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Blue Ridge Paper Products Inc. - Canton Mill / Waynesville Plant

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

Certified #7007 0710 0003 7311 3941

Return Receipt Requested

September 3, 2009

Fac/Perm/Co ID #	Date	Doc ID#
44-06	9, 13, 09	8556

Mr. Allen Gaither
NCDENR
2090 U.S. Highway 70
Swannanoa, NC 28778

Subject: Landfill No. 6, Area D-South
Blue Ridge Paper Products, Inc. – Canton Mill
Canton, North Carolina

Dear Mr. Gaither:

Blue Ridge Paper Products, Inc. has successfully completed piezometer abandonment at Landfill No. 6, in Canton, North Carolina, as approved in a letter from the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management dated June 26, 2009. The abandoned piezometers are those located directly in the area involved in the construction of Landfill 6, Area D South.

AE Drilling services conducted the abandonment of the 14 piezometers during a two-week period from July 20 through August 3, 2009. All work was performed in accordance with 15A NCAC 2C .0113(b)(1), entitled "Abandonment of Wells". The locations of the 14 piezometers abandoned are shown in Figure 1, attached, and summarized in Table 1, below. Abandonment records (GW-30 form) for all locations are also included for your records.

In addition, I will forward each of these records to you electronically.

TABLE 1

Piezometers Abandoned

P-07-206	P-07-216
P-07-208	P-07-218
P-07-209	P-07-219
P-07-210	P-07-220
P-07-211	P-07-221
P-07-214	P-07-222
P-07-215	P-07-223

If you have any questions concerning this information please do not hesitate to call.

Sincerely,



James A. Giauque
Waste Compliance & Landfill Supervisor
Blue Ridge Paper Products Inc.
Jim.giauque@everpack.com
828-646-2028 Fax 828-646-6892

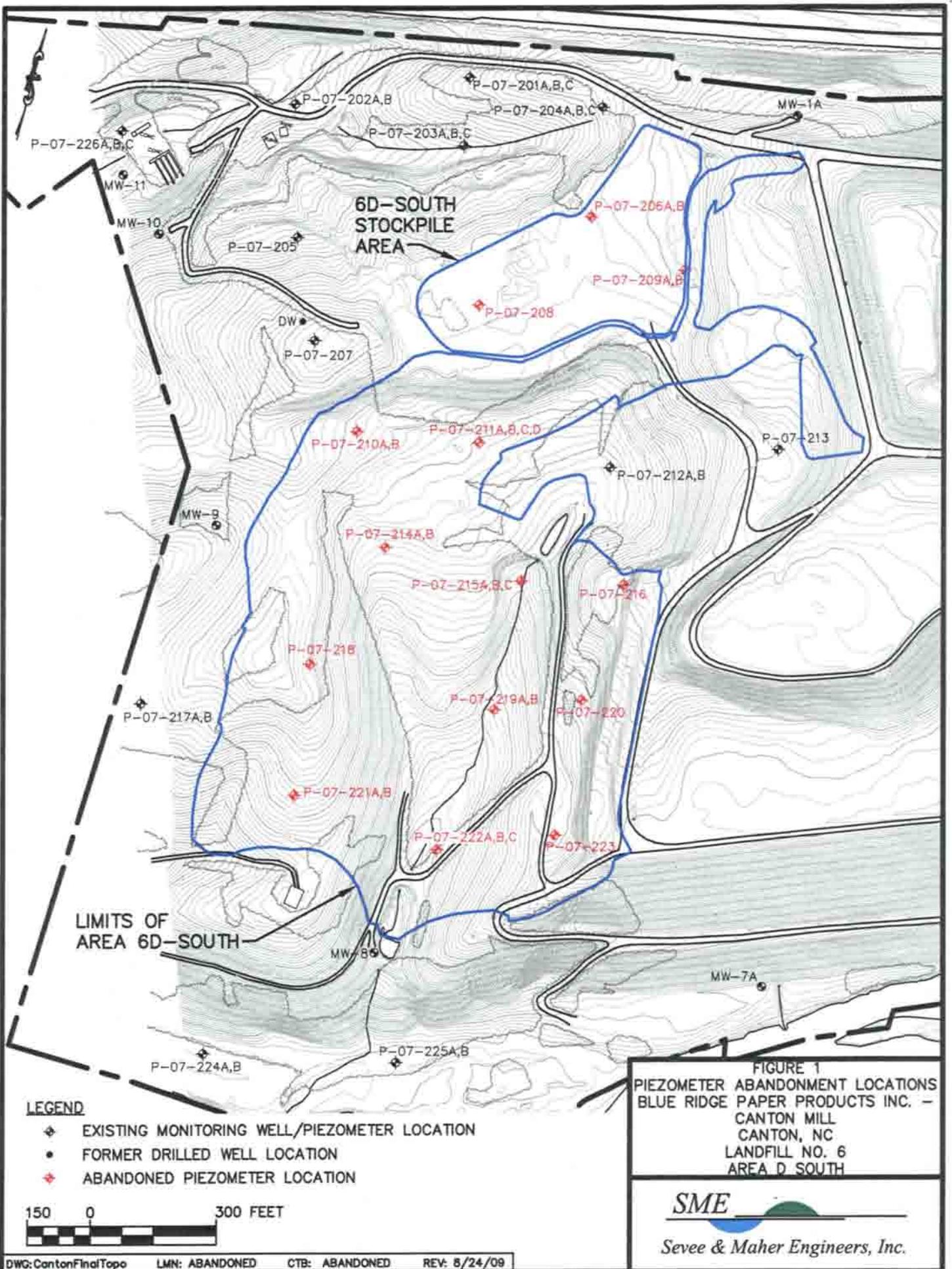


Mike Gustafson
Manager Environmental Affairs
Blue Ridge Paper Products Inc.
mike.gustafson@everpack.com
828-646-2381 Fax 828-646-6892

