

VOLUME II OF II
 GEOLOGIC AND HYDROLOGIC SITING REPORT
 FGD SCRUBBER RESIDUE DISPOSAL SITE
 BELEWS CREEK STEAM STATION
 3195 PINE HALL ROAD
 BELEWS CREEK, NORTH CAROLINA
 S&ME Project 1054-04-955

Carmen Johnson
 Fac/Permit Co # 85-05
 Date 5/14/12
 Doc ID#

Prepared For:



A Duke Energy Company

526 South Church Street
 Charlotte, North Carolina 28202



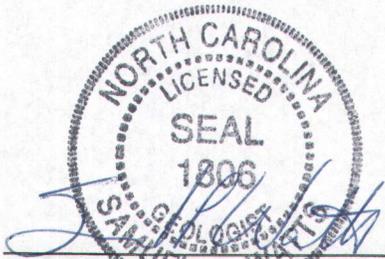
Prepared By:



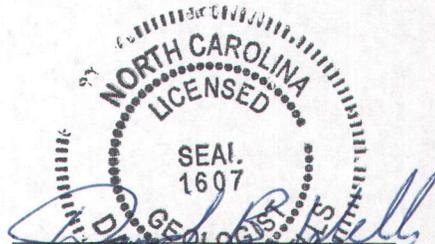
3118 Spring Forest Road
 Raleigh, North Carolina 27616

September 28, 2005

APPROVED
 DIVISION OF WASTE MANAGEMENT
 SOLID WASTE SECTION
 DATE 6/29/2006 BY TAD
 PERMIT #85-05
 PTC ATTACH 1, DOC#5
 RALEIGH CENTRAL FILE
 COPY



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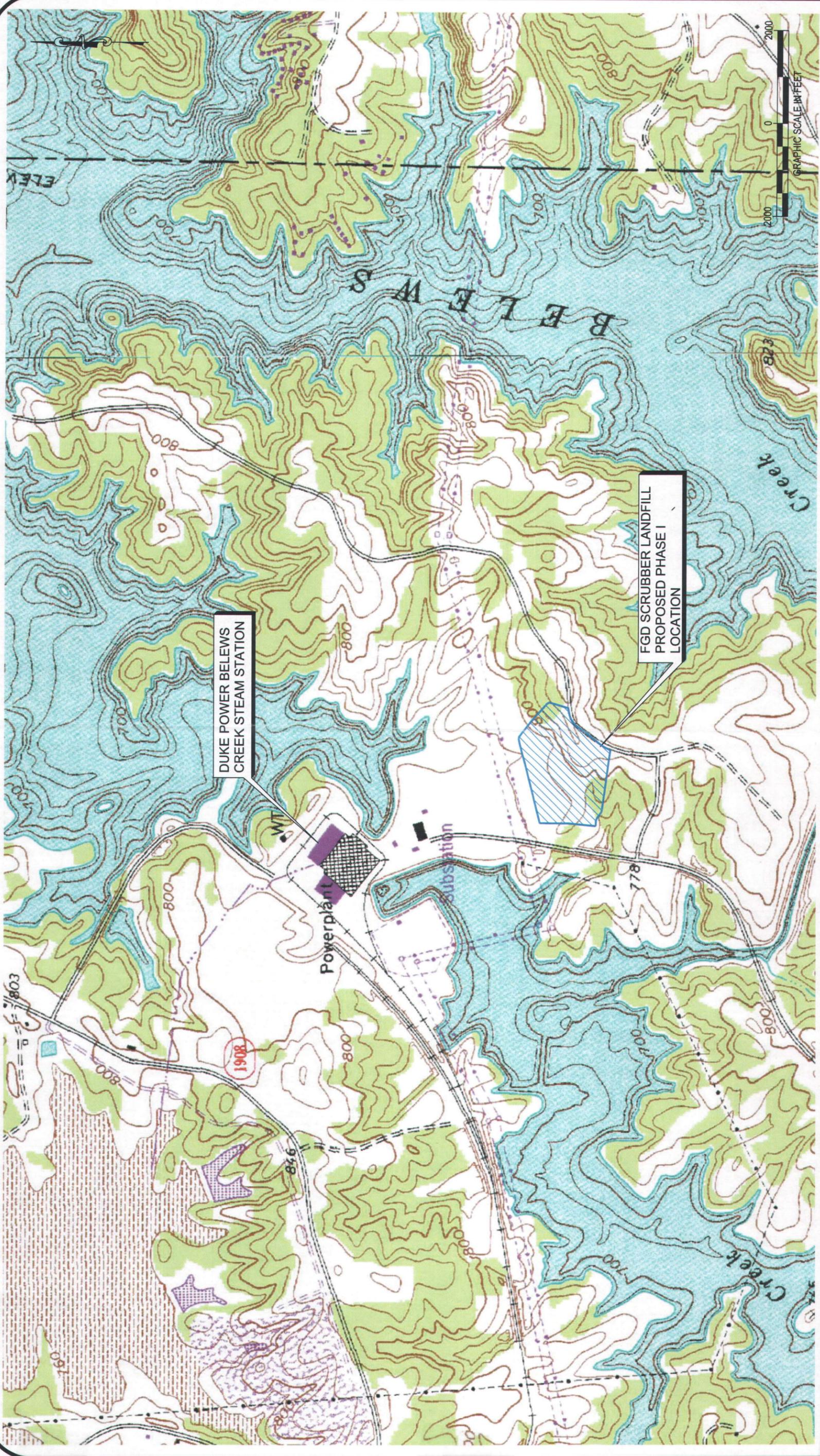


