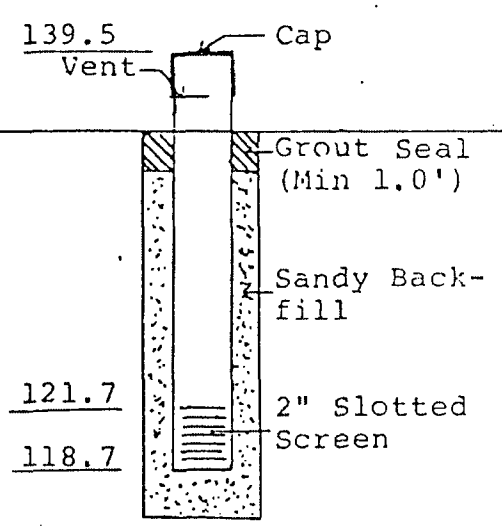


DEPTH	STRATA DESCRIPTION	ELEVATION	OBSERVATION WELL DETAIL
0		137.2	
	Loose Brown Fine Sand *		
	Firm and Loose Brown to Gray Tan Silty Fine to Medium Sand with Gravel		
10	Firm Tan Gray Slightly Silty Fine to Medium Sand with Gravel	127.2	
20		117.2	
	Boring Terminated @ 20.0'		
30			
40	* Topsoil		Vertical Dimensions Below Ground Surface are to Scale.
50			
60			
70			

N=Standard Penetration Resistance is sum of blows for 2nd 6" and 3rd 6" to drive 1-3/8" I.D., 2" O.D. split barrel sampler with 140 pound hammer falling 30 inches.

Location Westinghouse
 Depth of Water @ N/A
 1. Time of installation See Table 1
 2. At least 24 hours later See Table 1
 Drilling Method Wash Boring

OBSERVATION WELL RECORD

Page 1 of 1
 Piezometer No. W-13
 Date Installed 5-14-80



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: Westinghouse Electric Co. (last) (first)
Address: Drawer R
City: Columbia State: SC Zip: 29250-0000
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Richland

Name: Westinghouse
Street Address: 5801 Bluff Road
City: Columbia Zip: 29209-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

4. ABANDONMENT:

☒ Yes ☐ No

Grouted Depth: from 0 ft. to 18.5 ft.

7. PERMIT NUMBER:

Site ID# 00456

8. USE:

☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ Monitor Well ☐ Replacement

9. WELL DEPTH (completed)

Date Started: 10/8/10

18.5 ft.

Date Completed: 10/8/10

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

0 in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above ☐ Below ☒

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☒ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

Sieve Analysis ☐ Yes (please enclose) ☒ No

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.

_____ ft. after _____ hrs. Pumping _____ G.P.M.

Pumping Test: ☐ Yes (please enclose) ☒ No

Yield: _____

14. WATER QUALITY

Chemical Analysis ☐ Yes ☒ No Bacterial Analysis ☐ Yes ☒ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No

Installed from _____ ft. to _____ ft.

Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No

☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____

Depth: From _____ ft. to _____ ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction

Type _____

Well Disinfected ☐ Yes ☒ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not Installed ☒

Mfr. Name: _____ Model No.: _____

H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm

TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine

☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jason Chiorazzi

CERT. NO.: 1790

Address: (Print)

Level: A B C D (circle one)

171 Lott Ct, W.Columbia, 29169

Telephone No.: 803-429-3001

Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____
Well Driller

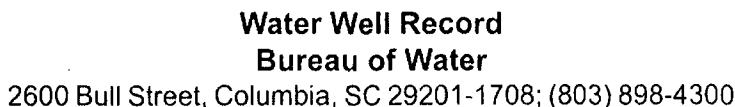
Date: 10/20/10

If D Level Driller, provide supervising driller's name:

6. TYPE: ☐ Mud Rotary
☐ Dug
☐ Cable tool

☐ Jetted
☐ Air Rotary
☒ Other

☐ Bored
☐ Driven



COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)





Ryder, Christopher

From: Couture, Gerard F. [CouturGF@westinghouse.com]
Sent: Friday, July 06, 2012 2:37 PM
To: Ryder, Christopher
Subject: Re: Reminder

Yes only a few feet apart

From: Ryder, Christopher [<mailto:Christopher.Ryder@nrc.gov>]
Sent: Friday, July 06, 2012 02:35 PM
To: Couture, Gerard F.
Subject: Reminder

The response to RAI 10 states, "The coordinates of the old W-23 are N 33 52 47.7 latitude W 80 55 05.2 longitude verses the replacement well coordinates N 33 52 47.7 latitude W 80 55 05.2 longitude."

The coordinates of the old and new wells of W-23 are the same.

Please verify.

Thanks.

From: Couture, Gerard F. [<mailto:CouturGF@westinghouse.com>]
Sent: Friday, July 06, 2012 2:05 PM
To: Ryder, Christopher; Adams, Mary
Cc: Logsdon, Cynthia J.; charles.suddeth@aecom.com
Subject: Westinghouse well documentation

Mr. Ryder,

Attached please find supplemental information to our official RAI responses. The attached well records indicate that the new wells are in the same aquifer. However, it may be difficult for someone to confirm if they are not used to looking at well records. Following is the contact information for our contract firm expert who has graciously offered to address any additional follow-up questions you may have pertaining to well placement.

Also attached to next two emails are pictures showing where W-13R is in relation to the Google Earth estimation of the GPS coordinates given by our handheld equipment (which pinpoints the middle of the road). According to Google Earth, the well (which shows up looking like a white square next to the Brigade Building) is actually better estimated N 33 52 47.97, W 80 55 12.00.

Chuck Suddeth, P.G.
Senior Hydrogeologist
Ph: (803) 798-1073 x3956
Cell: (803) 522-3017
charles.suddeth@aecom.com

AECOM
810 Dutch Square Blvd., Suite 202
Columbia, SC 29210

Gerard Couture
Manager, Licensing & Regulatory Programs
Columbia Fuel Fabrication Facility

Westinghouse Electric Company LLC
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Hopkins, SC 29061-9121, USA
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Cell: (803) 727-2127
Email: couturgf@westinghouse.com