Copy: Christine Ritter, SWS
Andrea Keller, SWS
Guy Cote, Sevee & Maher Engineers, Inc.

Attachments: Figure 1 – Piezometer Abandonment Locations
Well Abandonment Records

File:Piez abandonment 9-3-09





WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United way

Greenville SC 29607
City or Town State Zip Code

(864) - 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-206 A/B

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

155 Incinerator Rd
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other

(Check appropriate setting)

LATITUDE 35.54867

LONGITUDE 82.88017

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giaugue

STREET ADDRESS 175 Main St

5. WELL DETAILS: P-07-206 A/B

a. Total Depth: 216/46 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 41.6 ft. 39.1
Measuring point is 2.5 ft. above land surface.

6. CASING: Length 665 Diameter

a. Casing Depth (if known): 75/45 ft. 3/4 in.

b. Casing Removed: 48/48 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 94 lb.
Water 6 gal.

Sand Cement

Cement — lb.
Water — gal.

Bentonite

Bentonite 550 lb.

Type: Slurry Pellets

Water — gal.

Other

Type material —

Amount —

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

- Tremie Cement in PVC
- Auger to 48, went off well @ 48
- Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/31/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette
SIGNATURE OF CERTIFIED WELL CONTRACTOR

7-31-09
DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

THOMAS BURNETTE
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION			JOB NO.: 07089.00		BORING NO.: B-07-206	
DATE STARTED: 10/5/07		DATE FINISHED: 10/6/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE		
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 1 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)	
	D1	SAPROLITE	11						
5	D2		14					5	
			Piezometer Abandonment						
10	D3			21					10
15	D4			26					15
20	D5			30					20
25	D6			24					25
30	D7		32			30.0	30		
		PWR -----							
35	D8	35.4	50+			35.0	35		
40	D9		50+				40		
45	D10		50+			45.0 45.5	45		
50	D11	49.3	50+				50		

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)	
55	D12	Auger Refusal at 55 feet	50+						55	
60	R1	<u>WEATHERED BEDROCK</u>			0				60	
65	R2				24		63.0		65	
70	R3				24		65.0		70	
75	R4				16				75	
80	R5				52				80	
85	R6		<u>COMPETENT BEDROCK</u>			79				85
90	R7					78				90
95									95	
100		Bottom of Exploration at 85 feet							100	

Grouted 7/20/09



NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Barnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville NC 29607
City or Town State Zip Code
(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-208

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

155 Incinerator Road
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other

(Check appropriate setting)

LATITUDE 35.54788
LONGITUDE 82.88084
May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giauque

STREET ADDRESS 175 Main St.
Canton, NC 28716

5. WELL DETAILS: P-07-208

a. Total Depth: 632 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 40.6 ft.
Measuring point is 2.5 ft. above land surface.

6. CASING: Length 86.5 Diameter _____

a. Casing Depth (if known): 61 ft. 3/4 in.

b. Casing Removed: 61 ft. _____ in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement Sand Cement

Cement 47 lb. Cement _____ lb.
Water 3 gal. Water _____ gal.

Bentonite

Bentonite 1000 lb.

Type: Slurry Pellets

Water _____ gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

- Tremie cement in PVC
- Auger to 61 feet
- Air hammer to 61 ft
- Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/23/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Barnette 7-23-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

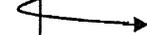
Thomas S. Barnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION			JOB NO.: 07089.00		BORING NO.: B-07-208	
DATE STARTED: 9/6/07		DATE FINISHED: 9/6/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE		
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 1 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
		<u>SAPROLITE</u>						
5	D1		16					5
10	D2		24					10
15	D3		21					15
20	D4		27					20
25	D5	25.4	50+					25
30	D6		20					30
35	D7		24					35
40	D8		26					40
45	D9		47					45
50	D10	50.3	50+					50

Piezometer Abandonment

Base of Landfill @ 28ft



grout

32.0

35.0

40.0

NOTES:
Installed (1) 3/4" PVC piezometer - screened in overburden

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-208	
DATE STARTED: 9/6/07		DATE FINISHED: 9/6/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 2 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
55	D11		50+					55
60	D12	Auger Refusal at 61 feet	50+			60.0		60
65	R1	<u>WEATHERED BEDROCK</u> 65.5			38			65
70	R2	<u>COMPETENT BEDROCK</u>			78			70
75	R3	75.5			86			75
80		Bottom of Exploration at 75.5 feet						80
85								85
90								90
95								95
100								100

NOTES:
Installed (1) 3/4" PVC piezometer - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Barnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code

(864) 288-1980
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-209 A/B

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential
 Municipal/Public Industrial/Commercial Agricultural
 Recovery Injection Irrigation
 Other (list use) Prezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton
1155 Inclineator Rd
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
 Slope Valley Flat Ridge Other
 (Check appropriate setting)

LATITUDE 35.54848
LONGITUDE 82.87936

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map
 (Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY. The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St
Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giguere

STREET ADDRESS 175 Main St
Canton N.C. 28716

5. WELL DETAILS: P-07-209 A/B

a. Total Depth: 61.4 ft. Diameter: 4 in.
 b. Water Level (Below Measuring Point): NR ft.
 Measuring point is 2.5 ft. above land surface.