FIGURE NO. **1**

VICINITY MAP
DUKE POWER BELEWS CREEK STEAM STATION
 FGD SCRUBBER RESIDUE DISPOSAL STATION
 BELEWS CREEK, NORTH CAROLINA

3118 SPRING FOREST ROAD
 RALEIGH, N.C. 27616
 PH. 919-872-2660
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DATE: FEBRUARY 2005
 DRAWN BY: JCJ
 CHECKED BY: *JW DW*

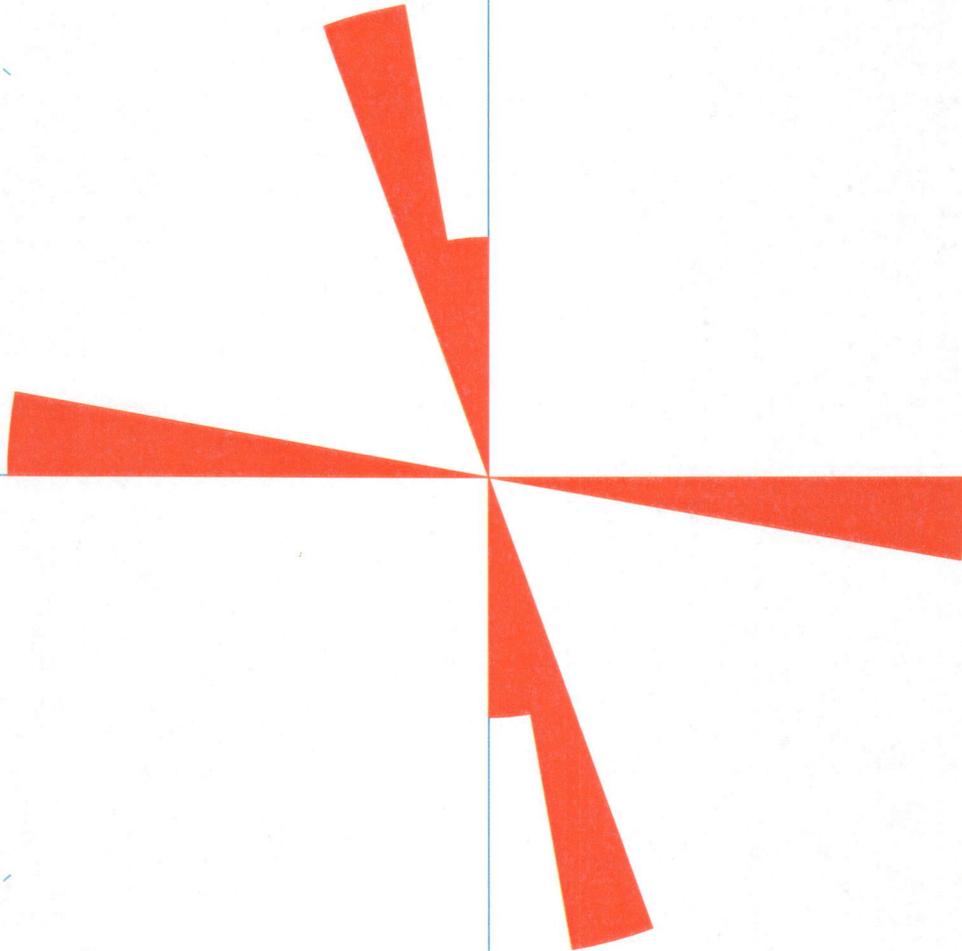
SCALE: 1" = 1,000'
 PROJECT NO. 1054-04-955

