



September 12, 2008

Mr. Brian Wootton
Hydrogeologist
NCDENR Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

**RE: Ground Water Monitoring Well and Landfill Gas Probe Installation
Davidson County Phase 2, Area 1 Landfill Unit
Davidson County, North Carolina**

Dear Mr. Wootton:

As you are aware, Richardson Smith Gardner and Associates, Inc (RSG) has completed the installation of ground water monitoring wells and landfill gas probes at the Davidson County Phase 2, Area 1 Landfill unit. The following is a summarization of well installation activities for this site.

Ground Water Monitoring Well Installation

During the completion of construction of the Area 1 unit, RSG personnel supervised the installation of twelve (12) ground water monitoring wells around the site. Of these, nine (9) are shallow wells completed in unconsolidated sediments and three (3) are deep wells constructed in bedrock. The wells are labeled MW-1, MW-2, MW-3, MW-3d, MW-4, MW-4d, MW-5, MW-6, MW-6d, MW-7, MW-8, and MW-9. The wells labeled "d" are the deep wells constructed in bedrock. Additionally, monitoring wells MW-7, MW-8 and MW-9 are constructed in bedrock as no ground water was encountered in the unconsolidated sediments above the rock. Given the extreme drought conditions prior to this drilling event, this is not unexpected. The locations of the nested pairs of wells are based upon fractures and diabase dikes detected during previous geophysical studies at the site.

The ground water monitoring wells were installed in two segments with the bulk of the wells installed between March 24th and March 26th, 2008 and two remaining wells installed in August 2008 due to access issues. These wells were installed in accordance with 15A NCAC 2C.0108. The well locations are shown on the attached **Figure 1**, and the boring logs and well construction records for these wells are included in **Attachment 1**.

Landfill Gas Monitoring Probe Installation

Landfill gas probes were installed around the Phase 2 Area 1 unit between August 12th and August 15th, 2008. The original plan1 submitted to NCDENR for landfill gas monitoring showed probes located around the perimeter of the entire Phase 2 footprint.

As the road around the site has not been fully completed yet and there were access issues on the west and south of the site, several wells were installed closer to the Area 1 unit. The landfill gas probes installed are labeled LFG-1, LFG-2, LFG-3, LFG-4, LFG-5, LFG-6, LFG-7, LFG-8, and LFG-9. Of these, LFG-4, LFG-5 and LFG-6 are in long-term temporary locations due to access issues. The remainder of the probes were installed in accordance with the original landfill gas monitoring probe location map submitted with the Permit to Construct application. It is likely that the temporary probes will not have to be relocated for approximately 10 years. After this time some of the probes may require relocation due to construction of additional landfill units. The installed landfill gas probe locations are shown on the attached **Figure 1** and the boring logs and well construction records are included in **Attachment 2**.

Ground Water Monitoring Status

Currently, one ground water monitoring event has been completed for Phase 2 Area 1 as part of the baseline ground water monitoring. A total of 4 baseline sampling events will be completed within the next 6 months.

If you have any questions, or require additional information, please contact me at 919-929-0577 x 122 or by e-mail at joan@rsgengineers.com.

Sincerely,
Richardson Smith Gardner and Associates, Inc.

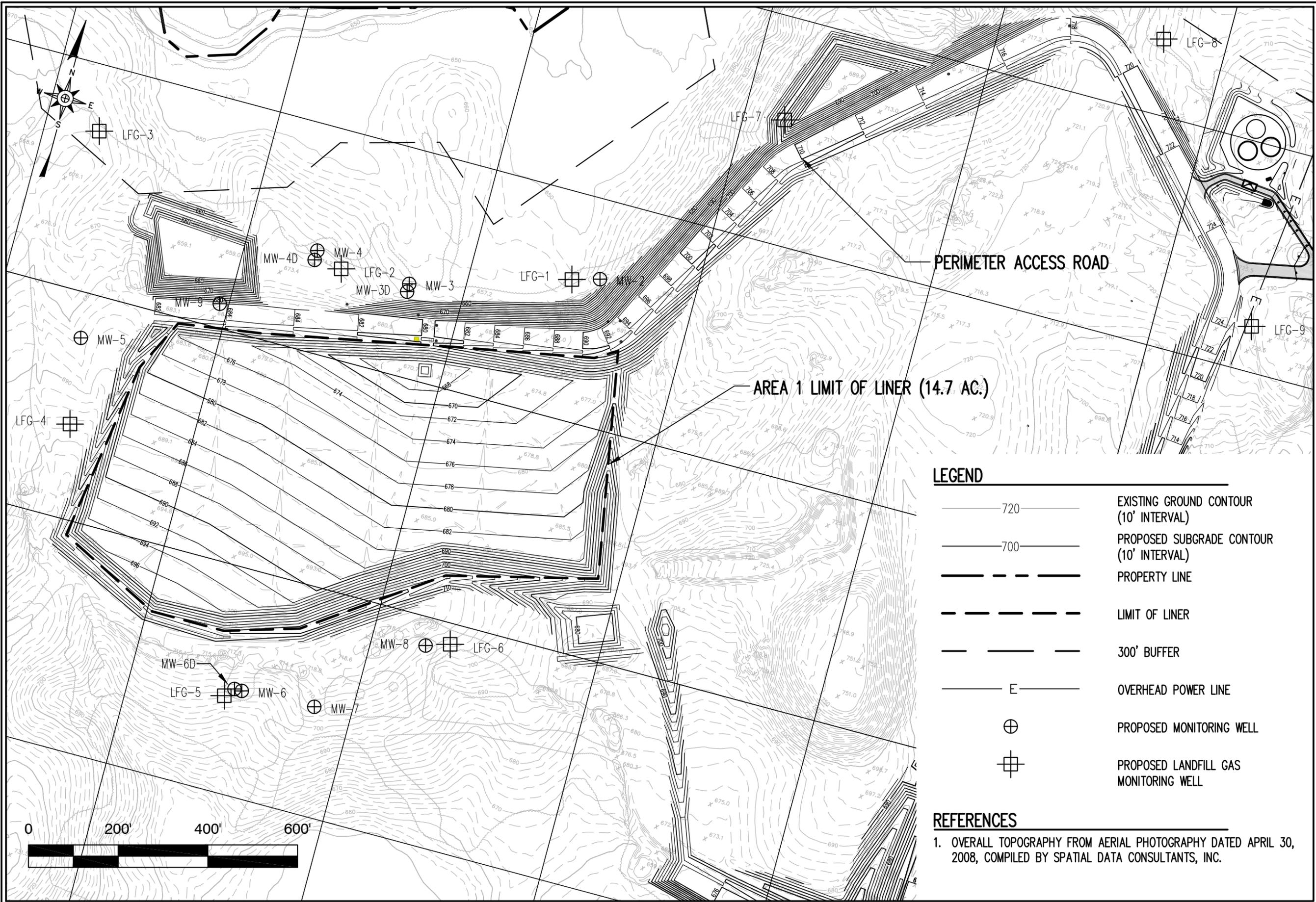


Joan A. Smyth, P.G.
Senior Hydrogeologist

CC: John Murray – NCDENR
Jaclyne Drummond – NCDENR
Charley Brushwood – Davidson County

Figure

G:\CAD\Davidson\Davidco-Alarea 1 Permitsheets\DAVDCO-B0466.dwg - 9/10/2008 5:16 PM



PERIMETER ACCESS ROAD

AREA 1 LIMIT OF LINER (14.7 AC.)

LEGEND

- 720 EXISTING GROUND CONTOUR (10' INTERVAL)
- 700 PROPOSED SUBGRADE CONTOUR (10' INTERVAL)
- PROPERTY LINE
- LIMIT OF LINER
- 300' BUFFER
- OVERHEAD POWER LINE
- PROPOSED MONITORING WELL
- PROPOSED LANDFILL GAS MONITORING WELL

REFERENCES

1. OVERALL TOPOGRAPHY FROM AERIAL PHOTOGRAPHY DATED APRIL 30, 2008, COMPILED BY SPATIAL DATA CONSULTANTS, INC.

RICHARDSON SMITH GARDNER & ASSOCIATES
 www.regengineers.com
 14 N. Boylan Ave.
 Raleigh, N.C. 27603
 ph: 919-828-0577
 fax: 919-828-3899

FIGURE NO.	1	FILE NAME	DAVDCO-B0466
SCALE:	AS SHOWN	PROJECT NO.	DAVDCO-A
CHECKED BY:		DATE:	Sep. 2008
DRAWN BY:	J.A.L.		

**DAVIDSON COUNTY
 MSW LANDFILL PHASE 2
 AREA 1
 PROPOSED WELLS**

Attachment 1
Ground Water Monitoring Well Boring Logs



Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

MW-2

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA**

FIELD PARTY: **David Barron**

GEOLOGIST: **Clark Wipfield**

DATE BEGUN: **8/12/08** DATE COMPLETED: **8/12/08**

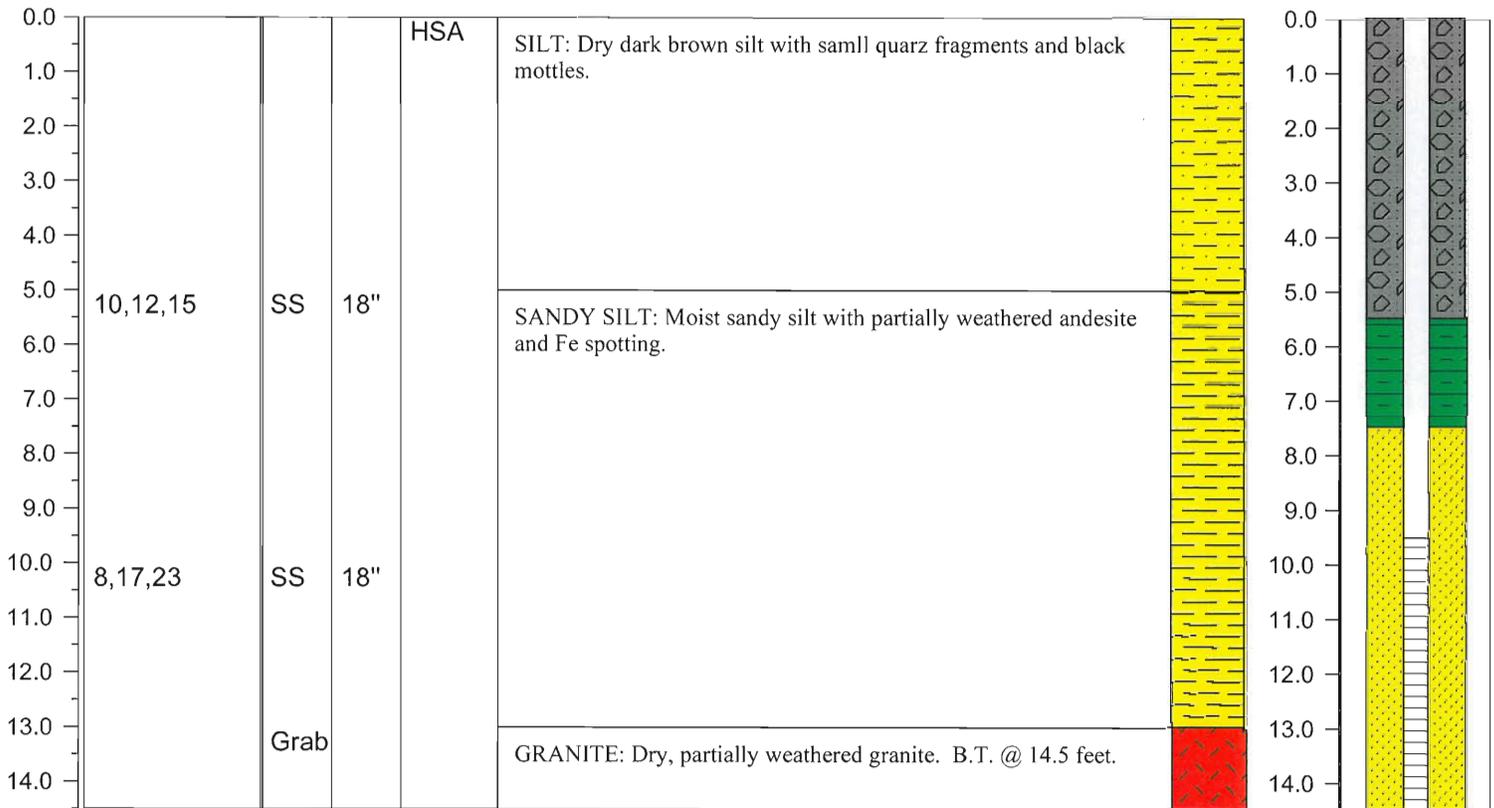
TOTAL DEPTH: **14.5**

GROUND SURFACE ELEVATION:

TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)	13.06	
Time	11:00 am	
Date	8/12/08	

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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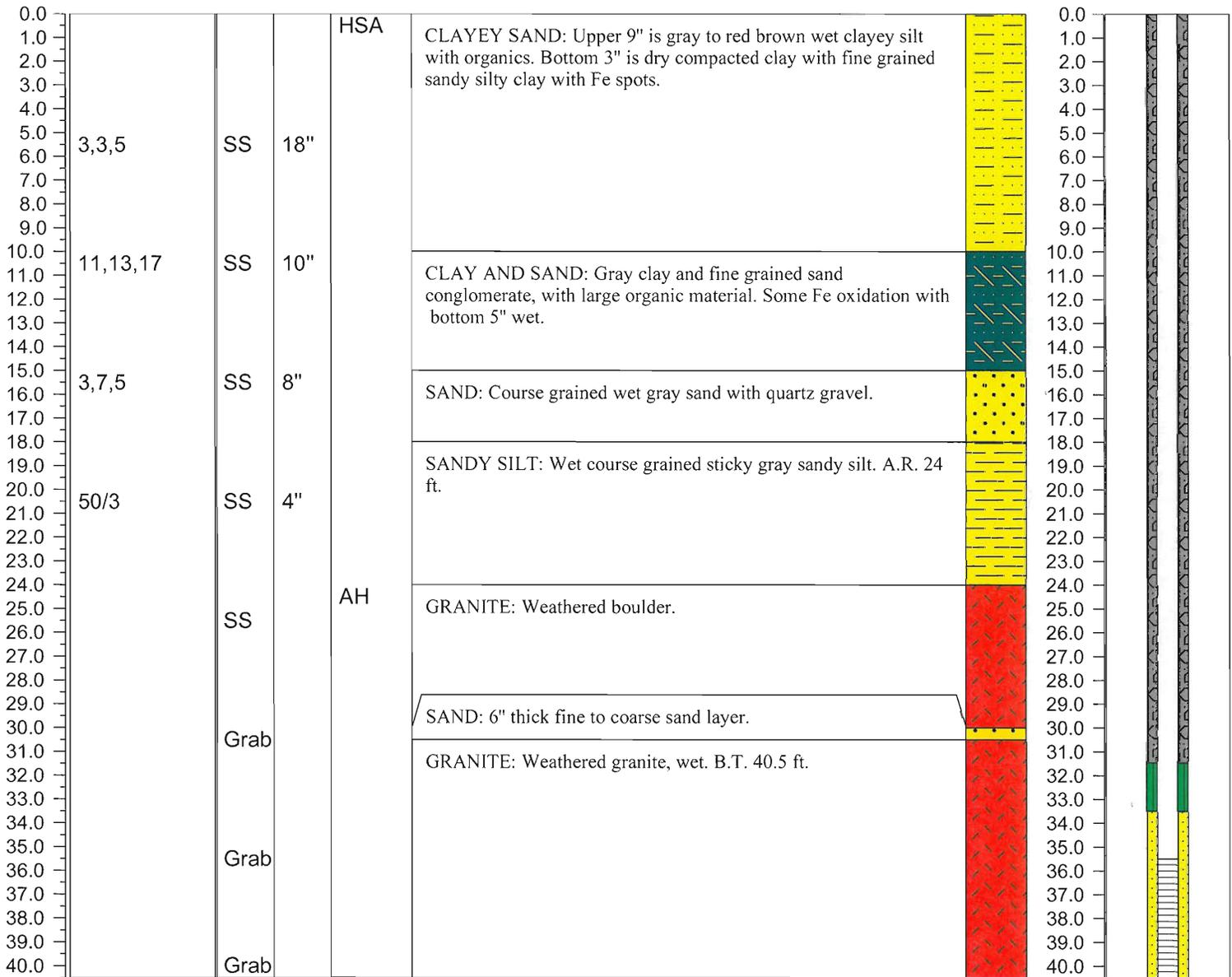


PROJECT NAME: **Davidson County Landfill**
 LOCATION: **Davidson County**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **Daivd Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/26/08** DATE COMPLETED: **3/26/08**

TOTAL DEPTH: **40.5 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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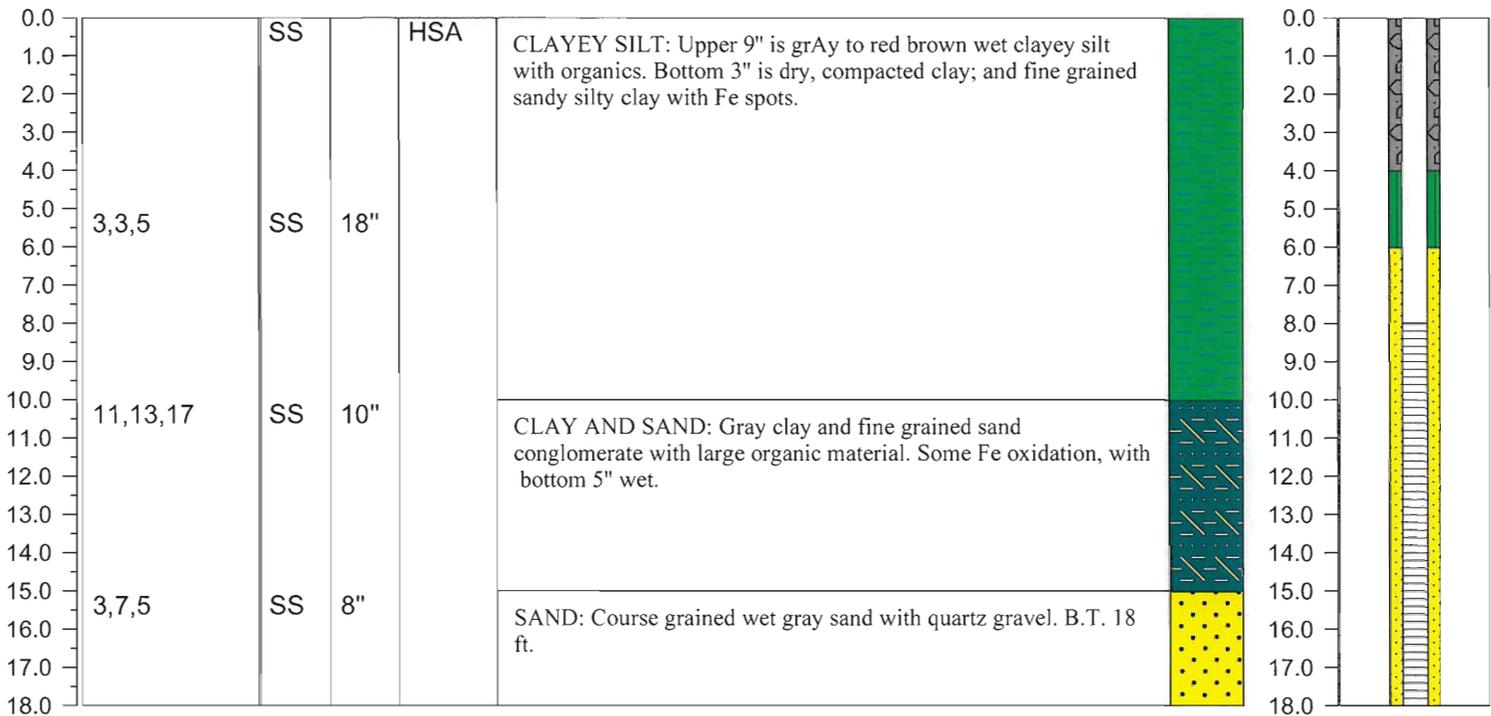


PROJECT NAME: **Davidson County**
 LOCATION: **Davidson County Landfill**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/24/08** DATE COMPLETED: **3/24/08**

TOTAL DEPTH: **18 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)	6.21	
Time	1:10pm	
Date	3/27/08	

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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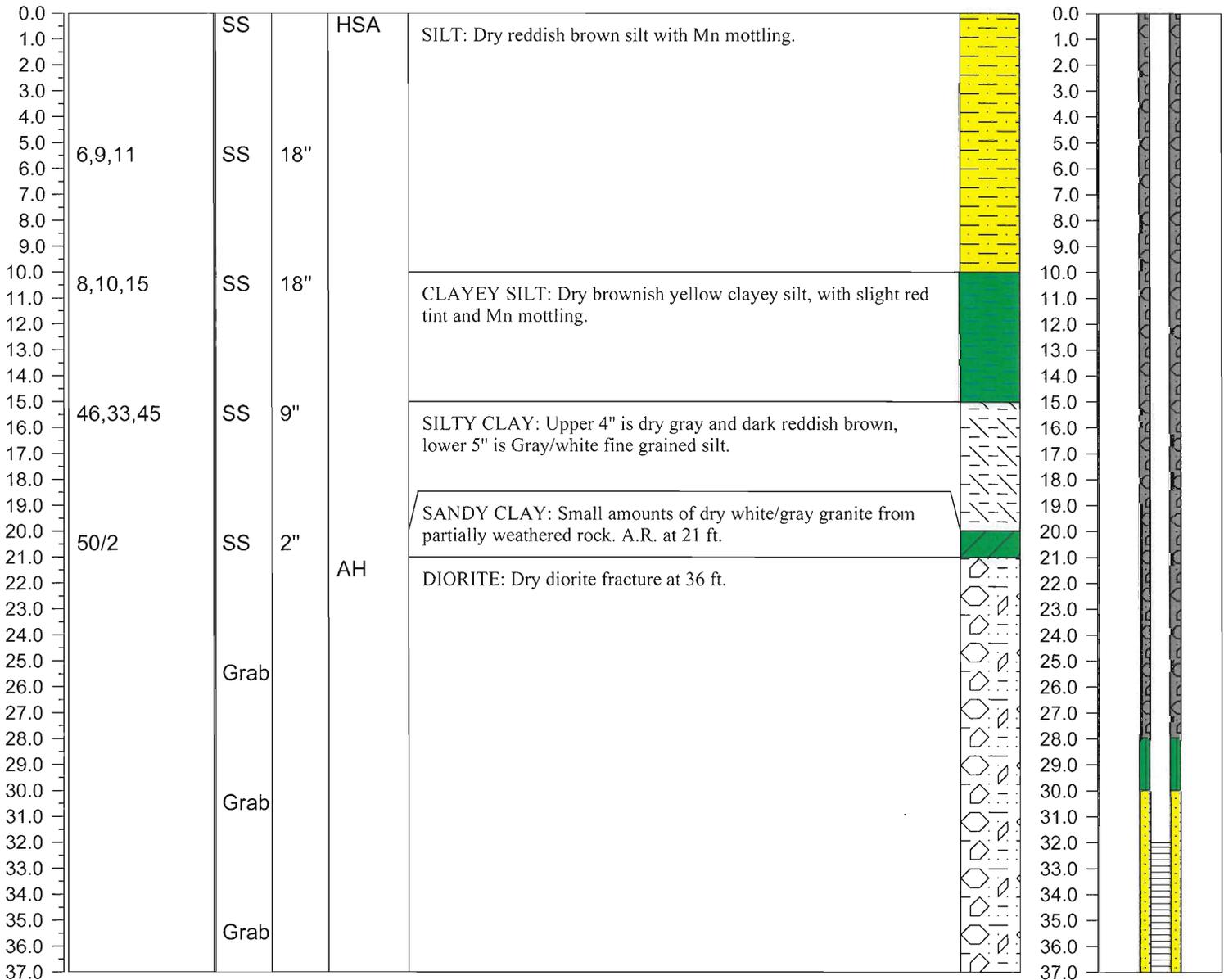
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County**
 LOCATION: **Davidson County Landfill**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA and AH**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/26/08** DATE COMPLETED: **3/26/08**