6. CASING: Length 865 Diameter

a. Casing Depth (if known): 60.3/35 ft. 3/4 in.
 b. Casing Removed: 36/36 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement	Sand Cement
Cement <u>47</u> lb.	Cement <u>-</u> lb.
Water <u>3</u> gal.	Water <u>-</u> gal.

Bentonite

Bentonite 650 lb.
 Type: Slurry Pellets
 Water - gal.

Other

Type material _____
 Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC
Auger w/ plug to 36 ft bgs
Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

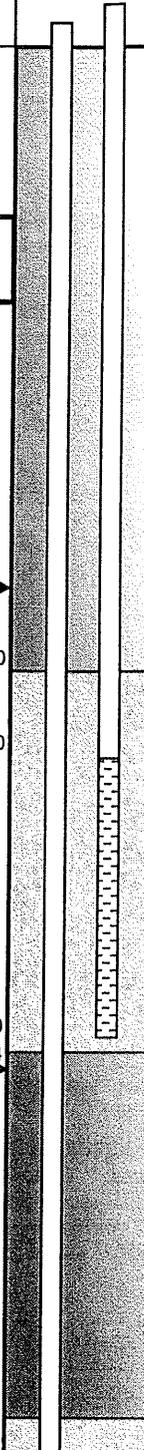
11. DATE WELL ABANDONED 8/3/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Barnette 8-3-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Barnette
PRINTED NAME OF PERSON ABANDONING THE WELL

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %	WELL LOG	DEPTH (FT)
	D1	SAPROLITE	15				
5	D2		12				5
10	D3		26				10
15	D4		50+				15
20	D5		30				20
25	D6		33				25
30	D7		50+				30
35	D8		50+				35
	R1	WEATHERED BEDROCK			66		
40	R2				22	40	
45	R3				72	45	
50						50	

Piezometer Abandonment

Base of Landfill @ 18ft

Augered/Chips 36' to Surface 8/3/09

PWR

Auger Refusal at 35 feet

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
	R4	<u>WEATHERED BEDROCK</u>			44				
55									55
	R5				44				
60									60
	R6	<u>COMPETENT BEDROCK</u>			100				
65									65
		Bottom of Exploration at 65 feet							
70									70
75									75
80									80
85									85
90									90
95									95
100									100

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Barnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code
(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-210 A/B

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1155 Incinerator Rd
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54682
LONGITUDE 82.88148

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St
Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giauque

STREET ADDRESS 175 Main St
Canton N.C. 28716

5. WELL DETAILS: P-07-210 A/B

a. Total Depth: 68.7/32 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 32.5 ft. Dry
Measuring point is 2.5 ft. above land surface.

6. CASING: Length BGS Diameter

a. Casing Depth (if known): 68.8/30 ft. 3/4 in.

b. Casing Removed: 68.8/30 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 94 lb.
Water 6 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite

Bentonite 800 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material -

Amount -

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

- Tremie Cement in PVC
- Auger to 59 feet
- Air hammer to 70 feet
- Back fill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/23/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Barnette 7.23.09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

THOMAS BARNETTE
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-210	
DATE STARTED: 9/17/07		DATE FINISHED: 9/18/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 1 OF 2

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
	D1	<u>TOPSOIL</u> <u>RESIDUUM/SAPROLITE</u>	8						
5	D2		14						5
10	D3		15						10
15	D4	<u>PWR</u>	36					15.0	15
20	D5	<u>SAPROLITE</u>	38					20.0	20
25	D6		30						25
30	D7		28					30.0	30
35	D8		20						35
40	D9		21						40
45	D10		14						45
50	D11		50+						50

Piezometer Abandonment

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-210	
DATE STARTED: 9/17/07		DATE FINISHED: 9/18/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 2 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
55	12D	58.5 Auger Refusal at 58.5 feet	50+					55
60	R1	WEATHERED BEDROCK			73			60
65	R2				58			65
70	R3	COMPETENT BEDROCK Bottom of Exploration at 70.0 feet			94			70
75								75
80								80
85								85
90								90
95								95
100								100

NOTES:

Installed (1) 3/4" PVC piezometer - screened in wx bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Barnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code

(864) - 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-211 A,B,C,D

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1155 Incinerator Road

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54697

LONGITUDE 82.88043

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St.

Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Griaguc

STREET ADDRESS 175 Main St

Canton, N.C. 28716

5. WELL DETAILS: P-07-211A,B,C,D

a. Total Depth: 193.5/871*/32.64 ft. Diameter: 4 in. *=Broken at surface

b. Water Level (Below Measuring Point): NA ft.
Measuring point is 2.5 ft. above land surface.