2 thru 12

Drawings Under Seperate Covers

Lineations
(Trend)

N



Axial

N = 5

SCALE:	NTS
DATE:	FEBRUARY 2005
DRAWN BY:	JCJ
PROJECT NO:	1054-04-955



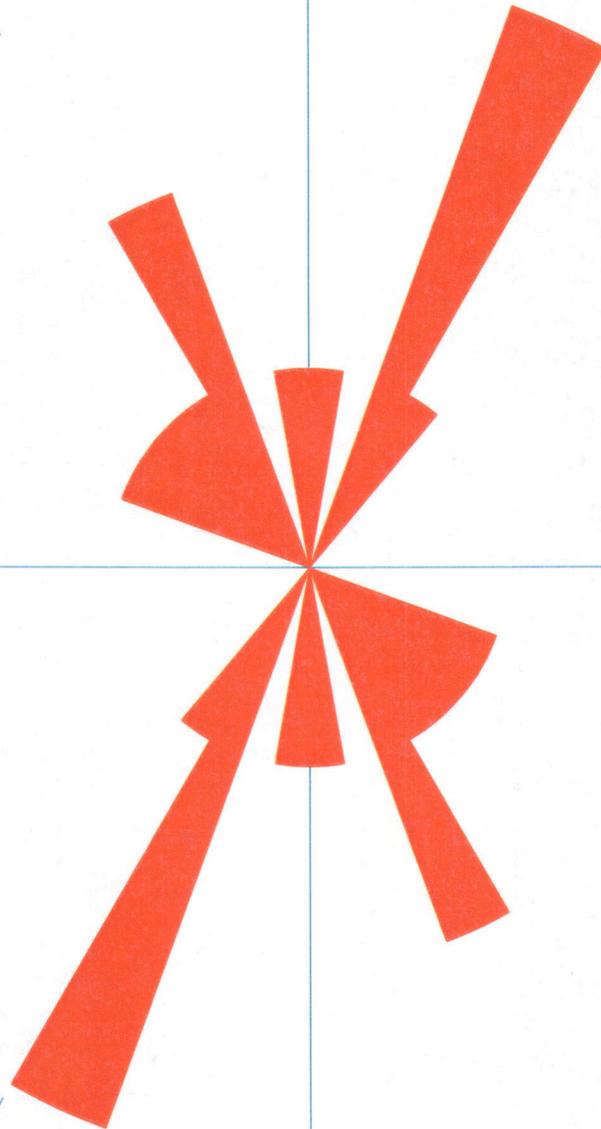
OUTCROP #1
JOINT/FOLIATION ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

FIGURE NO.

14

Lineations
(Trend)

