		-5.4
DT-532	05/02/06	See location plan	6	841	99.1	14.4	86.6	86.8	20.6	BC-2	99.8	X		-6.2
DT-533	05/02/06	See location plan	6	841	95.5	10.4	86.5	86.8	20.6	BC-2	99.7	X		-10.2
DT-534	05/02/06	See location plan	6	841	97.3	12.7	86.3	86.8	20.6	BC-2	99.4	X		-7.9
DT-535	05/02/06	See location plan	6	841	97.0	13.0	85.8	86.8	20.6	BC-2	98.9	X		-7.6
DT-536	05/10/06	See location plan	6	840	102.4	19.8	85.5	86.8	20.6	BC-2	98.5	X		-0.8
DT-537	05/10/06	See location plan	6	845	100.0	20.9	82.7	86.8	20.6	BC-2	95.3	X		0.3
DT-538	05/10/06	See location plan	6	850	100.3	19.4	84.0	86.8	20.6	BC-2	96.8	X		-1.2
DT-539	05/10/06	See location plan	6	853	102.7	20.2	85.4	86.8	20.6	BC-2	98.5	X		-0.4
DT-540	05/10/06	See location plan	6	858	100.0	17.1	85.4	86.8	20.6	BC-2	98.4	X		-3.5
DT-541	05/10/06	See location plan	6	860	97.3	17.8	82.6	86.8	20.6	BC-2	95.2	X		-2.8
DT-542	05/17/06	See location plan	6	842	98.5	19.5	82.4	84.9	21.1	BC-1	97.1	X		-1.6
DT-543	05/17/06	See location plan	6	848	96.7	18.9	81.3	84.9	21.1	BC-1	95.8	X		-2.2
DT-544	05/17/06	See location plan	6	854	99.7	18.7	84.0	84.9	21.1	BC-1	99.0	X		-2.4
DT-545	05/17/06	See location plan	6	854	99.1	19.7	82.8	84.9	21.1	BC-1	97.5	X		-1.4
DT-546	05/17/06	See location plan	6	848	97.6	19.3	81.8	84.9	21.1	BC-1	96.3	X		-1.8
DT-547	05/17/06	See location plan	6	842	96.4	19.3	80.8	84.9	21.1	BC-1	95.2	X		-1.8
DT-548	05/24/06	See location plan	6	840	97.9	16.9	83.7	86.8	20.6	BC-2	96.5	X		-3.7
DT-549	05/24/06	See location plan	6	845	102.1	18.7	86.0	86.8	20.6	BC-2	99.1	X		-1.9
DT-550	05/24/06	See location plan	6	850	99.1	18.3	83.8	86.8	20.6	BC-2	96.5	X		-2.3
DT-551	05/24/06	See location plan	6	853	97.3	16.8	83.3	86.8	20.6	BC-2	96.0	X		-3.8
DT-552	05/24/06	See location plan	6	858	98.2	16.9	84.0	86.8	20.6	BC-2	96.8	X		-3.7
DT-553	05/24/06	See location plan	6	860	101.8	18.4	86.0	86.8	20.6	BC-2	99.1	X		-2.2
DT-554	06/08/06	See location plan	6	842	101.2	18.9	85.1	86.8	20.6	BC-2	98.1	X		-1.7
DT-555	06/08/06	See location plan	6	842	98.8	18.3	83.5	86.8	20.6	BC-2	96.2	X		-2.3
DT-556	06/08/06	See location plan	6	842	97.9	17.6	83.2	86.8	20.6	BC-2	95.9	X		-3.0
DT-557	06/08/06	See location plan	6	842	98.8	16.8	84.6	86.8	20.6	BC-2	97.5	X		-3.8
DT-558	06/08/06	See location plan	6	842	99.7	16.2	85.8	86.8	20.6	BC-2	98.8	X		-4.4
DT-559	06/08/06	See location plan	6	842	98.5	17.5	83.8	86.8	20.6	BC-2	96.6	X		-3.1
DT-560	06/16/06	See location plan	6	826	102.1	18.0	86.5	86.8	20.6	BC-2	99.7	X		-2.6
DT-561	06/16/06	See location plan	6	828	100.6	16.3	86.5	86.8	20.6	BC-2	99.7	X		-4.3
DT-562	06/16/06	See location plan	6	832	98.5	14.3	86.2	86.8	20.6	BC-2	99.3	X		-6.3
DT-563	06/16/06	See location plan	6	830	96.7	17.1	82.6	86.8	20.6	BC-2	95.1	X		-3.5
DT-564	06/16/06	See location plan	6	828	97.6	15.9	84.2	86.8	20.6	BC-2	97.0	X		-4.7
DT-565	06/16/06	See location plan	6	826	96.7	16.9	82.7	86.8	20.6	BC-2	95.3	X		-3.7
DT-566	06/22/06	See location plan	6	830	99.7	18.6	84.1	84.9	21.1	BC-1	99.0	X		-2.5
DT-567	06/22/06	See location plan	6	830	97.0	19.1	81.4	84.9	21.1	BC-1	95.9	X		-2.0
DT-568	06/22/06	See location plan	6	830	96.1	18.8	80.9	84.9	21.1	BC-1	95.3	X		-2.3
DT-569	06/22/06	See location plan	6	830	95.8	18.1	81.1	84.9	21.1	BC-1	95.5	X		-3.0
DT-570	06/22/06	See location plan	6	830	97.3	18.9	81.8	84.9	21.1	BC-1	96.4	X		-2.2
DT-571	06/22/06	See location plan	6	830	96.7	17.9	82.0	84.9	21.1	BC-1	96.6	X		-3.2
DT-572	06/28/06	See location plan	6	833	99.7	19.4	83.5	84.9	21.1	BC-1	98.4	X		-1.7
DT-573	06/28/06	See location plan	6	833	103.9	22.8	84.6	84.9	21.1	BC-1	99.7	X		1.7
DT-574	06/28/06	See location plan	6	833	106.3	26.2	84.2	84.9	21.1	BC-1	99.2	X		5.1
DT-575	06/28/06	See location plan	6	833	97.3	18.2	82.3	84.9	21.1	BC-1	97.0	X		-2.9
DT-576	06/28/06	See location plan	6	833	93.1	15.1	80.9	84.9	21.1	BC-1	95.3	X		-6.0
DT-577	06/28/06	See location plan	6	833	97.0	18.0	82.2	84.9	21.1	BC-1	96.8	X		-3.1
DT-578	07/05/06	See location plan	6	845	99.4	23.0	80.8	84.9	21.1	BC-1	95.2	X		1.9

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-579	07/05/06	See location plan	6	845	100.0	23.1	81.2	84.9	21.1	BC-1	95.7	X		2.0
DT-580	07/05/06	See location plan	6	845	99.7	23.3	80.9	84.9	21.1	BC-1	95.2	X		2.2
DT-581	07/05/06	See location plan	6	845	100.3	22.5	81.9	84.9	21.1	BC-1	96.4	X		1.4
DT-582	07/05/06	See location plan	6	845	100.0	23.4	81.0	84.9	21.1	BC-1	95.5	X		2.3
DT-583	07/05/06	See location plan	6	845	101.8	23.2	82.6	84.9	21.1	BC-1	97.3	X		2.1
DT-584	07/11/06	See location plan	6	834	100.6	19.2	84.4	86.0	22.1	BC-3	98.2	X		-2.9
DT-585	07/11/06	See location plan	6	834	102.4	19.3	85.8	86.0	22.1	BC-3	99.8	X		-2.8
DT-586	07/11/06	See location plan	6	834	99.7	21.5	82.1	86.0	22.1	BC-3	95.4	X		-0.6
DT-587	07/11/06	See location plan	6	834	98.5	20.0	82.1	86.0	22.1	BC-3	95.4	X		-2.1
DT-588	07/11/06	See location plan	6	834	100.0	19.2	83.9	86.0	22.1	BC-3	97.5	X		-2.9
DT-589	07/11/06	See location plan	6	834	102.4	19.0	86.1	86.0	22.1	BC-3	100+	X		-3.1
DT-590	07/19/06	See location plan	6	835	104.5	19.6	87.4	86.0	22.1	BC-3	100+	X		-2.5
DT-591	07/19/06	See location plan	6	835	105.7	19.4	88.5	86.0	22.1	BC-3	100+	X		-2.7
DT-592	07/19/06	See location plan	6	835	106.6	21.5	87.7	86.0	22.1	BC-3	100+	X		-0.6
DT-593	07/19/06	See location plan	6	835	108.7	19.1	91.3	86.0	22.1	BC-3	100+	X		-3.0
DT-594	07/19/06	See location plan	6	835	105.7	22.2	86.5	86.0	22.1	BC-3	100+	X		0.1
DT-595	07/19/06	See location plan	6	835	104.8	22.7	85.4	86.0	22.1	BC-3	99.3	X		0.6
DT-596	07/25/06	See location plan	6	838	95.5	19.2	80.1	86.0	22.1	BC-3	93.2		X	-2.9
DT-596R	07/31/06	See location plan	6	838	105.7	18.7	89.1	86.0	22.1	BC-3	100+	X		-3.4
DT-597	07/31/06	See location plan	6	836	109.3	19.5	91.5	86.0	22.1	BC-3	100+	X		-2.6
DT-598	07/31/06	See location plan	6	836	102.1	19.7	85.3	86.0	22.1	BC-3	99.2	X		-2.4
DT-599	07/31/06	See location plan	6	836	104.2	21.2	86.0	86.0	22.1	BC-3	100.0	X		-0.9
DT-600	07/31/06	See location plan	6	836	106.0	18.5	89.5	86.0	22.1	BC-3	100+	X		-3.6
DT-601	07/31/06	See location plan	6	836	109.9	19.2	92.2	86.0	22.1	BC-3	100+	X		-2.9
DT-602	07/31/06	See location plan	6	836	100.9	19.5	84.4	86.0	22.1	BC-3	98.2	X		-2.6
DT-603	08/10/06	See location plan	6	837	105.7	21.3	87.1	86.0	22.1	BC-3	100+	X		-0.8
DT-604	08/10/06	See location plan	6	837	109.3	18.8	92.0	86.0	22.1	BC-3	100+	X		-3.3
DT-605	08/10/06	See location plan	6	837	102.1	22.5	83.3	86.0	22.1	BC-3	96.9	X		0.4
DT-606	08/10/06	See location plan	6	837	104.2	22.5	85.1	86.0	22.1	BC-3	98.9	X		0.4
DT-607	08/10/06	See location plan	6	837	106.0	19.2	88.9	86.0	22.1	BC-3	100+	X		-2.9
DT-608	08/10/06	See location plan	6	837	109.9	22.2	89.9	86.0	22.1	BC-3	100+	X		0.1
DT-609	08/15/06	See location plan	6	837	96.1	17.0	82.1	86.0	22.1	BC-3	95.5	X		-5.1
DT-610	08/15/06	See location plan	6	837	97.3	17.6	82.7	86.0	22.1	BC-3	96.2	X		-4.5
DT-611	08/15/06	See location plan	6	837	96.7	17.6	82.2	86.0	22.1	BC-3	95.6	X		-4.5
DT-612	08/15/06	See location plan	6	837	100.0	19.9	83.4	86.0	22.1	BC-3	97.0	X		-2.2
DT-613	08/15/06	See location plan	6	837	97.3	18.2	82.3	86.0	22.1	BC-3	95.7	X		-3.9
DT-614	08/15/06	See location plan	6	837	100.0	20.1	83.3	86.0	22.1	BC-3	96.8	X		-2.0
DT-615	08/23/06	See location plan	6	839	100.3	20.8	83.0	84.9	21.1	BC-1	97.8	X		-0.3
DT-616	08/23/06	See location plan	6	839	99.4	20.1	82.8	84.9	21.1	BC-1	97.5	X		-1.0
DT-617	08/23/06	See location plan	6	839	102.1	20.3	84.9	84.9	21.1	BC-1	100.0	X		-0.8
DT-618	08/23/06	See location plan	6	839	100.9	18.9	84.9	84.9	21.1	BC-1	99.9	X		-2.2
DT-619	08/23/06	See location plan	6	839	102.1	20.7	84.6	84.9	21.1	BC-1	99.7	X		-0.4
DT-620	08/23/06	See location plan	6	839	102.4	18.8	86.2	84.9	21.1	BC-1	100+	X		-2.3
DT-621	08/28/06	See location plan	6	841	103.6	19.2	86.9	86.0	22.1	BC-3	100+	X		-2.9
DT-622	08/28/06	See location plan	6	841	106.3	19.9	88.7	86.0	22.1	BC-3	100+	X		-2.2
DT-623	08/28/06	See location plan	6	841	100.6	18.6	84.8	86.0	22.1	BC-3	98.6	X		-3.5
DT-624	08/28/06	See location plan	6	841	99.7	19.9	83.2	86.0	22.1	BC-3	96.7	X		-2.2
DT-625	08/28/06	See location plan	6	841	102.4	19.8	85.5	86.0	22.1	BC-3	99.4	X		-2.3
DT-626	08/28/06	See location plan	6	841	99.1	20.8	82.0	86.0	22.1	BC-3	95.4	X		-1.3
DT-627	09/09/06	See location plan	6	843	100.6	19.6	84.1	86.0	22.1	BC-3	97.8	X		-2.5