TOTAL DEPTH: **37 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

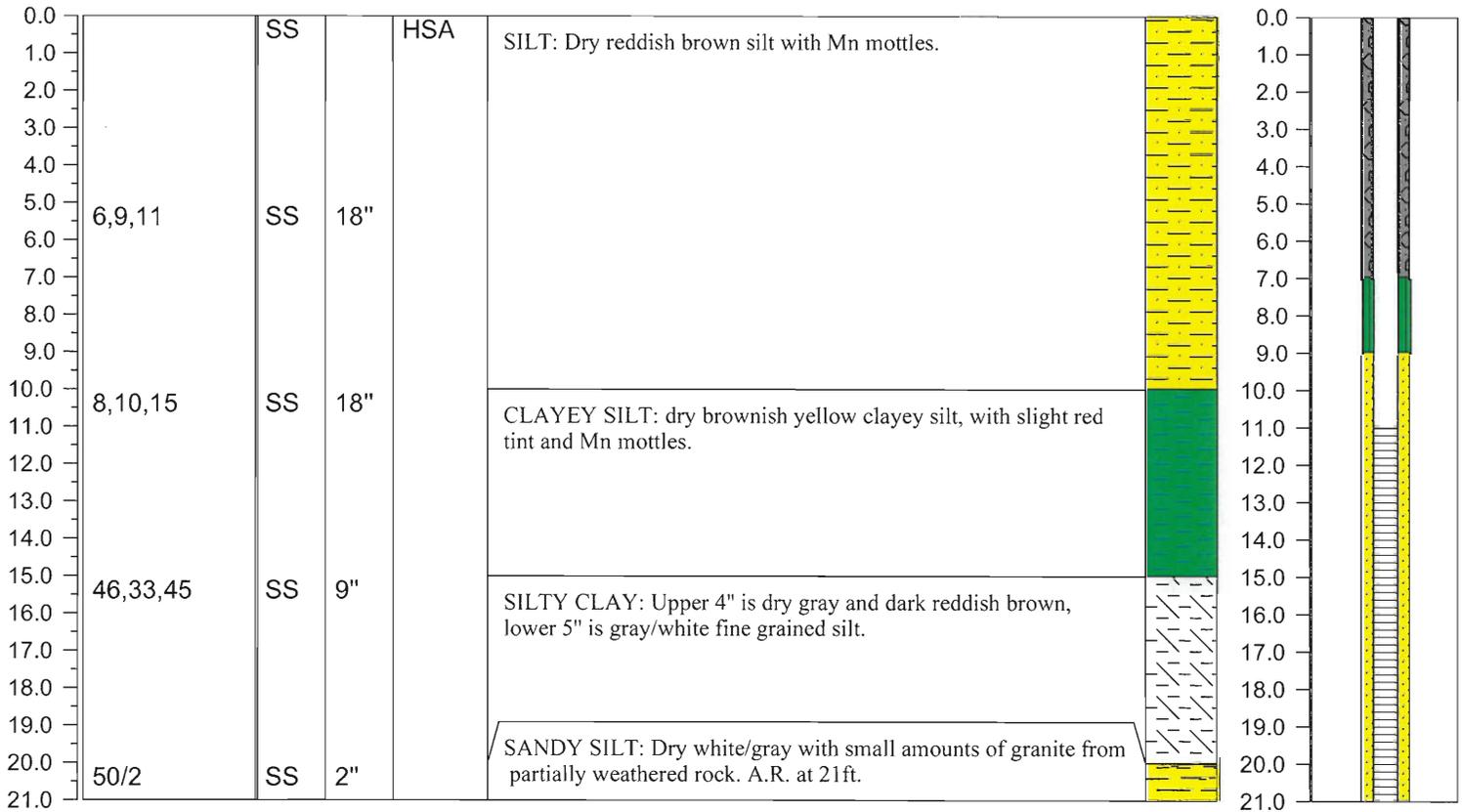
BOREHOLE NUMBER **MW-4s** Page 1 of 1

PROJECT NAME: **Davidson County**
LOCATION: **Davidson County Landfill**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **HSA**
FIELD PARTY: **David Barron**
GEOLOGIST: **Clark Wipfield**
DATE BEGUN: **3/24/08** DATE COMPLETED: **3/24/08**

TOTAL DEPTH: **21**
GROUND SURFACE ELEVATION:
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)	18.97	
Time	1:30pm	
Date	3/27/08	

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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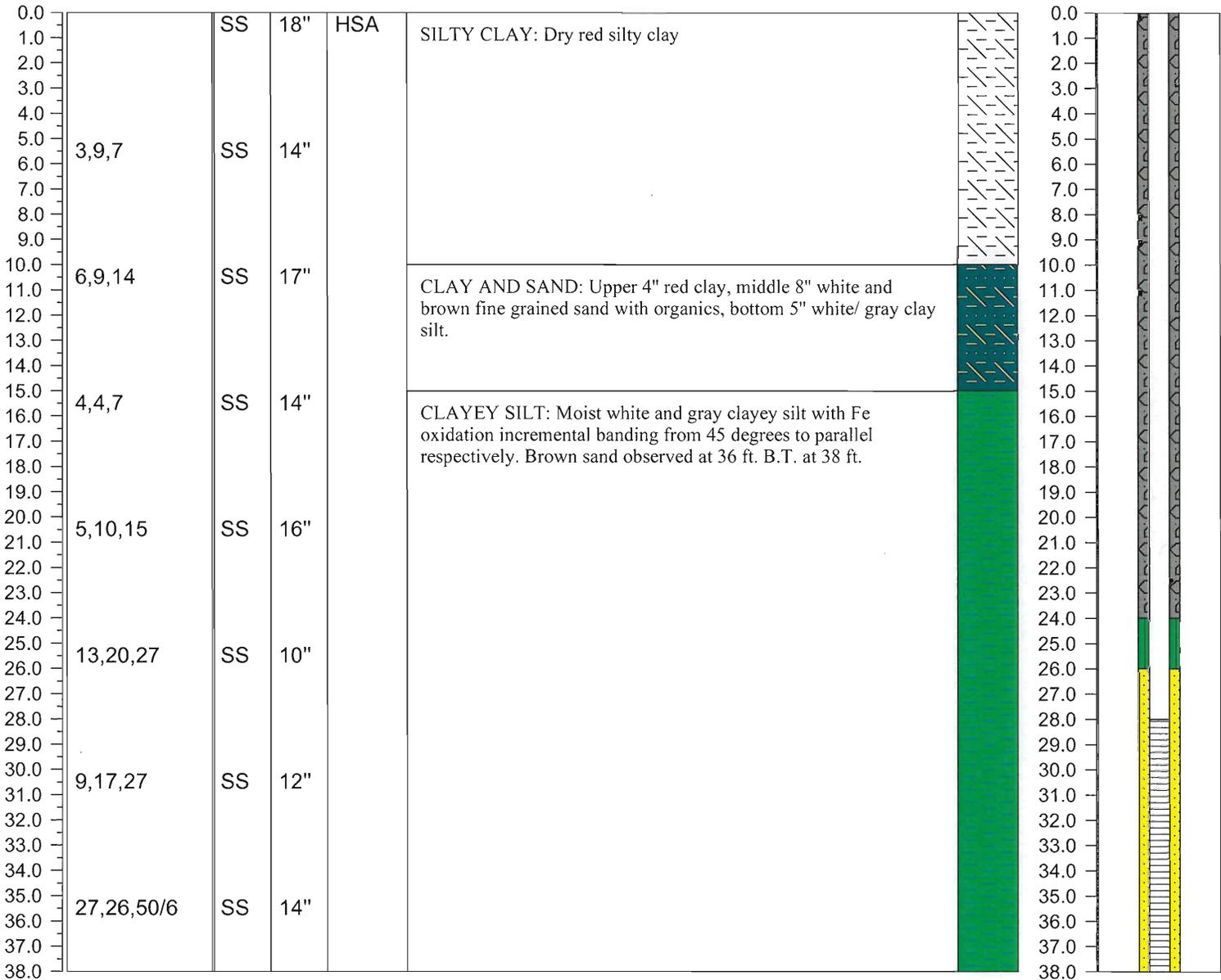


PROJECT NAME: **Davidson County**
 LOCATION: **Davidson County Landfill**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/24/08** DATE COMPLETED: **3/24/08**

TOTAL DEPTH: **38 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)	27.77	
Time	1:40pm	
Date	3/27/08	

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County Landfill**
 LOCATION: **Davidson County**
 DRILLING CO: **Engineering Tectoncis, P.A.**
 DRILLING METHOD: **HSA and AH**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/27/08** DATE COMPLETED: **3/27/08**

TOTAL DEPTH: **70.5 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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0.0				HSA	SANDY SILT: Brownish fine grained yellow sandy silt with Mn spots in upper 10". Lower portion is white/ gray compacted fine grained sandy silt quartz fragments increase in size with depth. Increased percent of Fe banding and oxidation with depth.		0.0	
1.0							1.0	
2.0							2.0	
3.0							3.0	
4.0							4.0	
5.0	28,37,50/1	SS	13"				5.0	
6.0					6.0			
7.0					7.0			
8.0					8.0			
9.0					9.0			
10.0	20,36,31	SS	17"		10.0			
11.0					11.0			
12.0					12.0			
13.0					13.0			
14.0					14.0			
15.0	23,36,50/6	SS	14"		15.0			
16.0					16.0			
17.0					17.0			
18.0					18.0			
19.0					19.0			
20.0	32,44,50/5	SS	18"		20.0			
21.0					21.0			
22.0					22.0			
23.0					23.0			
24.0					24.0			
25.0	50/5	SS	18"		25.0			
26.0				SILT: Upper 14" is sticky wet viscous silt with Fe oxidation. Lower 4" hard compact gray/white silt.	26.0			
27.0					27.0			
28.0					28.0			
29.0					29.0			
30.0	29,32,50/4	SS	12"		30.0			
31.0				SANDY SILT: Brownish yellow sandy silt with Fe oxidation and quartz bands at 45 degree angles.	31.0			
32.0					32.0			
33.0					33.0			
34.0					34.0			
35.0	28,50/5	SS	10"		35.0			
36.0				GRAVEL AND SAND: Upper 4" wet gravel with large rock with medium grained sand. Lower 6" poorly sorted, mostly white silty	36.0			
37.0					37.0			