N



Axial

N = 12

SCALE:	NTS
DATE:	FEBRUARY 2005
DRAWN BY:	JCJ
PROJECT NO:	1054-04-955



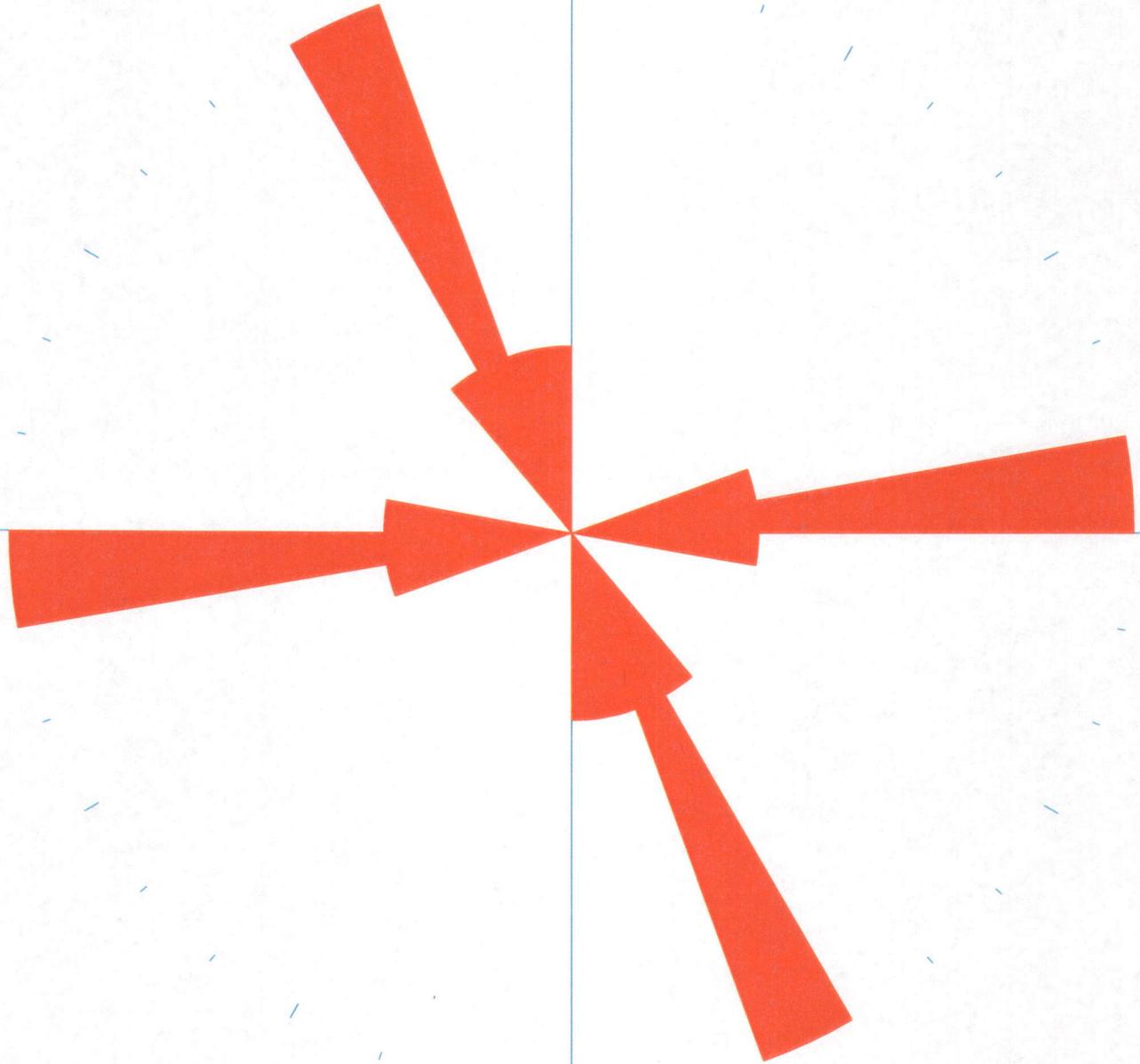
OUTCROP #2
JOINT/FOLIATION ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

FIGURE NO.

15

Lineations
(Trend)

N



Axial

N = 11

SCALE:	NTS
DATE:	FEBRUARY 2005
DRAWN BY:	JCJ
PROJECT NO:	1054-04-955



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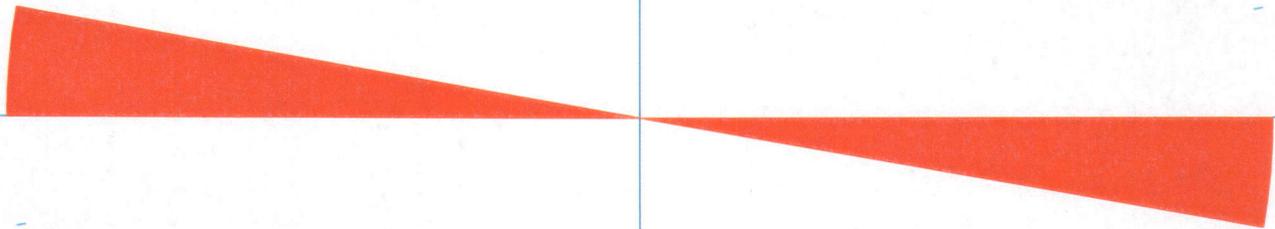
OUTCROP #3
JOINT/FOLIATION ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

FIGURE NO.