SHIELD ENGINEERING, INC

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SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-628	09/09/06	See location plan	6	843	98.5	18.9	82.8	86.0	22.1	BC-3	96.3	X		-3.2
DT-629	09/09/06	See location plan	6	843	99.7	19.6	83.4	86.0	22.1	BC-3	97.0	X		-2.5
DT-630	09/09/06	See location plan	6	843	99.1	17.3	84.5	86.0	22.1	BC-3	98.2	X		-4.8
DT-631	09/09/06	See location plan	6	843	101.5	19.6	84.9	86.0	22.1	BC-3	98.7	X		-2.5
DT-632	09/09/06	See location plan	6	843	100.3	19.4	84.0	86.0	22.1	BC-3	97.7	X		-2.7
DT-633	09/15/06	See location plan	6	844	95.2	17.7	80.9	84.9	21.1	BC-1	95.2	X		-3.4
DT-634	09/15/06	See location plan	6	844	96.7	17.1	82.6	84.9	21.1	BC-1	97.2	X		-4.0
DT-635	09/15/06	See location plan	6	844	97.9	16.9	83.7	84.9	21.1	BC-1	98.6	X		-4.2
DT-636	09/15/06	See location plan	6	844	97.6	16.9	83.5	84.9	21.1	BC-1	98.3	X		-4.2
DT-637	09/15/06	See location plan	6	844	95.8	16.4	82.3	84.9	21.1	BC-1	96.9	X		-4.7
DT-638	09/15/06	See location plan	6	844	99.7	16.1	85.9	84.9	21.1	BC-1	100+	X		-5.0
DT-639	09/21/06	See location plan	6	845	102.1	20.3	84.9	86.0	22.1	BC-3	98.7	X		-1.8
DT-640	09/21/06	See location plan	6	845	101.5	19.9	84.7	86.0	22.1	BC-3	98.4	X		-2.2
DT-641	09/21/06	See location plan	6	845	102.7	17.1	87.7	86.0	22.1	BC-3	100+	X		-5.0
DT-642	09/21/06	See location plan	6	845	100.6	20.5	83.5	86.0	22.1	BC-3	97.1	X		-1.6
DT-643	09/21/06	See location plan	6	845	102.7	17.3	87.6	86.0	22.1	BC-3	100+	X		-4.8
DT-644	09/21/06	See location plan	6	845	102.1	19.6	85.4	86.0	22.1	BC-3	99.2	X		-2.5
DT-645	09/26/06	See location plan	6	846	96.4	19.2	80.9	84.9	21.1	BC-1	95.2	X		-1.9
DT-646	09/26/06	See location plan	6	847	97.0	19.1	81.4	84.9	21.1	BC-1	95.9	X		-2.0
DT-647	09/26/06	See location plan	6	848	99.1	19.0	83.3	84.9	21.1	BC-1	98.1	X		-2.1
DT-648	09/26/06	See location plan	6	849	100.0	19.6	83.6	84.9	21.1	BC-1	98.5	X		-1.5
DT-649	09/26/06	See location plan	6	850	97.9	18.4	82.7	84.9	21.1	BC-1	97.4	X		-2.7
DT-650	09/26/06	See location plan	6	851	100.3	18.7	84.5	84.9	21.1	BC-1	99.5	X		-2.4
DT-651	10/04/06	See location plan	6	846	100.6	21.1	83.1	86.0	22.1	BC-3	96.6	X		-1.0
DT-652	10/04/06	See location plan	6	846	99.7	20.1	83.0	86.0	22.1	BC-3	96.6	X		-2.0
DT-653	10/04/06	See location plan	6	846	102.4	18.0	86.8	86.0	22.1	BC-3	100+	X		-4.1
DT-654	10/04/06	See location plan	6	846	103.6	18.1	87.7	86.0	22.1	BC-3	100+	X		-4.0
DT-655	10/04/06	See location plan	6	846	103.3	20.3	85.9	86.0	22.1	BC-3	99.8	X		-1.8
DT-656	10/04/06	See location plan	6	846	101.8	18.0	86.3	86.0	22.1	BC-3	100+	X		-4.1
DT-657	10/10/06	See location plan	6	847	99.1	20.3	82.4	86.0	22.1	BC-3	95.8	X		-1.8
DT-658	10/10/06	See location plan	6	847	101.5	19.9	84.7	86.0	22.1	BC-3	98.4	X		-2.2
DT-659	10/10/06	See location plan	6	847	101.2	17.1	86.4	86.0	22.1	BC-3	100+	X		-5.0
DT-660	10/10/06	See location plan	6	847	102.7	20.5	85.2	86.0	22.1	BC-3	99.1	X		-1.6
DT-661	10/10/06	See location plan	6	847	100.3	17.3	85.5	86.0	22.1	BC-3	99.5	X		-4.8
DT-662	10/10/06	See location plan	6	847	101.2	19.6	84.6	86.0	22.1	BC-3	98.4	X		-2.5
DT-663	10/18/06	See location plan	6	847	100.0	19.6	83.6	86.0	22.1	BC-3	97.2	X		-2.5
DT-664	10/18/06	See location plan	6	848	97.9	19.3	82.1	86.0	22.1	BC-3	95.4	X		-2.8
DT-665	10/18/06	See location plan	6	849	98.2	19.2	82.4	86.0	22.1	BC-3	95.8	X		-2.9
DT-666	10/18/06	See location plan	6	849	101.5	18.5	85.7	86.0	22.1	BC-3	99.6	X		-3.6
DT-667	10/18/06	See location plan	6	850	102.4	19.0	86.1	86.0	22.1	BC-3	100+	X		-3.1
DT-668	10/18/06	See location plan	6	850	100.0	19.2	83.9	86.0	22.1	BC-3	97.6	X		-2.9
DT-669	10/27/06	See location plan	6	848	99.4	20.8	82.3	86.0	22.1	BC-3	95.7	X		-1.3
DT-670	10/27/06	See location plan	6	848	100.9	21.1	83.3	86.0	22.1	BC-3	96.9	X		-1.0
DT-671	10/27/06	See location plan	6	848	101.5	21.3	83.7	86.0	22.1	BC-3	97.3	X		-0.8
DT-672	10/27/06	See location plan	6	848	102.4	22.8	83.4	86.0	22.1	BC-3	97.0	X		0.7
DT-673	10/27/06	See location plan	6	848	103.0	20.3	85.6	86.0	22.1	BC-3	99.6	X		-1.8
DT-674	10/27/06	See location plan	6	848	99.7	21.3	82.2	86.0	22.1	BC-3	95.6	X		-0.8
DT-675	11/02/06	See location plan	6	848	99.1	20.6	82.2	86.0	22.1	BC-3	95.6	X		-1.5
DT-676	11/02/06	See location plan	6	848	101.5	19.8	84.7	86.0	22.1	BC-3	98.5	X		-2.3
DT-677	11/02/06	See location plan	6	848	101.2	19.3	84.8	86.0	22.1	BC-3	98.6	X		-2.8

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-678	11/02/06	See location plan	6	848	102.7	19.9	85.7	86.0	22.1	BC-3	99.6	X		-2.2
DT-679	11/02/06	See location plan	6	848	100.3	19.1	84.2	86.0	22.1	BC-3	97.9	X		-3.0
DT-680	11/02/06	See location plan	6	848	101.2	19.4	84.8	86.0	22.1	BC-3	98.6	X		-2.7
DT-681	11/08/06	See location plan	6	849	102.7	19.5	85.9	86.0	22.1	BC-3	99.9	X		-2.6
DT-682	11/08/06	See location plan	6	849	100.6	21.8	82.6	86.0	22.1	BC-3	96.1	X		-0.3
DT-683	11/08/06	See location plan	6	849	102.1	22.0	83.7	86.0	22.1	BC-3	97.3	X		-0.1
DT-684	11/08/06	See location plan	6	849	101.8	20.4	84.6	86.0	22.1	BC-3	98.3	X		-1.7
DT-685	11/08/06	See location plan	6	849	102.4	20.6	84.9	86.0	22.1	BC-3	98.7	X		-1.5
DT-686	11/08/06	See location plan	6	849	100.6	20.0	83.8	86.0	22.1	BC-3	97.5	X		-2.1
DT-687	11/14/06	See location plan	6	849	101.5	20.3	84.4	86.0	22.1	BC-3	98.1	X		-1.8
DT-688	11/14/06	See location plan	6	849	100.6	20.6	83.4	86.0	22.1	BC-3	97.0	X		-1.5
DT-689	11/14/06	See location plan	6	849	99.1	20.1	82.5	86.0	22.1	BC-3	95.9	X		-2.0
DT-690	11/14/06	See location plan	6	849	101.2	19.4	84.8	86.0	22.1	BC-3	98.5	X		-2.7
DT-691	11/14/06	See location plan	6	849	99.7	21.1	82.3	86.0	22.1	BC-3	95.8	X		-1.0
DT-692	11/14/06	See location plan	6	849	99.7	19.4	83.5	86.0	22.1	BC-3	97.1	X		-2.7
DT-693	11/22/06	See location plan	6	850	97.9	18.6	82.5	86.0	22.1	BC-3	96.0	X		-3.5
DT-694	11/22/06	See location plan	6	850	100.6	17.9	85.3	86.0	22.1	BC-3	99.3	X		-4.2
DT-695	11/22/06	See location plan	6	850	99.7	18.0	84.5	86.0	22.1	BC-3	98.3	X		-4.1
DT-696	11/22/06	See location plan	6	850	100.6	19.5	84.2	86.0	22.1	BC-3	97.9	X		-2.6
DT-697	11/22/06	See location plan	6	850	100.3	17.6	85.3	86.0	22.1	BC-3	99.2	X		-4.5
DT-698	11/22/06	See location plan	6	850	98.8	18.2	83.6	86.0	22.1	BC-3	97.2	X		-3.9
DT-699	12/01/06	See location plan	6	851	99.1	21.3	81.7	86.0	22.1	BC-3	95.0	X		-0.8
DT-700	12/01/06	See location plan	6	851	99.7	21.7	81.9	86.0	22.1	BC-3	95.2	X		-0.4
DT-701	12/01/06	See location plan	6	851	100.9	21.3	83.2	86.0	22.1	BC-3	96.7	X		-0.8
DT-702	12/01/06	See location plan	6	851	102.1	20.4	84.8	86.0	22.1	BC-3	98.6	X		-1.7
DT-703	12/01/06	See location plan	6	851	100.3	20.7	83.1	86.0	22.1	BC-3	96.7	X		-1.4
DT-704	12/01/06	See location plan	6	851	102.4	21.6	84.2	86.0	22.1	BC-3	97.9	X		-0.5
DT-705	12/13/06	See location plan	6	851	101.5	22.0	83.2	86.0	22.1	BC-3	96.8	X		-0.1
DT-706	12/13/06	See location plan	6	851	100.6	21.6	82.7	86.0	22.1	BC-3	96.2	X		-0.5
DT-707	12/13/06	See location plan	6	851	98.8	20.6	81.9	86.0	22.1	BC-3	95.3	X		-1.5
DT-708	12/13/06	See location plan	6	851	99.7	20.8	82.5	86.0	22.1	BC-3	95.9	X		-1.3
DT-709	12/13/06	See location plan	6	851	101.2	18.4	85.5	86.0	22.1	BC-3	99.4	X		-3.7
DT-710	12/13/06	See location plan	6	851	100.0	21.1	82.6	86.0	22.1	BC-3	96.0	X		-1.0
DT-711	12/22/06	See location plan	6	852	99.1	19.5	82.9	86.0	22.1	BC-3	96.4	X		-2.6
DT-712	12/22/06	See location plan	6	852	99.7	18.6	84.1	86.0	22.1	BC-3	97.7	X		-3.5
DT-713	12/22/06	See location plan	6	852	100.9	19.3	84.6	86.0	22.1	BC-3	98.3	X		-2.8
DT-714	12/22/06	See location plan	6	852	102.1	19.0	85.8	86.0	22.1	BC-3	99.8	X		-3.1
DT-715	12/22/06	See location plan	6	852	100.3	19.4	84.0	86.0	22.1	BC-3	97.7	X		-2.7
DT-716	12/22/06	See location plan	6	852	102.4	19.1	86.0	86.0	22.1	BC-3	100.0	X		-3.0
DT-717	01/03/07	See location plan	6	854	100.6	19.7	84.0	86.0	22.1	BC-3	97.8	X		-2.4
DT-718	01/03/07	See location plan	6	854	103.0	20.6	85.4	86.0	22.1	BC-3	99.3	X		-1.5
DT-719	01/03/07	See location plan	6	854	100.0	18.5	84.4	86.0	22.1	BC-3	98.1	X		-3.6
DT-720	01/03/07	See location plan	6	854	99.7	18.9	83.9	86.0	22.1	BC-3	97.5	X		-3.2
DT-721	01/03/07	See location plan	6	854	99.7	19.0	83.8	86.0	22.1	BC-3	97.4	X		-3.1
DT-722	01/03/07	See location plan	6	854	100.9	19.8	84.2	86.0	22.1	BC-3	97.9	X		-2.3
DT-723	01/09/07	See location plan	6	856	99.7	22.0	81.7	86.0	22.1	BC-3	95.0	X		-0.1
DT-724	01/09/07	See location plan	6	856	100.0	21.6	82.2	86.0	22.1	BC-3	95.6	X		-0.5
DT-725	01/09/07	See location plan	6	856	99.1	20.6	82.2	86.0	22.1	BC-3	95.6	X		-1.5
DT-726	01/09/07	See location plan	6	856	100.0	20.8	82.8	86.0	22.1	BC-3	96.2	X		-1.3
DT-727	01/09/07	See location plan	6	856	100.3	18.4	84.7	86.0	22.1	BC-3	98.5	X		-3.7