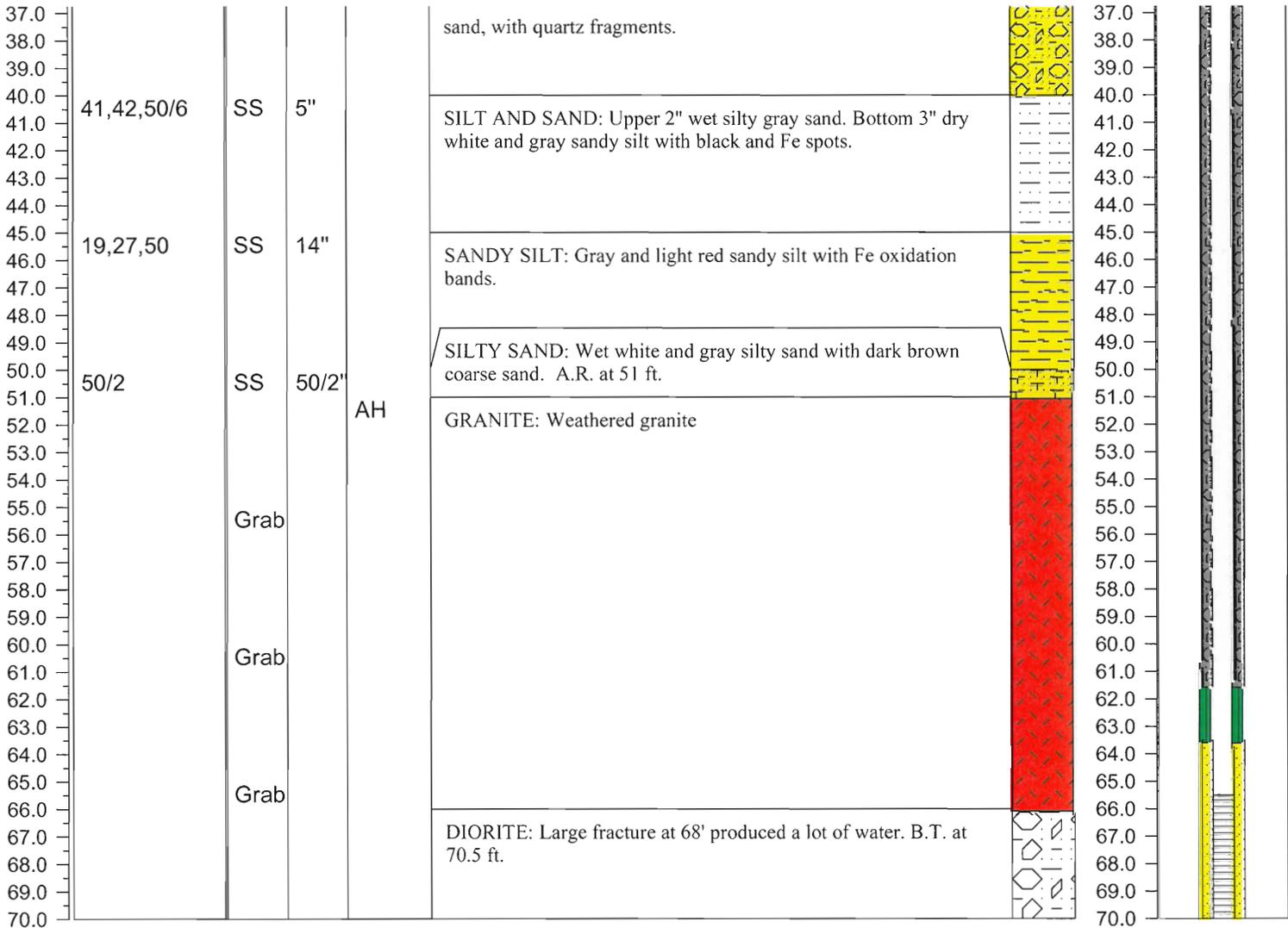


PROJECT NAME: **Davidson County Landfill**
 LOCATION: **Davidson County**
 DRILLING CO: **Engineering Tectoncis, P.A.**
 DRILLING METHOD: **HSA and AH**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/27/08** DATE COMPLETED: **3/27/08**

TOTAL DEPTH: **70.5 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL	INSTALLATION
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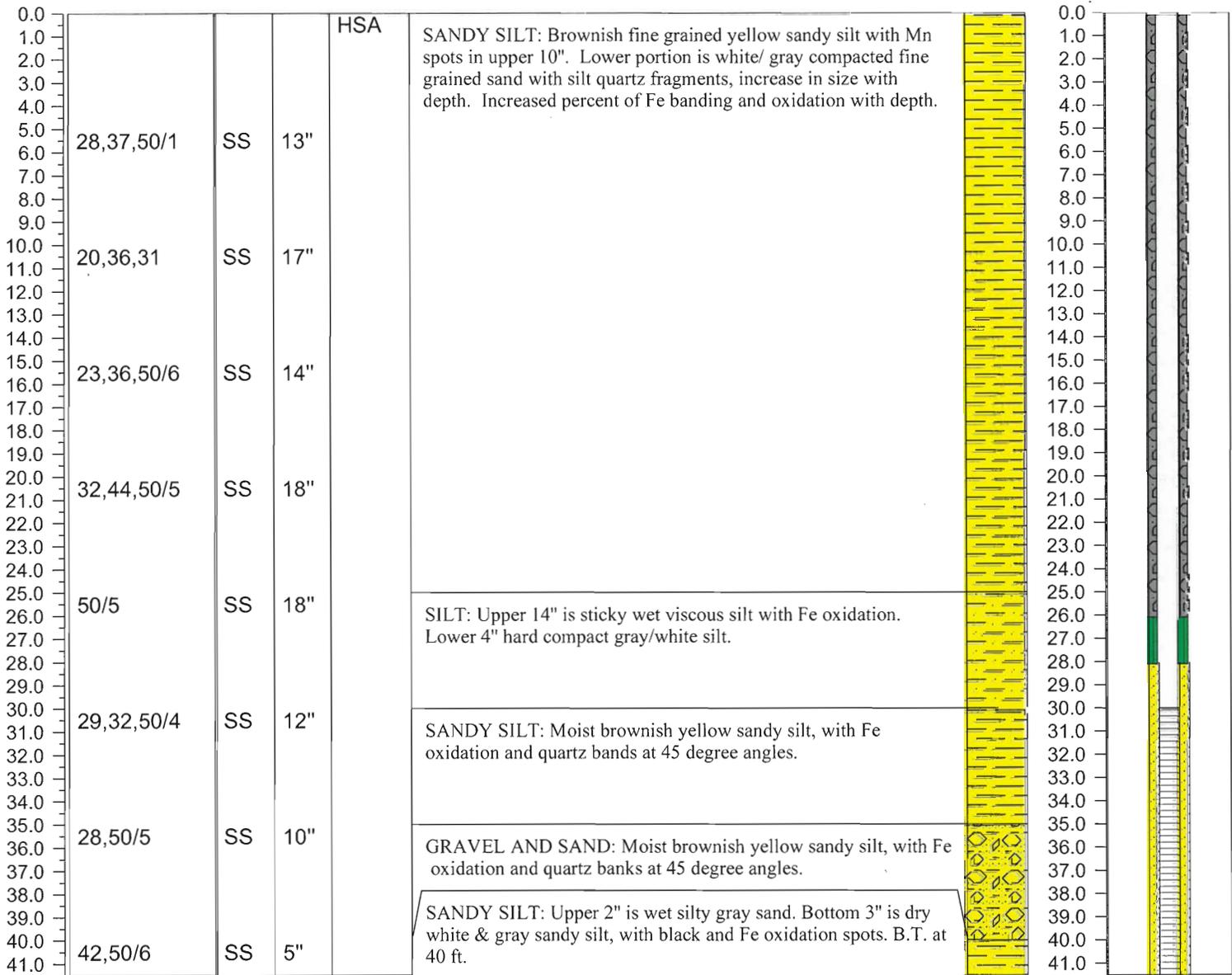
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County**
 LOCATION: **Davidson County Landfill**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/25/08** DATE COMPLETED: **3/25/08**

TOTAL DEPTH: **40 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)	33.60	
Time	2:00pm	
Date	3/27/08	

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL	INSTALLATION
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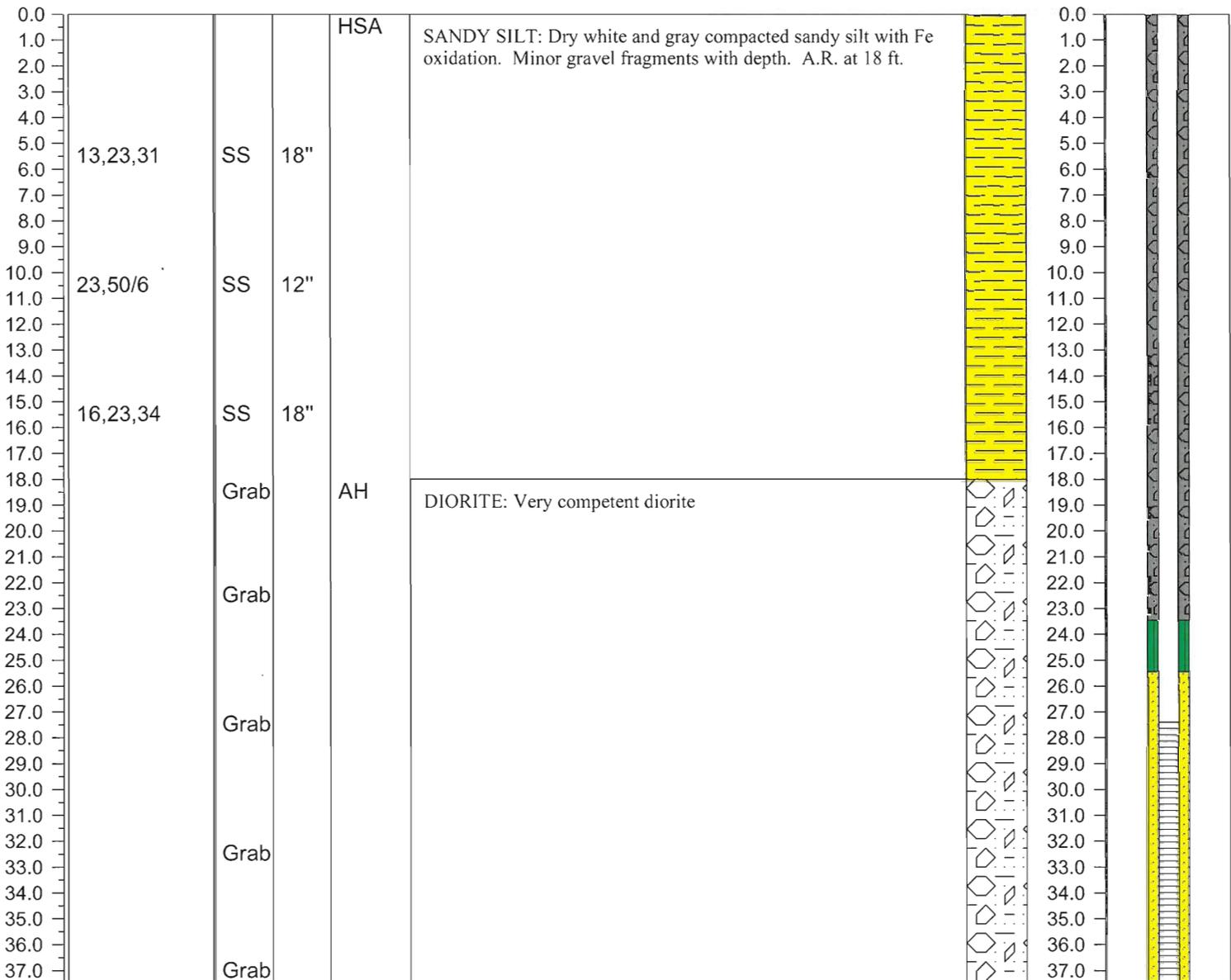