16

Lineations
(Trend)

N



Axial

N = 2

SCALE:	NTS
DATE:	FEBRUARY 2005
DRAWN BY:	JCJ
PROJECT NO:	1054-04-955



OUTCROP #4
JOINT/FOLIATION ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

FIGURE NO.

17

Lineations
(Trend)



Axial

N = 2

SCALE: NTS
DATE: FEBRUARY 2005
DRAWN BY: JCJ
PROJECT NO: 1054-04-955



OUTCROP #5
JOINT/FOLIATION ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

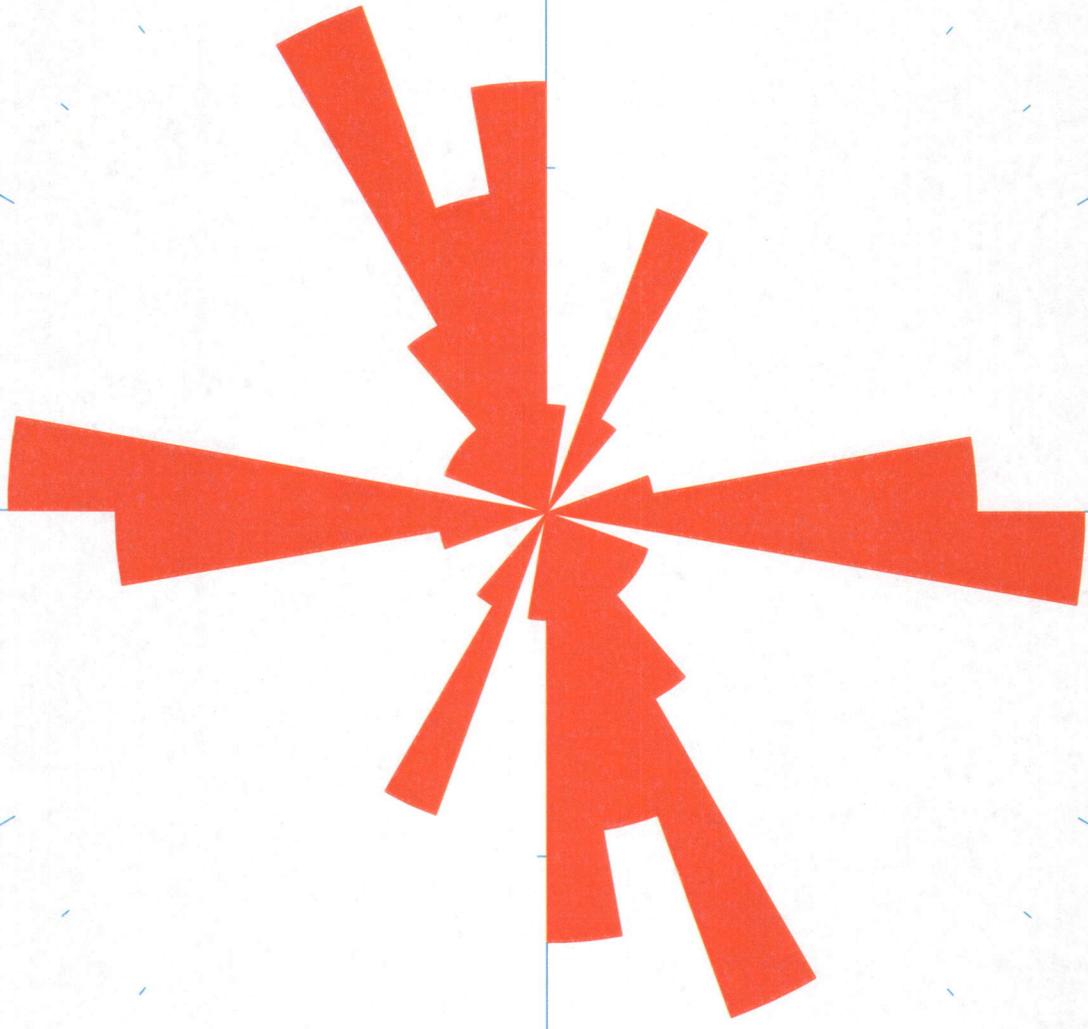
FIGURE NO.