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-728	01/09/07	See location plan	6	856	101.2	21.1	83.6	86.0	22.1	BC-3	97.2	X		-1.0
DT-729	01/17/07	See location plan	6	857	98.8	19.4	82.7	86.0	22.1	BC-3	96.2	X		-2.7
DT-730	01/17/07	See location plan	6	857	100.0	19.1	84.0	86.0	22.1	BC-3	97.7	X		-3.0
DT-731	01/17/07	See location plan	6	857	97.3	18.9	81.8	86.0	22.1	BC-3	95.2	X		-3.2
DT-732	01/17/07	See location plan	6	857	98.2	19.5	82.2	86.0	22.1	BC-3	95.6	X		-2.6
DT-733	01/17/07	See location plan	6	857	96.1	17.2	82.0	86.0	22.1	BC-3	95.4	X		-4.9
DT-734	01/17/07	See location plan	6	857	97.6	18.1	82.6	86.0	22.1	BC-3	96.1	X		-4.0
DT-735	01/26/07	See location plan	6	858	97.0	18.4	81.9	86.0	22.1	BC-3	95.3	X		-3.7
DT-736	01/26/07	See location plan	6	858	97.9	19.7	81.8	86.0	22.1	BC-3	95.1	X		-2.4
DT-737	01/26/07	See location plan	6	858	99.1	18.3	83.8	86.0	22.1	BC-3	97.4	X		-3.8
DT-738	01/26/07	See location plan	6	858	100.0	17.5	85.1	86.0	22.1	BC-3	99.0	X		-4.6
DT-739	01/26/07	See location plan	6	858	99.4	17.4	84.7	86.0	22.1	BC-3	98.4	X		-4.7
DT-740	01/26/07	See location plan	6	858	102.4	17.8	86.9	86.0	22.1	BC-3	100+	X		-4.3
DT-741	01/31/07	See location plan	6	835	95.5	21.8	78.4	86.0	22.1	BC-3	91.2		X	-0.3
DT-741R	02/07/07	See location plan	6	835	99.1	17.9	84.1	86.0	22.1	BC-3	97.8	X		-4.2
DT-742	01/31/07	See location plan	6	826	101.5	21.7	83.4	86.0	22.1	BC-3	96.9	X		-0.4
DT-743	01/31/07	See location plan	6	826	103.9	20.4	86.3	86.0	22.1	BC-3	100+	X		-1.7
DT-744	01/31/07	See location plan	6	826	104.8	20.8	86.8	86.0	22.1	BC-3	100+	X		-1.3
DT-745	01/31/07	See location plan	6	826	104.2	18.6	87.9	86.0	22.1	BC-3	100+	X		-3.5
DT-746	01/31/07	See location plan	6	828	103.3	21.1	85.3	86.0	22.1	BC-3	99.2	X		-1.0
DT-747	02/07/07	See location plan	6	832	101.5	17.8	86.2	86.0	22.1	BC-3	100+	X		-4.3
DT-748	02/07/07	See location plan	6	832	100.6	21.4	82.9	86.0	22.1	BC-3	96.4	X		-0.7
DT-749	02/07/07	See location plan	6	832	98.8	18.4	83.4	86.0	22.1	BC-3	97.0	X		-3.7
DT-750	02/07/07	See location plan	6	832	99.7	19.9	83.2	86.0	22.1	BC-3	96.7	X		-2.2
DT-751	02/07/07	See location plan	6	832	101.2	22.0	83.0	86.0	22.1	BC-3	96.4	X		-0.1
DT-752	02/07/07	See location plan	6	832	100.0	19.6	83.6	86.0	22.1	BC-3	97.2	X		-2.5
DT-753	02/12/07	See location plan	6	810	98.5	18.6	83.1	86.0	22.1	BC-3	96.6	X		-3.5
DT-754	02/12/07	See location plan	6	805	100.3	20.4	83.3	86.0	22.1	BC-3	96.9	X		-1.7
DT-755	02/12/07	See location plan	6	792	101.8	22.6	83.0	86.0	22.1	BC-3	96.5	X		0.5
DT-756	02/12/07	See location plan	6	864	99.7	20.8	82.5	86.0	22.1	BC-3	95.9	X		-1.3
DT-757	02/12/07	See location plan	6	864	100.6	18.8	84.7	86.0	22.1	BC-3	98.5	X		-3.3
DT-758	02/12/07	See location plan	6	864	100.9	19.0	84.8	86.0	22.1	BC-3	98.6	X		-3.1
DT-759	02/19/07	See location plan	6	805	100.9	20.8	83.5	86.0	22.1	BC-3	97.1	X		-1.3
DT-760	02/19/07	See location plan	6	798	101.2	20.8	83.8	86.0	22.1	BC-3	97.4	X		-1.3
DT-761	02/19/07	See location plan	6	812	99.4	18.8	83.7	86.0	22.1	BC-3	97.3	X		-3.3
DT-762	02/19/07	See location plan	6	866	99.4	20.2	82.7	86.0	22.1	BC-3	96.2	X		-1.9
DT-763	02/19/07	See location plan	6	866	100.9	18.2	85.4	86.0	22.1	BC-3	99.3	X		-3.9
DT-764	02/19/07	See location plan	6	865	101.2	21.4	83.4	86.0	22.1	BC-3	96.9	X		-0.7
DT-765	02/19/07	See location plan	6	866	103.6	18.0	87.8	86.0	22.1	BC-3	100+	X		-4.1
DT-766	02/19/07	See location plan	6	865	109.0	20.8	90.2	86.0	22.1	BC-3	100+	X		-1.3
DT-767	02/22/07	See location plan	6	790	100.0	19.4	83.8	86.0	22.1	BC-3	97.4	X		-2.7
DT-768	02/22/07	See location plan	6	800	99.1	18.8	83.4	86.0	22.1	BC-3	97.0	X		-3.3
DT-769	02/22/07	See location plan	6	806	100.9	19.5	84.4	86.0	22.1	BC-3	98.2	X		-2.6
DT-770	02/22/07	See location plan	6	806	101.5	18.7	85.5	86.0	22.1	BC-3	99.4	X		-3.4
DT-771	02/22/07	See location plan	6	800	98.8	19.2	82.9	86.0	22.1	BC-3	96.4	X		-2.9
DT-772	02/22/07	See location plan	6	790	97.9	19.5	81.9	86.0	22.1	BC-3	95.2	X		-2.6
DT-773	03/01/07	See location plan	6	791	99.4	20.2	82.7	86.0	22.1	BC-3	96.2	X		-1.9
DT-774	03/01/07	See location plan	6	791	100.9	20.6	83.7	86.0	22.1	BC-3	97.3	X		-1.5
DT-775	03/01/07	See location plan	6	795	98.2	20.2	81.7	86.0	22.1	BC-3	95.0	X		-1.9
DT-776	03/01/07	See location plan	6	795	101.8	20.9	84.2	86.0	22.1	BC-3	97.9	X		-1.2

SHIELD ENGINEERING, INC

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SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-777	03/01/07	See location plan	6	800	100.0	21.4	82.4	86.0	22.1	BC-3	95.8	X		-0.7
DT-778	03/01/07	See location plan	6	800	99.1	21.0	81.9	86.0	22.1	BC-3	95.3	X		-1.1
DT-779	03/06/07	See location plan	6	797	100.9	17.5	85.9	86.0	22.1	BC-3	99.9	X		-4.6
DT-780	03/06/07	See location plan	6	797	99.4	20.9	82.2	86.0	22.1	BC-3	95.6	X		-1.2
DT-781	03/06/07	See location plan	6	797	101.2	21.1	83.6	86.0	22.1	BC-3	97.2	X		-1.0
DT-782	03/06/07	See location plan	6	797	100.0	20.0	83.3	86.0	22.1	BC-3	96.9	X		-2.1
DT-783	03/06/07	See location plan	6	797	99.7	19.1	83.7	86.0	22.1	BC-3	97.3	X		-3.0
DT-784	03/06/07	See location plan	6	797	98.2	17.6	83.5	86.0	22.1	BC-3	97.1	X		-4.5
DT-785	03/13/07	See location plan	6	810	99.4	18.7	83.7	86.0	22.1	BC-3	97.4	X		-3.4
DT-786	03/13/07	See location plan	6	810	100.3	21.8	82.3	86.0	22.1	BC-3	95.8	X		-0.3
DT-787	03/13/07	See location plan	6	810	100.3	18.9	84.4	86.0	22.1	BC-3	98.1	X		-3.2
DT-788	03/13/07	See location plan	6	810	100.0	20.0	83.3	86.0	22.1	BC-3	96.9	X		-2.1
DT-789	03/22/07	See location plan	6	812	95.5	16.9	81.7	86.8	20.6	BC-2	94.1		X	-3.7
DT-789R	03/22/07	See location plan	6	812	99.1	17.9	84.1	86.8	20.6	BC-2	96.8	X		-2.7
DT-790	03/22/07	See location plan	6	812	106.6	18.9	89.7	86.8	20.6	BC-2	100+	X		-1.7
DT-791	03/22/07	See location plan	6	812	108.1	18.6	91.2	86.8	20.6	BC-2	100+	X		-2.0
DT-792	03/22/07	See location plan	6	812	103.0	16.6	88.3	86.8	20.6	BC-2	100+	X		-4.0
DT-793	03/28/07	See location plan	6	813	100.3	19.1	84.2	86.8	20.6	BC-2	97.0	X		-1.5
DT-794	03/28/07	See location plan	6	813	102.4	18.9	86.1	86.8	20.6	BC-2	99.2	X		-1.7
DT-795	03/28/07	See location plan	6	813	104.5	21.1	86.3	86.8	20.6	BC-2	99.4	X		0.5
DT-796	03/28/07	See location plan	6	813	103.3	19.6	86.4	86.8	20.6	BC-2	99.5	X		-1.0
DT-797	04/03/07	See location plan	6	815	102.1	21.9	83.8	86.0	22.1	BC-3	97.4	X		-0.2
DT-798	04/03/07	See location plan	6	815	101.5	18.4	85.7	86.0	22.1	BC-3	99.7	X		-3.7
DT-799	04/03/07	See location plan	6	815	102.4	21.9	84.0	86.0	22.1	BC-3	97.7	X		-0.2
DT-800	04/03/07	See location plan	6	815	100.9	21.0	83.4	86.0	22.1	BC-3	97.0	X		-1.1
DT-801	04/24/07	See location plan	6	866	102.7	20.8	85.0	86.0	22.1	BC-3	98.9	X		-1.3
DT-802	04/24/07	See location plan	6	866	101.2	21.0	83.6	86.0	22.1	BC-3	97.3	X		-1.1
DT-803	04/24/07	See location plan	6	866	102.4	18.5	86.4	86.0	22.1	BC-3	100+	X		-3.6
DT-804	04/24/07	See location plan	6	866	101.5	22.3	83.0	86.0	22.1	BC-3	96.5	X		0.2
DT-805	04/24/07	See location plan	6	866	103.6	18.2	87.6	86.0	22.1	BC-3	100+	X		-3.9
DT-806	04/24/07	See location plan	6	866	101.5	21.4	83.6	86.0	22.1	BC-3	97.2	X		-0.7
DT-807	05/05/07	See location plan	6	825	100.9	21.2	83.3	86.0	22.1	BC-3	96.8	X		-0.9
DT-808	05/05/07	See location plan	6	825	101.5	21.8	83.3	86.0	22.1	BC-3	96.9	X		-0.3
DT-809	05/05/07	See location plan	6	825	102.1	22.5	83.3	86.0	22.1	BC-3	96.9	X		0.4
DT-810	05/05/07	See location plan	6	825	102.4	20.2	85.2	86.0	22.1	BC-3	99.1	X		-1.9
DT-811	05/05/07	See location plan	6	825	103.0	20.6	85.4	86.0	22.1	BC-3	99.3	X		-1.5
DT-812	05/05/07	See location plan	6	825	99.7	21.4	82.1	86.0	22.1	BC-3	95.5	X		-0.7
DT-813	05/11/07	See location plan	6	867	98.5	20.2	81.9	86.0	22.1	BC-3	95.3	X		-1.9
DT-814	05/11/07	See location plan	6	867	99.1	20.6	82.2	86.0	22.1	BC-3	95.5	X		-1.5
DT-815	05/11/07	See location plan	6	867	99.7	20.2	82.9	86.0	22.1	BC-3	96.4	X		-1.9
DT-816	05/11/07	See location plan	6	867	100.0	20.9	82.7	86.0	22.1	BC-3	96.2	X		-1.2
DT-817	05/11/07	See location plan	6	867	101.5	21.4	83.6	86.0	22.1	BC-3	97.2	X		-0.7
DT-818	05/11/07	See location plan	6	867	100.9	21.0	83.4	86.0	22.1	BC-3	97.0	X		-1.1
DT-819	05/17/07	See location plan	6	815	102.4	23.0	83.3	86.0	22.1	BC-3	96.8	X		0.9
DT-820	05/17/07	See location plan	6	815	101.8	23.2	82.6	86.0	22.1	BC-3	96.1	X		1.1
DT-821	05/17/07	See location plan	6	815	103.9	23.0	84.5	86.0	22.1	BC-3	98.2	X		0.9
DT-822	05/17/07	See location plan	6	815	104.8	22.1	85.8	86.0	22.1	BC-3	99.8	X		0.0
DT-823	05/17/07	See location plan	6	815	103.0	23.1	83.7	86.0	22.1	BC-3	97.3	X		1.0
DT-824	05/17/07	See location plan	6	815	102.7	24.4	82.6	86.0	22.1	BC-3	96.0	X		2.3
DT-825	05/23/07	See location plan	6	866	101.8	19.3	85.3	86.0	22.1	BC-3	99.2	X		-2.8