6. CASING:

a. Casing Depth (if known): 190/85.81 Length 60.5 Diameter 3/4 in.
b. Casing Removed: 20/86/86/85 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 138 lb.
Water 12 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite B/C/D

Bentonite 650 lb.

Type: Slurry Pellets

Water - gal.

A

pellets

Other

Type material B/C/D Cement - 3 bags + 15-20

Amount gal. H₂O

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

- Tremie Cement in PVC
- Auger to 23ft (B/C/D) 20' (A)
- Air hammer to 85 (B/C/D)
- Backfill grout (B/C/D) + chips
- Backfill chips (A)

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used. (B,C,D) (A)

11. DATE WELL ABANDONED 7/27/09 8/3/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Barnette 7-27-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR 8-3-09 DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Barnette
PRINTED NAME OF PERSON ABANDONING THE WELL

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
		<u>TOPSOIL</u>							
		<u>SAPROLITE</u>							
5	D1		22						5
10	D2		50+						10
15	D3		36					14.0	15
20	D4		50+					19.0	20
25	D5		43						25
30	R1	Auger refusal at 29.5 feet			0			28.0 29.0 29.5	30
		<u>WEATHERED BEDROCK</u>							
35	R2				32				35
40	R3				68				40
45	R4				72				45
50	R5				8			47.5	50

Piezometer Abandonment

Base of Landfill @ 8ft

D-Grouted 7/20/09

C-Grouted 7/20/09

NOTES:

Installed (2) 3/4" PVC piezometers - screened in bedrock

Installed (1) 3/4" PVC piezometers - screened in overburden

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-211	
DATE STARTED: 9/4/07		DATE FINISHED: 9/5/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 2 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
	R5				8				
55	R6				0		55.0		55
							55.5		
60	R7				36				60
65	R8				70				65
70	R9	<u>COMPETENT BEDROCK</u>			92				70
75	R10				92				75
80	R12	<u>WEATHERED BEDROCK</u>			71		77.0		80
85	R13				68		80.8		85
		Bottom of Exploration at 85.8 feet					85.8		
90									90
95									95
100									100

B-Grouted 7/20/09

Augered to 85', Grout 25'-85', chips 0-25'

NOTES:
Installed (2) 3/4" PVC piezometers - screened in bedrock
Installed (1) 3/4" PVC piezometers - screened in overburden

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %	WELL LOG	DEPTH (FT)
		Piezometer Abandonment					
5		<u>See B-07-211 for Stratigraphy down to 85 feet</u>					
10						Base of Landfill @ 8ft	10
15						Grouted 7/28/09	15
20						Augered to 20', chips 0-20'	20
25							25
30		Auger refusal at 29.5 feet					30
35		<u>WEATHERED BEDROCK</u>					35
40							40
45							45
50							50

NOTES:
 Installed (1) 3/4" PVC piezometer - screened in bedrock

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-211A	
DATE STARTED: 9/7/07		DATE FINISHED: 9/12/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 2 OF 4	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
55									55
60									60
65									65
70		<u>COMPETENT BEDROCK</u>							70
75									75
80		<u>WEATHERED BEDROCK</u>							80
85									85
90	R13				64				90
95	R14				86				95
100									100

NOTES:
Installed (1) 3/4" PVC piezometer - screened in bedrock

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-211A	
DATE STARTED: 9/7/07		DATE FINISHED: 9/12/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 3 OF 4

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
105	R15				82				105
110									110
115	R16				48				115
120									120
125	R17				97				125
130									130
135	R18				77				135
140									140
145	R19				24				145
150									150

NOTES:
 Installed (1) 3/4" PVC piezometer - screened in bedrock

PROJECT: BRPP SITE INVESTIGATION			JOB NO.: 07089.00		BORING NO.: B-07-211A	
DATE STARTED: 9/7/07		DATE FINISHED: 9/12/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE		
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 4 OF 4	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
155	R20				32				155
160	R21				94		160		
165	R22				84		165		
170	R23				96		170		
175	R24				54	grout 173 to surface chips 173 to 178	175		
180	R25				92		178.0 180.0		180
185	R26				94				185
190	R27					Grouted 0-190'	190.0		190
195		Bottom of Exploration at 190.0 feet							195
200									200

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code

(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-214 A/B

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

155 Incinerator Rd

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54617

LONGITUDE 82.88102

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giauque

STREET ADDRESS 175 Main St

Canton, N.C. 28716

5. WELL DETAILS:

P-07-214 A/B

a. Total Depth: 63.3/38.5 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 25.5 ft. 25.6
Measuring point is 2.5 ft. above land surface.

