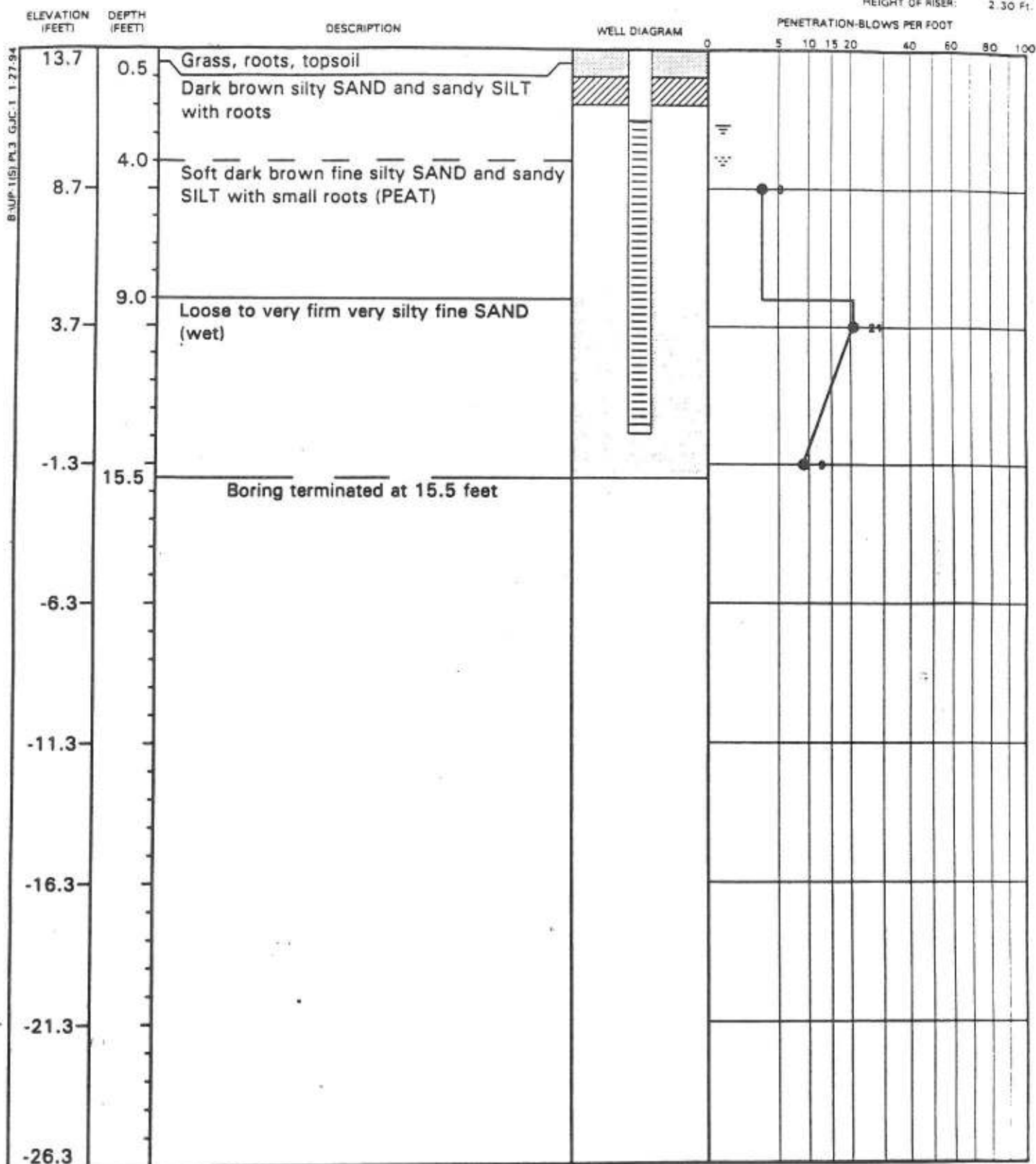


# TEST BORING RECORD

DATUM ELEVATION: 16.04 Ft.  
HEIGHT OF RISER: 2.30 Ft.



## REMARKS:

- 1) Drilling Technique: 0 to 14 feet using 8-inch O.D. hollow stem auger.
- 2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) Water level during drilling.
- 4) Water level measured on 10-7-93.

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(S)
LOGGED BY	D.Allen	DATE STARTED	9-28-93
CHECKED BY	K.Davis	DATE COMPLETED	9-29-93
		JOB NUMBER	55-255310



# TYPE II MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK

WELL NO. UP-1 (S)

JOB NO. 55-355310

DATE 9/29/93

GROUND SURFACE ELEVATION 14.2 NGVD

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS

TOP OF PAD ELEVATION 14.25 NGVD

CEMENT TYPE PORTLAND TYPE I

TOP OF CASING ELEVATION 16.48 NGVD

BOREHOLE DIAMETER 8-INCH

TYPE SAND PACK GRANULAR GRADATION 20/30

SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH

SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL

LAW ENVIRONMENTAL, INC.

FIELD REPRESENTATIVE DAVID ALLEN

MANUFACTURER DRILLERS SERVICE, INC.

DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA

RISER MATERIAL TYPE 304 STAINLESS STEEL

AMOUNT BENTONITE USED 0.16 FT³

MANUFACTURER DRILLERS SERVICE, INC.

AMOUNT CEMENT USED 0.16 FT³

RISER DIAMETER 2-INCH

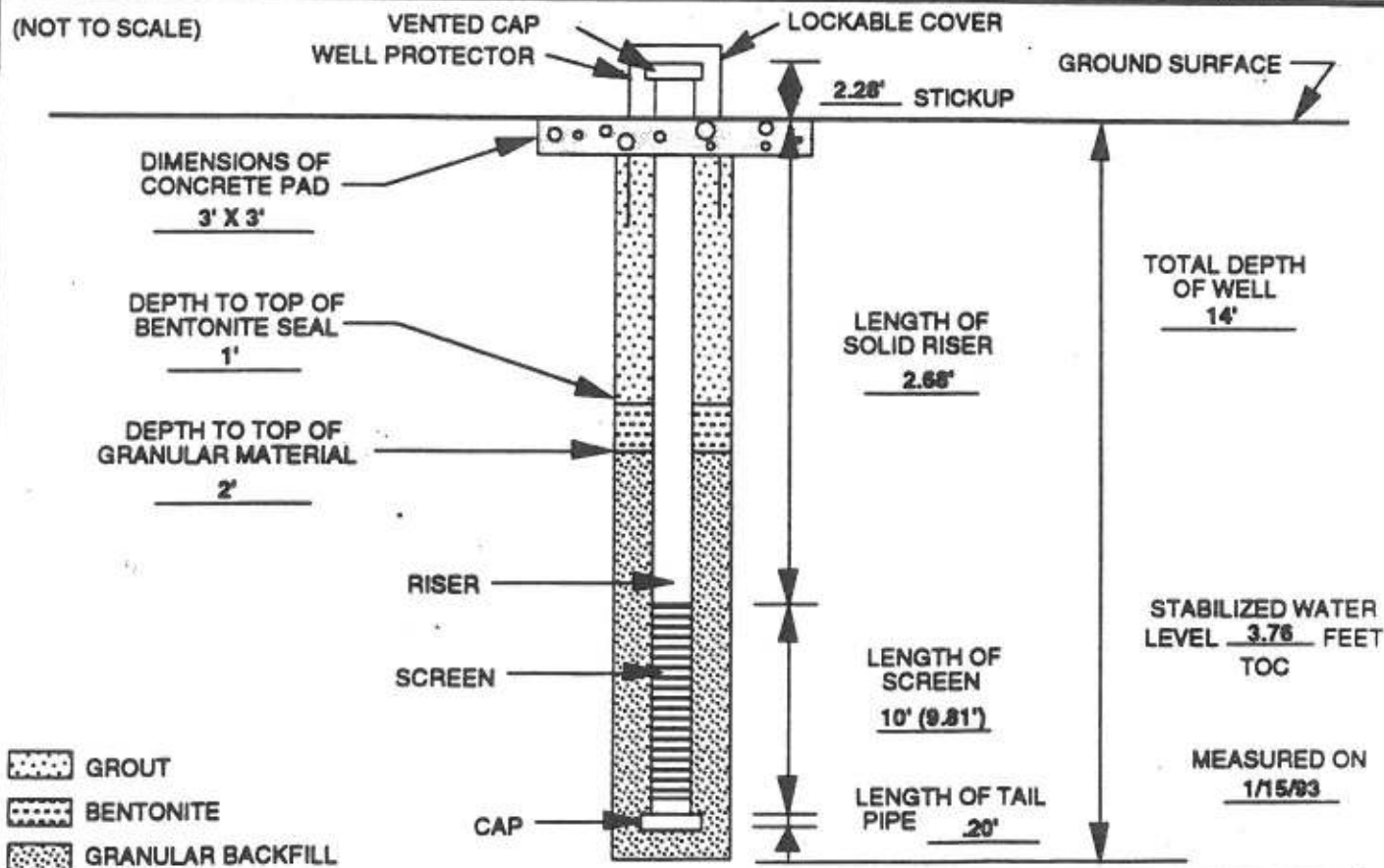
AMOUNT SAND USED 1.9 FT³

DRILLING TECHNIQUE CONVENTIONAL AUGER

BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM

STATIC WATER DEPTH (after dev.) 5.2 FT

(NOT TO SCALE)



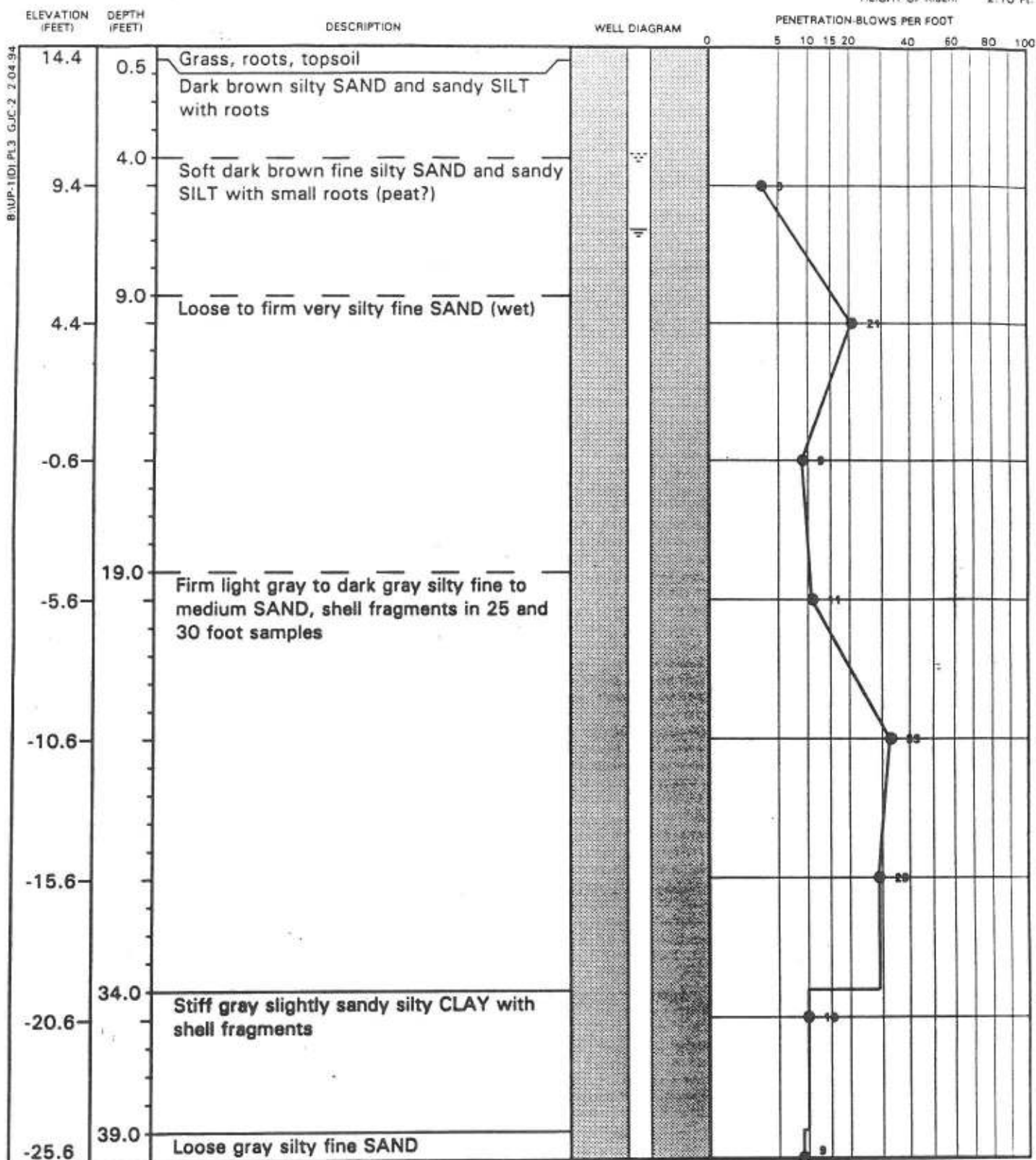
INSTALLED BY: DAVID ALLEN

CHECKED BY: GREG MONNETT

DATE: 1/26/94

# TEST BORING RECORD

DATUM ELEVATION: 16.48 Ft.  
HEIGHT OF RISER: 2.10 Ft.



## REMARKS:

- 1) Drilling Technique: 0-95 feet using 5 7/8-inch tricone roller bit.
- 2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) ∇ Water level during drilling.
- 4) = Water level on 10-7-93.
- 5) Soil descriptions: 0-15 feet from UP-1(S).

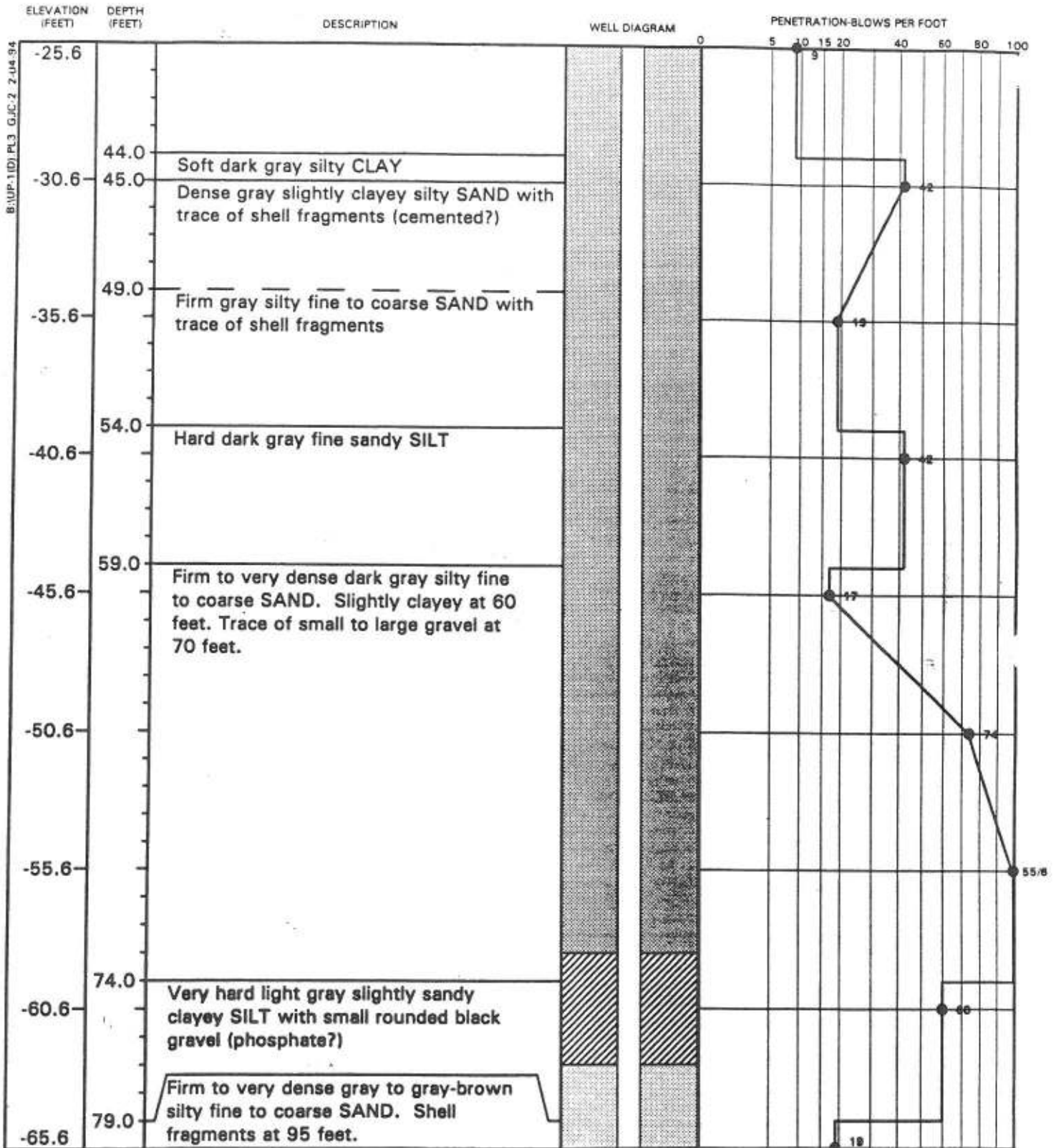
DRILLED BY  
LOGGED BY  
CHECKED BY

LAW-ATL BORING NUMBER  
D.Allen DATE STARTED  
K.Davis DATE COMPLETED  
JOB NUMBER

UP-1(D)  
9-29-93  
9-30-93  
55-355310



# TEST BORING RECORD



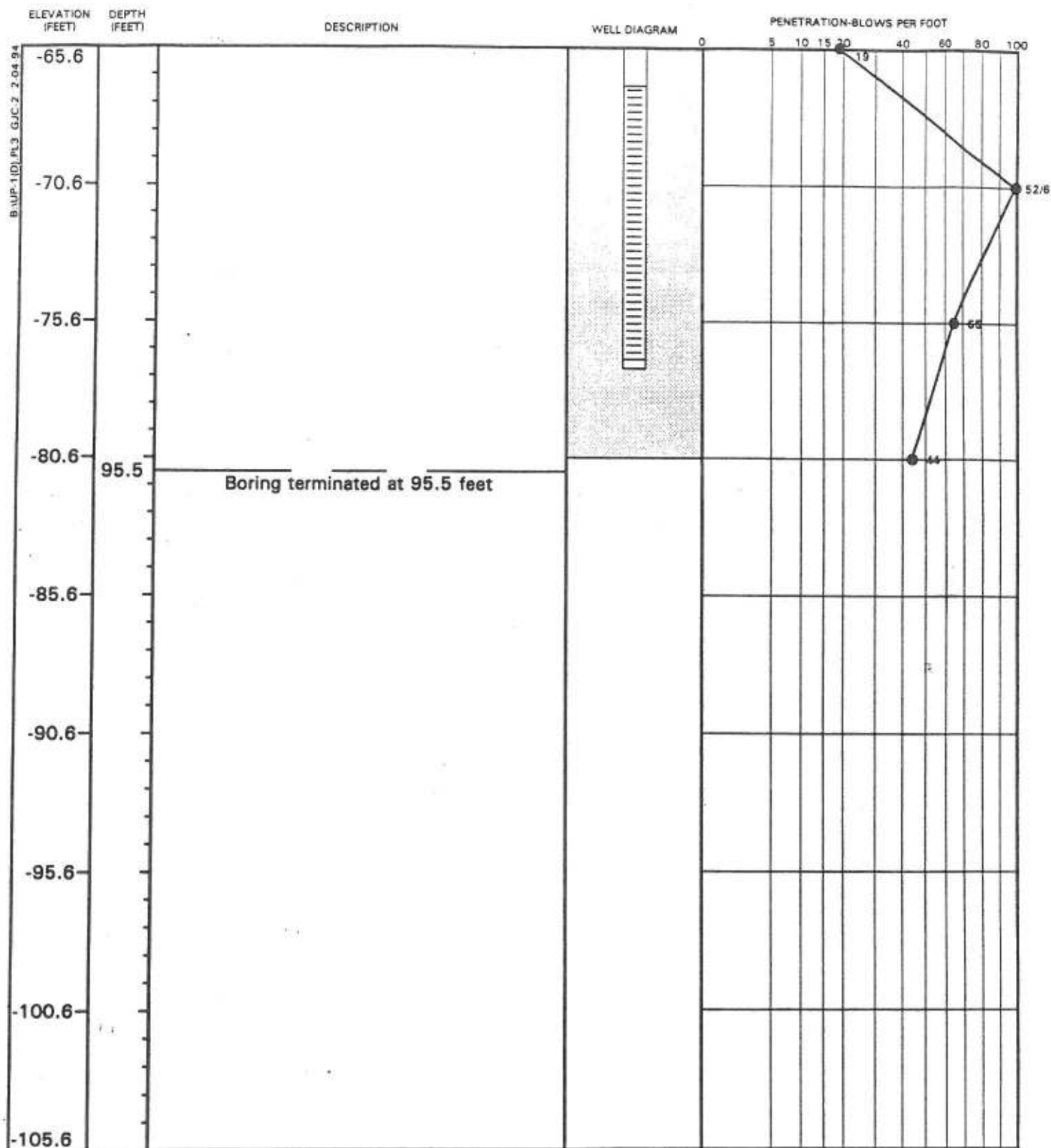
REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-29-93
CHECKED BY	K.Davis	DATE COMPLETED	9-30-93
		JOB NUMBER	55-3553





# TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	UP-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-29-93
CHECKED BY	K.Davis	DATE COMPLETED	9-30-93
		JOB NUMBER	55-355310