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA YES	MEETS ACCEPTANCE COMPACTION CRITERIA NO	MOISTURE BIAS (%)
DT-826	05/23/07	See location plan	6	866	101.2	21.0	83.6	86.0	22.1	BC-3	97.3	X		-1.1
DT-827	05/23/07	See location plan	6	866	101.2	20.1	84.3	86.0	22.1	BC-3	98.0	X		-2.0
DT-828	05/23/07	See location plan	6	866	101.5	18.6	85.6	86.0	22.1	BC-3	99.5	X		-3.5
DT-829	05/23/07	See location plan	6	866	99.7	21.6	82.0	86.0	22.1	BC-3	95.3	X		-0.5
DT-830	05/23/07	See location plan	6	866	100.3	18.7	84.5	86.0	22.1	BC-3	98.3	X		-3.4
DT-831	05/31/07	See location plan	6	817	100.6	17.7	85.5	86.0	22.1	BC-3	99.4	X		-4.4
DT-832	05/31/07	See location plan	6	817	99.7	19.0	83.8	86.0	22.1	BC-3	97.4	X		-3.1
DT-833	05/31/07	See location plan	6	817	100.6	18.1	85.2	86.0	22.1	BC-3	99.0	X		-4.0
DT-834	05/31/07	See location plan	18	816	102.1	22.3	83.5	86.0	22.1	BC-3	97.1	X		0.2
DT-835	05/31/07	See location plan	18	816	102.4	23.4	83.0	86.0	22.1	BC-3	96.5	X		1.3
DT-836	05/31/07	See location plan	18	816	101.5	20.6	84.2	86.0	22.1	BC-3	97.9	X		-1.5
DT-837	06/06/07	See location plan	6	817	102.4	18.0	86.8	86.8	20.6	BC-2	99.9	X		-2.6
DT-838	06/06/07	See location plan	6	817	101.2	18.6	85.3	86.8	20.6	BC-2	98.3	X		-2.0
DT-839	06/06/07	See location plan	6	817	102.1	18.4	86.2	86.8	20.6	BC-2	99.4	X		-2.2
DT-840	06/06/07	See location plan	6	817	100.3	18.2	84.9	86.8	20.6	BC-2	97.7	X		-2.4
DT-841	06/06/07	See location plan	6	817	101.5	18.8	85.4	86.8	20.6	BC-2	98.4	X		-1.8
DT-842	06/06/07	See location plan	6	817	101.2	18.4	85.5	86.8	20.6	BC-2	98.5	X		-2.2
DT-843	06/13/07	See location plan	6	818	102.1	18.3	86.3	86.8	20.6	BC-2	99.4	X		-2.3
DT-844	06/13/07	See location plan	6	818	101.8	18.2	86.1	86.8	20.6	BC-2	99.3	X		-2.4
DT-845	06/13/07	See location plan	6	818	100.6	18.6	84.8	86.8	20.6	BC-2	97.7	X		-2.0
DT-846	06/13/07	See location plan	6	818	101.5	17.9	86.1	86.8	20.6	BC-2	99.2	X		-2.7
DT-847	06/13/07	See location plan	6	818	102.1	20.5	84.7	86.8	20.6	BC-2	97.6	X		-0.1
DT-848	06/13/07	See location plan	6	818	102.7	18.5	86.7	86.8	20.6	BC-2	99.8	X		-2.1
DT-849	06/20/07	See location plan	6	819	100.9	19.4	84.5	86.8	20.6	BC-2	97.4	X		-1.2
DT-850	06/20/07	See location plan	6	819	101.5	18.0	86.0	86.8	20.6	BC-2	99.1	X		-2.6
DT-851	06/20/07	See location plan	6	819	101.2	20.3	84.1	86.8	20.6	BC-2	96.9	X		-0.3
DT-852	06/20/07	See location plan	6	819	101.8	19.3	85.3	86.8	20.6	BC-2	98.3	X		-1.3
DT-853	06/20/07	See location plan	6	819	101.2	20.6	83.9	86.8	20.6	BC-2	96.7	X		0.0
DT-854	06/20/07	See location plan	6	819	102.1	19.6	85.4	86.8	20.6	BC-2	98.4	X		-1.0
DT-855	06/28/07	See location plan	6	820	100.6	20.7	83.3	86.8	20.6	BC-2	96.0	X		0.1
DT-856	06/28/07	See location plan	6	820	99.7	20.6	82.7	86.8	20.6	BC-2	95.3	X		0.0
DT-857	06/28/07	See location plan	6	820	99.1	17.5	84.3	86.8	20.6	BC-2	97.2	X		-3.1
DT-858	06/28/07	See location plan	6	820	101.5	19.3	85.1	86.8	20.6	BC-2	98.0	X		-1.3
DT-859	06/28/07	See location plan	6	820	99.4	20.6	82.4	86.8	20.6	BC-2	95.0	X		0.0
DT-860	06/28/07	See location plan	6	820	99.7	19.6	83.4	86.8	20.6	BC-2	96.1	X		-1.0
DT-861	07/05/07	See location plan	6	820	103.9	20.7	86.1	86.8	20.6	BC-2	99.2	X		0.1
DT-862	07/05/07	See location plan	6	820	102.7	21.4	84.6	86.8	20.6	BC-2	97.5	X		0.8
DT-863	07/05/07	See location plan	6	820	101.5	20.9	84.0	86.8	20.6	BC-2	96.7	X		0.3
DT-864	07/05/07	See location plan	6	820	101.5	19.9	84.7	86.8	20.6	BC-2	97.5	X		-0.7
DT-865	07/05/07	See location plan	6	820	102.1	22.0	83.7	86.8	20.6	BC-2	96.4	X		1.4
DT-866	07/05/07	See location plan	6	820	101.5	19.6	84.9	86.8	20.6	BC-2	97.8	X		-1.0
DT-867	07/12/07	See location plan	6	821	100.6	18.3	85.0	86.8	20.6	BC-2	97.9	X		-2.3
DT-868	07/12/07	See location plan	6	821	102.1	21.5	84.0	86.8	20.6	BC-2	96.8	X		0.9
DT-869	07/12/07	See location plan	6	821	101.5	22.3	83.0	86.8	20.6	BC-2	95.6	X		1.7
DT-870	07/12/07	See location plan	6	821	101.5	21.4	83.6	86.8	20.6	BC-2	96.3	X		0.8
DT-871	07/12/07	See location plan	6	821	99.7	20.6	82.7	86.8	20.6	BC-2	95.2	X		0.0
DT-872	07/12/07	See location plan	6	821	99.7	18.5	84.1	86.8	20.6	BC-2	96.9	X		-2.1
DT-873	07/18/07	See location plan	6	822	100.6	18.3	85.0	86.8	20.6	BC-2	98.0	X		-2.3
DT-874	07/18/07	See location plan	6	822	102.1	21.5	84.0	86.8	20.6	BC-2	96.8	X		0.9
DT-875	07/18/07	See location plan	6	822	101.5	22.3	83.0	86.8	20.6	BC-2	95.6	X		1.7

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-876	07/18/07	See location plan	6	822	101.5	21.4	83.6	86.8	20.6	BC-2	96.3	X		0.8
DT-877	07/18/07	See location plan	6	822	99.7	20.6	82.7	86.8	20.6	BC-2	95.2	X		0.0
DT-878	07/18/07	See location plan	6	822	99.7	18.5	84.1	86.8	20.6	BC-2	96.9	X		-2.1
DT-879	07/25/07	See location plan	6	823	102.1	18.3	86.3	86.8	20.6	BC-2	99.4	X		-2.3
DT-880	07/25/07	See location plan	6	823	101.8	18.2	86.1	86.8	20.6	BC-2	99.3	X		-2.4
DT-881	07/25/07	See location plan	6	823	100.6	18.6	84.8	86.8	20.6	BC-2	97.7	X		-2.0
DT-882	07/25/07	See location plan	6	823	101.5	17.9	86.1	86.8	20.6	BC-2	99.2	X		-2.7
DT-883	07/25/07	See location plan	6	823	102.1	20.5	84.7	86.8	20.6	BC-2	97.6	X		-0.1
DT-884	07/25/07	See location plan	6	823	102.7	18.5	86.7	86.8	20.6	BC-2	99.8	X		-2.1
DT-885	08/02/07	See location plan	6	825	101.2	18.4	85.5	86.0	22.1	BC-3	99.4	X		-3.7
DT-886	08/02/07	See location plan	6	825	102.4	19.6	85.6	86.0	22.1	BC-3	99.6	X		-2.5
DT-887	08/02/07	See location plan	6	825	102.1	18.8	85.9	86.0	22.1	BC-3	99.9	X		-3.3
DT-888	08/02/07	See location plan	6	825	101.5	18.6	85.6	86.0	22.1	BC-3	99.5	X		-3.5
DT-889	08/02/07	See location plan	6	825	101.8	20.3	84.6	86.0	22.1	BC-3	98.4	X		-1.8
DT-890	08/02/07	See location plan	6	825	101.5	20.2	84.4	86.0	22.1	BC-3	98.2	X		-1.9
DT-891	08/09/07	See location plan	6	827	101.2	19.2	84.9	86.0	22.1	BC-3	98.7	X		-2.9
DT-892	08/09/07	See location plan	6	827	100.3	20.7	83.1	86.0	22.1	BC-3	96.6	X		-1.4
DT-893	08/09/07	See location plan	6	827	100.0	19.6	83.6	86.0	22.1	BC-3	97.3	X		-2.5
DT-894	08/09/07	See location plan	6	827	99.4	19.3	83.3	86.0	22.1	BC-3	96.9	X		-2.8
DT-895	08/09/07	See location plan	6	827	100.9	20.9	83.5	86.0	22.1	BC-3	97.0	X		-1.2
DT-896	08/09/07	See location plan	6	827	99.4	20.6	82.4	86.0	22.1	BC-3	95.9	X		-1.5
DT-897	08/17/07	See location plan	6	828	102.1	19.4	85.5	86.8	20.6	BC-2	98.5	X		-1.2
DT-898	08/17/07	See location plan	6	828	102.7	20.8	85.0	86.8	20.6	BC-2	98.0	X		0.2
DT-899	08/17/07	See location plan	6	828	102.4	19.7	85.5	86.8	20.6	BC-2	98.5	X		-0.9
DT-900	08/17/07	See location plan	6	828	101.2	19.6	84.6	86.8	20.6	BC-2	97.5	X		-1.0
DT-901	08/17/07	See location plan	6	828	102.7	20.3	85.4	86.8	20.6	BC-2	98.4	X		-0.3
DT-902	08/17/07	See location plan	6	828	102.4	19.4	85.8	86.8	20.6	BC-2	98.8	X		-1.2
DT-903	08/22/07	See location plan	6	830	100.9	20.0	84.1	86.0	22.1	BC-3	97.8	X		-2.1
DT-904	08/22/07	See location plan	6	830	98.8	19.8	82.5	86.0	22.1	BC-3	95.9	X		-2.3
DT-905	08/22/07	See location plan	6	830	102.1	19.5	85.4	86.0	22.1	BC-3	99.3	X		-2.6
DT-906	08/22/07	See location plan	6	830	97.3	18.4	82.2	86.0	22.1	BC-3	95.6	X		-3.7
DT-907	08/22/07	See location plan	6	830	102.4	20.6	84.9	86.0	22.1	BC-3	98.7	X		-1.5
DT-908	08/22/07	See location plan	6	830	100.9	20.3	83.9	86.0	22.1	BC-3	97.5	X		-1.8
DT-909	08/29/07	See location plan	6	832	98.2	20.1	81.8	86.0	22.1	BC-3	95.1	X		-2.0
DT-910	08/29/07	See location plan	6	832	98.8	20.9	81.7	86.0	22.1	BC-3	95.1	X		-1.2
DT-911	08/29/07	See location plan	6	832	98.5	20.3	81.9	86.0	22.1	BC-3	95.2	X		-1.8
DT-912	08/29/07	See location plan	6	832	98.5	19.6	82.4	86.0	22.1	BC-3	95.8	X		-2.5
DT-913	08/29/07	See location plan	6	832	99.1	20.3	82.4	86.0	22.1	BC-3	95.8	X		-1.8
DT-914	08/29/07	See location plan	6	832	99.1	20.2	82.4	86.0	22.1	BC-3	95.9	X		-1.9
DT-915	09/05/07	See location plan	6	834	100.3	17.0	85.7	86.0	22.1	BC-3	99.7	X		-5.1
DT-916	09/05/07	See location plan	6	834	97.0	17.5	82.6	86.0	22.1	BC-3	96.0	X		-4.6
DT-917	09/05/07	See location plan	6	834	99.4	17.1	84.9	86.0	22.1	BC-3	98.7	X		-5.0
DT-918	09/05/07	See location plan	6	834	98.2	18.5	82.9	86.0	22.1	BC-3	96.3	X		-3.6
DT-919	09/05/07	See location plan	6	834	100.0	18.8	84.2	86.0	22.1	BC-3	97.8	X		-3.3
DT-920	09/05/07	See location plan	6	834	99.4	18.7	83.7	86.0	22.1	BC-3	97.4	X		-3.4
DT-921	09/12/07	See location plan	6	836	99.4	18.6	83.8	86.0	22.1	BC-3	97.5	X		-3.5
DT-922	09/12/07	See location plan	6	836	99.7	19.3	83.6	86.0	22.1	BC-3	97.2	X		-2.8
DT-923	09/12/07	See location plan	6	836	99.1	19.9	82.7	86.0	22.1	BC-3	96.1	X		-2.2
DT-924	09/12/07	See location plan	6	836	99.7	18.4	84.2	86.0	22.1	BC-3	97.9	X		-3.7
DT-925	09/12/07	See location plan	6	836	98.5	18.1	83.4	86.0	22.1	BC-3	97.0	X		-4.0