6. CASING:

Length 1365 Diameter

a. Casing Depth (if known): 60.5/40 ft. 3/4 in.

b. Casing Removed: 40/40 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 94 lb.
Water 6 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite

Bentonite 450 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

• Tremie Cement in PVC
• Auger to 40 feet
• Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/30/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette
SIGNATURE OF CERTIFIED WELL CONTRACTOR

8-3-09
DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-214	
DATE STARTED: 9/19/07		DATE FINISHED: 9/19/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 1 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
	D1	FILL						
Piezometer Abandonment								
5	D2		17					5
		RESIDUUM/SAPROLITE						
10	D3		16					10
15	D4	SAPROLITE	15					15
20	D5		24				20.0	20
25	D6		27				25.0	25
30	D7		40					30
35	D8		50+					35
40	D9		50+				40.0	40
45	D10	PWR	50+					45
50	D11		50+					50

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden

PROJECT: BRPP SITE INVESTIGATION			JOB NO.: 07089.00		BORING NO.: B-07-214	
DATE STARTED: 9/19/07		DATE FINISHED: 9/19/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE		
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 2 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
		Auger Refusal at 51 feet							
55	R-1	COMPETENT BEDROCK			89				55
60	R-2				84				60
		Bottom of Exploration at 60.5 feet							
65									65
70									70
75									75
80									80
85									85
90									90
95									95
100									100

NOTES:
Installed (1) 3/4" PVC piezometer - screened in bedrock
Installed (1) 3/4" PVC piezometer - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code
(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-215 A,B,C

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

155 Incinerator Rd
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54623

LONGITUDE 82.87988

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St
Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giauque

STREET ADDRESS 175 Main St
Canton, N.C. 28716

5. WELL DETAILS:

P-07-215 A/B/C
a. Total Depth: 68/27/15.5 ft. Diameter: 4 in.
b. Water Level (Below Measuring Point): 9.7/10/10.2
Measuring point is 2.5 ft. above land surface.

6. CASING:

Length Diameter
a. Casing Depth (if known): 65/29.3 ft. 3/4 in.
b. Casing Removed: 64/64/64 ft. 1/4 in.
65/65/65 ft. 1/2 in.

7. DISINFECTION:

NA
(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement Sand Cement
Cement 94 lb. Cement - lb.
Water 6 gal. Water - gal.

Bentonite B/C
Bentonite 500 lb. 250(A)
Type: Slurry Pellets
Water - gal.

Other

Type material -

Amount -

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC
Auger to 24 ft 113 ft in (A)
Use hammer to 65 feet lbs
Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/29/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8-3-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

THOMAS BURNETTE
PRINTED NAME OF PERSON ABANDONING THE WELL

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
		<u>TOPSOIL</u>						
		<u>FILL</u>				Base of Landfill @ +5ft		
5	D1	5.0	17					5
		<u>COLUVIUM</u>						
10	D2		12					10
15	D3		24					15
20	D4		11					20
25	D5 & R1	Auger Refusal at 24 feet	50+		80			25
		<u>COMPETENT BEDROCK</u>						
	R2				100			
30								30
	R3				71			
35								35
	R4				100			
40								40
	R5				46			
45								45
	R6				100			
50								50

Piezometer Abandonment

Grouted 7/20/09

Augered to 24'

13.0
cave
19.0
22.4
23.0
24.0
24.3

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden

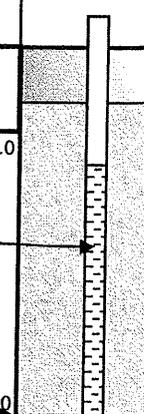
DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %	WELL LOG	DEPTH (FT)
		COMPETENT BEDROCK					
55	R7				100	53.5 55.0	55
60						Grouted 7/20/09	60
65	R8	Bottom of Exploration at 65.0 feet			100		65.0
70						Air Hammer 24'-65' Chips 0-65'	70
75							75
80							80
85							85
90							90
95							95
100							100

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

Installed (1) 3/4" PVC piezometer - screened in overburden

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-215A	
DATE STARTED: 8/27/07		DATE FINISHED: 8/27/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 1 OF 1

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)	
		See B-07-215 for Stratigraphy	Piezometer Abandonment							
5	D1		16				4.0	5		
	D2		17							
10	D3		50+					10		
	D4		50+							
15		Bottom of Exploration at 13.0 feet					13.0	15		
20								20		
25								25		
30								30		
35								35		
40								40		
45								45		
50								50		

NOTES:

Installed (1) 3/4" PVC piezometer - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way

Greenville Sc 29607
City or Town State Zip Code

(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-216

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1155 Incinerator Road
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other

(Check appropriate setting)

LATITUDE 35.54640

LONGITUDE 82.87909

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY - The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giguere

STREET ADDRESS 175 Main St.

Canton, N.C. 28716

5. WELL DETAILS:

P-07-216

a. Total Depth: 69.3 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): NR ft.

Measuring point is 2.5 ft. above land surface.