18

Lineations
(Trend)

N

Weighted Histogram



Axial

N = 32

SCALE:	NTS
DATE:	FEBRUARY 2005
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PROJECT NO:	1054-04-955



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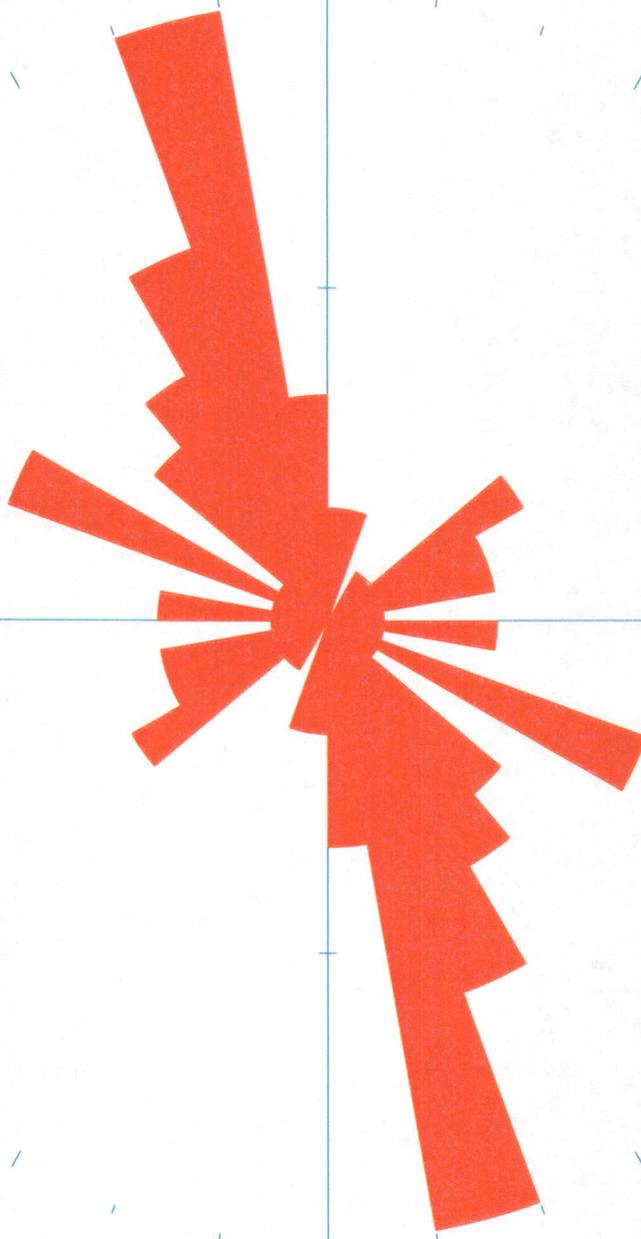
COMPOSITE DIAGRAM
JOINT/FOLIATION ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

FIGURE NO.

19

Lineations
(Trend)