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TABLE 1
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TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-926	09/12/07	See location plan	6	836	98.2	19.0	82.5	86.0	22.1	BC-3	96.0	X		-3.1
DT-927	09/18/07	See location plan	6	838	96.7	17.4	82.4	86.0	22.1	BC-3	95.7	X		-4.7
DT-928	09/18/07	See location plan	6	838	98.8	18.0	83.7	86.0	22.1	BC-3	97.4	X		-4.1
DT-929	09/18/07	See location plan	6	838	100.9	19.6	84.4	86.0	22.1	BC-3	98.1	X		-2.5
DT-930	09/18/07	See location plan	6	838	99.7	19.2	83.6	86.0	22.1	BC-3	97.3	X		-2.9
DT-931	09/18/07	See location plan	6	838	98.2	18.1	83.1	86.0	22.1	BC-3	96.7	X		-4.0
DT-932	09/18/07	See location plan	6	838	100.3	18.5	84.6	86.0	22.1	BC-3	98.4	X		-3.6
DT-933	09/24/07	See location plan	6	840	98.8	18.0	83.7	86.0	22.1	BC-3	97.4	X		-4.1
DT-934	09/24/07	See location plan	6	840	99.4	16.3	85.5	86.0	22.1	BC-3	99.4	X		-5.8
DT-935	09/24/07	See location plan	6	840	100.3	17.8	85.1	86.0	22.1	BC-3	99.0	X		-4.3
DT-936	09/24/07	See location plan	6	840	97.9	18.8	82.4	86.0	22.1	BC-3	95.8	X		-3.3
DT-937	09/24/07	See location plan	6	840	100.6	17.8	85.4	86.0	22.1	BC-3	99.3	X		-4.3
DT-938	09/24/07	See location plan	6	840	98.2	17.0	83.9	86.0	22.1	BC-3	97.6	X		-5.1
DT-939	10/01/07	See location plan	6	843	101.5	16.2	87.3	86.0	22.1	BC-3	100+	X		-5.9
DT-940	10/01/07	See location plan	6	843	96.1	16.5	82.5	86.0	22.1	BC-3	95.9	X		-5.6
DT-941	10/01/07	See location plan	6	843	100.9	18.5	85.1	86.0	22.1	BC-3	99.0	X		-3.6
DT-942	10/01/07	See location plan	6	843	95.5	13.2	84.4	86.0	22.1	BC-3	98.1	X		-8.9
DT-943	10/01/07	See location plan	6	843	96.1	16.0	82.8	86.0	22.1	BC-3	96.4	X		-6.1
DT-944	10/01/07	See location plan	6	843	97.3	15.3	84.4	86.0	22.1	BC-3	98.2	X		-6.8
DT-945	10/09/07	See location plan	6	845	98.5	17.7	83.7	86.0	22.1	BC-3	97.3	X		-4.4
DT-946	10/09/07	See location plan	6	845	97.3	17.1	83.1	86.0	22.1	BC-3	96.6	X		-5.0
DT-947	10/09/07	See location plan	6	845	98.2	18.6	82.8	86.0	22.1	BC-3	96.3	X		-3.5
DT-948	10/09/07	See location plan	6	845	100.3	18.1	84.9	86.0	22.1	BC-3	98.8	X		-4.0
DT-949	10/09/07	See location plan	6	845	97.9	18.5	82.6	86.0	22.1	BC-3	96.1	X		-3.6
DT-950	10/09/07	See location plan	6	845	98.5	16.4	84.6	86.0	22.1	BC-3	98.4	X		-5.7
DT-951	10/16/07	See location plan	6	846	97.3	15.7	84.1	86.0	22.1	BC-3	97.8	X		-6.4
DT-952	10/16/07	See location plan	6	846	98.8	18.4	83.4	86.0	22.1	BC-3	97.0	X		-3.7
DT-953	10/16/07	See location plan	6	846	97.6	16.1	84.1	86.0	22.1	BC-3	97.7	X		-6.0
DT-954	10/16/07	See location plan	6	846	99.1	17.5	84.3	86.0	22.1	BC-3	98.1	X		-4.6
DT-955	10/16/07	See location plan	6	846	97.0	18.3	82.0	86.0	22.1	BC-3	95.4	X		-3.8
DT-956	10/16/07	See location plan	6	846	97.9	19.1	82.2	86.0	22.1	BC-3	95.6	X		-3.0
DT-957	10/23/07	See location plan	6	847	97.6	17.9	82.8	86.0	22.1	BC-3	96.2	X		-4.2
DT-958	10/23/07	See location plan	6	847	93.1	18.1	78.8	86.0	22.1	BC-3	91.7		X	-4.0
DT-958R	11/02/07	See location plan	6	847	96.7	17.8	82.1	86.0	22.1	BC-3	95.5	X		-4.3
DT-959	10/23/07	See location plan	6	847	91.9	17.6	78.1	86.0	22.1	BC-3	90.9		X	-4.5
DT-959R	11/02/07	See location plan	6	847	97.3	16.5	83.5	86.0	22.1	BC-3	97.1	X		-5.6
DT-960	10/23/07	See location plan	6	847	98.5	18.1	83.4	86.0	22.1	BC-3	97.0	X		-4.0
DT-961	10/23/07	See location plan	6	847	97.3	18.2	82.3	86.0	22.1	BC-3	95.7	X		-3.9
DT-962	10/23/07	See location plan	6	847	97.6	18.0	82.7	86.0	22.1	BC-3	96.2	X		-4.1
DT-963	11/02/07	See location plan	6	847	98.5	18.0	83.5	86.0	22.1	BC-3	97.1	X		-4.1
DT-964	11/02/07	See location plan	6	847	95.8	16.3	82.4	86.0	22.1	BC-3	95.8	X		-5.8
DT-965	11/02/07	See location plan	6	847	98.2	17.8	83.4	86.0	22.1	BC-3	96.9	X		-4.3
DT-966	11/02/07	See location plan	6	847	97.6	18.8	82.2	86.0	22.1	BC-3	95.5	X		-3.3
DT-967	11/02/07	See location plan	6	847	96.4	17.8	81.8	86.0	22.1	BC-3	95.2	X		-4.3
DT-968	11/02/07	See location plan	6	847	97.9	17.0	83.7	86.0	22.1	BC-3	97.3	X		-5.1
DT-969	11/08/07	See location plan	6	848	96.1	18.6	81.0	84.9	21.1	BC-1	95.5	X		-2.5
DT-970	11/08/07	See location plan	6	848	97.3	17.0	83.2	84.9	21.1	BC-1	98.0	X		-4.1
DT-971	11/08/07	See location plan	6	848	97.3	17.0	83.2	84.9	21.1	BC-1	98.0	X		-4.1
DT-972	11/08/07	See location plan	6	848	98.5	13.4	86.9	84.9	21.1	BC-1	100+	X		-7.7
DT-973	11/08/07	See location plan	6	848	96.4	19.3	80.8	84.9	21.1	BC-1	95.2	X		-1.8

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-974	11/08/07	See location plan	6	848	96.1	15.3	83.3	84.9	21.1	BC-1	98.2	X		-5.8
DT-975	11/14/07	See location plan	6	848	93.1	14.2	81.5	84.9	21.1	BC-1	96.0	X		-6.9
DT-976	11/14/07	See location plan	6	848	94.9	17.4	80.8	84.9	21.1	BC-1	95.2	X		-3.7
DT-977	11/14/07	See location plan	6	848	94.9	16.7	81.3	84.9	21.1	BC-1	95.8	X		-4.4
DT-978	11/14/07	See location plan	6	848	97.0	16.7	83.1	84.9	21.1	BC-1	97.9	X		-4.4
DT-979	11/14/07	See location plan	6	848	93.7	14.3	82.0	84.9	21.1	BC-1	96.6	X		-6.8
DT-980	11/14/07	See location plan	6	848	100.0	17.8	84.9	84.9	21.1	BC-1	100.0	X		-3.3
DT-981	11/21/07	See location plan	6	849	100.0	20.6	82.9	84.9	21.1	BC-1	97.7	X		-0.5
DT-982	11/21/07	See location plan	6	849	92.5	17.1	79.0	84.9	21.1	BC-1	93.1		X	-4.0
DT-982R	11/21/07	See location plan	6	849	99.4	18.9	83.6	84.9	21.1	BC-1	98.5	X		-2.2
DT-983	11/21/07	See location plan	6	849	91.9	16.4	78.9	84.9	21.1	BC-1	93.0		X	-4.7
DT-983R	11/21/07	See location plan	6	849	98.4	17.7	83.6	84.9	21.1	BC-1	98.5	X		-3.4
DT-984	11/21/07	See location plan	6	849	94.3	16.3	81.1	84.9	21.1	BC-1	95.5	X		-4.8
DT-985	11/21/07	See location plan	6	849	97.9	18.2	82.8	84.9	21.1	BC-1	97.6	X		-2.9
DT-986	11/21/07	See location plan	6	849	96.7	18.9	81.3	84.9	21.1	BC-1	95.8	X		-2.2
DT-987	11/27/07	See location plan	6	850	98.5	18.1	83.4	84.9	21.1	BC-1	98.2	X		-3.0
DT-988	11/27/07	See location plan	6	850	96.4	18.4	81.4	84.9	21.1	BC-1	95.9	X		-2.7
DT-989	11/27/07	See location plan	6	850	96.7	17.7	82.2	84.9	21.1	BC-1	96.7	X		-3.4
DT-990	11/27/07	See location plan	6	850	97.3	19.0	81.8	84.9	21.1	BC-1	96.3	X		-2.1
DT-991	11/27/07	See location plan	6	850	96.7	18.7	81.5	84.9	21.1	BC-1	95.9	X		-2.4
DT-992	11/27/07	See location plan	6	850	97.6	17.8	82.9	84.9	21.1	BC-1	97.6	X		-3.3
DT-993	12/04/07	See location plan	6	851	100.3	17.7	85.2	84.9	21.1	BC-1	100+	X		-3.4
DT-994	12/04/07	See location plan	6	851	97.0	17.4	82.6	84.9	21.1	BC-1	97.4	X		-3.7
DT-995	12/04/07	See location plan	6	851	99.4	17.9	84.3	84.9	21.1	BC-1	99.3	X		-3.2
DT-996	12/04/07	See location plan	6	851	98.2	18.5	82.9	84.9	21.1	BC-1	97.6	X		-2.6
DT-997	12/04/07	See location plan	6	851	100.0	19.0	84.0	84.9	21.1	BC-1	99.0	X		-2.1
DT-998	12/04/07	See location plan	6	851	99.4	18.7	83.7	84.9	21.1	BC-1	98.6	X		-2.4
DT-999	12/12/07	See location plan	6	851	98.5	18.0	83.5	84.9	21.1	BC-1	98.3	X		-3.1
DT-1000	12/12/07	See location plan	6	851	95.8	16.3	82.4	84.9	21.1	BC-1	97.0	X		-4.8
DT-1001	12/12/07	See location plan	6	851	98.2	17.8	83.4	84.9	21.1	BC-1	98.2	X		-3.3
DT-1002	12/12/07	See location plan	6	851	97.6	18.8	82.2	84.9	21.1	BC-1	96.8	X		-2.3
DT-1003	12/12/07	See location plan	6	851	96.4	17.8	81.8	84.9	21.1	BC-1	96.4	X		-3.3
DT-1004	12/12/07	See location plan	6	851	97.9	17.0	83.7	84.9	21.1	BC-1	98.5	X		-4.1
DT-1005	01/09/08	See location plan	6	852	99.7	22.0	81.7	84.9	21.1	BC-1	96.3	X		0.9
DT-1006	01/09/08	See location plan	6	852	101.5	23.6	82.1	84.9	21.1	BC-1	96.7	X		2.5
DT-1007	01/09/08	See location plan	6	852	99.4	20.5	82.5	84.9	21.1	BC-1	97.1	X		-0.6
DT-1008	01/09/08	See location plan	6	852	100.6	22.0	82.5	84.9	21.1	BC-1	97.1	X		0.9
DT-1009	01/09/08	See location plan	6	852	100.9	22.3	82.5	84.9	21.1	BC-1	97.2	X		1.2
DT-1010	01/09/08	See location plan	6	852	101.8	23.6	82.4	84.9	21.1	BC-1	97.0	X		2.5
DT-1011	01/16/08	See location plan	6	853	100.0	22.2	81.8	86.0	22.1	BC-3	95.1	X		0.1
DT-1012	01/16/08	See location plan	6	853	102.1	24.4	82.1	86.0	22.1	BC-3	95.4	X		2.3
DT-1013	01/16/08	See location plan	6	853	102.7	23.6	83.1	86.0	22.1	BC-3	96.6	X		1.5
DT-1014	01/16/08	See location plan	6	853	100.9	21.4	83.1	86.0	22.1	BC-3	96.7	X		-0.7
DT-1015	01/16/08	See location plan	6	853	100.3	21.2	82.8	86.0	22.1	BC-3	96.2	X		-0.9
DT-1016	01/16/08	See location plan	6	853	102.4	20.4	85.0	86.0	22.1	BC-3	98.9	X		-1.7
DT-1017	01/25/08	See location plan	6	854	99.4	21.5	81.8	86.0	22.1	BC-3	95.1	X		-0.6
DT-1018	01/25/08	See location plan	6	854	97.9	19.8	81.7	86.0	22.1	BC-3	95.0	X		-2.3
DT-1019	01/25/08	See location plan	6	854	100.0	21.2	82.5	86.0	22.1	BC-3	95.9	X		-0.9
DT-1020	01/25/08	See location plan	6	854	102.1	23.1	82.9	86.0	22.1	BC-3	96.4	X		1.0
DT-1021	01/25/08	See location plan	6	854	100.9	21.5	83.0	86.0	22.1	BC-3	96.6	X		-0.6