PROJECT NAME: **Davidson County Landfill**
 LOCATION: **Holy Springs, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA and AH**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **3/24/08** DATE COMPLETED: **3/25/08**

TOTAL DEPTH: **37.4**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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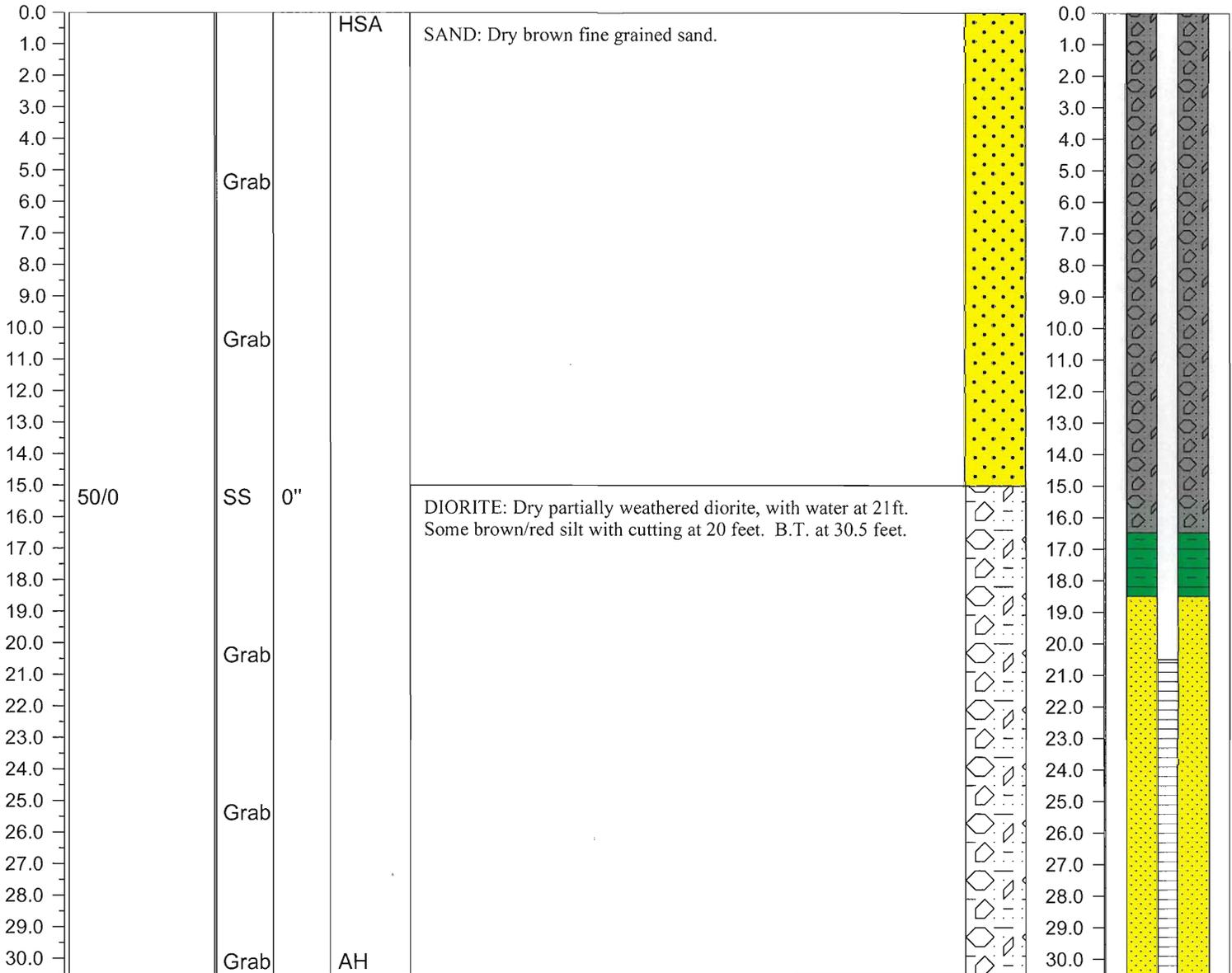
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA/AH**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **8/12/08** DATE COMPLETED: **8/14/08**

TOTAL DEPTH: **30.5**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)	19.35	
Time	2:30 pm	
Date	8/14/08	

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Attachment 2
Landfill Gas Probe Boring Logs



Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

LFG-1

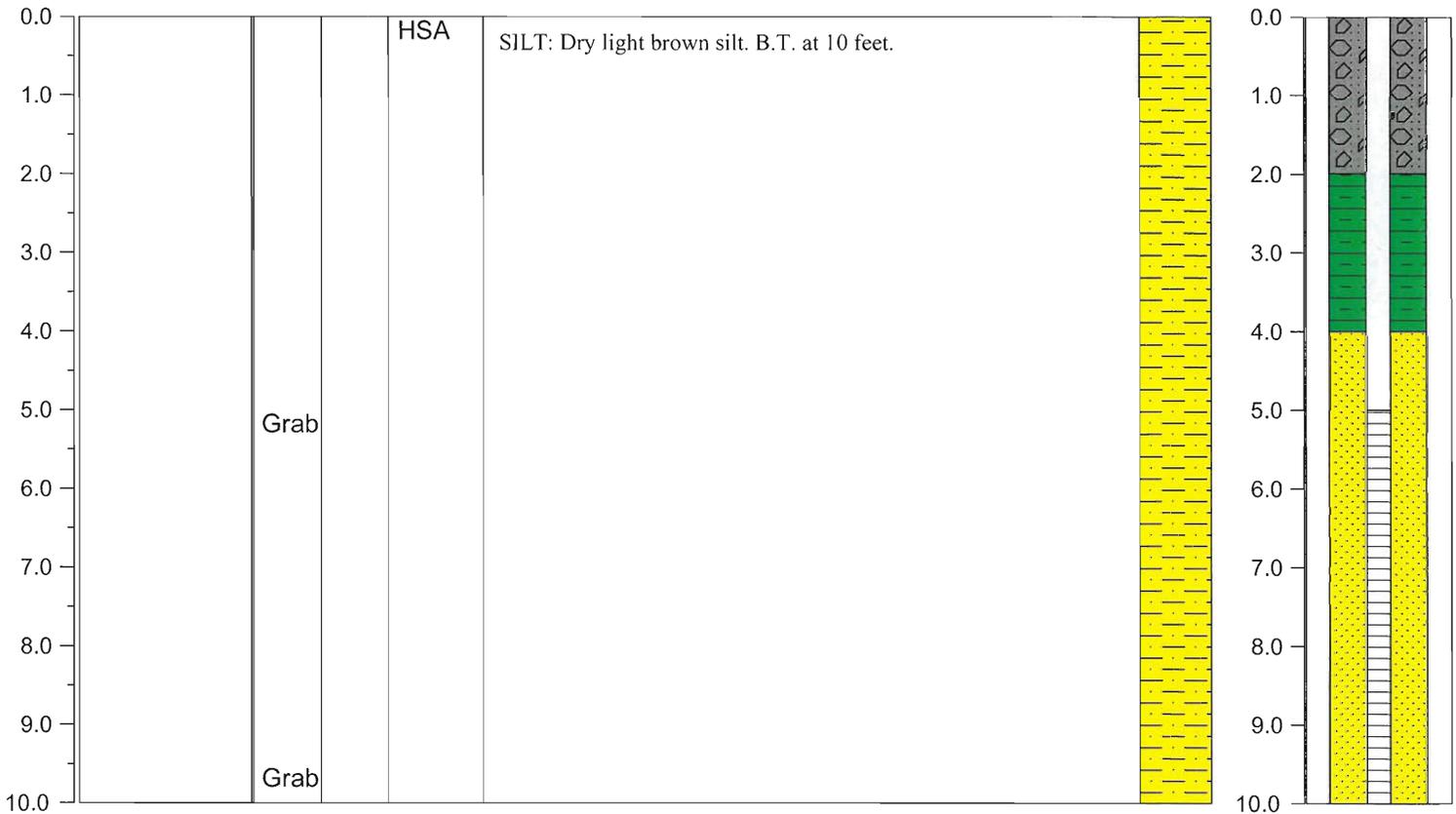
Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **8/13/08** DATE COMPLETED: **8/13/08**