# TYPE II MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK

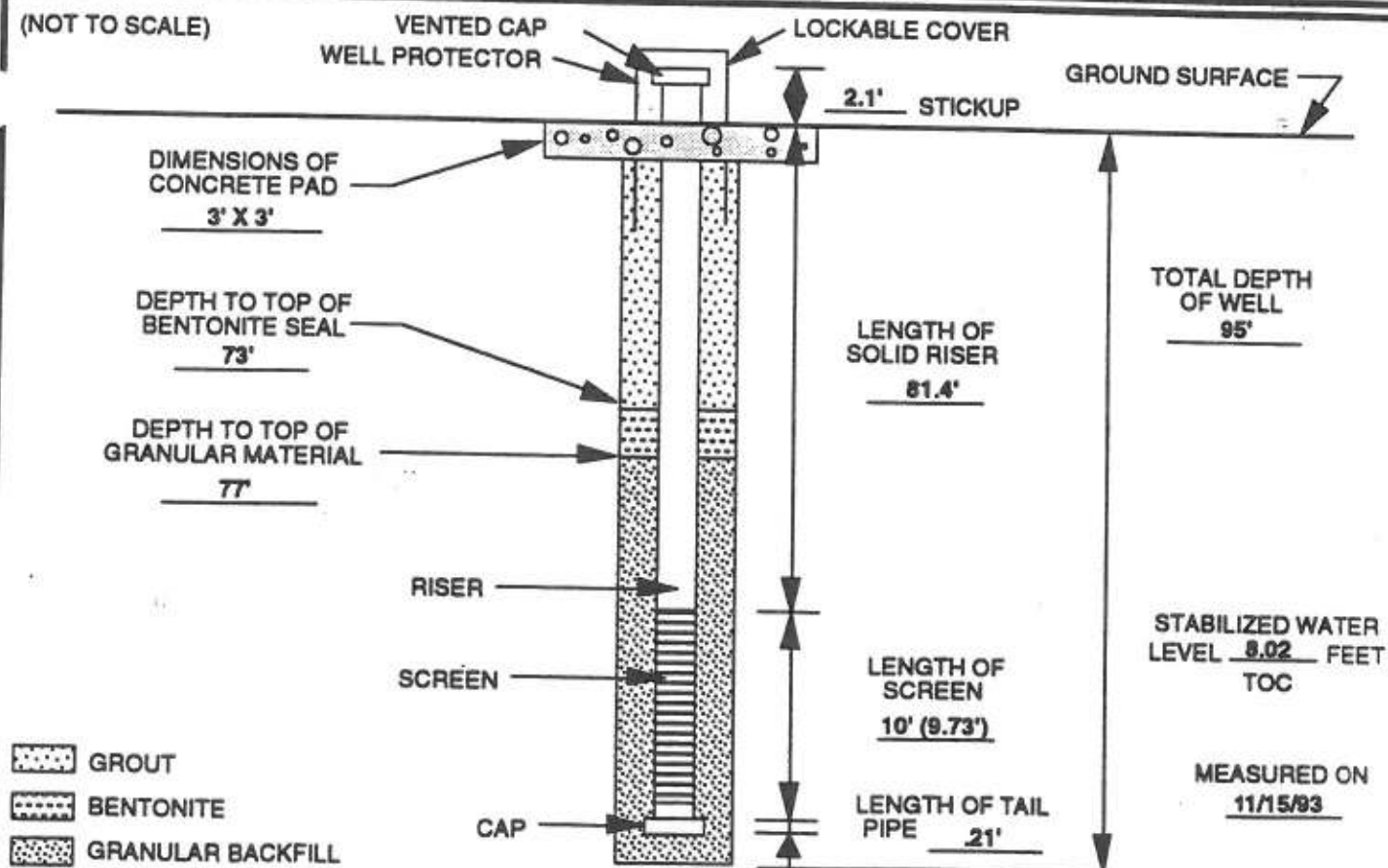
WELL NO. UP-1 (D)

JOB NO. 55-355310

DATE 9/30/93

GROUND SURFACE ELEVATION <u>13.9 NGVD</u>	BENTONITE TYPE <u>PURE GOLD® BENTONITE TABLETS</u>
TOP OF PAD ELEVATION <u>13.99 NGVD</u>	CEMENT TYPE <u>PORTLAND TYPE I</u>
TOP OF CASING ELEVATION <u>16.04 NGVD</u>	BOREHOLE DIAMETER <u>5 7/8-INCH</u>
TYPE SAND PACK <u>GRANULAR</u> GRADATION <u>20/30</u>	SCREEN DIAMETER <u>2-INCH</u> SLOT SIZE <u>0.010 INCH</u>
SCREEN MATERIAL <u>TYPE 304 WIRE WRAP STAINLESS STEEL</u>	LAW ENVIRONMENTAL, INC.
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	FIELD REPRESENTATIVE <u>DAVID ALLEN</u>
RISER MATERIAL <u>TYPE 304 STAINLESS STEEL</u>	DRILLING CONTRACTOR <u>LAW ENGINEERING - ATLANTA</u>
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	AMOUNT BENTONITE USED <u>0.6 FT³</u>
RISER DIAMETER <u>2-INCH</u>	AMOUNT CEMENT USED <u>12.1 FT³</u>
DRILLING TECHNIQUE (below casing) <u>WASH ROTARY</u>	AMOUNT SAND USED <u>2.4 FT³</u>
BIT SIZE AND TYPE <u>8-INCH O.D. HOLLOW STEM</u>	STATIC WATER DEPTH (after dev.) <u>8.8 FT</u>

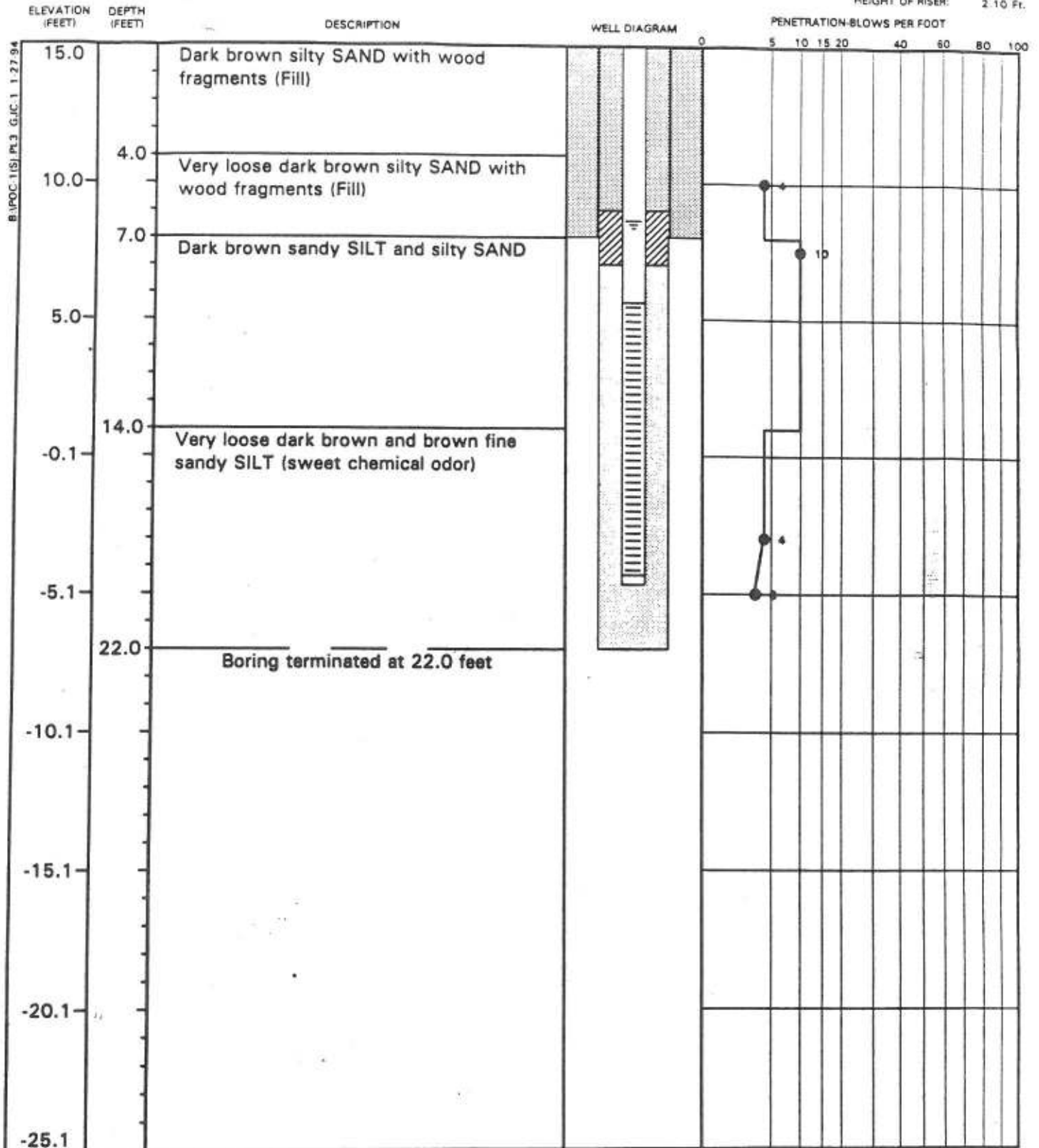
(NOT TO SCALE)



INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1/26/94

# TEST BORING RECORD

DATUM ELEVATION: 17.05 Ft.  
HEIGHT OF RISER: 2.10 Ft.



## REMARKS:

- 1) Drilling Technique: 0-7 feet using 8-inch O.D. hollow stem augers. 7 to 22 feet using 5 7/8-inch tricone roller bit.
- 2) Well materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) = Water level on 10-7-93.
- 4) Soil descriptions 0-22 feet from POC-1(D)

DRILLED BY  
LOGGED BY  
CHECKED BY

LAW-ATL  
D.Allen  
K.Davis

BORING NUMBER  
DATE STARTED  
DATE COMPLETED  
JOB NUMBER

POC-1(S)  
9-30-93  
10-02-93  
55-355310



# TYPE III MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

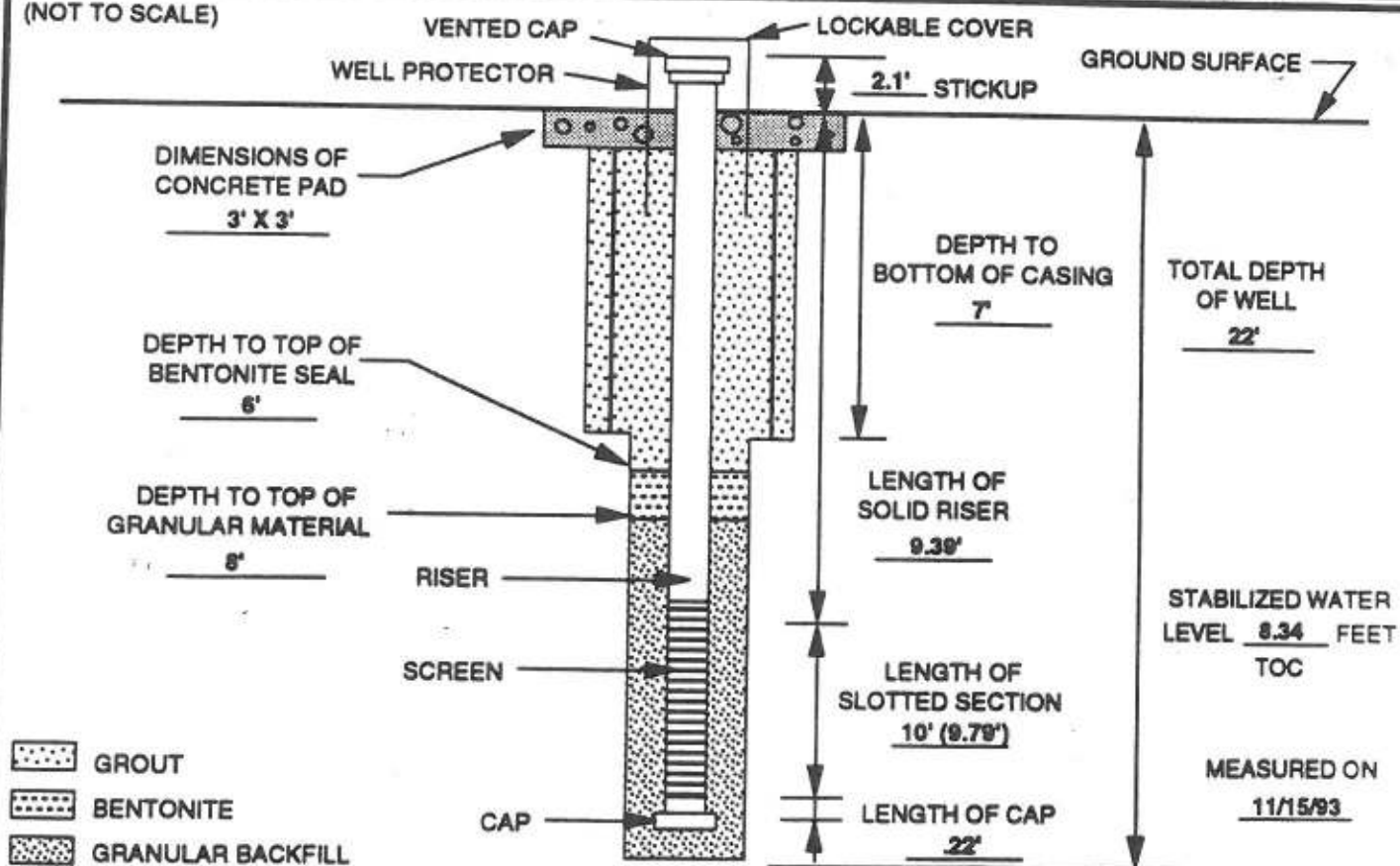
JOB NAME HERCULES - BRUNSWICK

WELL NO. POC-1 (S) JOB NO. 55-355310

DATE 10/2/93

GROUND SURFACE ELEVATION 15.0 NGVD BENTONITE TYPE PURE GOLD® BENTONITE TABLETS  
 TOP OF PAD ELEVATION 15.11 NGVD CEMENT TYPE PORTLAND TYPE I  
 TOP OF CASING ELEVATION 17.04 NGVD BOREHOLE DIAMETER 5 7/8 INCH  
 TYPE SAND PACK GRANULAR GRADATION 20/30 SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH  
 SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL LAW ENVIRONMENTAL, INC.  
 MANUFACTURER DRILLERS SERVICE, INC. FIELD REPRESENTATIVE DAVID ALLEN  
 RISER MATERIAL TYPE 304 STAINLESS STEEL DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA  
 MANUFACTURER DRILLERS SERVICE, INC. AMOUNT BENTONITE USED 0.33 FT³  
 RISER DIAMETER 2-INCH AMOUNT CEMENT USED 0.99 FT³  
 DRILLING TECHNIQUE (above casing) CONVENTIONAL AUGER AMOUNT SAND USED 1.9 FT³  
 BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM STATIC WATER DEPTH (after dev.) 8.62 FT  
 DRILLING TECHNIQUE (below casing) WASH ROTARY TYPE OF CASING 6" SCHEDULE 40 PVC  
 BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

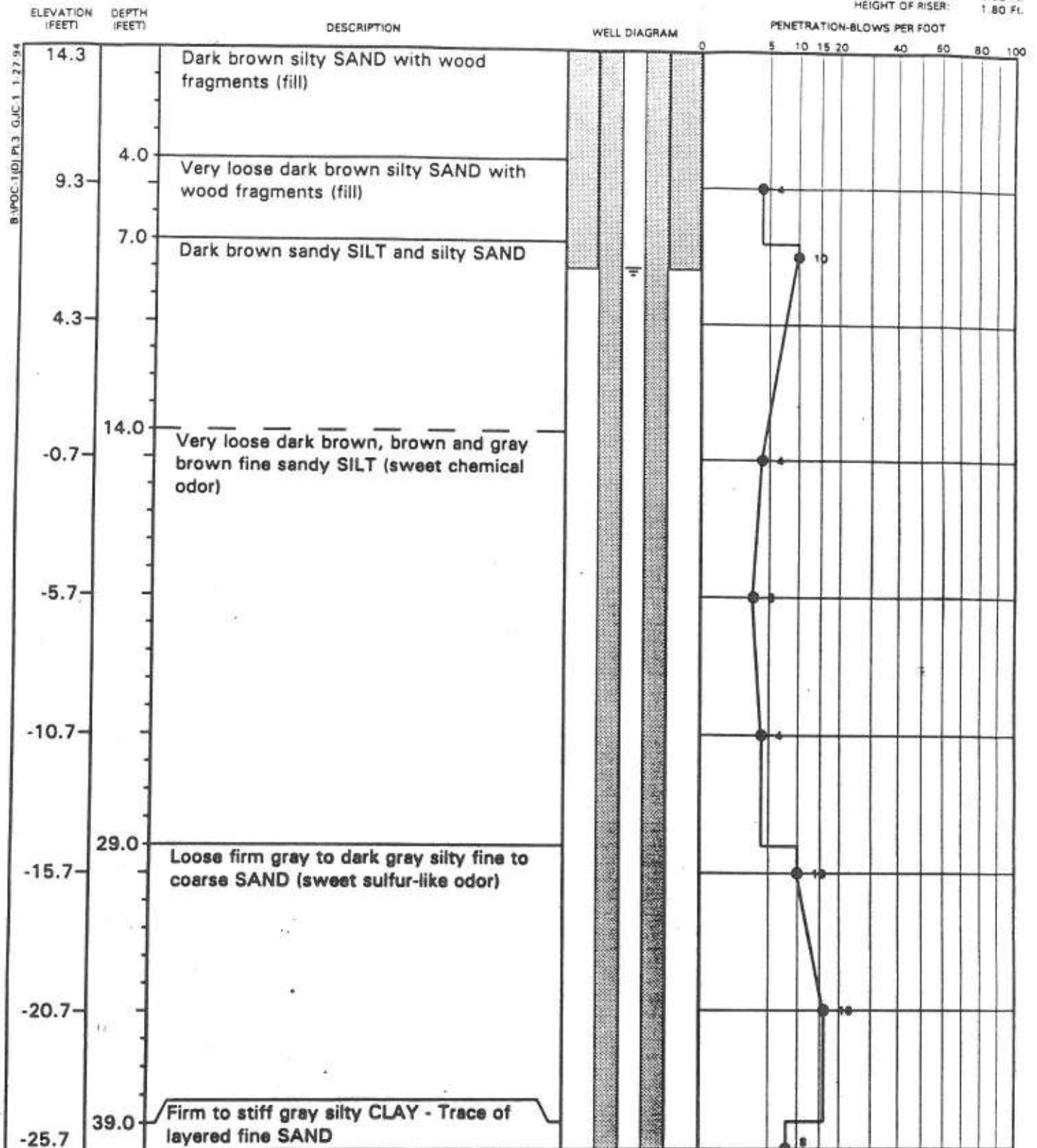
(NOT TO SCALE)



INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-28-94

# TEST BORING RECORD

DATUM ELEVATION: 16.08 Ft.  
HEIGHT OF RISER: 1.80 Ft.



## REMARKS:

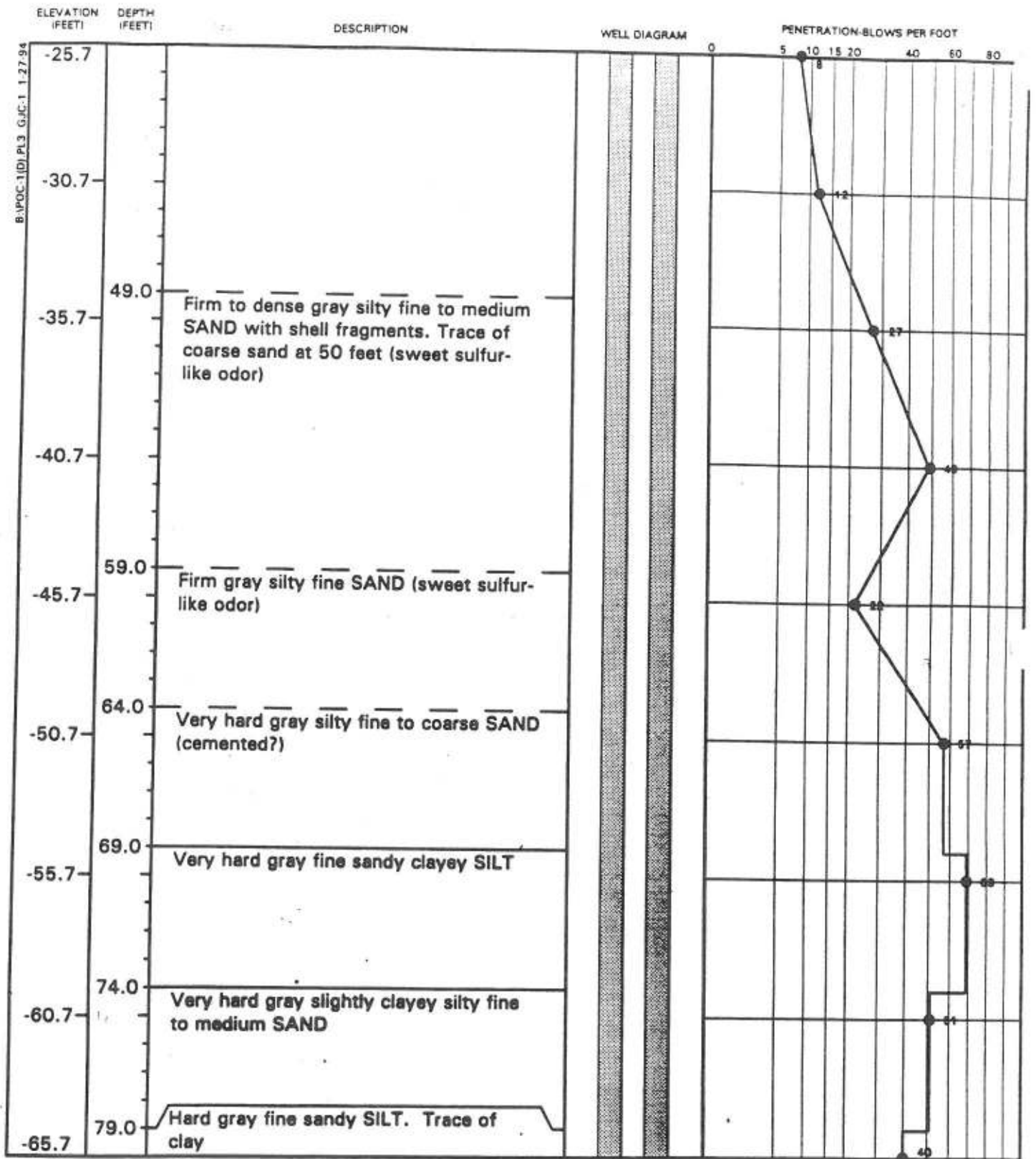
- 1) Drilling Technique: 0-8 feet using 8-inch hollow stem augers. 8-107 feet using 5 7/8-inch tricone roller bit.
- 2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) = Water level on 10-7-93.