SHIELD ENGINEERING, INC

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SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1022	01/25/08	See location plan	6	854	101.2	18.9	85.1	86.0	22.1	BC-3	99.0	X		-3.2
DT-1023	01/30/08	See location plan	6	855	102.4	22.8	83.4	86.0	22.1	BC-3	97.0	X		0.7
DT-1024	01/30/08	See location plan	6	855	99.7	20.8	82.5	86.0	22.1	BC-3	96.0	X		-1.3
DT-1025	01/30/08	See location plan	6	855	100.9	23.1	82.0	86.0	22.1	BC-3	95.3	X		1.0
DT-1026	01/30/08	See location plan	6	855	103.9	26.0	82.5	86.0	22.1	BC-3	95.9	X		3.9
DT-1027	01/30/08	See location plan	6	855	102.1	24.5	82.0	86.0	22.1	BC-3	95.3	X		2.4
DT-1028	01/30/08	See location plan	6	855	99.4	18.6	83.8	86.0	22.1	BC-3	97.5	X		-3.5
DT-1029	02/08/08	See location plan	6	865	96.4	20.1	80.3	82.4	23.2	BC-4	97.4	X		-3.1
DT-1030	02/08/08	See location plan	6	865	97.6	20.0	81.3	82.4	23.2	BC-4	98.7	X		-3.2
DT-1031	02/08/08	See location plan	6	865	97.3	19.7	81.3	82.4	23.2	BC-4	98.6	X		-3.5
DT-1032	02/08/08	See location plan	6	865	96.4	18.1	81.6	82.4	23.2	BC-4	99.1	X		-5.1
DT-1033	02/08/08	See location plan	6	865	97.9	19.6	81.9	82.4	23.2	BC-4	99.4	X		-3.6
DT-1034	02/08/08	See location plan	6	865	97.6	20.9	80.7	82.4	23.2	BC-4	97.9	X		-2.3
DT-1035	02/12/08	See location plan	6	858	96.4	19.0	81.0	82.4	23.2	BC-4	98.3	X		-4.2
DT-1036	02/12/08	See location plan	6	858	97.3	19.4	81.5	82.4	23.2	BC-4	98.9	X		-3.8
DT-1037	02/12/08	See location plan	6	858	96.7	20.6	80.2	82.4	23.2	BC-4	97.3	X		-2.6
DT-1038	02/12/08	See location plan	6	858	98.2	20.2	81.7	82.4	23.2	BC-4	99.1	X		-3.0
DT-1039	02/12/08	See location plan	6	858	96.7	20.2	80.4	82.4	23.2	BC-4	97.6	X		-3.0
DT-1040	02/12/08	See location plan	6	858	97.6	20.4	81.1	82.4	23.2	BC-4	98.4	X		-2.8
DT-1041	02/20/08	See location plan	6	860	91.0	20.1	75.8	82.4	23.2	BC-4	91.9		X	-3.1
DT-1042	02/20/08	See location plan	6	860	91.0	16.9	77.8	82.4	23.2	BC-4	94.5		X	-6.3
DT-1043	02/20/08	See location plan	6	860	93.4	20.6	77.4	82.4	23.2	BC-4	93.9		X	-2.6
DT-1044	02/20/08	See location plan	6	860	92.8	18.7	78.2	82.4	23.2	BC-4	94.9		X	-4.5
DT-1045	02/20/08	See location plan	6	860	94.6	20.9	78.2	82.4	23.2	BC-4	94.9		X	-2.3
DT-1046	02/20/08	See location plan	6	860	95.2	21.1	78.6	82.4	23.2	BC-4	95.4	X		-2.1
DT-1047	02/28/08	See location plan	6	861	92.8	20.9	76.7	82.4	23.2	BC-4	93.1		X	-2.3
DT-1048	02/28/08	See location plan	6	861	92.2	22.1	75.5	82.4	23.2	BC-4	91.6		X	-1.1
DT-1049	02/28/08	See location plan	6	861	98.2	23.7	79.4	82.4	23.2	BC-4	96.3	X		0.5
DT-1050	02/28/08	See location plan	6	861	98.2	22.9	79.9	82.4	23.2	BC-4	97.0	X		-0.3
DT-1051	02/28/08	See location plan	6	861	95.2	21.2	78.5	82.4	23.2	BC-4	95.3	X		-2.0
DT-1052	02/28/08	See location plan	6	861	99.4	24.4	79.9	82.4	23.2	BC-4	97.0	X		1.2
DT-1053	03/05/08	See location plan	6	863	104.2	20.9	86.2	82.4	23.2	BC-4	100+	X		-2.3
DT-1054	03/05/08	See location plan	6	863	106.0	20.7	87.8	82.4	23.2	BC-4	100+	X		-2.5
DT-1055	03/05/08	See location plan	6	863	92.8	19.4	77.7	82.4	23.2	BC-4	94.4		X	-3.8
DT-1056	03/05/08	See location plan	6	863	92.8	19.2	77.8	82.4	23.2	BC-4	94.4		X	-4.0
DT-1057	03/05/08	See location plan	6	863	92.8	21.8	76.2	82.4	23.2	BC-4	92.5		X	-1.4
DT-1058	03/05/08	See location plan	6	863	98.2	21.2	81.0	82.4	23.2	BC-4	98.3	X		-2.0
DT-1059	03/12/08	See location plan	6	863	95.5	21.6	78.5	82.4	23.2	BC-4	95.3	X		-1.6
DT-1060	03/12/08	See location plan	6	863	96.1	20.2	80.0	82.4	23.2	BC-4	97.0	X		-3.0
DT-1061	03/12/08	See location plan	6	863	96.1	22.5	78.4	82.4	23.2	BC-4	95.2	X		-0.7
DT-1062	03/12/08	See location plan	6	863	97.6	22.0	80.0	82.4	23.2	BC-4	97.1	X		-1.2
DT-1063	03/12/08	See location plan	6	863	94.6	20.8	78.3	82.4	23.2	BC-4	95.0	X		-2.4
DT-1064	03/12/08	See location plan	6	863	91.9	16.9	78.6	82.4	23.2	BC-4	95.4	X		-6.3
DT-1065	03/19/08	See location plan	6	864	98.8	22.0	81.0	82.4	23.2	BC-4	98.3	X		-1.2
DT-1066	03/19/08	See location plan	6	864	99.1	23.6	80.2	82.4	23.2	BC-4	97.3	X		0.4
DT-1067	03/19/08	See location plan	6	864	97.6	20.5	81.0	82.4	23.2	BC-4	98.3	X		-2.7
DT-1068	03/19/08	See location plan	6	864	97.9	22.0	80.2	82.4	23.2	BC-4	97.4	X		-1.2
DT-1069	03/19/08	See location plan	6	864	98.5	22.3	80.5	82.4	23.2	BC-4	97.7	X		-0.9
DT-1070	03/19/08	See location plan	6	864	98.8	23.6	79.9	82.4	23.2	BC-4	97.0	X		0.4
DT-1071	03/26/08	See location plan	6	865	96.1	22.3	78.6	82.4	23.2	BC-4	95.3	X		-0.9

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1072	03/26/08	See location plan	6	865	92.5	17.7	78.6	82.4	23.2	BC-4	95.4	X		-5.5
DT-1073	03/26/08	See location plan	6	865	97.3	23.1	79.0	82.4	23.2	BC-4	95.9	X		-0.1
DT-1074	03/26/08	See location plan	6	865	97.3	20.7	80.6	82.4	23.2	BC-4	97.8	X		-2.5
DT-1075	03/26/08	See location plan	6	865	100.0	21.9	82.0	82.4	23.2	BC-4	99.5	X		-1.3
DT-1076	03/26/08	See location plan	6	865	97.3	23.0	79.1	82.4	23.2	BC-4	96.0	X		-0.2
DT-1077	04/03/08	See location plan	6	865	85.9	17.5	73.1	82.4	23.2	BC-4	88.7		X	-5.7
DT-1077R	04/09/08	See location plan	6	865	94.0	15.7	81.2	82.4	23.2	BC-4	98.6	X		-7.5
DT-1078	04/03/08	See location plan	6	865	87.4	17.8	74.2	82.4	23.2	BC-4	90.0		X	-5.4
DT-1078R	04/09/08	See location plan	6	865	95.8	16.6	82.2	82.4	23.2	BC-4	99.7	X		-6.6
DT-1079	04/03/08	See location plan	6	865	89.8	20.4	74.6	82.4	23.2	BC-4	90.5		X	-2.8
DT-1079R	04/09/08	See location plan	6	865	94.9	16.7	81.3	82.4	23.2	BC-4	98.7	X		-6.5
DT-1080	04/03/08	See location plan	6	865	91.6	16.1	78.9	82.4	23.2	BC-4	95.7	X		-7.1
DT-1081	04/03/08	See location plan	6	865	88.9	17.6	75.6	82.4	23.2	BC-4	91.8		X	-5.6
DT-1081R	04/09/08	See location plan	6	865	94.3	15.5	81.6	82.4	23.2	BC-4	99.1	X		-7.7
DT-1082	04/03/08	See location plan	6	865	92.8	18.1	78.6	82.4	23.2	BC-4	95.3	X		-5.1
DT-1083	04/23/08	See location plan	6	870	98.5	19.8	82.2	82.4	23.2	BC-4	99.7	X		-3.4
DT-1084	04/23/08	See location plan	6	870	97.6	19.6	81.6	82.4	23.2	BC-4	99.0	X		-3.6
DT-1085	04/23/08	See location plan	6	870	97.9	20.1	81.5	82.4	23.2	BC-4	98.9	X		-3.1
DT-1086	04/23/08	See location plan	6	870	97.0	20.2	80.7	82.4	23.2	BC-4	98.0	X		-3.0
DT-1087	04/23/08	See location plan	6	870	99.1	18.3	83.8	82.4	23.2	BC-4	100+	X		-4.9
DT-1088	04/23/08	See location plan	6	870	99.4	19.9	82.9	82.4	23.2	BC-4	100+	X		-3.3
DT-1089	06/05/08	See location plan	6	866	95.8	16.3	82.4	83.0	22.6	BC-7	99.3	X		-6.3
DT-1090	06/05/08	See location plan	6	866	93.4	14.4	81.6	83.0	22.6	BC-7	98.4	X		-8.2
DT-1091	06/05/08	See location plan	6	866	99.4	16.9	85.0	83.0	22.6	BC-7	100+	X		-5.7
DT-1092	06/05/08	See location plan	6	866	101.8	16.1	87.7	83.0	22.6	BC-7	100+	X		-6.5
DT-1093	06/05/08	See location plan	6	866	95.5	15.4	82.8	83.0	22.6	BC-7	99.7	X		-7.2
DT-1094	06/05/08	See location plan	6	866	91.3	14.2	79.9	83.0	22.6	BC-7	96.3	X		-8.4
DT-1095	06/12/08	See location plan	6	845	97.6	20.0	81.3	83.0	22.6	BC-7	98.0	X		-2.6
DT-1096	06/12/08	See location plan	6	845	96.7	18.2	81.8	83.0	22.6	BC-7	98.5	X		-4.4
DT-1097	06/12/08	See location plan	6	845	95.8	17.4	81.6	83.0	22.6	BC-7	98.3	X		-5.2
DT-1098	06/12/08	See location plan	6	845	95.2	18.9	80.1	83.0	22.6	BC-7	96.5	X		-3.7
DT-1099	06/12/08	See location plan	6	845	95.5	19.4	80.0	83.0	22.6	BC-7	96.4	X		-3.2
DT-1100	06/12/08	See location plan	6	845	96.7	20.0	80.6	83.0	22.6	BC-7	97.1	X		-2.6
DT-1101	06/18/08	See location plan	6	867	91.3	13.7	80.3	83.0	22.6	BC-7	96.8	X		-8.9
DT-1102	06/18/08	See location plan	6	867	92.2	14.2	80.7	83.0	22.6	BC-7	97.3	X		-8.4
DT-1103	06/18/08	See location plan	6	867	89.2	12.6	79.2	83.0	22.6	BC-7	95.4	X		-10.0
DT-1104	06/18/08	See location plan	6	867	89.2	12.7	79.1	83.0	22.6	BC-7	95.3	X		-9.9
DT-1105	06/18/08	See location plan	6	867	92.2	13.0	81.6	83.0	22.6	BC-7	98.3	X		-9.6
DT-1106	06/18/08	See location plan	6	867	91.3	12.9	80.9	83.0	22.6	BC-7	97.4	X		-9.7
DT-1107	06/25/08	See location plan	6	830	98.5	19.3	82.6	83.0	22.6	BC-7	99.5	X		-3.3
DT-1108	06/25/08	See location plan	6	830	97.3	20.2	80.9	83.0	22.6	BC-7	97.5	X		-2.4
DT-1109	06/25/08	See location plan	6	830	91.9	16.3	79.0	83.0	22.6	BC-7	95.2	X		-6.3
DT-1110	06/25/08	See location plan	6	830	92.2	15.9	79.5	83.0	22.6	BC-7	95.8	X		-6.7
DT-1111	06/25/08	See location plan	6	830	87.4	10.7	78.9	83.0	22.6	BC-7	95.1	X		-11.9
DT-1112	06/25/08	See location plan	6	830	89.8	13.5	79.1	83.0	22.6	BC-7	95.3	X		-9.1
DT-1113	07/03/08	See location plan	6	845	97.9	21.4	80.6	83.0	22.6	BC-7	97.2	X		-1.2
DT-1114	07/03/08	See location plan	6	845	100.0	21.1	82.6	83.0	22.6	BC-7	99.5	X		-1.5
DT-1115	07/03/08	See location plan	6	845	99.4	20.6	82.4	83.0	22.6	BC-7	99.3	X		-2.0
DT-1116	07/03/08	See location plan	6	845	99.7	21.6	82.0	83.0	22.6	BC-7	98.8	X		-1.0
DT-1117	07/03/08	See location plan	6	845	98.5	21.8	80.9	83.0	22.6	BC-7	97.4	X		-0.8