6. CASING:

Length 865 Diameter

a. Casing Depth (if known): 68.3 ft. 3/4 in.

b. Casing Removed: 24 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 60 lb.
Water 4 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite

Bentonite 350 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material -

Amount -

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

- Tremie Cement in PVC
- Auger w/ plug to 24 ft
- Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 8/3/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8-3-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %	WELL LOG	DEPTH (FT)	
	D1	TOPSOIL	50+			<div style="border: 1px solid black; padding: 5px; display: inline-block;">Piezometer Abandonment</div>		
		FILL						
5								
	D2	6.1	50+					5
10								
	D3	10.7	50+					10
15								
	D4	15.7 Auger Refusal at 17 feet	50+				15	
20	R1	<u>COMPETENT BEDROCK</u>			97		20	

		<u>WEATHERED BEDROCK</u>						
25	R2				51		25	
30								
	R3				0		30	
35								

		<u>COMPETENT BEDROCK</u>						
40	R4				83		40	
45								
	R5				76	45.0	45	
50	R6					48.3	50	

NOTES:

Installed (1) 3/4" PVC piezometer - screened in bedrock

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
		COMPETENT BEDROCK							
55	R6		90	55					
60								60	
65	R7				90			65	
70		Bottom of Exploration at 69.0 feet					68.3 69.0		70
75									75
80									80
85									85
90									90
95									95
100									100

NOTES:
 Installed (1) 3/4" PVC piezometer - screened in bedrock



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code

(864) - 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-218

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1255 Incinerator Road

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54530

LONGITUDE 82.86129

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giraugue

STREET ADDRESS 175 main st

Canton, N.C. 28716

5. WELL DETAILS: P-07-218

a. Total Depth: 69.9 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 59.2 ft.
Measuring point is 2.5 ft. above land surface.

6. CASING: Length 60 Diameter _____

a. Casing Depth (if known): 70 ft. 3/4 in.

b. Casing Removed: 70 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 60 lb.
Water 4 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite

Bentonite 500 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

- Tremic Cement in PVC
- Auger to 65 ft
- Air hammer to 70 ft
- Back fill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/30/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8-3-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION			JOB NO.: 07089.00			BORING NO.: B-07-218		
DATE STARTED: 9/20/07		DATE FINISHED: 9/20/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE				
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING			LOGGED BY: MSR		
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 1 OF 2			

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)	
	D1	<u>TOPSOIL/RESIDUUM</u>	Piezometer Abandonment							
5	D2		11						5	
		<u>SAPROLITE</u>								
10	D3		6						10	
15	D4		8						15	
20	D5		17						20	
25	D6		14						25	
30	D7		15						30	
35	D8		18						35	
40	D9		17						40	
45	D10		20						45	
50	D11		<u>PWR</u>	50+						50

NOTES:
 Installed (1) 3/4" PVC piezometers - screened in overburden/bedrock

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-218	
DATE STARTED: 9/20/07		DATE FINISHED: 9/20/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 1 OF 2	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
		PWR						
55	D12		17				55.0	55
60	D13		24					60
65	D14	Auger Refusal at 65 feet	50+					65
70	R1	COMPETENT BEDROCK			88		70.0	70
75	R2	Bottom of Exploration at 75.3 feet			100		chips	75
80								80
85								85
90								90
95								95
100								100

NOTES:
 Installed (1) 3/4" PVC piezometers - screened in overburden/bedrock



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name
A.E. Drilling Services
Well Contractor Company Name
STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code
(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-219 A/B
STATE WELL PERMIT # (if applicable) _____
COUNTY WELL PERMIT # (if applicable) _____
DWQ or OTHER PERMIT # (if applicable) _____
WELL USE (Check applicable use): Monitoring Residential
 Municipal/Public Industrial/Commercial Agricultural
 Recovery Injection Irrigation
 Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____
NEAREST TOWN: Canton
1155 Incinerator Rd
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)
TOPOGRAPHIC / LAND SETTING:
 Slope Valley Flat Ridge Other _____
(Check appropriate setting)

LATITUDE 35.54538
LONGITUDE 82.87979
May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map
(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable) _____
NAME OF FACILITY Blue Ridge Paper
STREET ADDRESS 175 Main St
Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Griaugue
STREET ADDRESS 175 Main St
Canton, N.C. 28716

5. WELL DETAILS:

P-07-219 A/B
a. Total Depth: 55.5 / 15.2 ft. Diameter: 4 in.
b. Water Level (Below Measuring Point): 6 / 5.5 ft.
Measuring point is 2.5 ft. above land surface.

6. CASING:

Length 36ft Diameter _____
a. Casing Depth (if known): 54 / 15.5 ft. 3/4 in.
b. Casing Removed: 20 / 15.5 ft. 3/4 in.

7. DISINFECTION:

N/A
(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement	Sand Cement
Cement <u>60</u> lb.	Cement <u>-</u> lb.
Water <u>4</u> gal.	Water <u>-</u> gal.
Bentonite	
Bentonite <u>200</u> lb.	
Type: <input type="checkbox"/> Slurry <input checked="" type="checkbox"/> Pellets	
Water <u>-</u> gal.	
Other	
Type material _____	
Amount _____	

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC
* Auger w/ plug to 20ft bgs
* Back fill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/29/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8-3-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %	WELL LOG	DEPTH (FT)	
		TOPSOIL						
		COLUVIUM						
5	D1		3				3.5 5.0	5
Piezometer Abandonment								
10	D2		3					10
		SAPROLITE						
15	D3		6				15.0 15.5	15
20	D4		5					20
25	D5	25.3	50+				25	
30	D6		30				30	
35	D7		40				35	
40	D8		42				40	
45	D9		33				45	
50	D10		19			48.0 49.0	50	

NOTES:
 Installed (2) 3/4" PVC piezometers - screened in overburden

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
								54.0	
55	R1	Auger Refusal at 54 feet			30			chips	55
		<u>WEATHERED BEDROCK</u>							60
60	R2				16				
65	R3				30				65
		<u>COMPETENT BEDROCK</u>							
70	R4		Bottom of Exploration at 70.0 feet			94			
75									75
80									80
85									85
90									90
95									95
100									100

NOTES:
 Installed (2) 3/4" PVC piezometers - screened in overburden



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette

Well Contractor (Individual) Name

A.E. Drilling Services

Well Contractor Company Name

STREET ADDRESS 2 United Way

Greenville SC 29607

City or Town State Zip Code

(864) 288-1986

Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-220

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1155 Incinerator Road

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54559

LONGITUDE 82.87911

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giguere

STREET ADDRESS 175 Main St.