DRILLED BY	LAW-ATL BORING NUMBER	POC-1(D)
LOGGED BY	D.Allen	DATE STARTED 9-30-93
CHECKED BY	K.Davis	DATE COMPLETED 10-1-93
	JOB NUMBER	55-355310





# TEST BORING RECORD

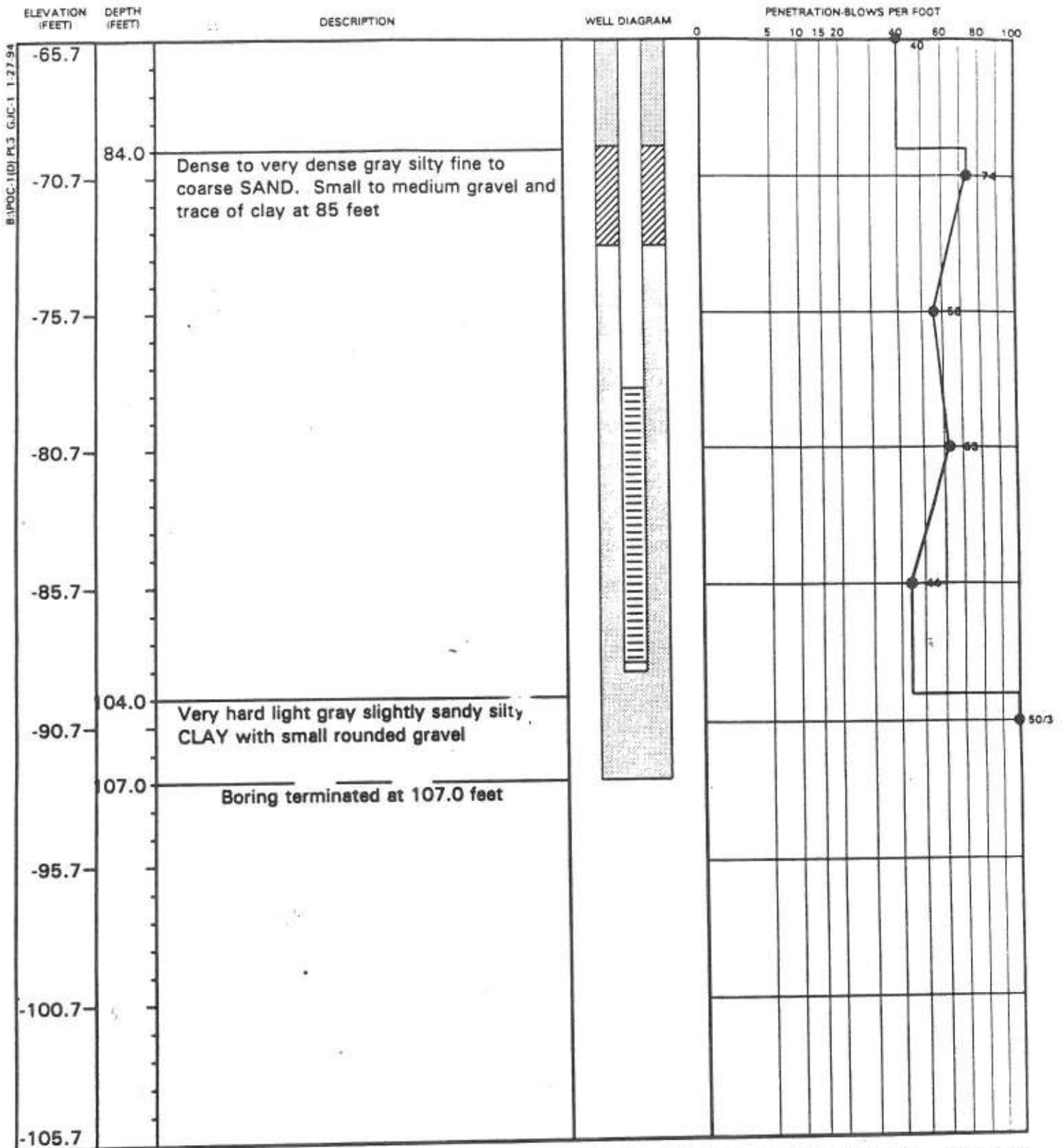


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-30-93
CHECKED BY	K.Davis	DATE COMPLETED	10-1-93
		JOB NUMBER	55-3553.0



# TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-1(D)
LOGGED BY	D.Allen	DATE STARTED	9-30-93
CHECKED BY	K.Davis	DATE COMPLETED	10-1-93
		JOB NUMBER	55-355310



# TYPE III MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK

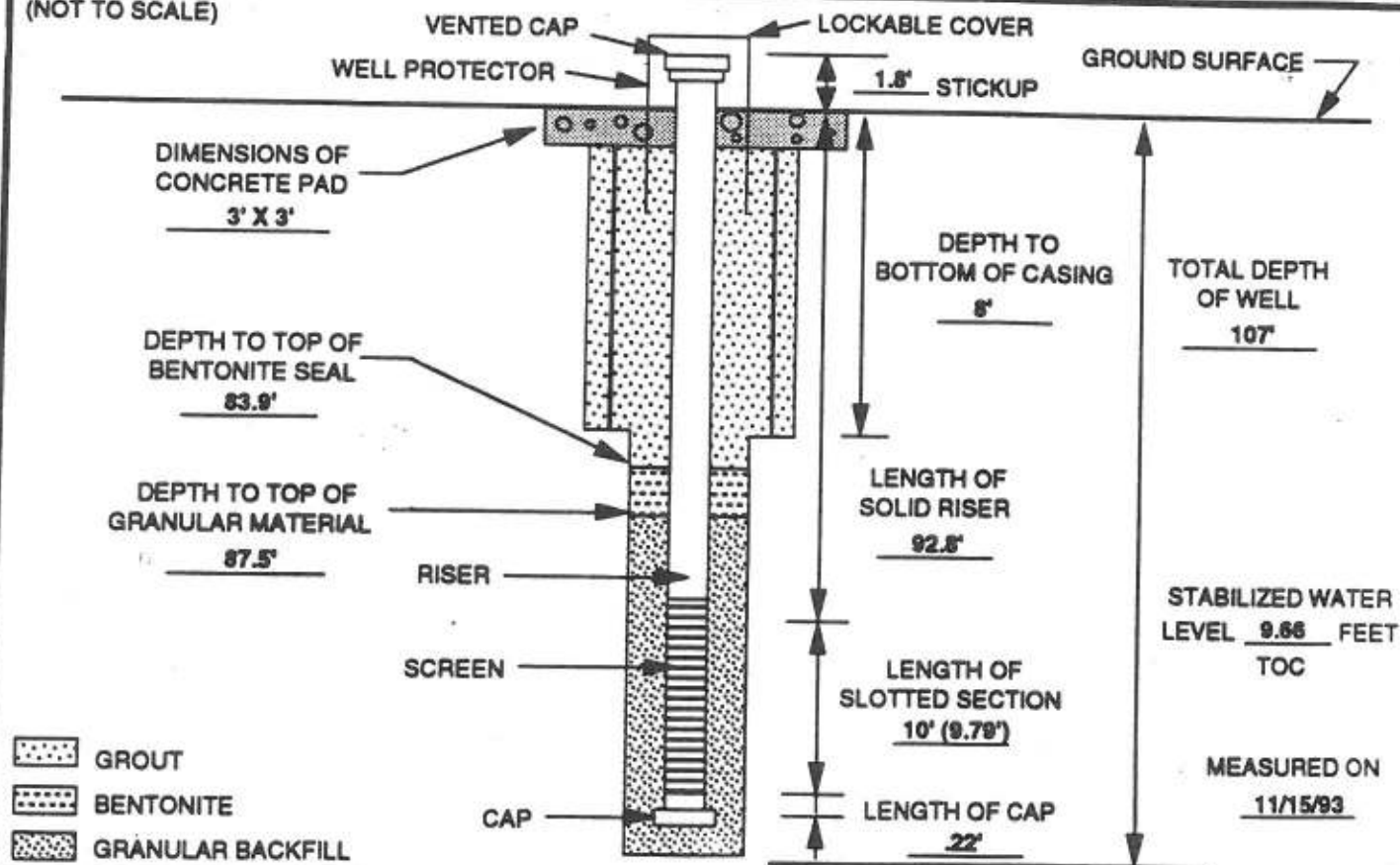
WELL NO. POC-1 (D)

JOB NO. 55-355310

DATE 10/4/93

GROUND SURFACE ELEVATION <u>14.4 NGVD</u>	BENTONITE TYPE <u>PURE GOLD® BENTONITE TABLETS</u>
TOP OF PAD ELEVATION <u>14.59 NGVD</u>	CEMENT TYPE <u>PORTLAND TYPE I</u>
TOP OF CASING ELEVATION <u>16.08 NGVD</u>	BOREHOLE DIAMETER <u>8-INCH</u>
TYPE SAND PACK <u>GRANULAR</u> GRADATION <u>20/30</u>	SCREEN DIAMETER <u>2-INCH</u> SLOT SIZE <u>0.010 INCH</u>
SCREEN MATERIAL <u>TYPE 304 WIRE WRAP STAINLESS STEEL</u>	LAW ENVIRONMENTAL, INC.
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	FIELD REPRESENTATIVE <u>DAVID ALLEN</u>
RISER MATERIAL <u>TYPE 304 STAINLESS STEEL</u>	DRILLING CONTRACTOR <u>LAW ENGINEERING - ATLANTA</u>
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	AMOUNT BENTONITE USED <u>0.6 FT³</u>
RISER DIAMETER <u>2-INCH</u>	AMOUNT CEMENT USED <u>14 FT³</u>
DRILLING TECHNIQUE (above casing) <u>CONVENTIONAL AUGER</u>	AMOUNT SAND USED <u>2.6 FT³</u>
BIT SIZE AND TYPE <u>8-INCH O.D. CONTINUOUS FLIGHT</u>	STATIC WATER DEPTH (after dev.) <u>9.88 FT</u>
DRILLING TECHNIQUE (below casing) <u>WASH ROTARY</u>	TYPE OF CASING <u>6" SCHEDULE 40 PVC</u>
BIT SIZE AND TYPE <u>5 7/8 INCH TRI-CONE ROLLER BIT</u>	

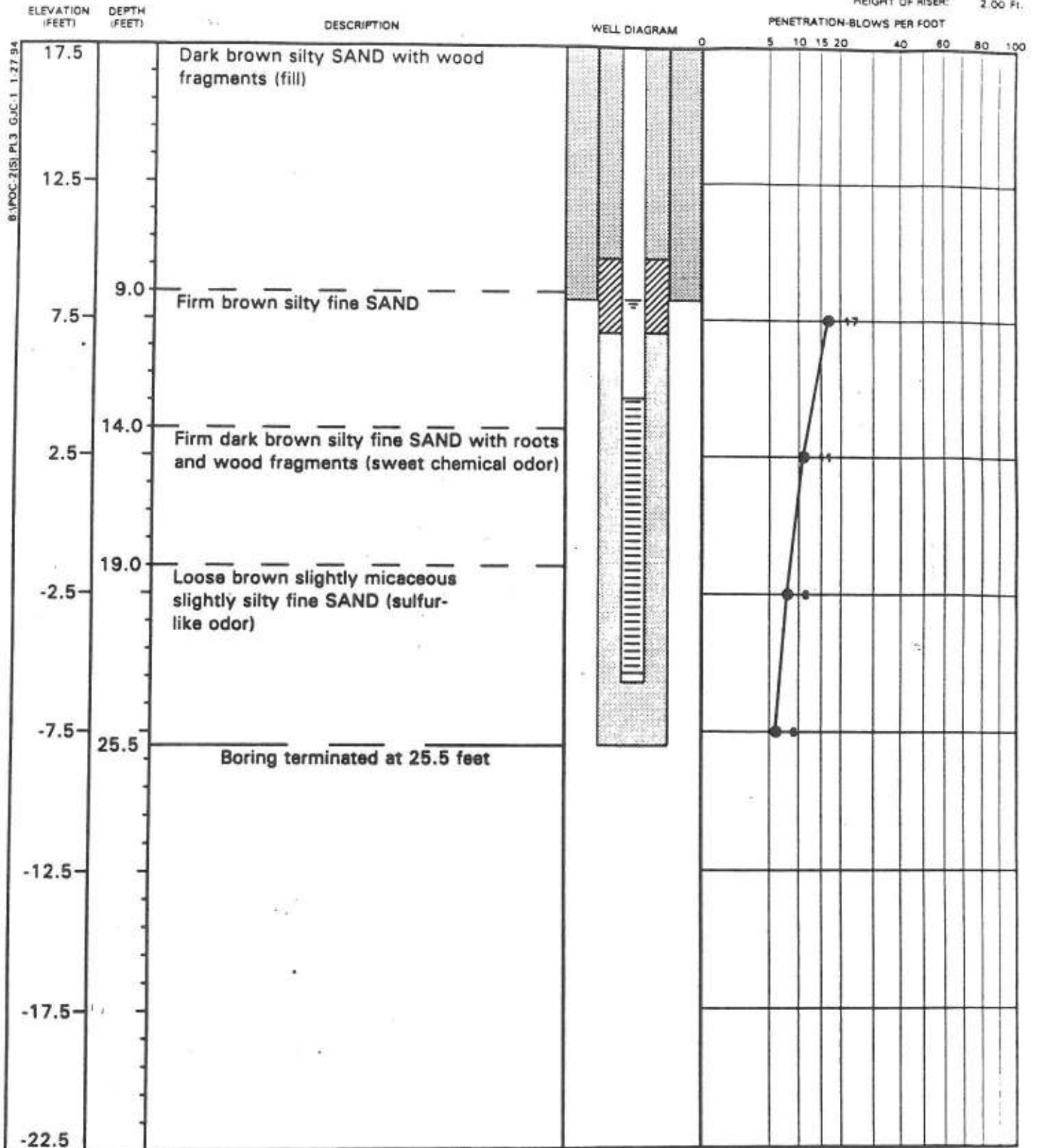
(NOT TO SCALE)



INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94

# TEST BORING RECORD

DATUM ELEVATION: 19.48 Ft.  
HEIGHT OF RISER: 2.00 Ft.



## REMARKS:

- 1) Drilling Technique: 0-9 feet using 8-inch O.D. hollow stem augers. 9-25 feet using 5 7/8-inch tricone roller bit.
- 2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) = Water level on 10-25-93.
- 4) Soil descriptions 10-25 from EB-1

DRILLED BY	LAOW-ATBORING NUMBER	POC-2(S)
LOGGED BY	D.Allen	DATE STARTED 10-1-93
CHECKED BY	K.Davis	DATE COMPLETED 10-3-93
	JOB NUMBER	55-355310



# TYPE III MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

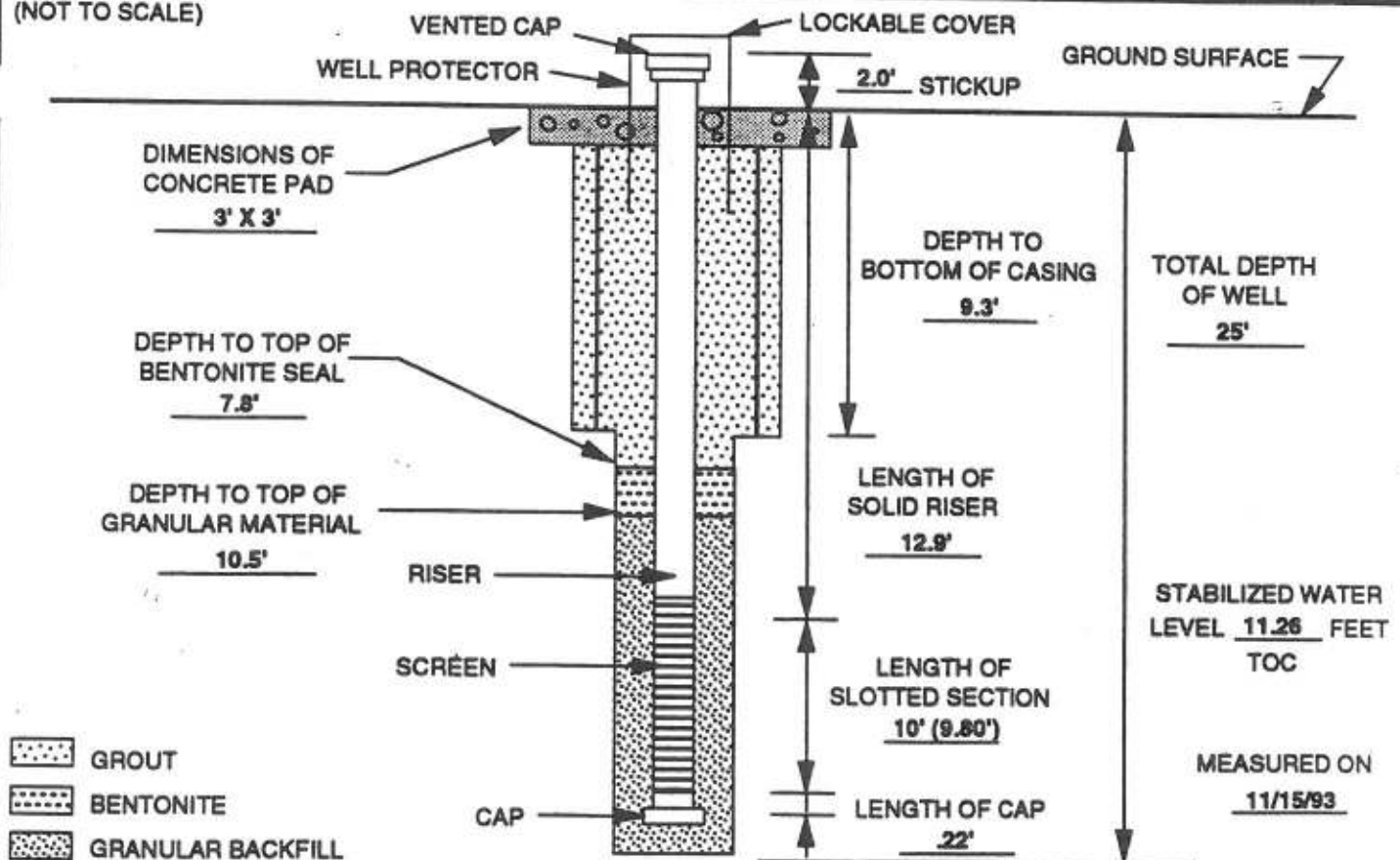
JOB NAME HERCULES - BRUNSWICK

WELL NO. POC-2 (S) JOB NO. 55-355310

DATE 10/2/93

GROUND SURFACE ELEVATION <u>17.9 NGVD</u>	BENTONITE TYPE <u>PURE GOLD® BENTONITE TABLETS</u>
TOP OF PAD ELEVATION <u>17.96 NGVD</u>	CEMENT TYPE <u>PORTLAND TYPE I</u>
TOP OF CASING ELEVATION <u>19.48 NGVD</u>	BOREHOLE DIAMETER <u>5 7/8 INCH</u>
TYPE SAND PACK <u>GRANULAR</u> GRADATION <u>20/30</u>	SCREEN DIAMETER <u>2-INCH</u> SLOT SIZE <u>0.010 INCH</u>
SCREEN MATERIAL <u>TYPE 304 WIRE WRAP STAINLESS STEEL</u>	LAW ENVIRONMENTAL, INC.
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	FIELD REPRESENTATIVE <u>DAVID ALLEN</u>
RISER MATERIAL <u>TYPE 304 STAINLESS STEEL</u>	DRILLING CONTRACTOR <u>LAW ENGINEERING - ATLANTA</u>
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	AMOUNT BENTONITE USED <u>.44 FT³</u>
RISER DIAMETER <u>2-INCH</u>	AMOUNT CEMENT USED <u>1.2 FT³</u>
DRILLING TECHNIQUE (above casing) <u>CONVENTIONAL AUGER</u>	AMOUNT SAND USED <u>2.1 FT³</u>
BIT SIZE AND TYPE <u>8-INCH O.D. HOLLOW STEM</u>	STATIC WATER DEPTH (after dev.) <u>11.43 FT</u>
DRILLING TECHNIQUE (below casing) <u>WASH ROTARY</u>	TYPE OF CASING <u>6" SCHEDULE 40 PVC</u>
BIT SIZE AND TYPE <u>5 7/8 INCH TRI-CONE ROLLER BIT</u>	

(NOT TO SCALE)

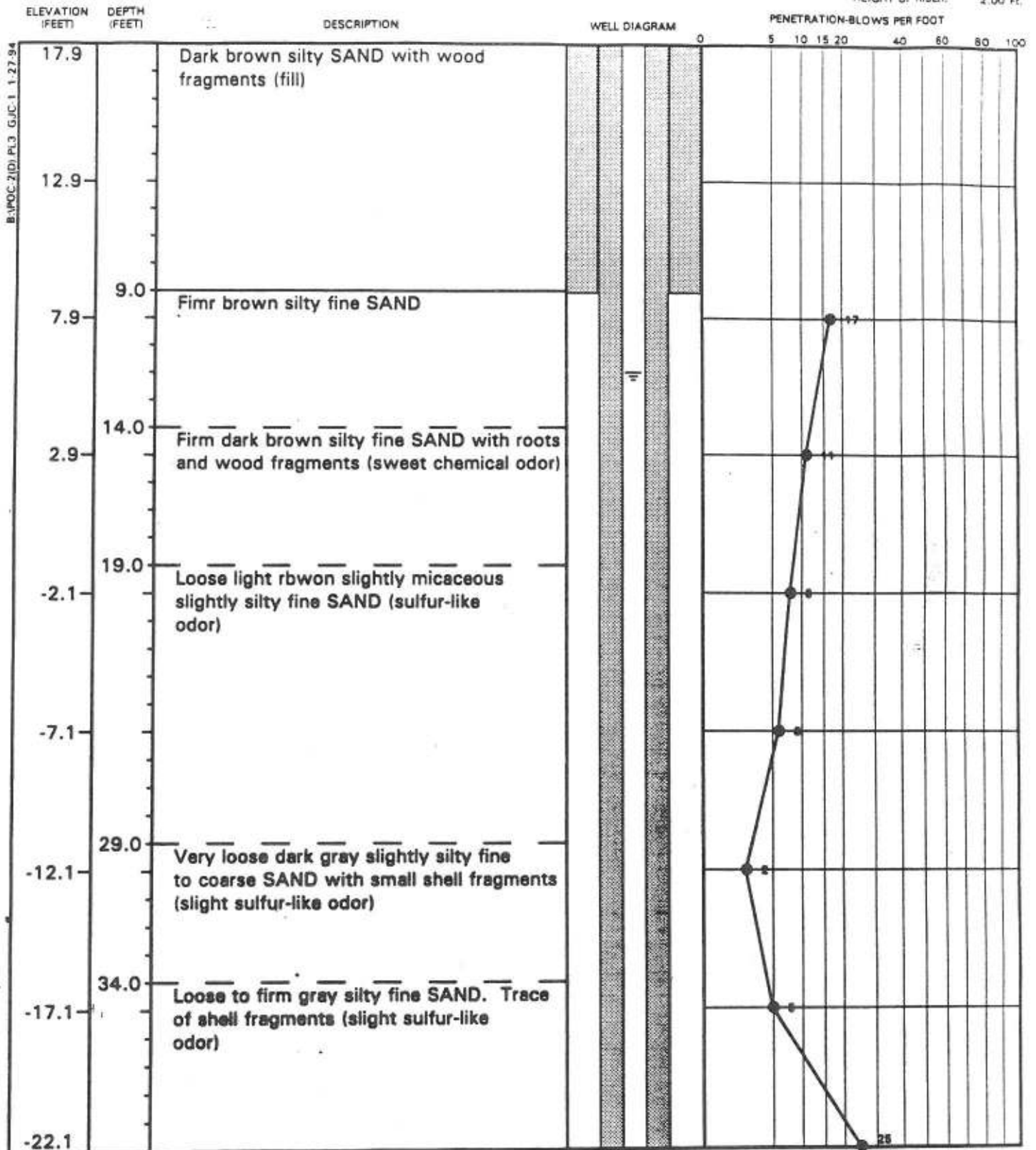


INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94



# TEST BORING RECORD

DATUM ELEVATION: 19.89 Ft.  
HEIGHT OF RISER: 2.00 Ft.