TOTAL DEPTH: **10**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

LFG-2

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA**

FIELD PARTY: **David Barron**

GEOLOGIST: **Clark Wipfield**

DATE BEGUN: **8/12/08** DATE COMPLETED: **8/13/08**

TOTAL DEPTH: **18 ft.**

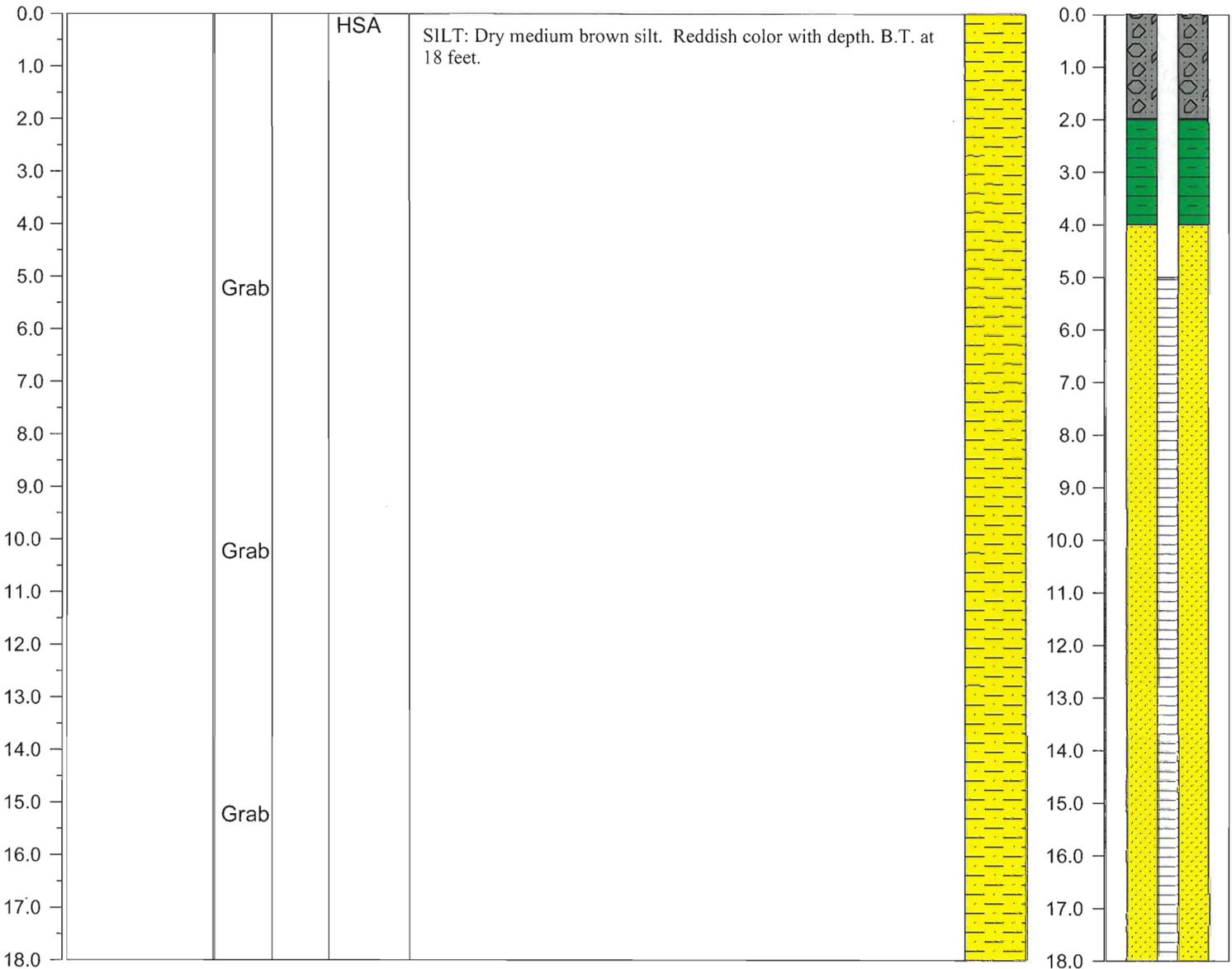
GROUND SURFACE ELEVATION:

TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)

Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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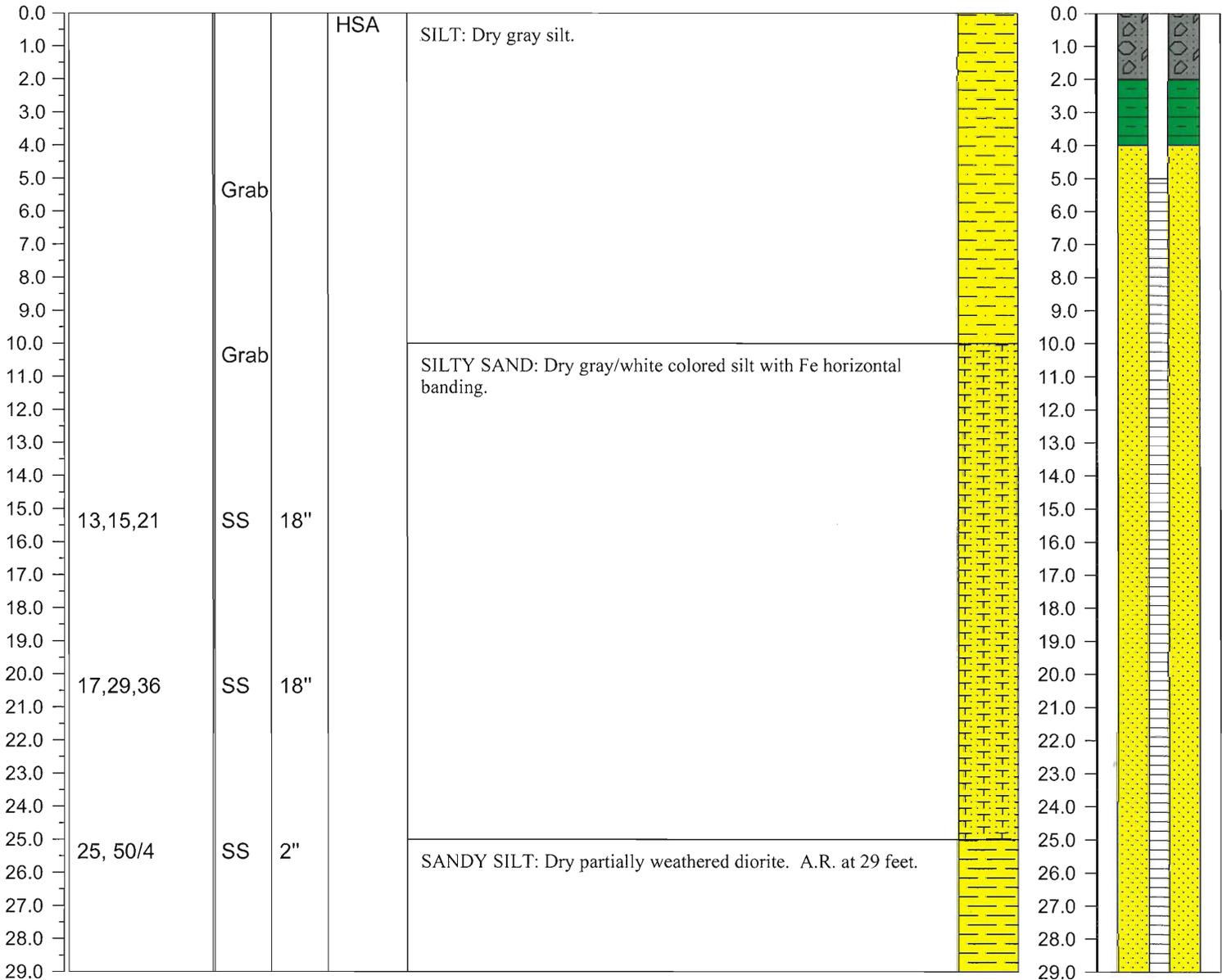
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **8/12/08** DATE COMPLETED: **8/13/08**

TOTAL DEPTH: **29**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

LFG-4

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA**

FIELD PARTY: **David Barron**

GEOLOGIST: **Clark Wipfield**

DATE BEGUN: **8/15/08** DATE COMPLETED: **8/15/08**

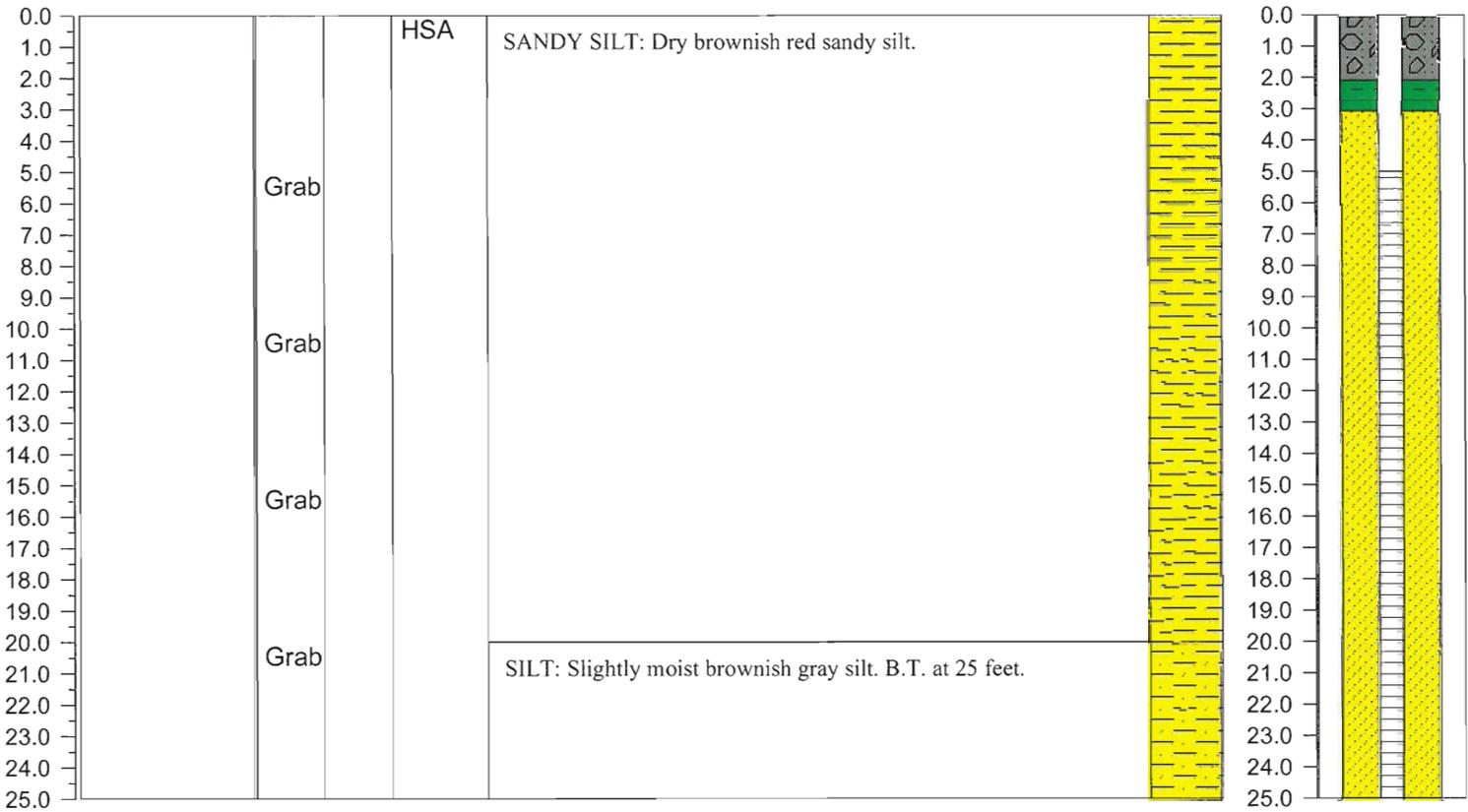
TOTAL DEPTH: **25**

GROUND SURFACE ELEVATION:

TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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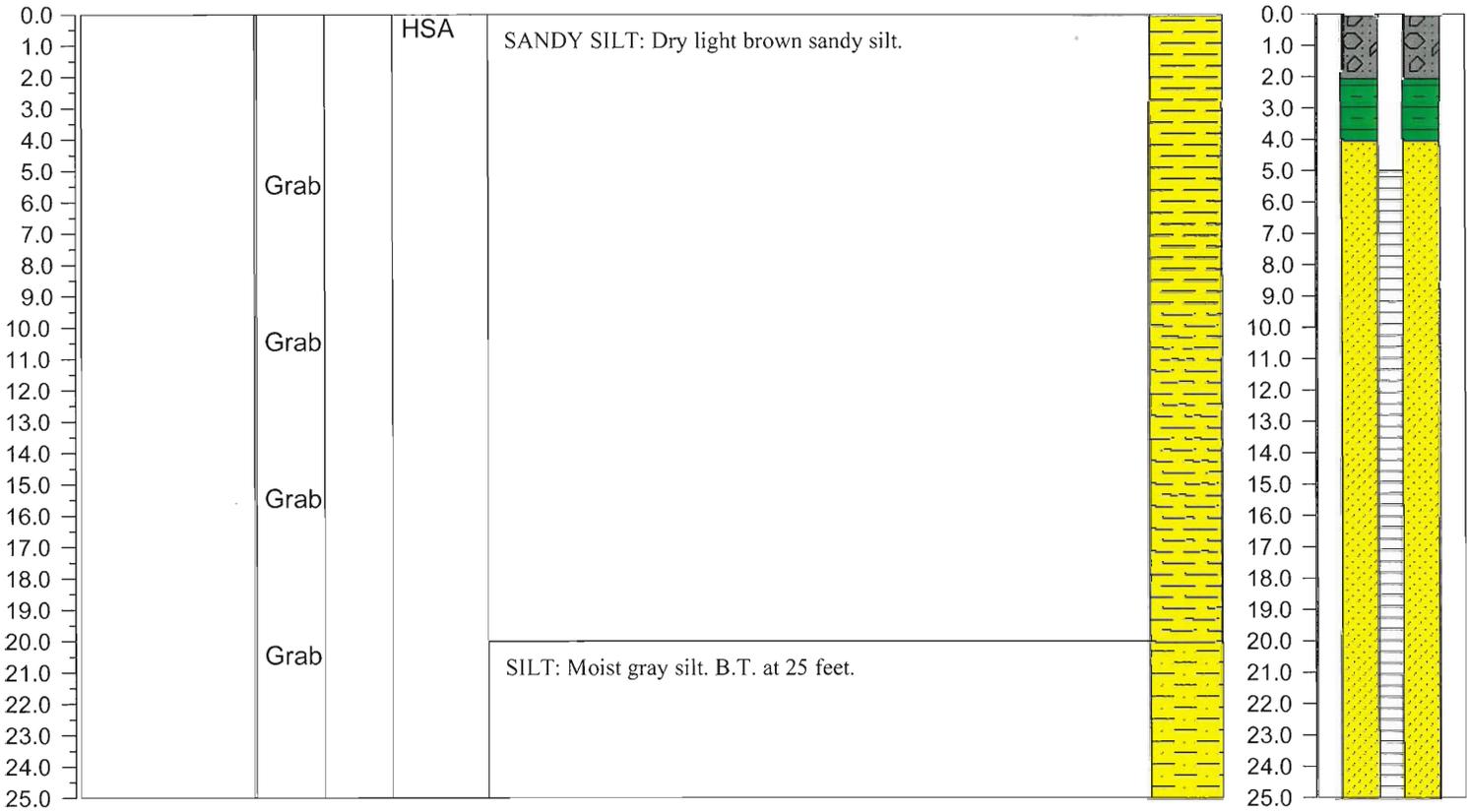


PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **8/15/08** DATE COMPLETED: **8/15/08**

TOTAL DEPTH: **25**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

LFG-6

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA**

FIELD PARTY: **David Barron**

GEOLOGIST: **Clark Wipfield**

DATE BEGUN: **8/15/08** DATE COMPLETED: **8/15/08**

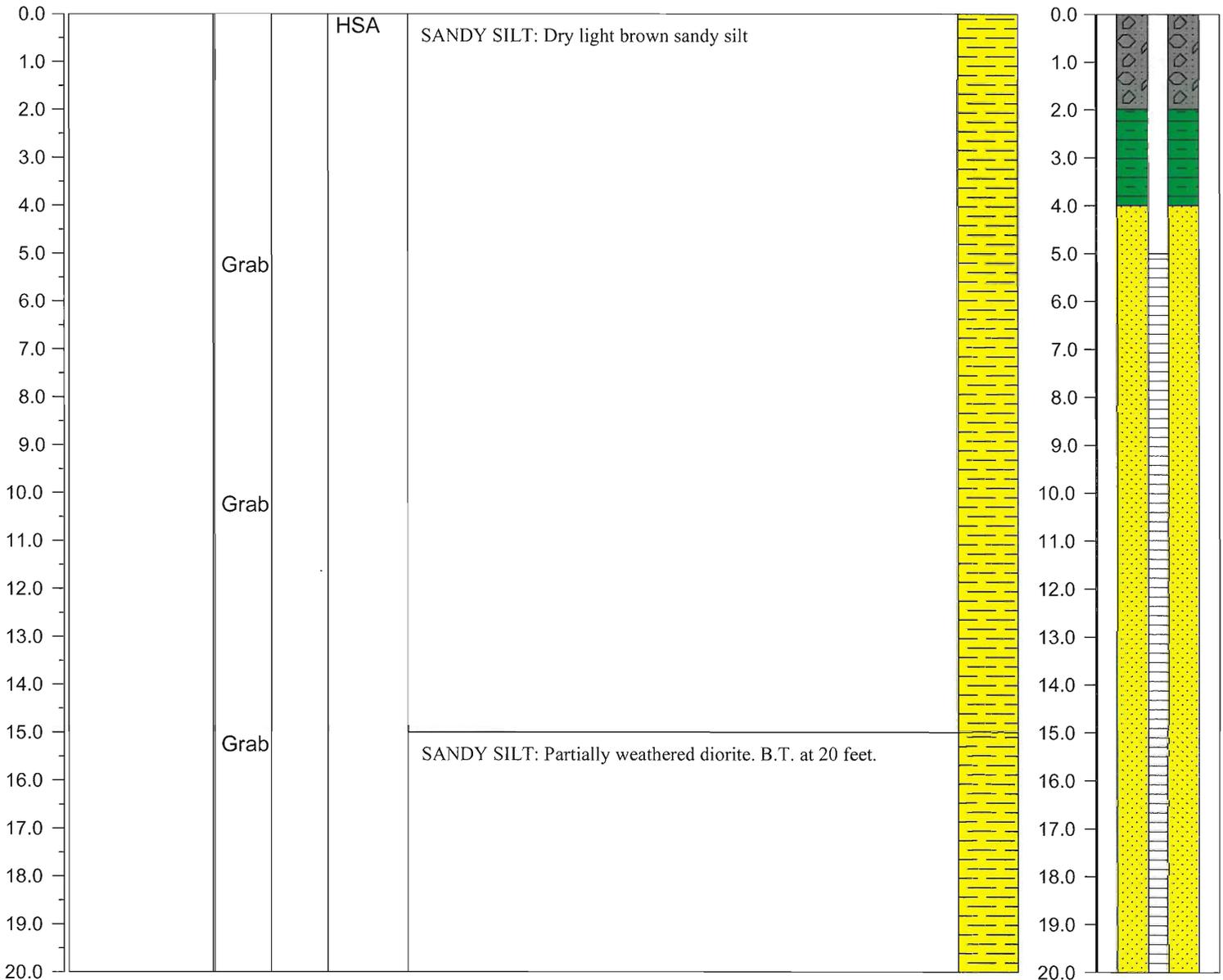
TOTAL DEPTH: **20**

GROUND SURFACE ELEVATION:

TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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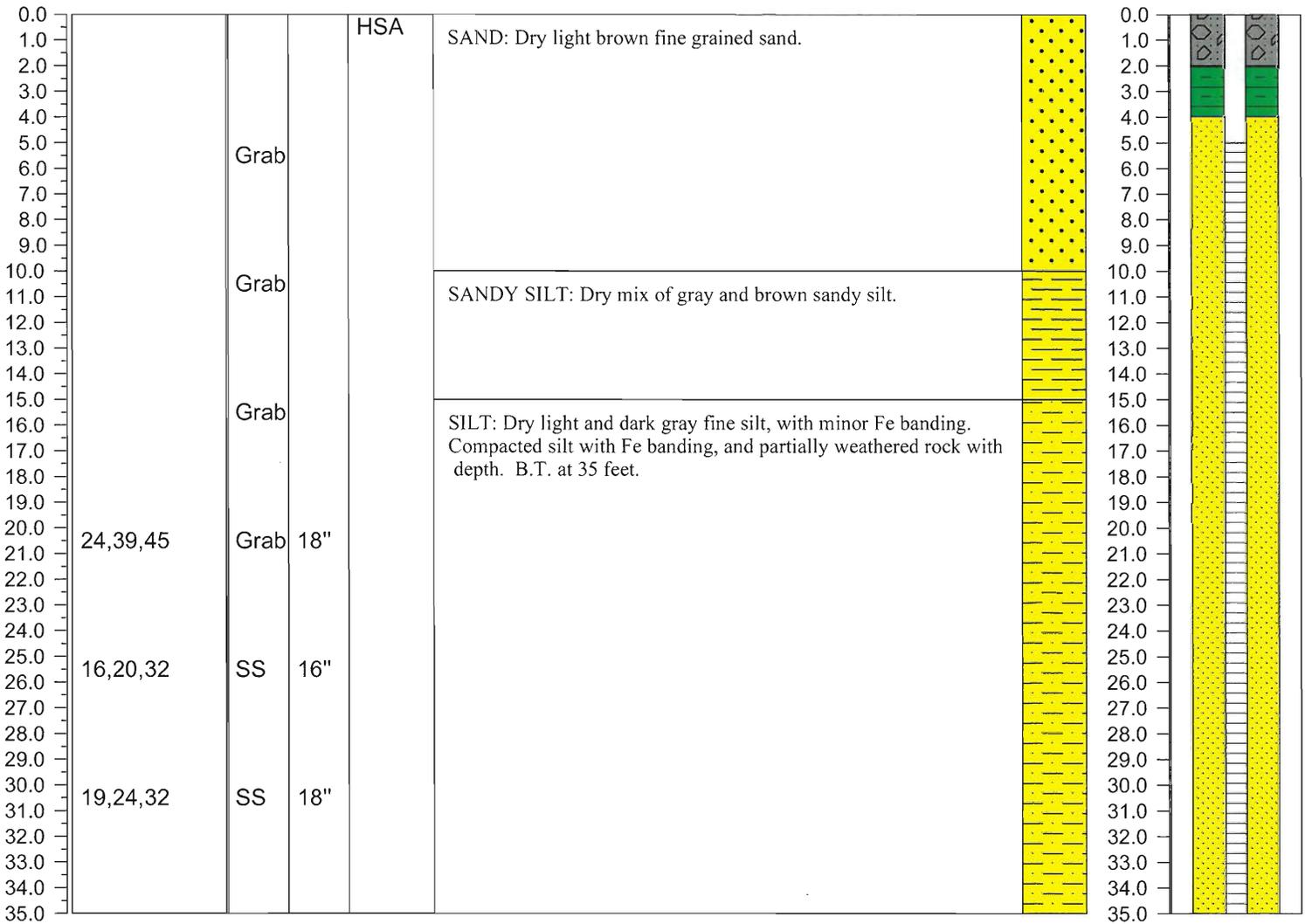
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **David Barron**
 GEOLOGIST: **Clark Wipfield**
 DATE BEGUN: **8/13/08** DATE COMPLETED: **8/14/08**

TOTAL DEPTH: **35 ft.**
 GROUND SURFACE ELEVATION:
 TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