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1118	07/03/08	See location plan	6	845	96.4	21.4	79.4	83.0	22.6	BC-7	95.7	X		-1.2
DT-1119	07/23/08	See location plan	6	815	92.5	16.4	79.5	83.0	22.6	BC-7	95.7	X		-6.2
DT-1120	07/23/08	See location plan	6	815	90.7	13.7	79.8	83.0	22.6	BC-7	96.1	X		-8.9
DT-1121	07/23/08	See location plan	6	815	93.1	15.6	80.5	83.0	22.6	BC-7	97.0	X		-7.0
DT-1122	07/23/08	See location plan	6	815	90.1	14.0	79.0	83.0	22.6	BC-7	95.2	X		-8.6
DT-1123	07/23/08	See location plan	6	815	89.5	14.7	78.0	83.0	22.6	BC-7	94.0		X	-7.9
DT-1123R	08/06/08	See location plan	6	815	87.1	13.7	76.6	83.0	22.6	BC-7	92.3		X	-8.9
DT-1123R	08/13/08	See location plan	6	815	87.7	14.1	76.9	83.0	22.6	BC-7	92.6		X	-8.5
DT-1123R	08/20/08	See location plan	6	815	92.5	14.5	80.8	83.0	22.6	BC-7	97.3	X		-8.1
DT-1124	07/23/08	See location plan	6	815	86.5	10.9	78.0	83.0	22.6	BC-7	93.9		X	-11.7
DT-1124R	08/06/08	See location plan	6	815	91.3	16.9	78.1	83.0	22.6	BC-7	94.1		X	-5.7
DT-1124R	08/13/08	See location plan	6	815	87.7	11.8	78.4	83.0	22.6	BC-7	94.5		X	-10.8
DT-1124R	08/20/08	See location plan	6	815	93.4	17.4	79.5	83.0	22.6	BC-7	95.9	X		-5.2
DT-1125	08/01/08	See location plan	6	816	97.9	20.8	81.0	83.0	22.6	BC-7	97.7	X		-1.8
DT-1126	08/01/08	See location plan	6	816	99.1	23.4	80.3	83.0	22.6	BC-7	96.8	X		0.8
DT-1127	08/01/08	See location plan	6	816	100.3	22.4	81.9	83.0	22.6	BC-7	98.7	X		-0.2
DT-1128	08/01/08	See location plan	6	816	100.9	21.1	83.3	83.0	22.6	BC-7	100+	X		-1.5
DT-1129	08/01/08	See location plan	6	816	101.5	23.0	82.5	83.0	22.6	BC-7	99.4	X		0.4
DT-1130	08/01/08	See location plan	6	816	99.1	21.7	81.4	83.0	22.6	BC-7	98.1	X		-0.9
DT-1131	08/06/08	See location plan	6	817	102.7	25.0	82.2	83.0	22.6	BC-7	99.0	X		2.4
DT-1132	08/06/08	See location plan	6	817	96.7	19.7	80.8	83.0	22.6	BC-7	97.3	X		-2.9
DT-1133	08/06/08	See location plan	6	817	102.1	23.1	82.9	83.0	22.6	BC-7	99.9	X		0.5
DT-1134	08/06/08	See location plan	6	817	96.1	20.1	80.0	83.0	22.6	BC-7	96.4	X		-2.5
DT-1135	08/13/08	See location plan	6	820	92.5	14.2	81.0	83.0	22.6	BC-7	97.6	X		-8.4
DT-1136	08/13/08	See location plan	6	820	93.7	16.5	80.4	83.0	22.6	BC-7	96.9	X		-6.1
DT-1137	08/13/08	See location plan	6	820	95.5	17.4	81.3	83.0	22.6	BC-7	98.0	X		-5.2
DT-1138	08/13/08	See location plan	6	820	95.5	18.0	80.9	83.0	22.6	BC-7	97.5	X		-4.6
DT-1139	08/20/08	See location plan	6	820	93.4	16.7	80.0	83.0	22.6	BC-7	96.4	X		-5.9
DT-1140	08/20/08	See location plan	6	820	93.7	15.6	81.0	83.0	22.6	BC-7	97.7	X		-7.0
DT-1141	08/20/08	See location plan	6	820	102.1	19.8	85.2	83.0	22.6	BC-7	100+	X		-2.8
DT-1142	08/20/08	See location plan	6	820	96.4	18.3	81.5	83.0	22.6	BC-7	98.2	X		-4.3
DT-1143	09/03/08	See location plan	6	822	97.3	18.2	82.3	83.0	22.6	BC-7	99.2	X		-4.4
DT-1144	09/03/08	See location plan	6	822	97.9	22.1	80.2	83.0	22.6	BC-7	96.6	X		-0.5
DT-1145	09/03/08	See location plan	6	822	97.9	19.2	82.1	83.0	22.6	BC-7	99.0	X		-3.4
DT-1146	09/03/08	See location plan	6	822	99.7	20.8	82.5	83.0	22.6	BC-7	99.4	X		-1.8
DT-1147	09/03/08	See location plan	6	822	96.7	18.1	81.9	83.0	22.6	BC-7	98.6	X		-4.5
DT-1148	09/03/08	See location plan	6	822	97.6	18.7	82.2	83.0	22.6	BC-7	99.0	X		-3.9
DT-1149	09/10/08	See location plan	6	824	98.5	21.1	81.3	83.0	22.6	BC-7	98.0	X		-1.5
DT-1150	09/10/08	See location plan	6	824	98.2	21.0	81.2	83.0	22.6	BC-7	97.8	X		-1.6
DT-1151	09/10/08	See location plan	6	824	98.2	18.6	82.8	83.0	22.6	BC-7	99.8	X		-4.0
DT-1152	09/10/08	See location plan	6	824	95.2	16.7	81.6	83.0	22.6	BC-7	98.2	X		-5.9
DT-1153	09/10/08	See location plan	6	824	100.0	19.3	83.8	83.0	22.6	BC-7	100+	X		-3.3
DT-1154	09/10/08	See location plan	6	824	97.3	19.1	81.7	83.0	22.6	BC-7	98.5	X		-3.5
DT-1155	09/18/08	See location plan	6	828	95.2	16.2	81.9	83.0	22.6	BC-7	98.7	X		-6.4
DT-1156	09/18/08	See location plan	6	828	94.0	15.5	81.4	83.0	22.6	BC-7	98.0	X		-7.1
DT-1157	09/18/08	See location plan	6	828	94.0	18.1	79.6	83.0	22.6	BC-7	95.9	X		-4.5
DT-1158	09/18/08	See location plan	6	828	94.6	15.1	82.2	83.0	22.6	BC-7	99.0	X		-7.5
DT-1159	09/18/08	See location plan	6	828	98.8	17.2	84.3	83.0	22.6	BC-7	100+	X		-5.4
DT-1160	09/18/08	See location plan	6	828	96.7	15.6	83.7	83.0	22.6	BC-7	100+	X		-7.0
DT-1161	09/24/08	See location plan	6	830	100.3	21.6	82.5	83.0	22.6	BC-7	99.4	X		-1.0

SHIELD ENGINEERING, INC

4301 Taggart Creek Road, Charlotte, NC 28208 (704) 394-69132

SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1162	09/24/08	See location plan	6	830	96.7	16.7	82.9	83.0	22.6	BC-7	99.8	X		-5.9
DT-1163	09/24/08	See location plan	6	830	95.8	20.9	79.2	83.0	22.6	BC-7	95.5	X		-1.7
DT-1164	09/24/08	See location plan	6	830	97.0	13.6	85.4	83.0	22.6	BC-7	100+	X		-9.0
DT-1165	09/24/08	See location plan	6	830	96.1	16.2	82.7	83.0	22.6	BC-7	99.6	X		-6.4
DT-1166	09/24/08	See location plan	6	830	96.1	19.7	80.3	83.0	22.6	BC-7	96.8	X		-2.9
DT-1167	10/01/08	See location plan	6	832	96.4	20.6	79.9	83.0	22.6	BC-7	96.3	X		-2.0
DT-1168	10/01/08	See location plan	6	832	106.3	20.1	88.5	86.8	20.6	BC-2	100+	X		-0.5
DT-1169	10/01/08	See location plan	6	832	103.6	22.0	84.9	83.0	22.6	BC-7	100+	X		-0.6
DT-1170	10/01/08	See location plan	6	832	100.0	20.9	82.7	83.0	22.6	BC-7	99.6	X		-1.7
DT-1171	10/01/08	See location plan	6	832	103.0	23.2	83.6	83.0	22.6	BC-7	100+	X		0.6
DT-1172	10/01/08	See location plan	6	832	101.5	21.5	83.5	83.0	22.6	BC-7	100+	X		-1.1
DT-1173	10/08/08	See location plan	6	834	96.7	21.7	79.5	83.0	22.6	BC-7	95.7	X		-0.9
DT-1174	10/08/08	See location plan	6	834	95.8	21.4	78.9	83.0	22.6	BC-7	95.1	X		-1.2
DT-1175	10/08/08	See location plan	6	834	97.3	20.2	80.9	83.0	22.6	BC-7	97.5	X		-2.4
DT-1176	10/08/08	See location plan	6	834	99.4	22.8	80.9	83.0	22.6	BC-7	97.5	X		0.2
DT-1177	10/08/08	See location plan	6	834	97.9	22.3	80.0	83.0	22.6	BC-7	96.4	X		-0.3
DT-1178	10/08/08	See location plan	6	834	96.1	21.5	79.1	83.0	22.6	BC-7	95.3	X		-1.1
DT-1179	10/17/08	See location plan	6	836	97.0	22.6	79.1	83.0	22.6	BC-7	95.3	X		0.0
DT-1180	10/17/08	See location plan	6	836	97.6	23.0	79.3	83.0	22.6	BC-7	95.6	X		0.4
DT-1181	10/17/08	See location plan	6	836	98.8	20.7	81.9	83.0	22.6	BC-7	98.6	X		-1.9
DT-1182	10/17/08	See location plan	6	836	99.7	20.8	82.5	83.0	22.6	BC-7	99.4	X		-1.8
DT-1183	10/17/08	See location plan	6	836	99.1	24.1	79.9	83.0	22.6	BC-7	96.2	X		1.5
DT-1184	10/17/08	See location plan	6	836	98.5	20.0	82.1	83.0	22.6	BC-7	98.9	X		-2.6
DT-1185	10/22/08	See location plan	6	838	100.6	17.9	85.3	86.8	20.6	BC-2	98.3	X		-2.7
DT-1186	10/22/08	See location plan	6	838	103.6	17.7	88.0	86.8	20.6	BC-2	100+	X		-2.9
DT-1187	10/22/08	See location plan	6	838	97.6	17.1	83.3	86.8	20.6	BC-2	96.1	X		-3.5
DT-1188	10/22/08	See location plan	6	838	99.7	18.6	84.1	86.8	20.6	BC-2	96.8	X		-2.0
DT-1189	10/22/08	See location plan	6	838	98.8	17.3	84.2	86.8	20.6	BC-2	97.1	X		-3.3
DT-1190	10/22/08	See location plan	6	838	100.0	16.8	85.6	86.8	20.6	BC-2	98.6	X		-3.8
DT-1191	10/29/08	See location plan	6	840	97.6	21.6	80.3	83.0	22.6	BC-7	96.7	X		-1.0
DT-1192	10/29/08	See location plan	6	840	102.4	22.4	83.7	83.0	22.6	BC-7	100+	X		-0.2
DT-1193	10/29/08	See location plan	6	840	98.5	17.8	83.6	83.0	22.6	BC-7	100+	X		-4.8
DT-1194	10/29/08	See location plan	6	840	96.7	20.7	80.1	83.0	22.6	BC-7	96.5	X		-1.9
DT-1195	10/29/08	See location plan	6	840	96.7	18.1	81.9	83.0	22.6	BC-7	98.7	X		-4.5
DT-1196	10/29/08	See location plan	6	840	106.3	25.8	84.5	83.0	22.6	BC-7	100+	X		3.2
DT-1197	11/06/08	See location plan	6	848	98.2	21.3	81.0	83.0	22.6	BC-7	97.5	X		-1.3
DT-1198	11/06/08	See location plan	6	848	101.2	20.4	84.1	83.0	22.6	BC-7	100+	X		-2.2
DT-1199	11/06/08	See location plan	6	848	99.4	21.8	81.6	83.0	22.6	BC-7	98.3	X		-0.8
DT-1200	11/06/08	See location plan	6	848	99.1	23.1	80.5	83.0	22.6	BC-7	97.0	X		0.5
DT-1201	11/06/08	See location plan	6	848	98.8	24.2	79.5	83.0	22.6	BC-7	95.8	X		1.6
DT-1202	11/06/08	See location plan	6	848	101.8	20.6	84.4	83.0	22.6	BC-7	100+	X		-2.0
DT-1203	11/14/08	See location plan	6	860	104.2	23.8	84.2	83.0	22.6	BC-7	100+	X		1.2
DT-1204	11/14/08	See location plan	6	860	107.5	27.0	84.7	83.0	22.6	BC-7	100+	X		4.4
DT-1205	11/14/08	See location plan	6	860	105.7	23.1	85.9	83.0	22.6	BC-7	100+	X		0.5
DT-1206	11/14/08	See location plan	6	860	103.9	24.9	83.2	83.0	22.6	BC-7	100+	X		2.3
DT-1207	11/14/08	See location plan	6	860	102.7	25.9	81.6	83.0	22.6	BC-7	98.3	X		3.3
DT-1208	11/14/08	See location plan	6	860	106.3	25.1	85.0	83.0	22.6	BC-7	100+	X		2.5
DT-1209	11/18/08	See location plan	6	862	97.0	23.6	78.5	82.4	23.2	BC-4	95.2	X		0.4
DT-1210	11/18/08	See location plan	6	862	99.1	23.3	80.4	82.4	23.2	BC-4	97.5	X		0.1
DT-1211	11/18/08	See location plan	6	862	96.4	22.1	79.0	82.4	23.2	BC-4	95.8	X		-1.1