## REMARKS:

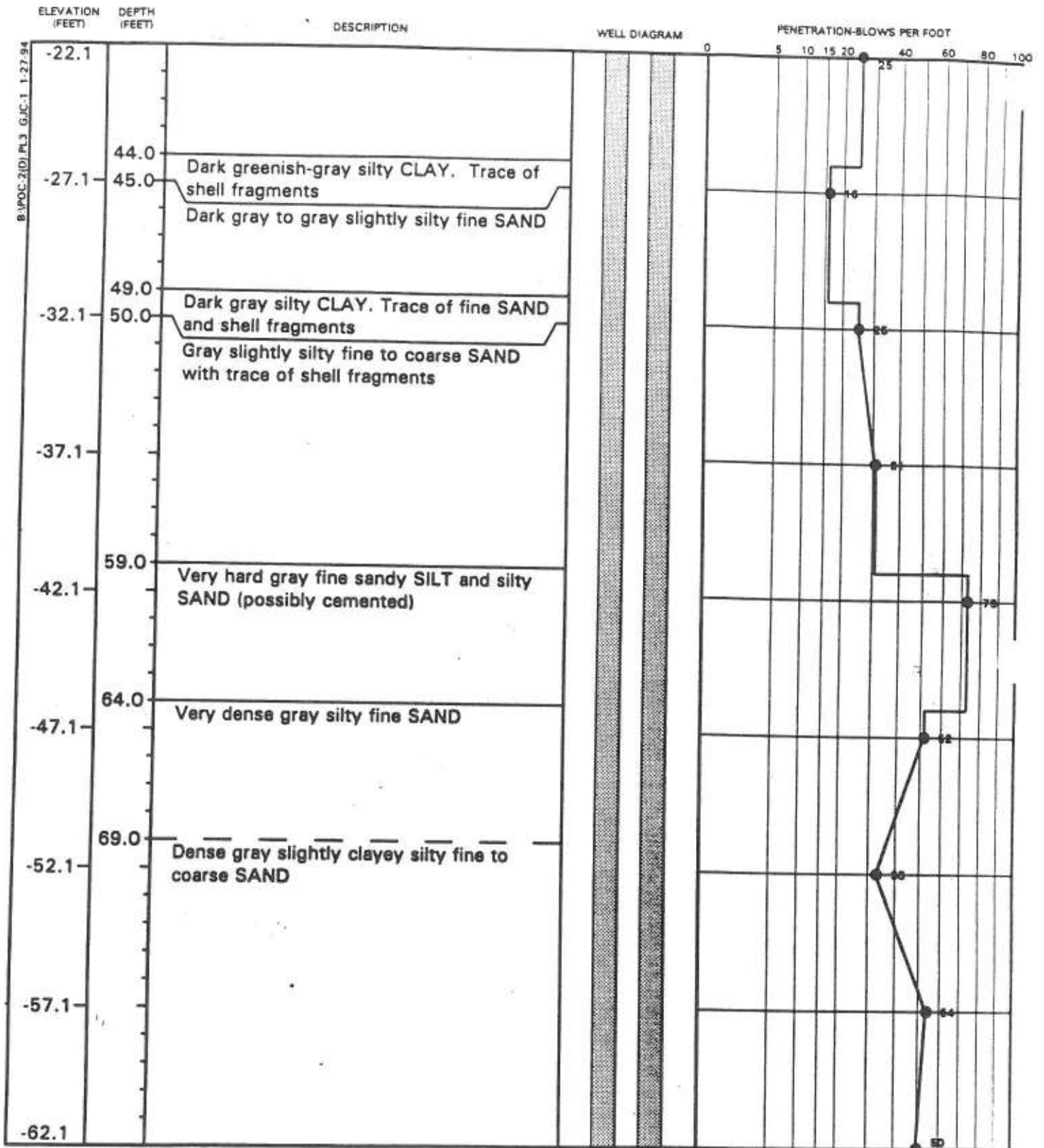
- 1) Drilling Technique: 0-9 feet using 8-inch O.D. hollow stem augers. 9-107 feet using 5 7/8-inch tricone roller bit.
- 2) Well Materials: 2-inch stainless steel 0.010-inch slot screen
- 3) = Water level on 10-7-93.
- 4) Soil descriptions from 10-100 from EB-1PAGE 1 OF 3

DRILLED BY	LAW-ATL	BORING NUMBER	POC-2(D)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-2-93
		JOB NUMBER	55-355310



Law Environmental

# TEST BORING RECORD

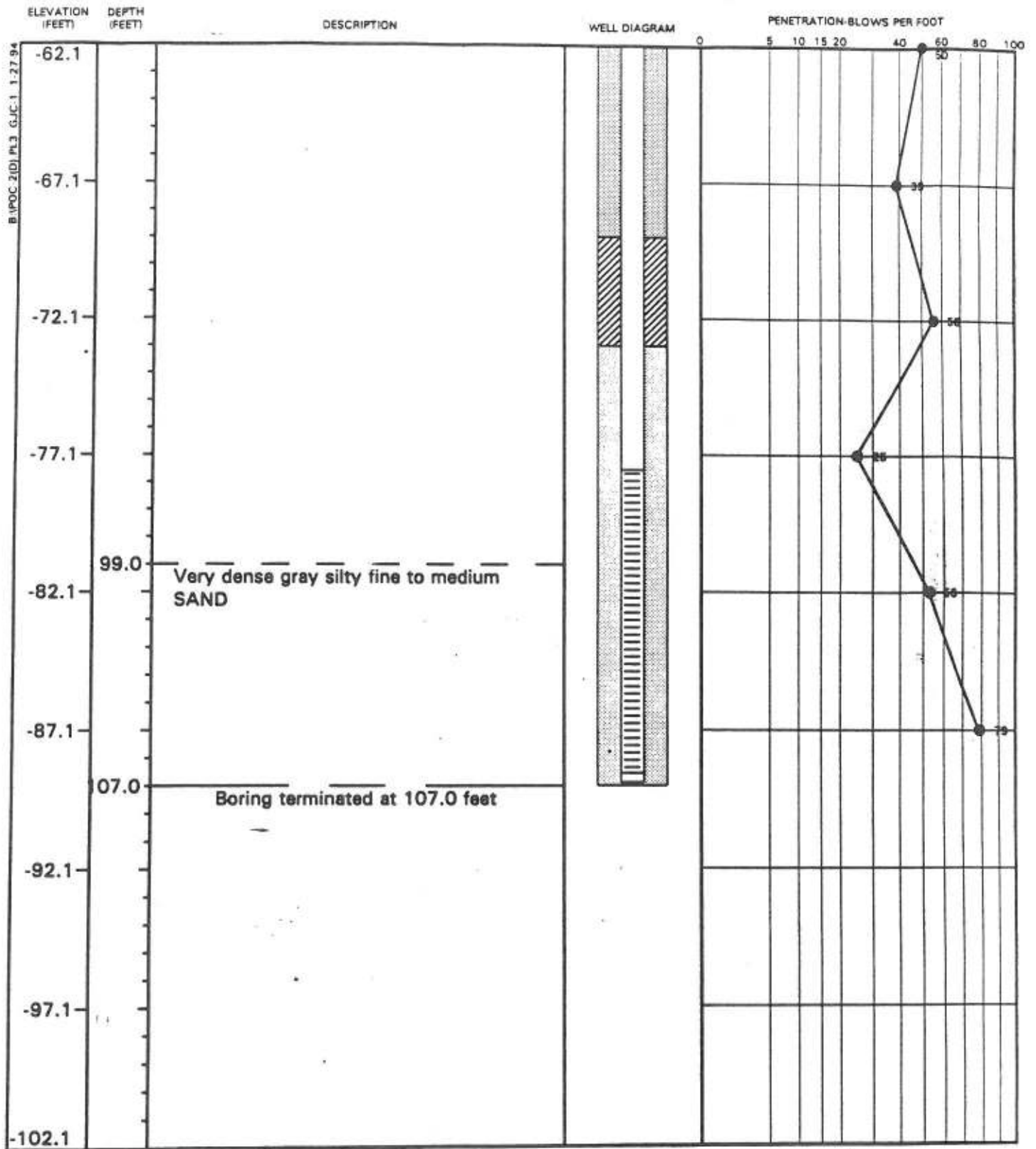


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-2(D)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-2-93
		JOB NUMBER	55-355



# TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-2(D)
LOGGED BY	D.Allen	DATE STARTED	10-1-93
CHECKED BY	K.Davis	DATE COMPLETED	10-2-93
		JOB NUMBER	55-355310



# TYPE III MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

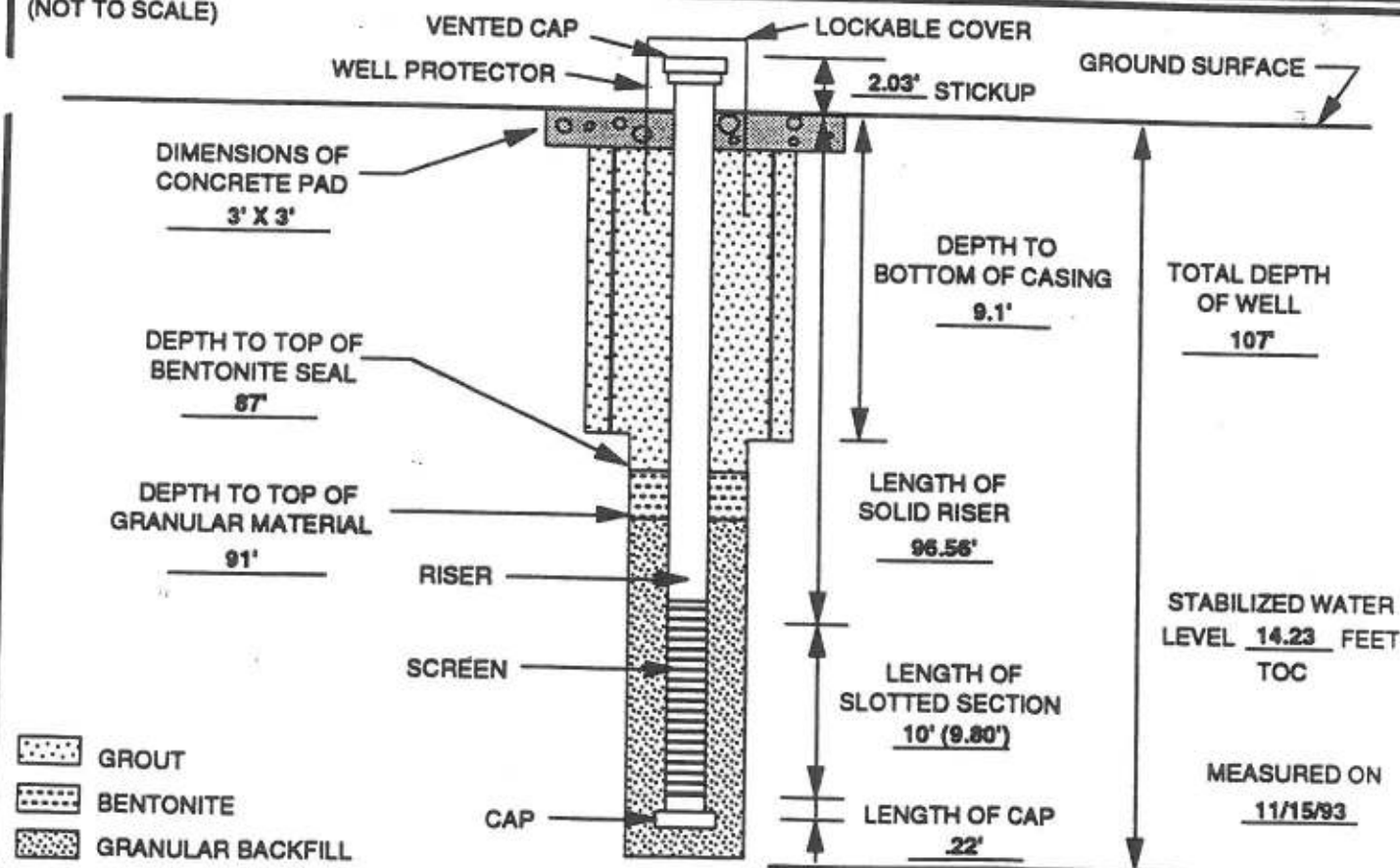
JOB NAME HERCULES - BRUNSWICK

WELL NO. POC-2 (D) JOB NO. 55-355310

DATE 10/2/93

GROUND SURFACE ELEVATION <u>17.7 NGVD</u>	BENTONITE TYPE <u>PURE GOLD® BENTONITE TABLETS</u>
TOP OF PAD ELEVATION <u>17.72 NGVD</u>	CEMENT TYPE <u>PORTLAND TYPE I</u>
TOP OF CASING ELEVATION <u>19.89 NGVD</u>	BOREHOLE DIAMETER <u>5 7/8 INCH</u>
TYPE SAND PACK <u>GRANULAR</u> GRADATION <u>20/30</u>	SCREEN DIAMETER <u>2-INCH</u> SLOT SIZE <u>0.010 INCH</u>
SCREEN MATERIAL <u>TYPE 304 WIRE WRAP STAINLESS STEEL</u>	LAW ENVIRONMENTAL, INC.
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	FIELD REPRESENTATIVE <u>DAVID ALLEN</u>
RISER MATERIAL <u>TYPE 304 STAINLESS STEEL</u>	DRILLING CONTRACTOR <u>LAW ENGINEERING - ATLANTA</u>
MANUFACTURER <u>DRILLERS SERVICE, INC.</u>	AMOUNT BENTONITE USED <u>0.66 FT³</u>
RISER DIAMETER <u>2-INCH</u>	AMOUNT CEMENT USED <u>16.1 FT³</u>
DRILLING TECHNIQUE (above casing) <u>CONVENTIONAL AUGER</u>	AMOUNT SAND USED <u>2.6 FT³</u>
BIT SIZE AND TYPE <u>8-INCH O.D. HOLLOW STEM</u>	STATIC WATER DEPTH (after dev.) <u>14.13 FT</u>
DRILLING TECHNIQUE (below casing) <u>WASH ROTARY</u>	TYPE OF CASING <u>6" SCHEDULE 40 PVC</u>
BIT SIZE AND TYPE <u>5 7/8 INCH TRI-CONE ROLLER BIT</u>	

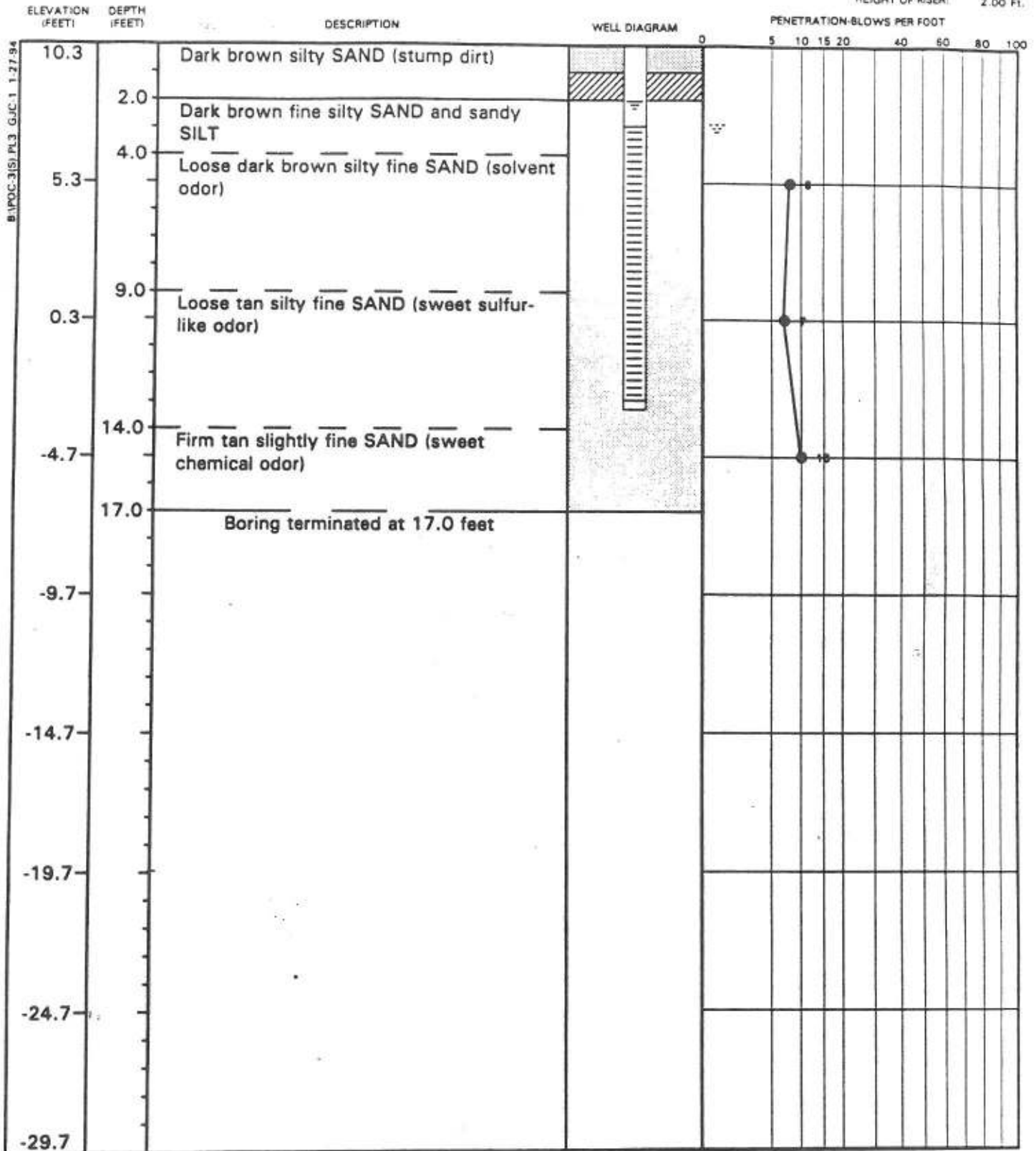
(NOT TO SCALE)



INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1-26-94

# TEST BORING RECORD

DATUM ELEVATION: 12.29 Ft.  
HEIGHT OF RISER: 2.00 Ft.



## REMARKS:

- 1) Drilling Technique: 0-17 feet using 8-inch O.D. hollow stem auger.
- 2) Well Materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) ☼ Water level during drilling.
- 4) ☼ Water level measured on 10-7-93.
- 5) Soil descriptions 0-9 feet and 15 feet from POC-3(D)

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(S)
LOGGED BY	D.Allen	DATE STARTED	10-4-93
CHECKED BY	K.Davis	DATE COMPLETED	10-4-93
		JOB NUMBER	55-355310





# TYPE II MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK

WELL NO. POC-3 (S) JOB NO. 55-355310

DATE 10/4/93

GROUND SURFACE ELEVATION 10.6 NGVD

BENTONITE TYPE PURE GOLD BENTONITE TABLETS

TOP OF PAD ELEVATION 10.69 NGVD

CEMENT TYPE PORTLAND TYPE I

TOP OF CASING ELEVATION 12.29 NGVD

BOREHOLE DIAMETER 8-INCH

TYPE SAND PACK GRANULAR GRADATION 20/30

SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH

SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL

LAW ENVIRONMENTAL, INC.

FIELD REPRESENTATIVE DAVID ALLEN

MANUFACTURER DRILLERS SERVICE, INC.

DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA

RISER MATERIAL TYPE 304 STAINLESS STEEL

AMOUNT BENTONITE USED 0.16 FT<sup>3</sup>

MANUFACTURER DRILLERS SERVICE, INC.