Canton, N.C. 28716

5. WELL DETAILS: P-07-220

a. Total Depth: 44.2 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 43.3 ft.

Measuring point is 2.5 ft. above land surface.

6. CASING: Length 845 Diameter

a. Casing Depth (if known): 41 ft. 3/4 in.

b. Casing Removed: 47 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 47 lb.
Water 3 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite

Bentonite 700 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC

Auger to 28 feet

Air hammer to 41 feet

Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/28/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette
SIGNATURE OF CERTIFIED WELL CONTRACTOR

8-3-09
DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-220	
DATE STARTED: 9/25/07		DATE FINISHED: 9/25/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 1 OF 1	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
	D1	1.3 <u>FILL</u>	50+					
5								
	D2		18					
10								10
	D3	11.4	50+					
15								15
	D4		50+					
20		<u>SAPROLITE / PWR</u>						20
	D5		50+					
25								25
	D6	25.9 Auger Refusal at 28 feet	50+				26.0	
30	R1	<u>WEATHERED BEDROCK</u>			65		31.0	
	R2				64			
35		35.3					35	
	R3				54			
40		40.3					40	
	R4	<u>COMPETENT BEDROCK</u>					41.0	
45		45.3					43.0	
	R5				100		cave	
50		50.3 BOE at 50.3 feet					50	

NOTES:
 Installed (1) 3/4" PVC piezometer - screened in overburden/wx bedrock



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette

Well Contractor (Individual) Name

A.E. Drilling Services

Well Contractor Company Name

STREET ADDRESS 2 United Way

Greenville SC 29607

City or Town State Zip Code

(864) 288-1986

Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-221 A/B

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

155 Incinerator Rd

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other

(Check appropriate setting)

LATITUDE 35.54438

LONGITUDE 82.88107

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Griavogue

STREET ADDRESS 175 Main St

Canton, N.C. 28716

5. WELL DETAILS:

P-07-221 A/B

a. Total Depth: 72.2/69.5 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 59.9 ft. 68.5
Measuring point is 2.5 ft. above land surface.

6. CASING: Length 865 Diameter _____

a. Casing Depth (if known): 75/66 ft. 3/4 in.

b. Casing Removed: 75/66 ft. _____ in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Sand Cement

Cement 141 lb.
Water 9 gal.

Cement - lb.
Water - gal.

Bentonite

Bentonite 1150 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material _____

Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC

Auger to 62 feet

Air hammer to 75 ft

Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/30/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8.30.09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-221	
DATE STARTED: 9/24/07		DATE FINISHED: 9/24/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 1 OF 2

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)	
	D1	<u>TOPSOIL/RESIDUUM</u>	8							
5	D2	<u>SAPROLITE</u>	9						5	
	D3		19							
10		Piezometer Abandonment								10
	D4		23							
15									15	
	D5		24							
20								20		
	D6		27							
25								25		
	D7		27							
30								30		
	D8		28							
35								35		
	D9		32							
40								40		
	D10		24							
45								45		
	D11		28							
50								50		

NOTES:

Installed (1) 3/4" PVC piezometers - screened in overburden/bedrock

Installed (1) 3/4" PVC piezometers - screened in competent bedrock

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %	WELL LOG	DEPTH (FT)
	D12		50				
55						54.0	55
	D13		50+			56.3	
60							60
	D14	Auger Refusal at 62 feet	50+		Augered to 62'	61.0	
65		COMPETENT BEDROCK			83	66.0	65
70						69.0	70
						70.0 chips	
75		Bottom of Exploration at 75.0 feet			Air Hammer 62'-75' Chips 0-75'		75
80							80
85							85
90							90
95							95
100							100

NOTES:

Installed (1) 3/4" PVC piezometers - screened in overburden/bedrock

Installed (1) 3/4" PVC piezometers - screened in competent bedrock



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette
Well Contractor (Individual) Name

A.E. Drilling Services
Well Contractor Company Name

STREET ADDRESS 2 United Way
Greenville SC 29607
City or Town State Zip Code

(864) 288-1986
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-222 A,B,C

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1155 Incinerator Road
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other

(Check appropriate setting)

LATITUDE 35.54438
LONGITUDE 82.87988
May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 125 Main St
Canton N.C. 28716
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giraugue

STREET ADDRESS 125 Main St
Canton, N.C. 28716

5. WELL DETAILS:

P-07-222 A/B/C
a. Total Depth: 110.1/637/19.2 ft. Diameter: 4 in.
b. Water Level (Below Measuring Point): 20.1 ft. 6.8/7.3
Measuring point is 2.5 ft. above land surface.

6. CASING:

Length 360 Diameter _____
a. Casing Depth (if known): 111/60.5/15.5 ft. 3/4 in.
b. Casing Removed: 111/10/12.1 ft. 3/4 in.

7. DISINFECTION:

NA
(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement **Sand Cement**
Cement 188 lb. Cement - lb.
Water 9 gal. Water - gal.

Bentonite
Bentonite 750 lb.
Type: Slurry Pellets
Water - gal.

Other
Type material _____
Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC
Auger to 61 feet
Air hammer to 111
Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/28/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8-3-08
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-222	
DATE STARTED: 8/21/07		DATE FINISHED: 8/23/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 1 OF 3	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
		<u>TOPSOIL</u>						
		<u>FILL</u>						
5	D1		8				3.0 5.0	5
10	D2	11.2	14					10
15	D3	<u>SAPROLITE</u>	3				15.0 15.5	15
20	D4		9					20
25	D5		22					25
30	D6		13					30
35	D7		18					35
40	D8		48					40
45	D9		50+					45
50								50

Piezometer Abandonment

NOTES:
 Installed 3/4" PVC piezometer - screened in bedrock
 Installed (2) 3/4" PVC piezometers - screened in overburden

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
	D10	<u>SAPROLITE</u>	50+					
55								53.0
	D11		65					
60								
	D12	Auger Refusal at 61 feet	15					
	R1	<u>COMPETENT BEDROCK</u>			94			
65								65
	R2					100		
70								70
	R3					100		
75								75
	R4					100		
80							80	
	R5				100			
85							85	
	R6				100			
90							90	
	R7				100			
95						94.0	95	
100							100	

NOTES:

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-222	
DATE STARTED: 8/21/07		DATE FINISHED: 8/23/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):			DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3			SHEET 3 OF 3

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %			WELL LOG	DEPTH (FT)
	R7	COMPETENT BEDROCK							
105	R8		105						
110		Bottom of boring @ 111 feet							110
115									115
120									120
125									125
130									130
135									135
140									140
145									145
150									150

NOTES:



WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2277

1. WELL CONTRACTOR:

Thomas Burnette

Well Contractor (Individual) Name

A.E. Drilling Services

Well Contractor Company Name

STREET ADDRESS Z United Way

Greenville SC 29607

City or Town State Zip Code

(864) 288-1986

Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P-07-223

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) Piezometer

3. WELL LOCATION:

COUNTY _____ QUADRANGLE NAME _____

NEAREST TOWN: Canton

1155 Incinerator Road

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____

(Check appropriate setting)

LATITUDE 35.54472

LONGITUDE 82.87901

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY Blue Ridge Paper

STREET ADDRESS 175 Main St

Canton N.C. 28716

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Jim Giauque

STREET ADDRESS 175 Main St

Canton, N.C. 28716

5. WELL DETAILS: P-07-223

a. Total Depth: 47 ft. Diameter: 4 in.

b. Water Level (Below Measuring Point): 37 ft.

Measuring point is 2.5 ft. above land surface.

6. CASING: Length 368 Diameter _____

a. Casing Depth (if known): 45.5 ft. 3/4 in.

b. Casing Removed: 45.5 45.5 ft. 3/4 in.

7. DISINFECTION: NA

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 47 lb.
Water 3 gal.

Sand Cement

Cement - lb.
Water - gal.

Bentonite

Bentonite 1000 lb.

Type: Slurry Pellets

Water - gal.

Other

Type material -

Amount -

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Cement in PVC

• Auger to 45 feet

• Air hammer to 45.5 ft

• Backfill with chips

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 7/22/09

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas Burnette 8-30-09
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Thomas Burnette
PRINTED NAME OF PERSON ABANDONING THE WELL

PROJECT: BRPP SITE INVESTIGATION		JOB NO.: 07089.00		BORING NO.: B-07-223	
DATE STARTED: 9/18/07		DATE FINISHED: 9/19/07		DRILLING METHOD: HSA, WIRE-LINE ROCK CORE	
GROUND SURFACE ELEVATION (FT):		DRILLING CONTRACTOR: AE DRILLING		LOGGED BY: MSR	
BOREHOLE DIA. (IN): 8		ROCK CORE DIA. (IN): 3		SHEET 1 OF 1	

DEPTH (FT)	SAMPLE NO.	MATERIAL DESCRIPTION	SPT N-VALUE (bpf)	water content, %	RQD, %		WELL LOG	DEPTH (FT)
	D1	TOPSOIL	9					
		RESIDUUM/SAPROLITE						
5	D2		13					5
Piezometer Abandonment								
10	D3		10					10
15	D4		18					15
20	D5	SAPROLITE/PWR	48					20
25	D6		28				25.5	25
30	D7		50				30.5	30
35	D8		21					35
40	D9		50+					40
		Auger Refusal at 42 feet						
45	R1	WEATHERED BEDROCK						45
	R2	COMPETENT BEDROCK						
50		Bottom of exploration at 50.0 feet						50

Base of Landfill @ 23ft

Augered to 45'

Air Hammer 45'-45.5'
Chips 0-45.5'

NOTES:
Installed (1) 3/4" PVC piezometer - screened in bedrock