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FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1212	11/18/08	See location plan	6	862	97.6	21.3	80.5	82.4	23.2	BC-4	97.7	X		-1.9
DT-1213	11/18/08	See location plan	6	862	98.2	25.2	78.4	82.4	23.2	BC-4	95.2	X		2.0
DT-1214	11/18/08	See location plan	6	862	100.3	23.1	81.5	82.4	23.2	BC-4	98.9	X		-0.1
DT-1215	11/18/08	See location plan	6	862	96.7	22.1	79.2	82.4	23.2	BC-4	96.1	X		-1.1
DT-1216	11/18/08	See location plan	6	862	99.1	23.3	80.4	82.4	23.2	BC-4	97.6	X		0.1
DT-1217	11/20/08	See location plan	6	862	96.4	21.4	79.4	83.0	22.6	BC-7	95.7	X		-1.2
DT-1218	11/20/08	See location plan	6	862	97.3	21.2	80.3	83.0	22.6	BC-7	96.7	X		-1.4
DT-1219	11/20/08	See location plan	6	862	98.2	22.2	80.4	83.0	22.6	BC-7	96.8	X		-0.4
DT-1220	11/20/08	See location plan	6	862	95.5	19.9	79.6	83.0	22.6	BC-7	95.9	X		-2.7
DT-1221	11/20/08	See location plan	6	862	94.9	20.0	79.1	83.0	22.6	BC-7	95.3	X		-2.6
DT-1222	11/20/08	See location plan	6	862	98.5	22.6	80.3	83.0	22.6	BC-7	96.8	X		0.0
DT-1223	11/25/08	See location plan	6	862	96.1	21.4	79.2	82.4	23.2	BC-4	96.0	X		-1.8
DT-1224	11/25/08	See location plan	6	862	97.6	22.5	79.7	82.4	23.2	BC-4	96.7	X		-0.7
DT-1225	11/25/08	See location plan	6	860	98.2	22.3	80.3	82.4	23.2	BC-4	97.4	X		-0.9
DT-1226	11/25/08	See location plan	6	860	97.6	23.0	79.3	82.4	23.2	BC-4	96.3	X		-0.2
DT-1227	11/25/08	See location plan	6	858	99.4	21.1	82.1	82.4	23.2	BC-4	99.6	X		-2.1
DT-1228	11/25/08	See location plan	6	858	95.8	19.7	80.0	82.4	23.2	BC-4	97.2	X		-3.5
DT-1229	11/28/08	See location plan	6	864	99.4	20.9	82.2	83.0	22.6	BC-7	99.0	X		-1.7
DT-1230	11/28/08	See location plan	6	864	100.0	20.3	83.1	83.0	22.6	BC-7	100+	X		-2.3
DT-1231	11/28/08	See location plan	6	864	96.4	21.1	79.6	83.0	22.6	BC-7	95.9	X		-1.5
DT-1232	11/28/08	See location plan	6	864	98.5	23.1	80.0	83.0	22.6	BC-7	96.4	X		0.5
DT-1233	11/28/08	See location plan	6	862	99.1	20.9	82.0	83.0	22.6	BC-7	98.8	X		-1.7
DT-1234	11/28/08	See location plan	6	862	97.3	20.2	80.9	83.0	22.6	BC-7	97.6	X		-2.4
DT-1235	12/02/08	See location plan	6	864	96.4	19.7	80.5	83.0	22.6	BC-7	97.0	X		-2.9
DT-1236	12/02/08	See location plan	6	864	96.1	20.9	79.5	83.0	22.6	BC-7	95.7	X		-1.7
DT-1237	12/02/08	See location plan	6	864	100.0	21.5	82.3	83.0	22.6	BC-7	99.1	X		-1.1
DT-1238	12/02/08	See location plan	6	864	97.6	19.5	81.7	83.0	22.6	BC-7	98.4	X		-3.1
DT-1239	12/02/08	See location plan	6	864	98.5	20.7	81.6	83.0	22.6	BC-7	98.3	X		-1.9
DT-1240	12/02/08	See location plan	6	864	96.4	21.7	79.2	83.0	22.6	BC-7	95.5	X		-0.9
DT-1241	12/02/08	See location plan	6	864	97.6	20.9	80.7	83.0	22.6	BC-7	97.3	X		-1.7
DT-1242	12/02/08	See location plan	6	864	98.2	21.8	80.6	83.0	22.6	BC-7	97.2	X		-0.8
DT-1243	12/02/08	See location plan	6	864	99.1	21.8	81.4	83.0	22.6	BC-7	98.1	X		-0.8
DT-1244	12/02/08	See location plan	6	864	100.3	21.2	82.8	83.0	22.6	BC-7	99.7	X		-1.4
DT-1245	12/04/08	See location plan	6	866	97.0	22.1	79.4	83.0	22.6	BC-7	95.7	X		-0.5
DT-1246	12/04/08	See location plan	6	866	97.9	23.6	79.2	83.0	22.6	BC-7	95.5	X		1.0
DT-1247	12/04/08	See location plan	6	866	99.4	24.9	79.6	83.0	22.6	BC-7	95.9	X		2.3
DT-1248	12/04/08	See location plan	6	866	97.9	21.3	80.7	83.0	22.6	BC-7	97.2	X		-1.3
DT-1249	12/04/08	See location plan	6	866	97.3	23.3	78.9	83.0	22.6	BC-7	95.1	X		0.7
DT-1250	12/04/08	See location plan	6	866	99.7	23.6	80.7	83.0	22.6	BC-7	97.2	X		1.0
DT-1251	12/09/08	See location plan	6	860	99.4	24.8	79.6	83.0	22.6	BC-7	96.0	X		2.2
DT-1252	12/09/08	See location plan	6	860	99.7	25.1	79.7	83.0	22.6	BC-7	96.0	X		2.5
DT-1253	12/09/08	See location plan	6	861	100.0	22.5	81.6	83.0	22.6	BC-7	98.3	X		-0.1
DT-1254	12/09/08	See location plan	6	862	98.8	25.3	78.9	83.0	22.6	BC-7	95.0	X		2.7
DT-1255	12/09/08	See location plan	6	863	97.9	24.0	79.0	83.0	22.6	BC-7	95.1	X		1.4
DT-1256	12/09/08	See location plan	6	863	97.3	20.3	80.9	83.0	22.6	BC-7	97.5	X		-2.3
DT-1257	12/12/08	See location plan	6	867	97.9	21.0	80.9	83.0	22.6	BC-7	97.4	X		-1.6
DT-1258	12/12/08	See location plan	6	867	100.0	22.2	81.8	83.0	22.6	BC-7	98.6	X		-0.4
DT-1259	12/12/08	See location plan	6	867	100.9	22.2	82.6	83.0	22.6	BC-7	99.5	X		-0.4
DT-1260	12/12/08	See location plan	6	867	100.3	22.4	81.9	83.0	22.6	BC-7	98.8	X		-0.2
DT-1261	12/12/08	See location plan	6	867	98.8	24.1	79.6	83.0	22.6	BC-7	95.9	X		1.5

SHIELD ENGINEERING, INC

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SUMMARY OF IN-PLACE DENSITY TEST DATA
FOR ASH STRUCTURAL FILL MATERIAL
BELEW'S CREEK STEAM STATION - ASH STRUCTURAL FILL - PHASE "1"
TABLE 1
PROJECT #1040010-01

TEST NO.	DATE	LOCATION	TEST DEPTH (inches)	APPROXIMATE GRADE ELEVATION	WET DENSITY (pcf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	PROCTOR NUMBER	PERCENT COMPACTION (%)	MEETS ACCEPTANCE COMPACTION CRITERIA		MOISTURE BIAS (%)
												YES	NO	
DT-1262	12/12/08	See location plan	6	867	97.3	22.7	79.3	83.0	22.6	BC-7	95.6	X		0.1
DT-1263	12/16/08	See location plan	6	865	100.0	22.3	81.8	83.0	22.6	BC-7	98.5	X		-0.3
DT-1264	12/16/08	See location plan	6	865	100.9	21.9	82.8	83.0	22.6	BC-7	99.8	X		-0.7
DT-1265	12/16/08	See location plan	6	865	97.9	23.7	79.1	83.0	22.6	BC-7	95.4	X		1.1
DT-1266	12/16/08	See location plan	6	865	98.8	23.8	79.8	83.0	22.6	BC-7	96.2	X		1.2
DT-1267	12/16/08	See location plan	6	865	98.8	23.3	80.1	83.0	22.6	BC-7	96.5	X		0.7
DT-1268	12/16/08	See location plan	6	865	99.1	21.6	81.5	83.0	22.6	BC-7	98.2	X		-1.0
DT-1269	12/19/08	See location plan	6	863	97.0	22.3	79.3	83.0	22.6	BC-7	95.6	X		-0.3
DT-1270	12/19/08	See location plan	6	863	99.1	24.5	79.6	83.0	22.6	BC-7	95.9	X		1.9
DT-1271	12/19/08	See location plan	6	863	97.3	21.7	80.0	83.0	22.6	BC-7	96.3	X		-0.9
DT-1272	12/19/08	See location plan	6	863	97.9	22.6	79.9	83.0	22.6	BC-7	96.2	X		0.0
DT-1273	12/19/08	See location plan	6	863	98.8	25.3	78.9	83.0	22.6	BC-7	95.0	X		2.7
DT-1274	12/19/08	See location plan	6	863	98.5	24.0	79.4	83.0	22.6	BC-7	95.7	X		1.4
DT-1275	01/09/09	See location plan	6	860	99.1	22.0	81.2	83.0	22.6	BC-7	97.9	X		-0.6
DT-1276	01/09/09	See location plan	6	860	98.5	22.1	80.7	83.0	22.6	BC-7	97.2	X		-0.5
DT-1277	01/09/09	See location plan	6	860	97.6	22.1	79.9	83.0	22.6	BC-7	96.3	X		-0.5
DT-1278	01/09/09	See location plan	6	860	96.7	21.8	79.4	83.0	22.6	BC-7	95.7	X		-0.8
DT-1279	01/09/09	See location plan	6	860	98.2	20.9	81.2	83.0	22.6	BC-7	97.9	X		-1.7
DT-1280	01/09/09	See location plan	6	860	97.0	21.1	80.1	83.0	22.6	BC-7	96.5	X		-1.5
DT-1281	01/09/09	See location plan	6	860	97.6	23.5	79.0	83.0	22.6	BC-7	95.2	X		0.9
DT-1282	01/09/09	See location plan	6	860	96.7	22.3	79.1	83.0	22.6	BC-7	95.3	X		-0.3
DT-1283	01/09/09	See location plan	6	860	97.9	22.8	79.7	83.0	22.6	BC-7	96.0	X		0.2
DT-1284	01/09/09	See location plan	6	860	98.8	22.7	80.5	83.0	22.6	BC-7	97.0	X		0.1
DT-1285	01/09/09	See location plan	6	860	97.0	21.8	79.6	83.0	22.6	BC-7	96.0	X		-0.8
DT-1286	01/09/09	See location plan	6	860	96.4	21.9	79.1	83.0	22.6	BC-7	95.3	X		-0.7
DT-1287	02/20/09	See location plan	6	870	96.4	22.0	79.0	83.0	22.6	BC-7	95.2	X		-0.6
DT-1288	02/20/09	See location plan	6	870	97.9	22.7	79.8	83.0	22.6	BC-7	96.1	X		0.1
DT-1289	02/20/09	See location plan	6	870	98.5	22.8	80.2	83.0	22.6	BC-7	96.6	X		0.2
DT-1290	02/20/09	See location plan	6	870	99.4	23.3	80.6	83.0	22.6	BC-7	97.1	X		0.7
DT-1291	02/20/09	See location plan	6	870	97.6	23.2	79.2	83.0	22.6	BC-7	95.4	X		0.6
DT-1292	02/20/09	See location plan	6	870	100.0	24.4	80.4	83.0	22.6	BC-7	96.9	X		1.8
DT-1293	02/26/09	See location plan	6	FG	89.5	14.6	78.1	82.4	23.2	BC-4	94.8		X	-8.6
DT-1293R	02/27/09	See location plan	6	FG	100.3	17.3	85.5	86.8	20.6	BC-2	98.5	X		-3.3
DT-1294	02/26/09	See location plan	6	FG	91.9	15.8	79.4	82.4	23.2	BC-4	96.3	X		-7.4
DT-1295	02/26/09	See location plan	6	FG	87.7	11.5	78.7	82.4	23.2	BC-4	95.5	X		-11.7
DT-1296	02/26/09	See location plan	6	FG	83.5	10.5	75.6	82.4	23.2	BC-4	91.7		X	-12.7
DT-1396R	02/27/09	See location plan	7	FG	101.5	21.0	83.9	84.9	21.1	BC-1	98.8	X		-0.1
DT-1297	02/26/09	See location plan	6	FG	96.7	17.8	82.1	84.9	21.1	BC-1	96.7	X		-3.3
DT-1298	02/26/09	See location plan	6	FG	101.5	18.6	85.6	86.8	20.6	BC-2	98.6	X		-2.0

NOTE: Moisture Bias is the difference between the field moisture content and the optimum moisture content
The Duke Energy specification indicates +/- 5% of optimum moisture content