AMOUNT CEMENT USED 0.16 FT<sup>3</sup>

RISER DIAMETER 2-INCH

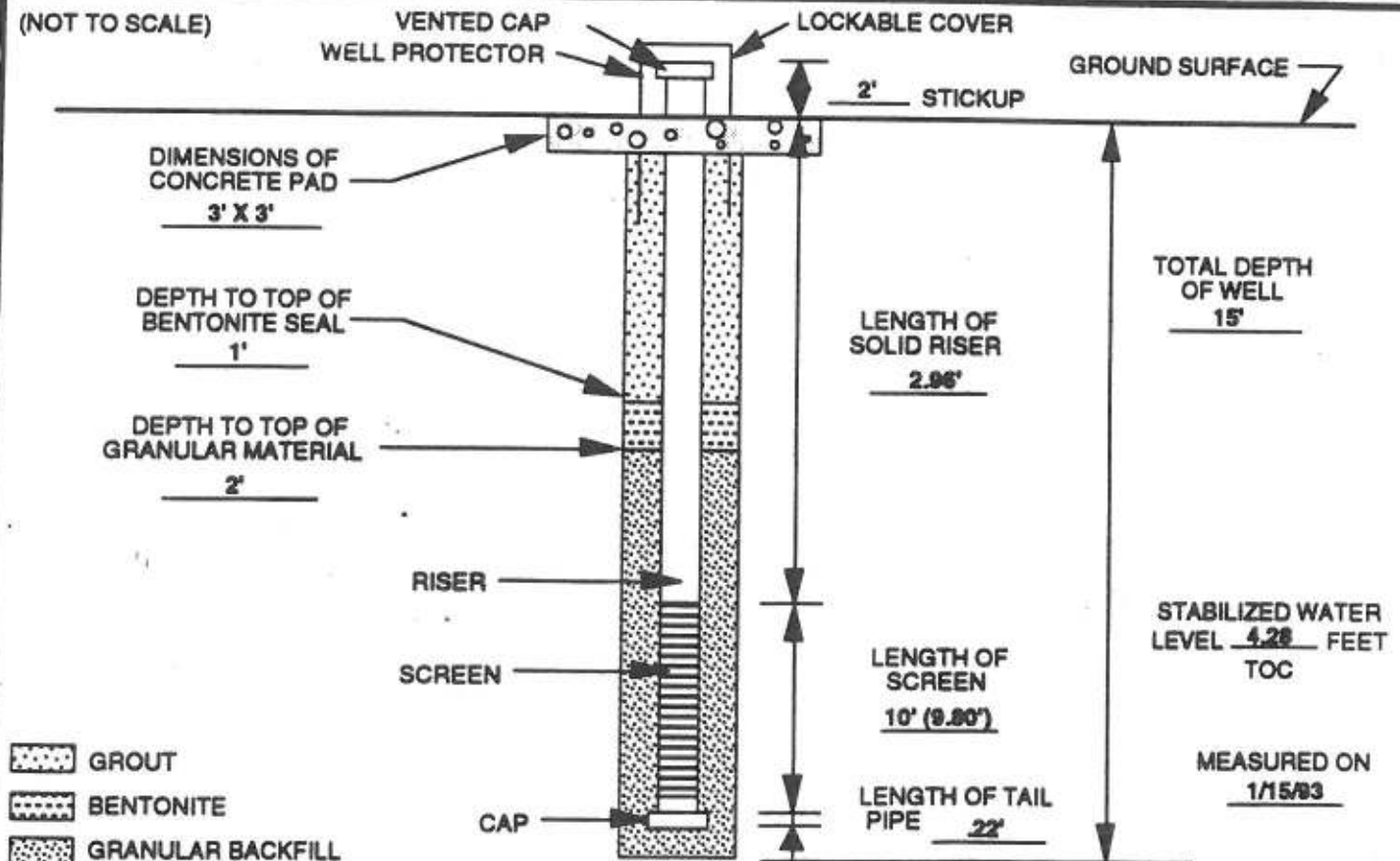
AMOUNT SAND USED 1.8 FT<sup>3</sup>

DRILLING TECHNIQUE CONVENTIONAL AUGER

BIT SIZE AND TYPE 8-INCH O.D. HOLLOW STEM

STATIC WATER DEPTH (after dev.) 4.16 FT

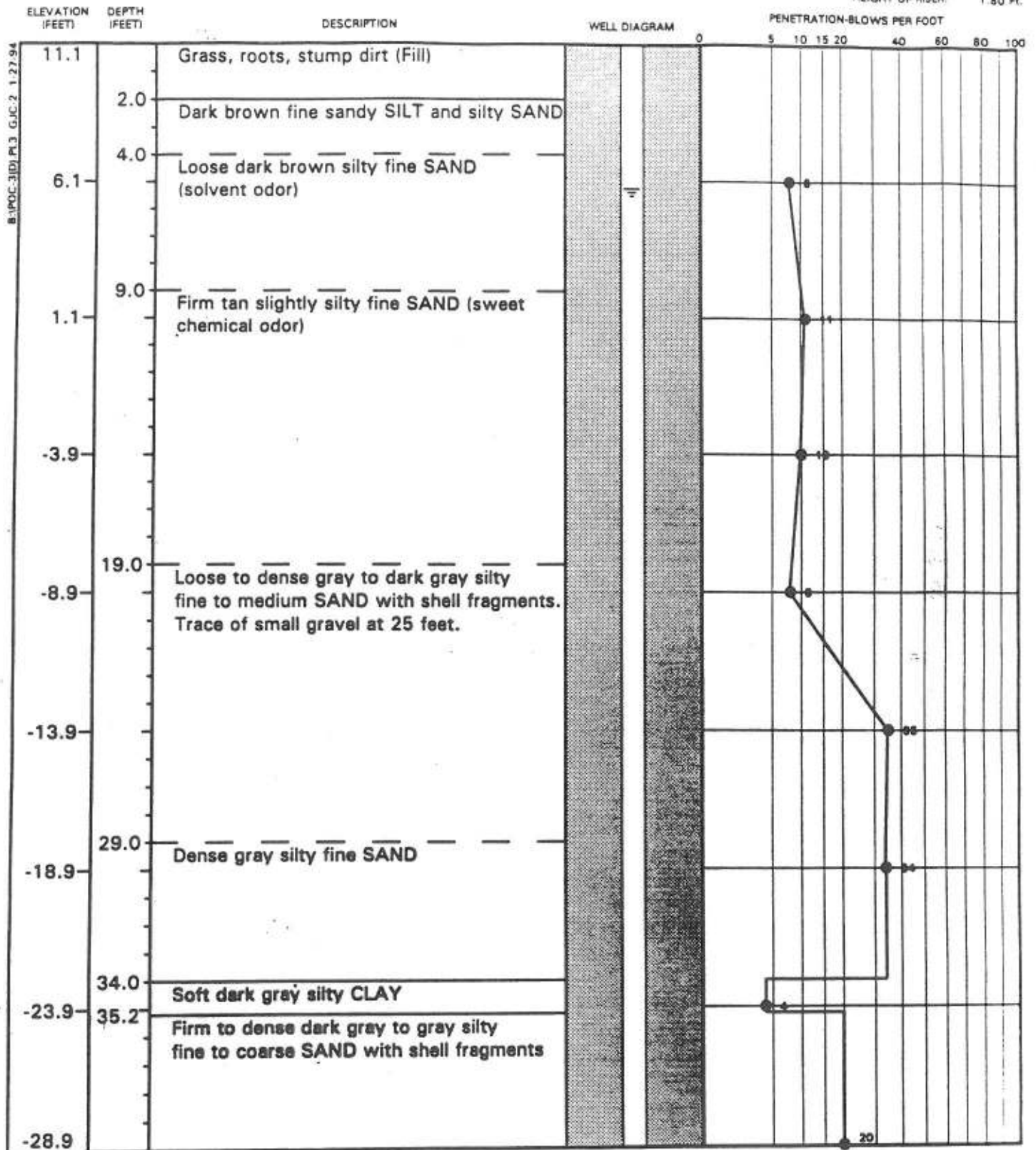
(NOT TO SCALE)



INSTALLED BY: DAVID ALLEN CHECKED BY: GREG MONNETT DATE: 1/26/94

# TEST BORING RECORD

DATUM ELEVATION: 12.92 Ft.  
HEIGHT OF RISER: 1.80 Ft.



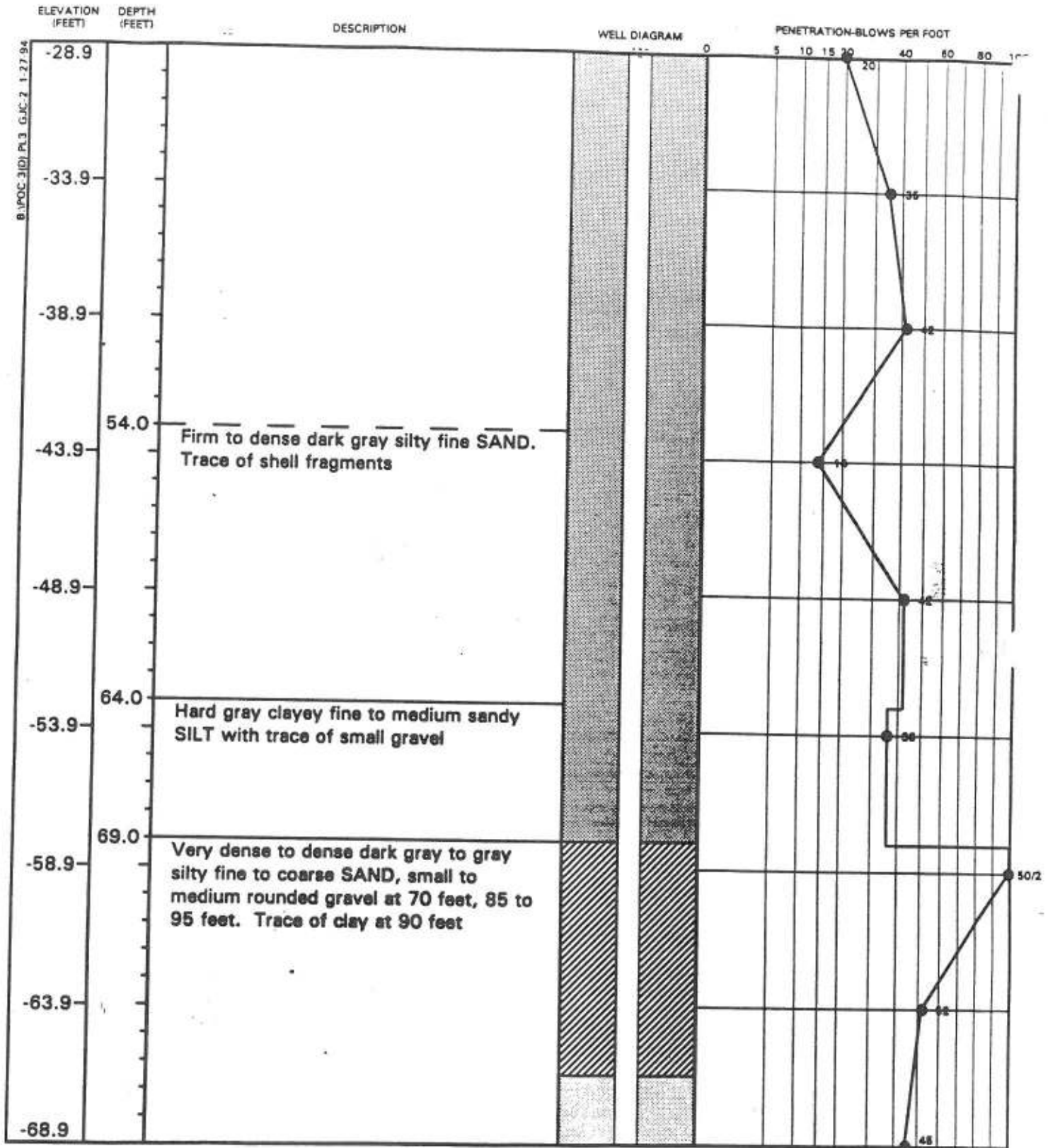
## REMARKS:

- 1) Drilling Technique: 0-97 feet using 5 7/8-inch tricone roller bit.
- 2) Well materials: 2-inch stainless steel 0.010-inch slot screen.
- 3) ☼ Water level during drilling.
- 4) ☼ Water level on 10-7-93.

DRILLED BY	LAW-ATL BORING NUMBER	POC-3(D)
LOGGED BY	DATE STARTED	10-03-93
CHECKED BY	DATE COMPLETED	10-04-93
	JOB NUMBER	55-355310



# TEST BORING RECORD

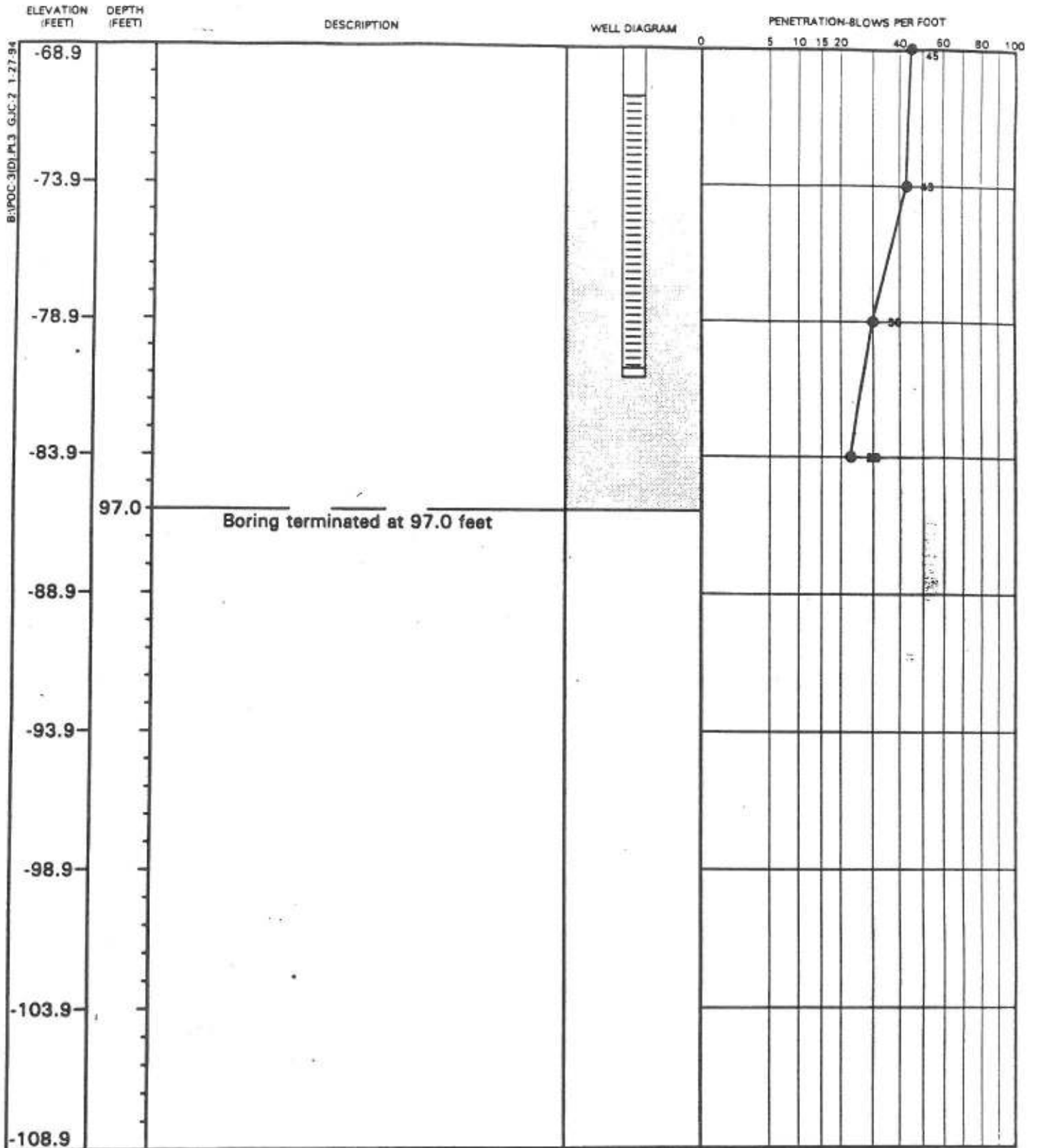


REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(D)
LOGGED BY	D.Allen	DATE STARTED	10-03-93
CHECKED BY	K.Davis	DATE COMPLETED	10-04-9
		JOB NUMBER	55-3553



# TEST BORING RECORD



REMARKS:

DRILLED BY	LAW-ATL	BORING NUMBER	POC-3(D)
LOGGED BY	D.Allen	DATE STARTED	10-03-93
CHECKED BY	K.Davis	DATE COMPLETED	10-04-93
		JOB NUMBER	55-355310



# TYPE II MONITORING WELL INSTALLATION DIAGRAM



LAW ENVIRONMENTAL, INC.

KENNESAW, GEORGIA

JOB NAME HERCULES - BRUNSWICK

WELL NO. POC-3 (D)

JOB NO. 55-355310

DATE 10/4/93

GROUND SURFACE ELEVATION 11.0 NGVD

TOP OF PAD ELEVATION 11.02 NGVD

TOP OF CASING ELEVATION 12.92 NGVD

TYPE SAND PACK GRANULAR GRADATION 20/30

SCREEN MATERIAL TYPE 304 WIRE WRAP STAINLESS STEEL

MANUFACTURER DRILLERS SERVICE, INC.

RISER MATERIAL TYPE 304 STAINLESS STEEL

MANUFACTURER DRILLERS SERVICE, INC.

RISER DIAMETER 2-INCH

DRILLING TECHNIQUE WASH ROTARY

BIT SIZE AND TYPE 5 7/8 INCH TRI-CONE ROLLER BIT

BENTONITE TYPE PURE GOLD® BENTONITE TABLETS

CEMENT TYPE PORTLAND TYPE I

BOREHOLE DIAMETER 5 7/8-INCH

SCREEN DIAMETER 2-INCH SLOT SIZE 0.010 INCH

LAW ENVIRONMENTAL, INC.

FIELD REPRESENTATIVE DAVID ALLEN

DRILLING CONTRACTOR LAW ENGINEERING - ATLANTA

AMOUNT BENTONITE USED 1.4 FT³

AMOUNT CEMENT USED 11.5 FT³

AMOUNT SAND USED 2.8 FT³

STATIC WATER DEPTH (after dev.) 7.2 FT

(NOT TO SCALE)

VENTED CAP  
WELL PROTECTOR

LOCKABLE COVER

1.8' STICKUP

GROUND SURFACE

DIMENSIONS OF  
CONCRETE PAD  
3' X 3'

DEPTH TO TOP OF  
BENTONITE SEAL  
69'

DEPTH TO TOP OF  
GRANULAR MATERIAL  
77.5'

LENGTH OF  
SOLID RISER  
81.8'

TOTAL DEPTH  
OF WELL  
97'

RISER

SCREEN

LENGTH OF  
SCREEN  
10' (9.81')

STABILIZED WATER  
LEVEL 7.09 FEET  
TOC

MEASURED ON  
1/15/93

LENGTH OF TAIL  
PIPE  
22'

CAP

GROUT

BENTONITE

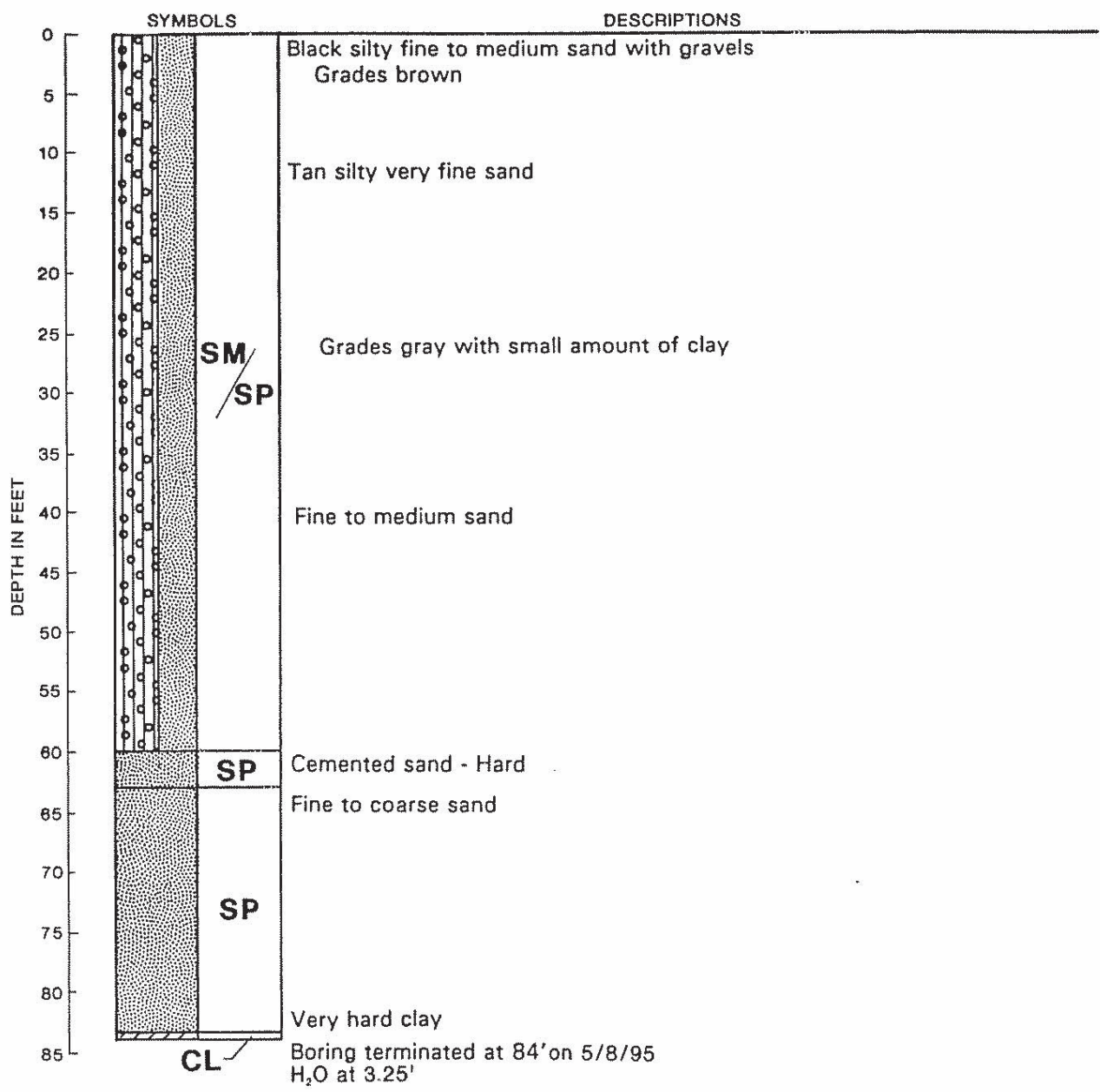
GRANULAR BACKFILL

INSTALLED BY: DAVID ALLEN

CHECKED BY: GREG MONNETT DATE: 1/26/94



Historical Boring Logs for Wells MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4, MW-5S, MW-5I, MW-6, MW-7, MW-8, and MW-9S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.