N



Axial

N = 64

SCALE:	NTS
DATE:	FEBRUARY 2005
DRAWN BY:	JCJ
PROJECT NO:	1054-04-955



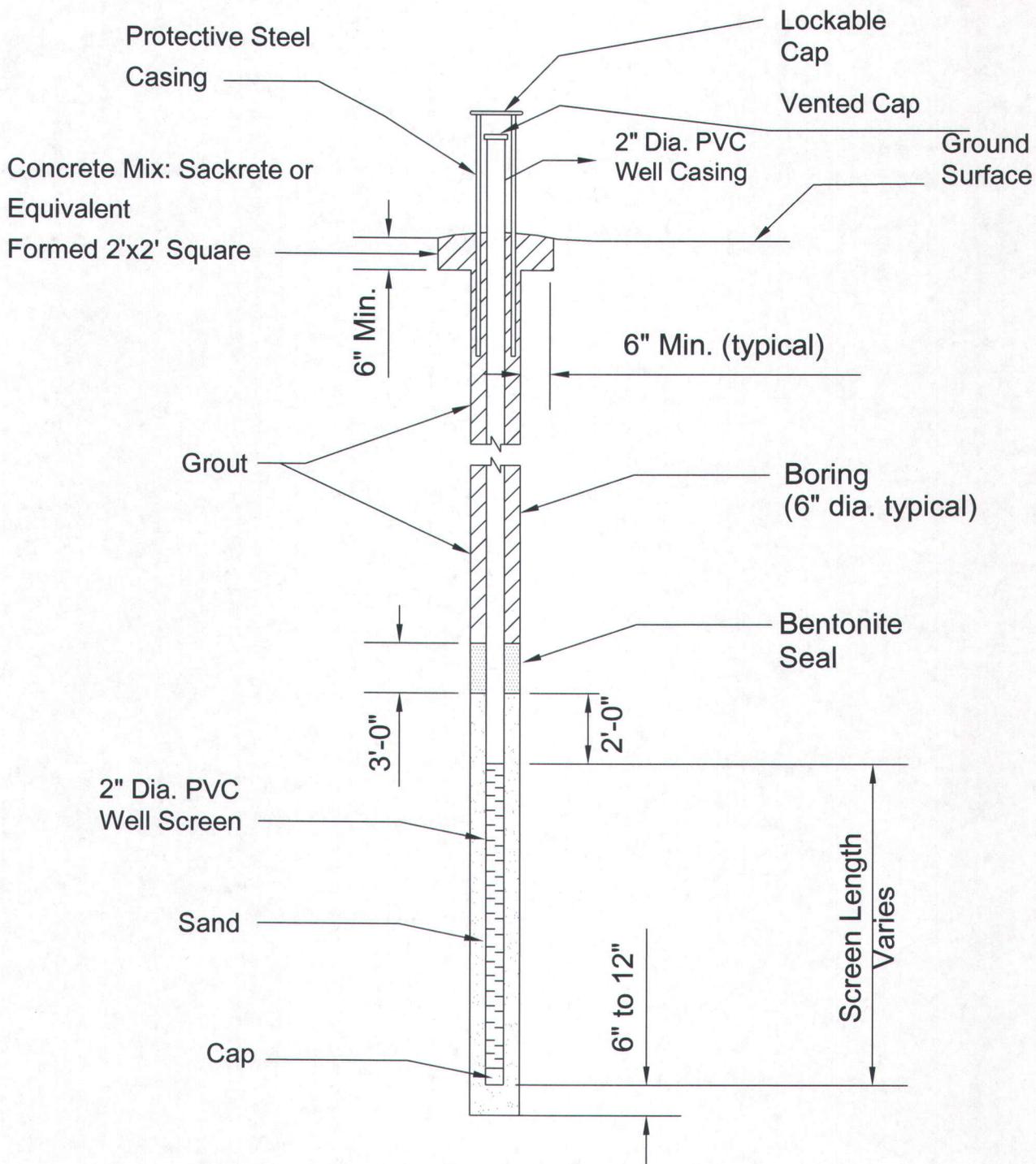
COMPOSITE DIAGRAM
MAP LINEAMENT ORIENTATIONS
DUKE BELEWS CREEK STEAM STATION
FGD SCRUBBER RESIDUE DISPOSAL SITE
BELEWS CREEK, NORTH CAROLINA

FIGURE NO.

20

21 thru 31

Drawings ↓ Under Seperate Cover



Notes:

- All well casing material shall be Sch 40 PVC.
- Well screen material shall be Sch 40 PVC.

SCALE: AS SHOWN
 DATE: SEPTEMBER 2005
 DRAWN BY: JCJ
 PROJECT NO: 1054-04-955



TYPICAL MONITOR WELL DETAIL
 DUKE POWER BELEWS CREEK STEAM STA.
 FGD SCRUBBER RESIDUE DISPOSAL SITE
 BELEWS CREEK, NORTH CAROLINA

FIGURE NO.
 32