LFG-8

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA**

FIELD PARTY: **David Barron**

GEOLOGIST: **Clark Wipfield**

DATE BEGUN: **8/13/08** DATE COMPLETED: **8/13/08**

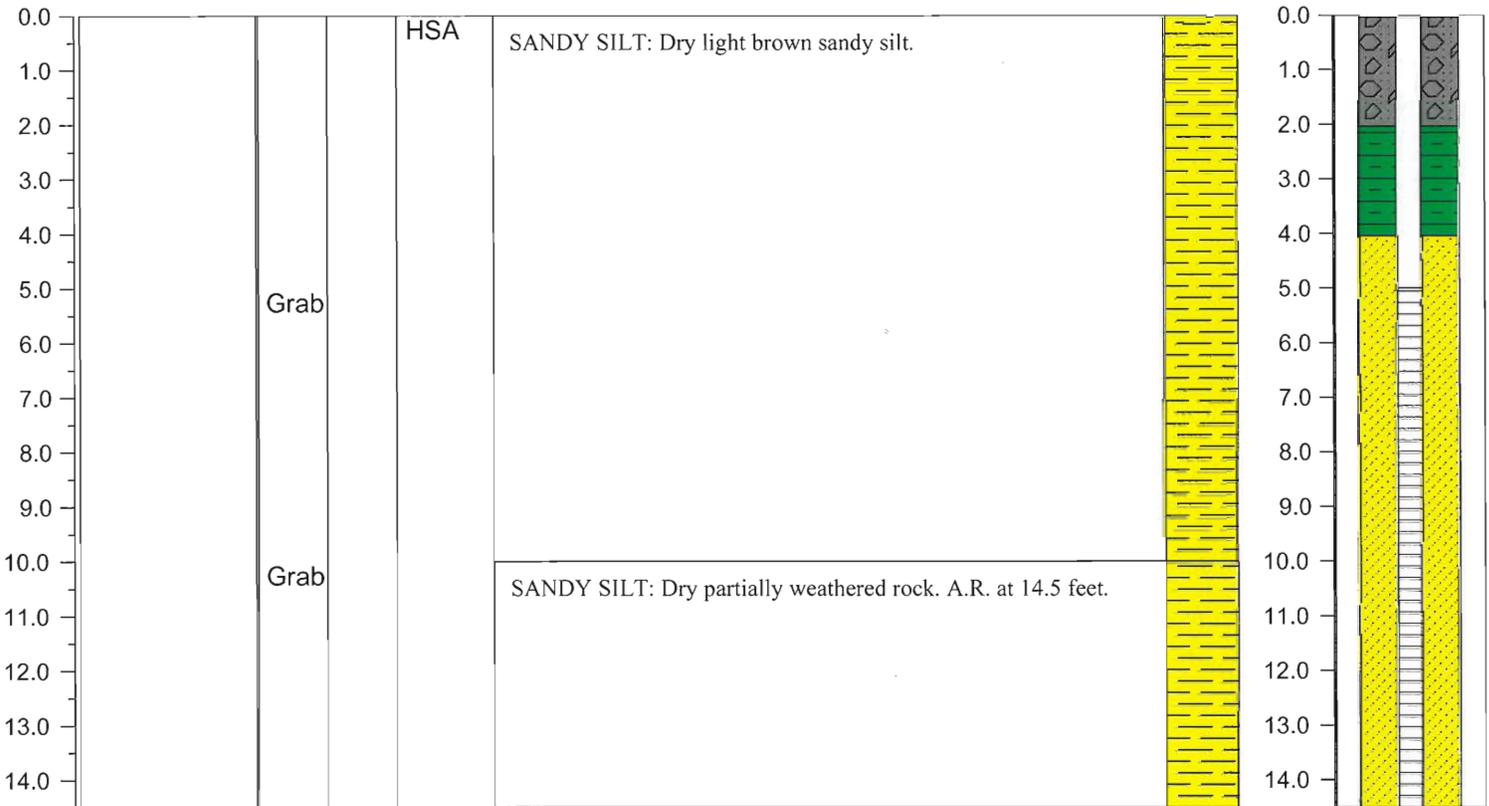
TOTAL DEPTH: **14.5**

GROUND SURFACE ELEVATION:

TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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Richardson Smith Gardner and Assoc

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER

LFG-9

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **RSG Engineers**

DRILLING METHOD: **HSA**

FIELD PARTY: **David Barron**

GEOLOGIST: **Clark Wipfield**

DATE BEGUN: **8/14/08** DATE COMPLETED: **8/15/08**

TOTAL DEPTH: **25**

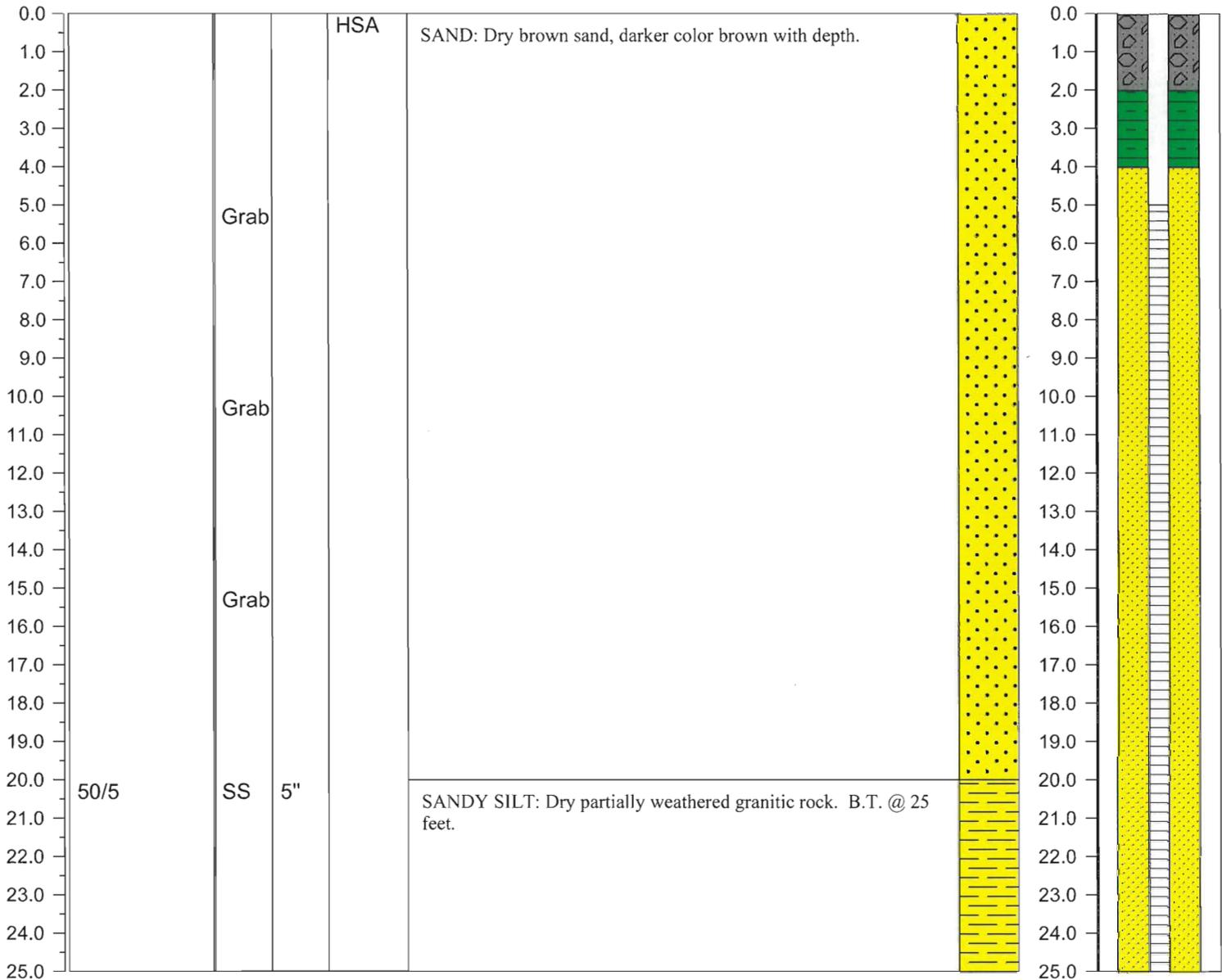
GROUND SURFACE ELEVATION:

TOP OF CASING ELEVATION:

STATIC WATER LEVEL (TOC)

Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2089

1. WELL CONTRACTOR:
DAVID BARRON
 Well Contractor (Individual) Name
Eng. Tectonics
 Well Contractor Company Name
 STREET ADDRESS 1720 VARGRAVE ST.
W-Salem N.C. 27107
 City or Town State Zip Code
336-724-6994
 Area code- Phone number

2. WELL INFORMATION:
 SITE WELL ID #(if applicable) LFGW# 5
 WELL CONSTRUCTION PERMIT #(if applicable)
 OTHER ASSOCIATED PERMIT #(if applicable)

3. WELL USE (Check Applicable Box) Monitoring Municipal/Public
 Industrial/Commercial Agricultural Recovery Injection
 Irrigation Other (list use)
 DATE DRILLED 8-14-08
 TIME COMPLETED 8-19-08 AM PM

4. WELL LOCATION:
 CITY: Thomasville COUNTY DAVIDSON
1160 old Hwy 29 27360-0024
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
 TOPOGRAPHIC / LAND SETTING:
 Slope Valley Flat Ridge Other
 (check appropriate box)
 LATITUDE 35 50 48.33 May be in degrees, minutes, seconds or in a decimal format
 LONGITUDE 80 11 07.27
 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)

5. FACILITY- is the name of the business where the well is located.
 FACILITY ID #(if applicable)
 NAME OF FACILITY DAVIDSON Co. Landfill
 STREET ADDRESS 1160 old Hwy 29
Thomasville NC 27360-0024
 City or Town State Zip Code
 CONTACT PERSON Charlie Brushwood
 MAILING ADDRESS 1242 old Hwy 29
Thomasville N.C. 27360-0024
 City or Town State Zip Code
336-242-2084
 Area code - Phone number

6. WELL DETAILS: 25.0
 a. TOTAL DEPTH:
 b. DOES WELL REPLACE EXISTING WELL? YES NO
 c. WATER LEVEL Below Top of Casing: DRY FT.
 (Use "+" if Above Top of Casing)

d. TOP OF CASING IS +3.0 FT. Above Land Surface*
 *Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): _____ **METHOD OF TEST** _____

f. DISINFECTION: Type _____ Amount _____

g. WATER ZONES (depth):
 From _____ To _____ From _____ To _____
 From _____ To _____ From _____ To _____
 From _____ To _____ From _____ To _____

7. CASING:
 Depth Diameter Thickness/Weight Material
 From +3.0 To 5.0 Ft. 2" sch 40 PVC
 From _____ To _____ Ft. _____ _____
 From _____ To _____ Ft. _____ _____

8. GROUT: Depth Material Method
 From 0 To 2.0 Ft. Portland Tremie
 From 2.0 To 4.0 Ft. Benstonite Tremie
 From _____ To _____ Ft. _____ _____

9. SCREEN: Depth Diameter Slot Size Material
 From 5.0 To 25.0 Ft. 2" in. .010 in. PVC
 From _____ To _____ Ft. _____ in. _____ in. _____
 From _____ To _____ Ft. _____ in. _____ in. _____

10. SAND/GRAVEL PACK:
 Depth Size Material
 From 4.0 To 25.0 Ft. #3 SAND
 From _____ To _____ Ft. _____ _____
 From _____ To _____ Ft. _____ _____

11. DRILLING LOG
 From To Formation Description

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
David Barron 8-20-08
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
DAVID BARRON
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL