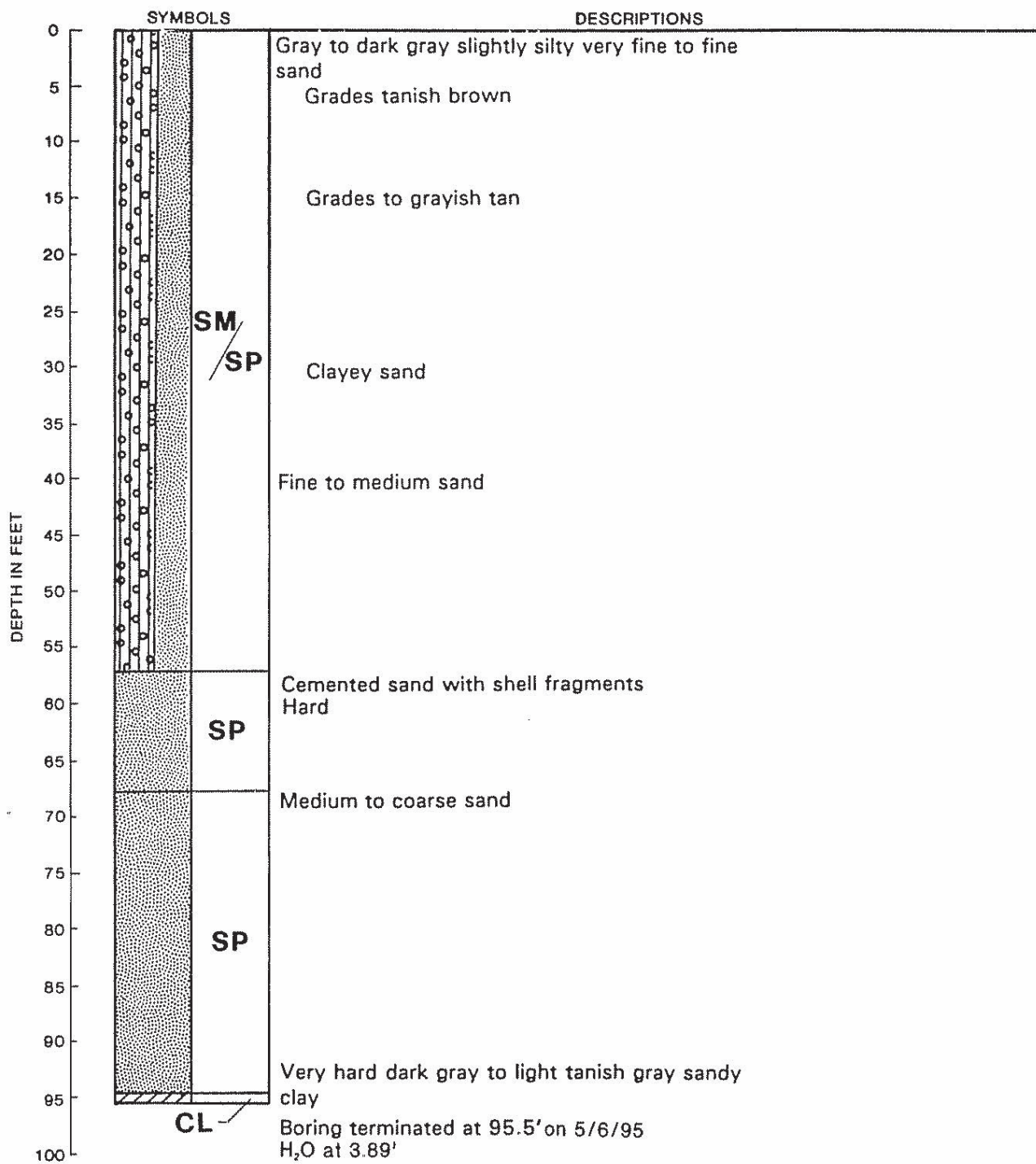


KEY:

ID	USCS Description
SM	Silty Sand
SP	Sand
SC	Clayey Sand
CL	Clay

**BORING LOG FOR MW-9(D)**  
**Hercules Incorporated**  
 Brunswick, Georgia

The historical Boring Log for Well MW-10S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.



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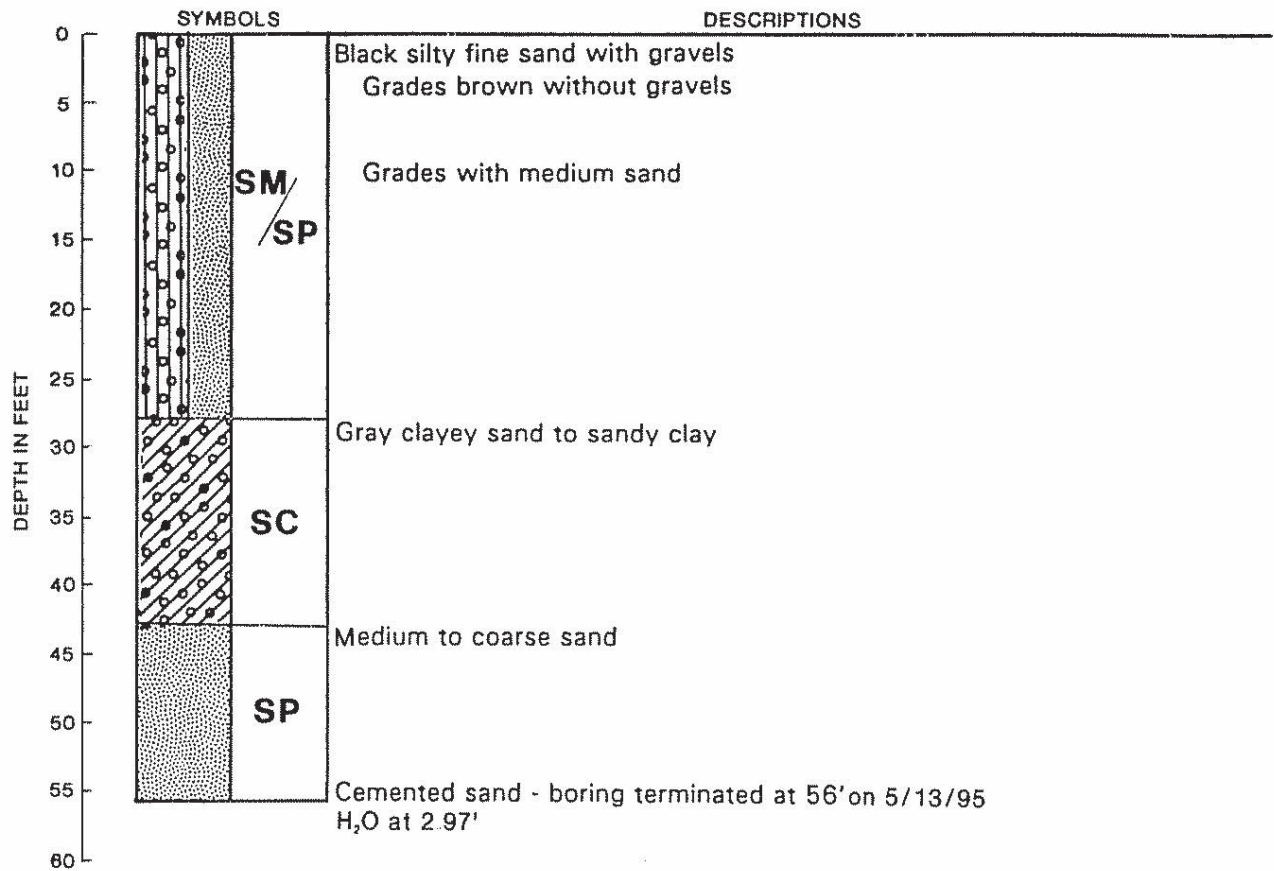
ID	USCS Description
SM	Silty Sand
SP	Sand
SC	Clayey Sand
CL	Clay

BORING LOG FOR MW-10(D)  
Hercules Incorporated  
Brunswick, Georgia

DAMES & MOORE

The historical Boring Log for Well MW-11S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.





KEY:

ID	USCS Description
SM	Silty Sand
SP	Sand
SC	Clayey Sand
CL	Clay

BORING LOG FOR MW-11(D)  
 Hercules Incorporated  
 Brunswick, Georgia

Project Name			Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia					MW-11DD	
Address	Drilling Contractor/License	Northing	424866.69	Ground Surface Elevation		
2801 Cook Street	Groundwater Protection	Easting	872461.24	5.20		
Brunswick	Georgia	Drilling Equipment	Well Screen Interval	Top of Well Casing Elevation		
	Roto Sonic	81-91 ft.		8.23		
GA EPD Number	Drilling Method	Well Screen Slot Size		Total Well Depth		
GAD004065520	Roto Sonic	0.01 inch		91 ft.		
Logged By H. Hight	Date Drilling Started	Well Casing Diameter and Type		Boring Depth	Boring Dia.	
Approved By C. Weaver	7/10/14	2 in. SCH 40 PVC		95 ft.	6 in.	
Driller Name A. Hak	Date Drilling Completed	Sampling Method		Headspace Monitoring Device		
Project Number WBS2014B2	7/11/14	Continuous Cores		PID		

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 0.3) TOPSOIL: Surface Grass/Topsoil / Black Sand, fine grained, roots		0-5	2.4		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(0.3- 5.0) SAND: Black to dark brown fine sand, trace silt, loose, slightly moist 0 - 5 Post-hole					Cement Grout: 0-77'	
	5		(5.0- 7.5) SAND: Brown-light brown, fine sand, loose	SM	5-10	2.3		Well Casing: 0-81'	5
			(7.5- 10.0) SAND: Light gray fine sand, loose, trace silt, loose	SM				Well Diameter: 2"	
	10		(10.0- 12.0) SILTY SAND: Gray silty fine sand, trace clay	SM	10-15	3.2			10
			(12.0- 13.0) SILTY SAND: Dark gray silty fine sand, angular shell fragments	SM					
	15		(13.0- 15.0) SILTY SAND: Gray silty fine sand, loose	SM	15-20	4.3			15
			(15.0- 16.0) SAND: Gray fine sand, trace silt, loose	SM					
			(16.0- 17.0) SAND: Fine-coarse sand, angular shell fragments, loose	SM					
	20		(17.0- 20.0) SILTY SAND: Gray fine sand, some silt, trace clay, small angular shell fragments, loose	CL	20-25	2.5			20
			(20.0- 21.0) SANDY CLAY: Medium gray sandy clay, small angular shell fragments	CL					
			(21.0- 23.0) SANDY CLAY: Medium gray clay, some fine sand	CL					
	25		(23.0- 25.0) SANDY CLAY: Gray sandy clay, small angular shell fragments						25

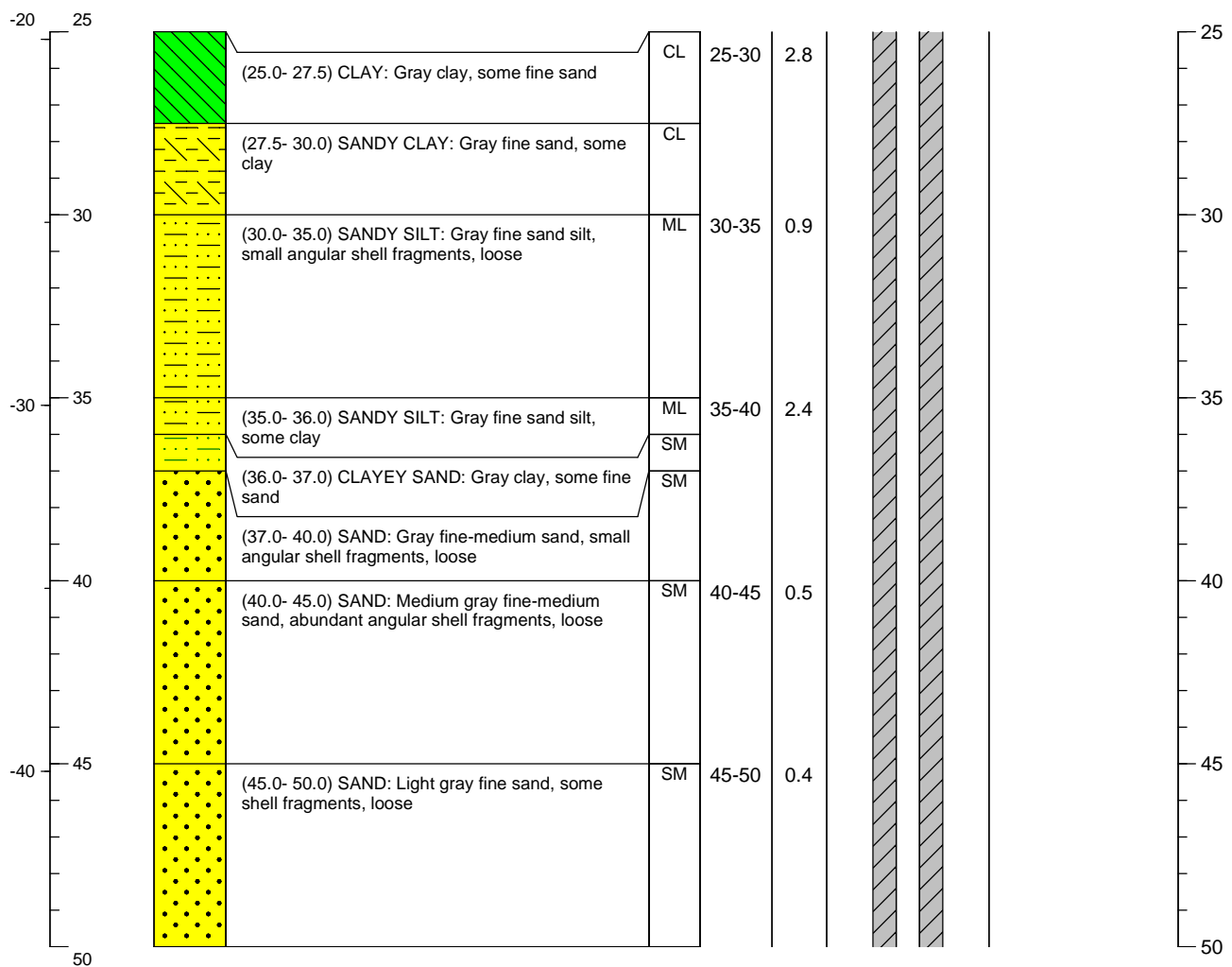


<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-11DD
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424866.69</b> <b>872461.24</b>	Ground Surface Elevation <b>5.20</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>81-91 ft.</b>	Top of Well Casing Elevation <b>8.23</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>91 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/10/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>95 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/11/14</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-11DD
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424866.69</b> <b>872461.24</b>	Ground Surface Elevation <b>5.20</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>81-91 ft.</b>	Top of Well Casing Elevation <b>8.23</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>91 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/10/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>95 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/11/14</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

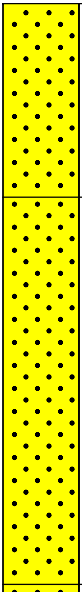
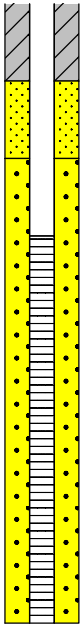
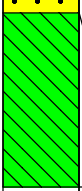
Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
50			(50.0- 54.0) SAND: Light gray fine sand, loose	SM	50-55	5.6			50
			(54.0- 55.0) SANDY CLAY: Gray clay, some sand, some medium-coarse subrounded gravel (>2 in diam)	CL					
-50	55		(55.0- 60.0) CLAYEY SAND: Gray clayey fine-coarse sand, some subrounded gravel (>2 in diam), loose	SC	55-60	2.3			55
			(60.0- 63.0) SAND: Gray fine-coarse sand, some subrounded gravel (>2 in diam.), loose	SM	60-65	5.7			60
			(63.0- 75.0) SAND: Gray fine-medium sand, loose	SM					
					65-70	5.0			65
-60	65								
					70-75	14.9			70
-70	75								75



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-11DD
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424866.69</b> <b>872461.24</b>	Ground Surface Elevation <b>5.20</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>81-91 ft.</b>	Top of Well Casing Elevation <b>8.23</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>91 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/10/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>95 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/11/14</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

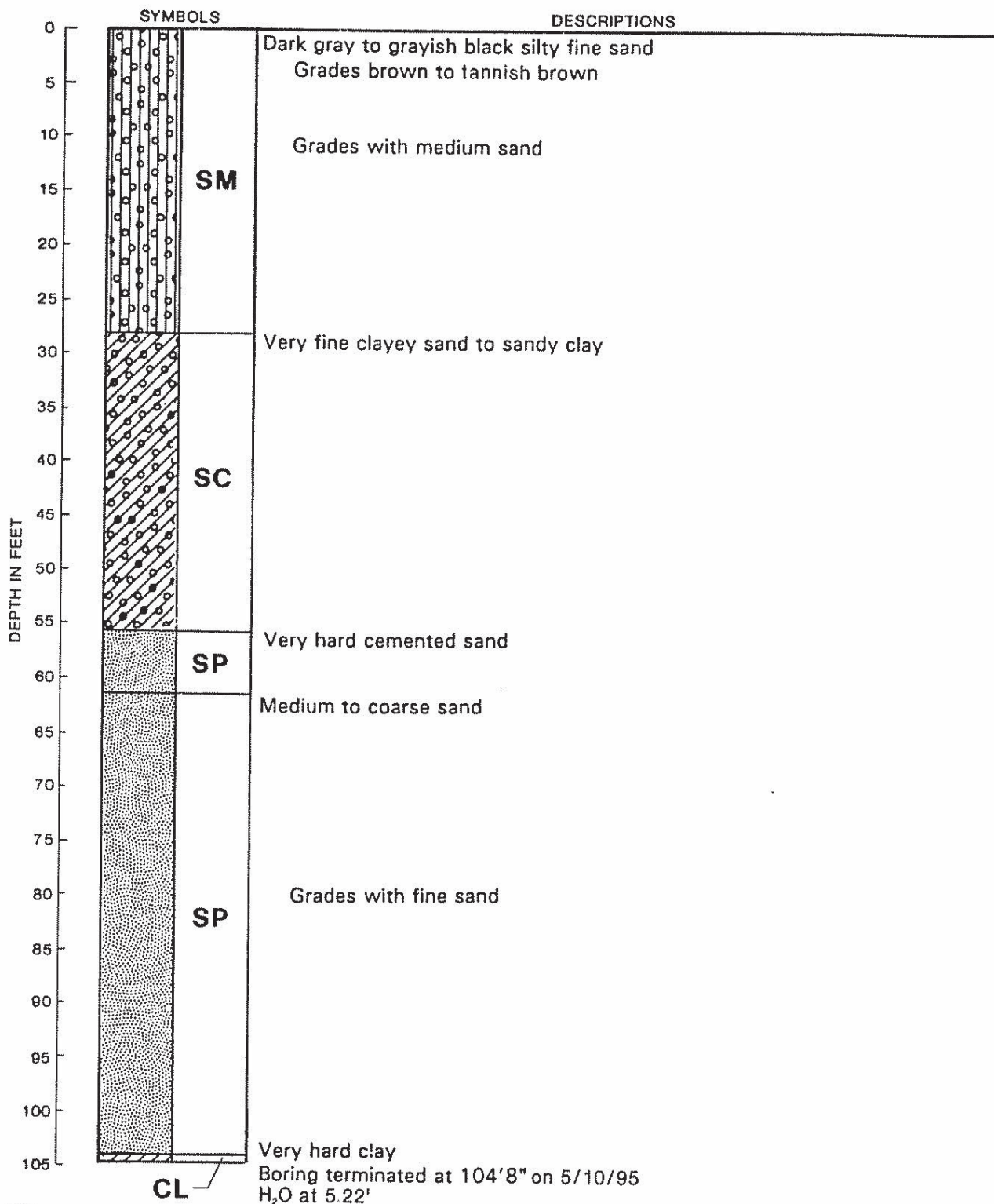
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-70	75		(75.0- 80.0) SAND: Gray fine-medium sand, loose, wet, some clay + silt nodules ~2" diam	SM	75-80	13.7		Fine Sand: 77-79'	75
-80	80		(80.0- 90.0) SAND: Gray fine-medium sand, loose	SM	80-85	122.0		#2 Silica Sand: 79-91'	80
-80	85		(90.0- 90.5) SAND: Gray fine-medium sand, some clay	SM CL	85-90	133.0		Well Screen: 81-91'	85
-90	90		(90.5- 95.0) CLAY: Gray clay, some fine sand, stiff, dry		90-95	8.7		Well set at 91 ft. bgs. with 10 ft of screen.	90
-90	95		Boring terminated at 95 ft. bgs.						95
	100								100





The historical Boring Log for Well MW-12S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.



KEY:

ID	USCS Description
SM	Silty Sand
SP	Sand
SC	Clayey Sand
CL	Clay

**BORING LOG FOR MW-12(D)**  
Hercules Incorporated  
Brunswick, Georgia

DAMES & MOORE

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-13**

Concrete pad,  
minimum 2ft x 2ft x 6in.

Depth (ft.)	Description	SPT-BFT	REC.	Comments (PID)
0		N/A	3'	Hand augered to a depth of 3' - auger refused from wood
5	Silty sand, fine to med, blk to drk brwn to drk gray, very loose, wet, trace organics (wood)	weight of hammer	12"	PID 0.4 ppm
10		3-4 4-5	18"	PID 2.5 ppm
15		3-2 2-2	6"	PID 4.5 ppm
20		2-4 5-6	15"	PID 2.8 ppm
25	Sand, med, loose to med dense, wet, marine carbonates	2-7 10-10	24"	PID 3.7 ppm
30		10-16 17-12	15"	PID 3.5 ppm
35	Sand, fine to med, blue gray, med dense, wet	5-5 7-9	16"	PID 2.4 ppm
40	Silty sand, fine, blue gray, loose, wet	5-13 13-17	14"	PID 0.4 ppm
45	Sand, med to coarse, gray, med dense, moist, marine carbonates	5-12 17-20	15"	PID 0.4 ppm
50		8-9 11-11	12"	PID 0.3 ppm
55	Sand, coarse, gray, very dense, moist	23-35 50/2	20"	PID 0.1 ppm

Elev. 10.546 ft

Protective casing  
with locking cover

Elev. 7.643 ft

Date Installed: 17 October 2000  
Well Construction: 2" diameter PVC  
Outer Casing: 6" diameter PVC installed at 91-feet.

Drilling Technique: 0-95', 10" diameter Mud Rotary  
95-132, 6" diameter Mud Rotary

 **GEO SYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-13
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-13.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW13

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-13**

Depth (ft.)	Description	SPT-BFT	REC.	Comments (PID)
60	Sand, coarse, gray, very dense	25-35 35-37	18"	PID 0.0 ppm
65				
65	Sand, coarse, gray, dense, moist	47-50/2	7"	PID 0.0 ppm
70				
70		15-21 27-31	14"	PID 0.0 ppm
75				
75	Clayey sand, med gray, moist	11-25 24-26	20"	PID 0.4 ppm
80				
80		19-45 50/2	14"	PID 0.0 ppm
85				
85		8-11 27-31	24"	PID 0.2 ppm
90				
90	Clay, blue gray, stiff, moist	N/A	N/A	split spoon sample was not taken, sample obtained from auger tip
95				
95	Sandy clay, gray, vey stiff, moist	7-12 20-29	24"	PID 2.2 ppm
100				
100		6-7 15-27	20"	PID 2.2ppm
105				
105	Clayey sand, coarse to med gray dense to very dense, moist	14-26 41-50/35	24"	PID 0.5 ppm
110				
110	Silty clayey sand, coarse to med, gray, very dense, moist	8-22 48-50/5	21"	PID 0.5 ppm
115				
115	Silty sand, fine gray, dense to very dense, wet to moist	20-26 40-50/5	22"	PID 0.5 ppm

Grout

Bentonite Seal

Date Installed: 17 October 2000  
Well Construction: 2-inch diameter PVC  
Outer Casing: 6-inch diameter PVC installed at 91-feet.

Drilling Technique: 0-95', 10" diameter Mud Rotary  
95-132, 6" diameter Mud Rotary

 **GEOSYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-13
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-13.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW13.vsd



**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-13**

Depth (ft.)	Description	SPT-BFT	REC.	Comments (PID)
120		21-29 44-40	24"	PID 0.5 ppm
125		25-36 40-50/3	24"	PID 0.4 ppm
130	Sand, fine, gray, very dense, moist	50/5.2	7"	PID 0.8 ppm
135		23-30 28-26	24"	PID 0.6 ppm
140		4-8 12-20	24"	PID 1.0 ppm
145	Sand, fine w/ interbedded olive clay seams (1/2"-2" thick), gray, med dense, moist	3-8 17-29	24"	PID 1.0 ppm
150	Boring terminated at 150'			

Date Installed: 21 October 2000  
Well Construction: 2-inch diameter PVC  
Outer Casing: 6-inch diameter PVC installed at 91-feet.

Drilling Technique: 0-95', 10" diameter Mud Rotary  
95-132, 6" diameter Mud Rotary

 **GEOSYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-13
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-13.vsd
FILE NO.	N:\hercules\borlogsdec2000\MW18.vsd

The historical Boring Log for Well MW-14S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.



**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-14D**

Depth (ft.)	Description	Concrete pad, minimum 2ft x 2ft x 6in.		Elev. 7.864 ft		Elev. 7.537 ft		SPT- BFT	REC.	Comment (PID)
0								N/A	3"	Hand angled to a depth of 5'
5	Sand, fine, blk-drk brwn/drk gray-lt gray, loose, moist							2-2, 1-1	17"	PID 0.0 PPM
10	Sand, fine, drk-med brwn, very loose, wet							4-5, 4-6	15"	PID 0.0 PPM
15	Sand, fine to med, lite brwn to lite gray, very loose, wet							1-1, 1-1	22"	PID 0.0 PPM
20	Clay, dark gray, soft, wet									
25	Sand and marine carbonates, coarse, drk gray, loose, wet							4-9, 8-12	15"	PID 0.0 PPM
30								4-5, 6-4	15"	PID 0.0 PPM
35								1-4, 4-5	18"	PID 0.0 PPM
40	Sand, fine, to med w/ some clay, gray, loose to very loose, wet							4-5, 6-4	7"	PID 1.5 PPM
45								2-1	0"	No recovery
50								1-2,		
55	Sand, fine, gray, very loose, wet, slight odor							2-1, 2-3	1"	PID 0.5 PPM
								weight of hammer	2"	PID 1.5 PPM
	Sand, med, drk gray to gray, very loose to loose, wet, odor & staining							1/12"-9 7	18"	PID 7.9 PPM

Date Installed: 3 November 2000

Well Construction: 2-inch diameter PVC

Drilling Technique: 0'-87' 6" Mud Rotary



**GEOSYNTEC CONSULTANTS**

ATLANTA, GEORGIA

FIGURE NO. MW-14D

PROJECT NO. GR1057-103

DOCUMENT NO. MW-14D.vsd

FILE NO. N:\hercules\herlog\sdrc\2000\MW-

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK,, GA  
MW-14D**

Depth (ft.)	Description		SPT- BFT	REC.	Comments (PID)
60	Sand, med to coarse, drk gray, loose, wet, odor & staining	Circuit	4-6, 8-12	24"	PID 9.3 PPM
65	Clayey, sand course gray, very dense, moist, odor		29-32, 43-50/2	24"	PID 9.3 PPM
70	Sand, med to coarse, gray, loose, moist, slight odor		3-7, 1-2	14"	PID 2.9 PPM
75	Sand, and fine gravel , course, gray, med dense, wet, slight odor	Bentonite Plug	4-3, 13-18	24"	PID 1.9 PPM
80		Sand pack	4-6, 9-12	24"	PID 2.9 PPM
85			7-9, 16-19	24"	PID 64.5 PPM
	Clayey sand, fine w/ some fine gravel, drk gray, moist, odor & staining				
	Clay, olive, very stiff, moist odor				
	Boring terminated @ 87'				
90					
95					
100					
100.0					
100.0					
100.0					
100.0					

Date Installed: 3 November 2000  
Well Construction: 2-inch diameter PVC

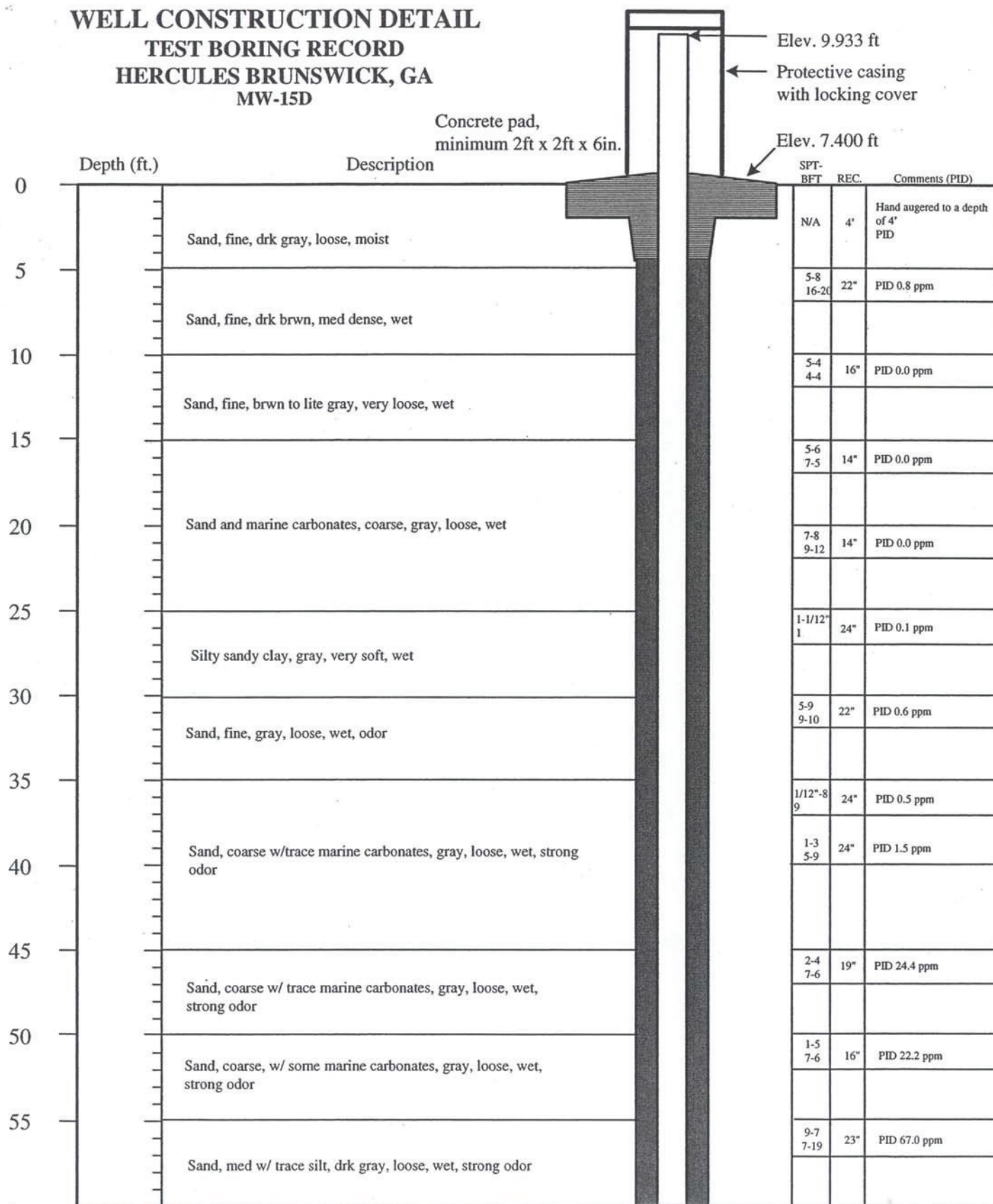
Drilling Technique: 0'-87' Mud Rotary

 **GEO SYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-14D
PROJECT NO.	GR1057
DOCUMENT NO.	MW-14D.rsd
FILE NO.	N:\hercules\borings\dec2000\MW

The historical Boring Log for Well MW-15S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-15D**



Date Installed: 10 November 2000  
Well Construction: 2" diameter PVC

Drilling Technique: 0'-90' 6" Rotary Mud

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-15D**

Depth (ft.)	Description		SPT-BFT	REC.	Comments (PID)
60	Sand, fine, drk gray, dense, wet, strong odor		11-25 40-47	20"	PID 30.8 ppm
65	Clayey sand, coarse, gray, very dense, moist, strong odor				
	Clayey sand, coarse, gray, very dense, moist, strong odor		18-50/ 5.5"	11"	PID 48.8 ppm
70	Silty sand, fine w/ trace clay, gray, very dense, moist, strong odor		7-50/3	7"	PID 19.8 ppm
75			14-25 30-40	15"	PID 10.8 ppm
80	Sand & fine gravel, coarse, gray, med dense, wet, strong odor		1-1 18-23	18"	PID 17.3 ppm
85			8-1 4-13	23"	PID 3.1 ppm
	Sand, coarse, gray, loose, wet, strong odor				
90	Boring terminated @ 90'				
95					
100					
100.0					
100.0					
100.0					
100.0					

Date Installed: 10 November 2000

Drilling Technique: 0'-90' Rotary Mud

 **GEO SYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

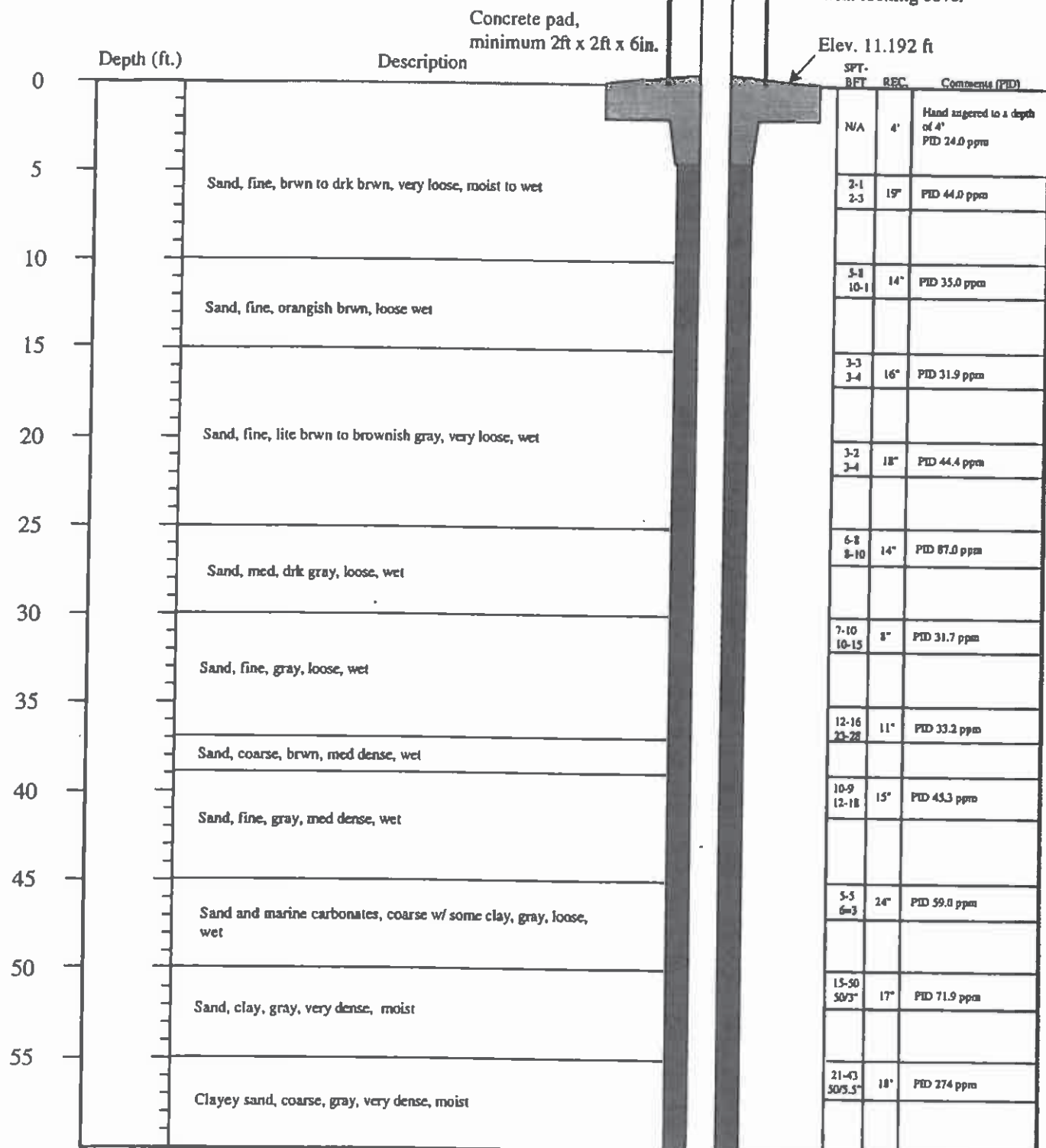
FIGURE NO.	MW-15D
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-15D.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW15D.vsd

The historical Boring Log for Well MW-16S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.



# WELL CONSTRUCTION DETAIL

## TEST BORING RECORD HERCULES Brunswick, GA MW-16D



Date Installed: 9 November 2000  
Well Construction: 2" diameter PVC

Drilling Technique: 0'-80' 6" Rotary Mud



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FIGURE NO. MW-16D

PROJECT NO. GR1057-103

DOCUMENT NO. MW-16D.vsd

FILE NO. N:\hercules\borlog\dec2000\MW16D

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES Brunswick, GA  
MW-16D**

Depth (ft.)	Description		SPT- BFT	REC	Comments (PID)
60	Sand, coarse, gray, very dense, wet	Grout	31-50/ 3"	9"	PID 171 ppm
65	Sand and fine gravel, coarse, drk gray, loose, wet				
	Clayey sand and fine gravel, coarse, drk gray, loose, wet	Bentonite Seal	9-9 8-8	20"	PID 355 ppm
70	Sand and fine gravel, coarse, drk gray, med dense, wet				
	Sandy clay, gray, hard, moist	Sand Pack	13-21 36-28	21"	PID 671 ppm
75	Clayey sand, fine, gray, med dense, moist				
	Sandy clay, olive, stiff, moist.		9-10 15-20	24"	PID 424 ppm
80	Boring terminated @ 82'		5-9 9-16	24"	PID 1639 ppm
85					
90					
95					
100					
100.0					
100.0					
100.0					
100.0					

Date Installed: 9 November 2000  
Well Construction: 2" diameter PVC

Drilling Technique: 0'-80' 6" Rotary Mud

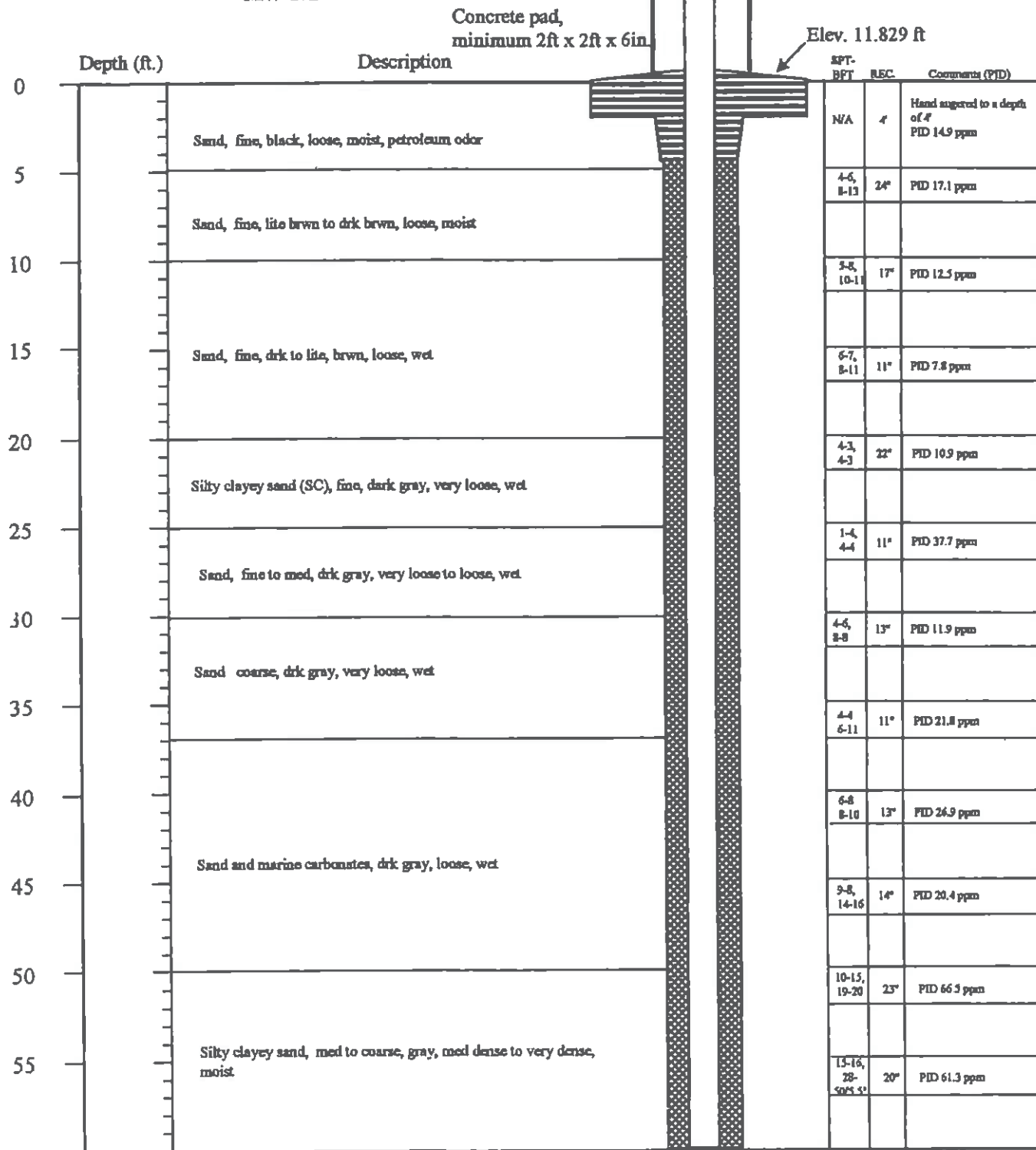


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FIGURE NO.	MW-16D
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-16D.rsd
FILE NO.	N:\hercules\borings\dec2000\MW16D.rsd

The historical Boring Log for Well MW-17S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-17D**



Date Installed: 8 November 2000

Drilling Technique: 0'-85' 6-inch diameter Mud Rotary



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FIGURE NO. **MW-17D**

PROJECT NO. GR1057-103

DOCUMENT NO. MW-17D.vsd

FILE NO. N:\hercules\borlogs\dec2000\MW17D

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-17D**

Depth (ft.)	Description		SPT-BFT	REC.	Comments (PID)
60	Sand, coarse with trace fine gravel, gray, very dense, wet	Grout	24-30 50/2"	8"	PID 73.9ppm
65	Sand, fine, drk gray, loose, wet		7-12, 10-17	24"	PID 210 ppm
70	Clay, olive, very stiff, moist	Bentonite Seal	12-24, 13-21	19"	PID 77.4 ppm
75	Sand, fine to med, gray, med dense, wet, trace marine carbonates		2-2, 12-17	17"	PID 89.9 ppm
80	Sand and marine carbonates, med gray, loose, wet	Sandpack	17- 50/5.5"	18"	PID 67.2 ppm
85	Sand and fine gravel, med to coarse, gray, med dense, wet		21-31, 47-38	24"	PID 52.6 ppm
	Sandy Clay, gray, hard, moist				
	Boring terminated @ 85'				
90					
95					
100					
100.0					
100.0					
100.0					
100.0					

Date Installed: 8 November 2000

Drilling Technique: 0'-85' 6-inch diameter Mud Rotary



**GEO SYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO. MW-17D

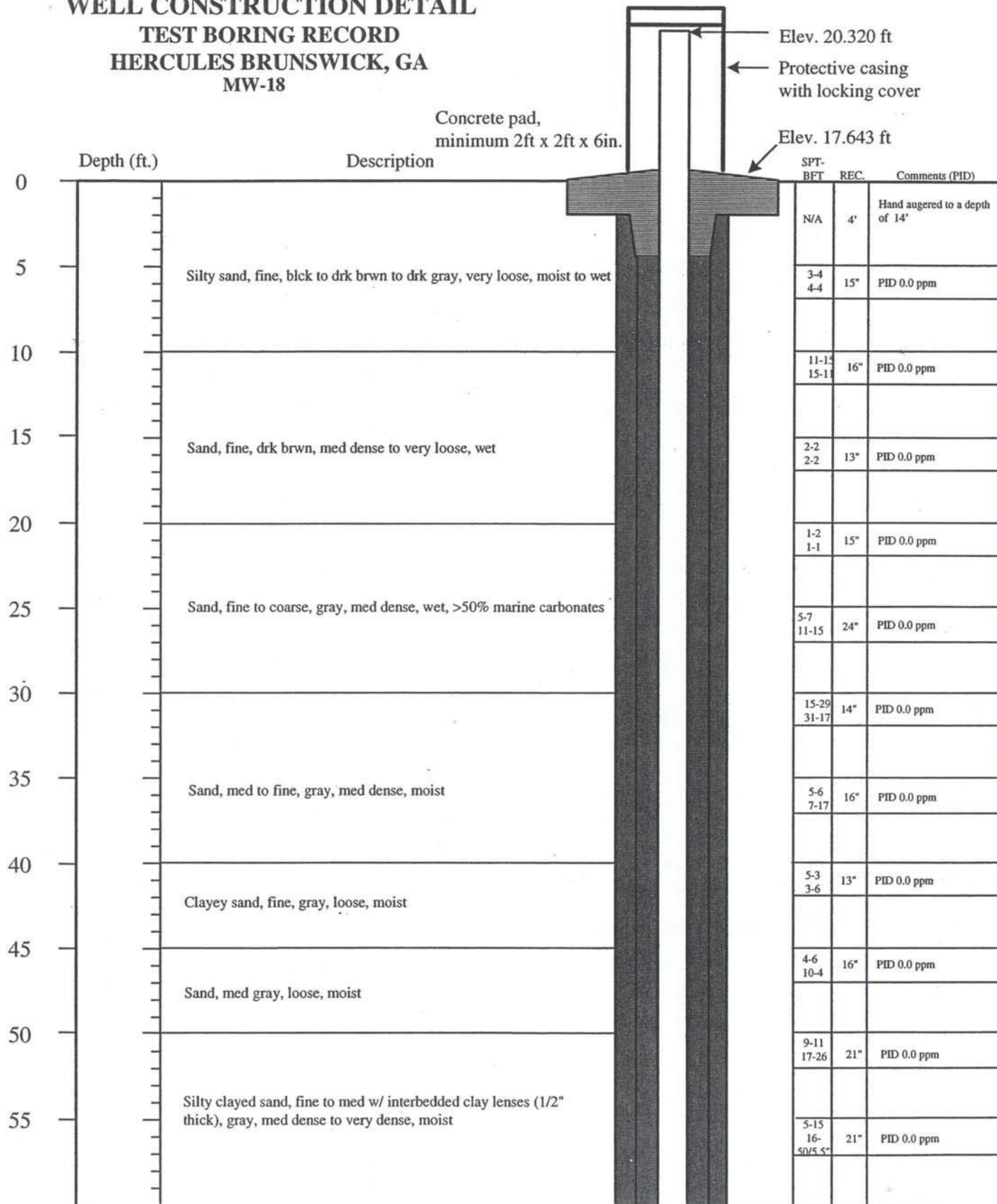
PROJECT NO. GR1057-103

DOCUMENT NO. MW-17D.vsd

FIGURE NO.

AT: Hercules Brunswick.doc MW-17D (17D).vsd

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-18**



Date Installed: 21 October 2000  
Well Construction: 2" diameter PVC  
Outer Casing: 6" diameter PVC installed at 91-feet.

Drilling Technique: 0-95', 10' diameter Mud Rotary  
95-132, 6" diameter Mud Rotary

 **GEOSYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-18
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-18.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW18



**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-18**

Depth (ft.)	Description	SPT-BFT	REC.	Comments (PID)
60		50/5.5	16"	PID 0.0 ppm
65				
70		39-21 29-15	24"	PID 0.0 ppm
75	Sand, coarse, gray, med dense, moist			
80		21-22 25-27	17"	PID 0.0 ppm
85	Sand and clayey sand, coarse, gray, med dense to very dense, moist			
90		50/5.5	7"	PID 0.0 ppm
95				
100		50/3	NR	PID 0.0 ppm
105				
110	Sandy clay, gray, stiff, moist			
115		6-9 11-19	24"	PID 0.0 ppm
		6-8 12-20	24"	PID 0.0 ppm
		6-8 12-23	24"	PID 0.0 ppm
		16-14 19-27	20"	PID 0.0 ppm

Grout

Bentonite Seal

Date Installed: 21 October 2000  
Well Construction: 2-inch diameter PVC  
Outer Casing: 6-inch diameter PVC installed at 91-feet.

Drilling Technique: 0-95', 10" diameter Mud Rotary  
95-132, 6" diameter Mud Rotary

 **GEOSYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-18
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-18.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW18.vsd

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-18**

Depth (ft.)	Description		SPT-BFT	REC.	Comments (PID)
120			8-11 14-25	24"	PID 0.0 ppm
125					
	Silty sand, fine w/ interbedded olive clay seams, gray, med dense, moist		11-19 22-30	24"	PID 0.0 ppm
130					
	Silty sandy clay, olive, very stiff, moist		4-8 16-35	24"	PID 0.0 ppm
	Boring terminated at 132'				
135					

Date Installed: 21 October 2000  
Well Construction: 2-inch diameter PVC  
Outer Casing: 6-inch diameter PVC installed at 91-feet.

Drilling Technique: 0-95', 10" diameter Mud Rotary  
95-132, 6" diameter Mud Rotary



FIGURE NO.	MW-18
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-18.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW18.vsd

The historical Boring Logs for Wells MW-19S and MW-19I could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-19D**

Depth (ft.)		Description	<div>Concrete pad, minimum 2ft x 2ft x 6in.</div> <div>Elev. 20.895 ft</div> <div>Protective casing with locking cover</div> <div>Elev. 18.149 ft</div>			SPT- BFT	REC.	Comments (PID)
0						N/A	4"	Hand augered to a depth of 4"
5		Sand, fine, black to drk gray, loose, dry, trace of root hairs				8-6, 7-10	24"	PID 39.7 ppm
10		Sand, fine, black to drk brwn, loose, dry, trace wood						
15		Sand, fine, drk brwn, very loose, wet				2-2, 2-5	14"	PID 45.2
20		Sand, fine, brwn to lite brwn, very loose, wet						
25						4-6, 5-6	15"	PID 14.2
30		Sand, coarse to med, drk brwn to dk gray, very loose, wet				2-2, 2-4	15"	PID 92.7
35								
40		Sand & marine carbonates, coarse, gray, med dense, wet				hammer 140 lbs	16"	PID 42.9
45								
50		Sand and interbedded clay seams (2"-4"), fine, gray, very loose, wet				11-11, 15-20	18"	PID 58.3
55								
		Clay, blue gray, very soft, moist				4-5, 6-4	14"	PID 30.9
		Sand, coarse, loose, gray, wet				4-6, 6-6	24"	PID 24.4
		Sand, coarse, gray, very dense, wet				2-1, 4-5	24"	PID 6.9
		Sand and interbedded clay seams (1/2"-3" thick), fine, gray, med dense, wet				43-50/ 5.5"	10"	PID 10.5
						4-7, 10-21	24"	PID 19.2

Date Installed: 3 November 2000  
Well Construction: 2" diameter PVC

Drilling Technique: 0'-83' 6" diameter Mud Rotary

 **GEOSYNTEC CONSULTANTS**  
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FIGURE NO.	MW-19D
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-19D.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW19D



**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK  
MW-19D**

Depth (ft.)	Description		SPT-BFT	REC.	Comments (PID)
60			6-9, 17-30	24"	PID 9.3
		Grout			
65	Sandy clay w/ fine gravel, gray, stiff to very hard, moist				
		Bentonite Seal	11-38, 50/5.5"	21"	PID 51.2
70					
	Sand, coarse, gray, loose, wet		3-1, 8-6	17"	PID 10.8
75	Sand and marine carbonates, coarse, gray, loose, wet				
		Sandpack	6-6, 11-50/2"	19"	PID 19.3
80	Clayey sand, coarse, gray, very dense, moist				
			50-4.5	13"	PID 20.8
85	Boring terminated @ 83'				
90					
95					
100					
100.0					
100.0					
100.0					
100.0					

Date Installed: 3 November 2000

Drilling Technique: 0'-83' 6-inch diameter Mud Rotary



**GEO SYNTEC CONSULTANTS**  
ATLANTA, GEORGIA

FIGURE NO.	MW-19D
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-19D.vsd
FILE NO.	N:/hercules/borlogsdec2000/MW19D.vsd

The historical Boring Logs for Wells MW-20S and MW-20I could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.



**WELL CONSTRUCTION DETAIL**  
**TEST BORING RECORD**  
**HERCULES BRUNSWICK, GA**  
**MW-20D**

Concrete pad,  
minimum 2ft x 2ft x 6in.

Elev. 9.921 ft

Protective casing  
with locking cover

Elev. 7.614 ft

Depth (ft.)	Description	SPT- BFT	REC.	Comments (PID)
0		N/A	2"	Hand augered to a depth of 2", auger refusal @ 2" from wood
5	Silty sand, fine, very loose, blk and tan, moist, some organics (wood)	3-4 4-5	8"	PID 23.2 ppm
10		5-6 6-7	24"	PID 0.0 ppm
15		1/12" 1/12"	24"	PID 0.0 ppm
20	Silty clay sand, fine, gray to drk gray, very loose to loose, wet	1-1 1-1	24"	PID 0.0 ppm
25		1/12"-1 1	24"	PID 0.0 ppm
30		4-5 6-10	14"	PID 0.0 ppm
35	Sand, fine to med, gray, loose, moist	4-2 2-7	16"	PID 0.0 ppm
40	Silty sand with interbedded clay seams (1"-2" thick), fine, gray, loose, moist	6-6 8-9	24"	PID 0.0 ppm
45		14-14 15-15	21"	PID 0.0 ppm
50	Sand, med gray, loose, wet, trace marine deposits (shells)	7-8 9-9	14"	PID 0.0 ppm
55		23-45 30/5.5"	16"	PID 0.0 ppm
	Sand, med to fine, drk gray, very dense, moist			

Date Installed: 25 October 2000

Drilling Technique: 0'-90' 6" Mud Rotary

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FIGURE NO. MW-20D

PROJECT NO. GR1057-103

DOCUMENT NO. MW-20D.vsd

FILE NO. N:\hercules\borings\dec2000\MW20D

**WELL CONSTRUCTION DETAIL  
TEST BORING RECORD  
HERCULES BRUNSWICK, GA  
MW-20D**

Depth (ft.)	Description	SPT- RFT	REC.	Comments (PID)
60	Sand, med to fine, dark gray, very dense, moist	17-21 43-38	19"	PID 0.0 ppm
65	Sand and silty sand, coarse to med, gray, med dense, moist	27-21 20-24	20"	PID 0.0 ppm
70		4-7 1-2	17"	PID 0.0 ppm
75	Sand, coarse, gray to drk gray, very loose to med dense, moist	9-20 21-26	18"	PID 0.0 ppm
80	Sand, fine w/ interbedded caly, gray, med dense, moist	11-9 17-20	16"	PID 0.0 ppm
85	Sandy clay, gray, stiff to very stiff, moist	18-12 14-24	24"	PID 0.0 ppm
90	Boring terminated @ 90'			
95				
100				
100.0				
100.0				
100.0				
100.0				
100.0				

Date Installed: 25 October 2000  
Well Construction: 2-inch diameter PVC

Drilling Technique: 0'-90' 6" Mud Rotar



FIGURE NO.	MW-20D
PROJECT NO.	GR1057-103
DOCUMENT NO.	MW-20D.vsd
FILE NO.	N:\hercules\herlog\gsu000001\W20D.vsd

The historical Boring Logs for Wells MW-21, MW-22, MW-23, MW-24 and MW-25S could not be located. Well construction details for all monitoring wells are preserved and included as **Table C-6**.

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**BORING LOG**

BORING NO.: **MW-25D**  
DATE: **9-7-05**

**PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION.: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 90.5 ft.  
TOP OF CASING ELEV.: 10.27 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	3		SM	SILTY SAND: fine, gray brown			
6							
4			SP	SAND: fine, gray brown	0		
2							
0				SAND: fine, tan	0		
-2							
-4			SP		0		
-6							
-8					0		
-10							
-12							
-14					0		
-16			SP-SM	SAND: fine, slightly silty, gray, with trace medium to coarse sand and trace clay with depth			
-18							
-20							
-22							
-24							
-25							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/9-05

PROJECT: Hercules

BORING NO.: MW-25D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-18					0		
-20				SAND: fine to medium, medium gray			
-22			SP		0		
-24							
-26					0		
-28							
-30					0		
-32							
-34					0		
-36				SAND: very fine, light gray, trace silt			
-38					0		
-40							
-42				SAND: fine to medium with trace coarse sand/fine gravel and 0.1 to 0.25 ft beds of highly plastic clay			
-44					0		
-46							
-48				SAND: medium, light gray			
-50				SILTY SAND: fine to medium sand, hard, light to medium gray			
-52					0		
-54			SC	CLAYEY SAND: light to medium gray, trace coarse sand			
-56			SP	SILTY SAND: medium sand, light to medium gray			
-58				SAND: fine to coarse sand some weakly	0		

NOTES:

Water Level during  
drillingWater level in completed  
monitoring well on  
9/9/05

Page 2 of 3

PROJECT: Hercules

BORING NO.: MW-25D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-58				cemented, medium gray, slightly clayey from 71 to 73 ft.			
-60							
-70					0		
-62							
-64							
-66			GP	SAND AND GRAVEL: medium to coarse sand with well rounded gravel up to 30mm, light gray	0		
-68							
-70				CLAY: very stiff, mottled olive gray and medium gray			
-72			CL		0		
-74			SP	SAND: medium to coarse, medium gray with trace of clay from 84.5 to 85 ft.			
-76							
-78				SANDY SILT: hard, clayey, tan	0		
-80			SM				
-82							
-84							
-86							
-88							
-90			SC	CLAYEY SAND: silty, medium sand, olive gray	0		Boring Terminated at 90.5 ft.

NOTES:



Water Level during drilling


 Water level in completed  
monitoring well on  
9/9/05

Page 3 of 3



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**BORING LOG**BORING NO.: **MW-25S**DATE: **9-7-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION.: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 16.0 ft.  
TOP OF CASING ELEV.: 10.37 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
6			SM	SILTY SAND: fine, gray brown			
4			SP	SAND: fine, gray brow	0		
2				SAND: fine, with trace of silt, tan	0		
0							
-2			SP		0		
-4							
-6							
-8					0		
-10							
-12							
-14							
-16							Boring Terminated at 16 ft.

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/9/05

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**BORING LOG**

BORING NO.: **MW-26D**  
DATE: **9-19-05**

**PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 90.0 ft  
TOP OF CASING ELEV.: 6.97 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: -0.24 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
6			SM	SILTY SAND: dark brown, with organic material (roots, humus)			
4			SM-SP	SAND: slightly silty, light brown			
-5				SAND: fine to medium sand, tan	0		
0			SP				
-2					0		
-4			SP	SAND: fine, medium gray with marine shells from 15 to 15.3 ft.			
-6					0		
-8			SC	CLAYEY SAND: soft, medium gray, with 25% marine shells up to 12mm			
-10					0		
-12			SM	SILTY SAND: loose, medium sand, slightly clayey, with 10% marine shells			
-14					0		
-16				SAND: loose, fine sand, slightly clayey, with 5% marine shells, and interbeds 0.1 to 0.25 ft thick of greenish gray soft			
-25							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/20/05

PROJECT: Hercules

BORING NO.: MW-26D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-18				plastic CLAY	0		
-20			SP-SC		0		
-22					0		
-24			SP	SAND: fine to medium sand, light gray, with clay from 24.8 to 25 ft.	0		
-26					0		
-28					0		
-30			SC	CLAYEY SAND: loose, greenish gray with 15% marine shells	0		
-32					0		
-34					0		
-36					0		
-38			GP	SAND AND GRAVEL: medium sand with gravel consisting of cemented sand, light to medium gray	0		
-40				SAND: fine to medium sand, medium dense, slightly clayey, trace marine shells	0		
-42			SP	SAND: fine to medium sand, light gray	0		
-44			SP		0		
-46			SC	CLAYEY SAND: dense, medium to coarse sand, light gray	0		
-48					0		
-50			GC	CLAYEY GRAVEL: hard, light gray, gravel well rounded up to 20mm. 57-57.4ft gravel lithified to Conglomerate	0		
-52					0		
-54				SAND: fine to medium sand, light gray, trace marine shells	0		
-56					0		
-58					0		

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

Page 2 of 3

PROJECT: Hercules

BORING NO.: MW-26D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-60							
-62							
-70			SP		0		
-64							
-66							
-75					0		
-68							
-70							
-72							
-80				SAND: loose, fine to coarse, light gray, with some gravel sized fragments of cemented sand, trace well rounded gravel up to 10mm	0		
-74			SP				
-76							
-85					0		
-78							
-80							
-82							
-90							Boring Terminated at 90.05 ft.

NOTES:

Water Level during  
drillingWater level in completed  
monitoring well on  
9/20/05

Page 3 of 3

**GEOSYNTEC CONSULTANTS**

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**BORING LOG**BORING NO.: **MW-26S**DATE: **9-19-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION.: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 16.0 ft  
TOP OF CASING ELEV.: 6.83 ft  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: -0.36

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
-6			SM	SILTY SAND: dark brown, with organic material (roots, humus)			
-4			SP	SAND: slightly silty, light brown			
-5				SAND: fine to medium sand, tan	0		
-2			SP				
-10					0		
-4				SAND: fine to medium, slightly clayey to clayey, greenish gray			
-6			SP-SC				
-15					0		Boring Terminated at 16.0 ft

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/20/05

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**BORING LOG****BORING NO.: MW-27D****DATE: 9-12-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 90.5 ft  
TOP OF CASING ELEV.: 14.98 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.6 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	12		SM	SILTY SAND: dark brown, with organic material (roots, humus)			
10	8		SP	SAND: loose, fine to medium, brown changing to tan below 9 ft.	0		
-5	6				0		
-10	4				0		
-15	-2				0		
-20	-8			SILTY SAND: fine to medium, greenish gray, with interbed of coarse sand at 21 to 21.5 ft.	0		
-25	-12						

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9-20/05



PROJECT: Hercules				BORING NO.: MW-27D			
DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-14			SM		0		
-16			SP	SAND: loose, medium to coarse, light to medium gray	0		
-18			SP		0		
-20			SP		0		
-22			SP	SAND: fine to medium, light to medium gray, with several 5-50mm interbeds of soft highly plastic olive gray CLAY (CH)	0		
-24			SP		0		
-26			SP		0		
-28			SC	CLAYEY SAND: hard dense, very clayey, medium to coarse sand, gray to medium gray, crumbles, moist Sand seams at 46, 46.8 and 48 ft.	0		
-30			SC		0		
-32			SC		0		
-34			SC		0		
-36			SC		0		
-38			SC		0		
-40			SP	SAND: fine to coarse sand, slightly clayey, light gray	0		
-42			SP		0		
-44			GC	CLAYEY GRAVEL: with lumps of cemented sand up to 25mm and several interbeds of hard lithified gravels (conglomerate)	0		
-46			GC		0		
-48			GC		0		
-50			GP	GRAVEL AND SAND: loose, coarse sand and fine gravel, light gray, trace clay	0		
-52			GP		0		

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

PROJECT: Hercules

BORING NO.: MW-27D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-54			SP-SC	SAND: slightly clayey, fine to medium sand, light gray, with marine shells up to 1 inch			
-56			SP	SAND: slightly clayey, fine to coarse sand, dark gray, with interbeds of clayey gravel from 70 to 70.5, light gray, dry, muddy SANDSTONE from 70.5 to 71 ft and dense gray clayey, fine to medium SAND (SC) from 71-72 ft.	0		
-58							
-60							
-62					0		
-64			SP				
-66							
-68			GC	CLAYEY GRAVEL: with sand, light gray	0		
-70			SC	CLAYEY SAND: dense, fine sand, light gray			
-72				SAND: very dense, slightly clayey, very fine sand, light to medium gray	0		
-74			SP				
-76							
-90					0		Boring Terminated at 90.5 ft.

NOTES:



Water Level during drilling


 Water level in completed monitoring well on  
 9/20/05

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**GEOSYNTEC CONSULTANTS**

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**BORING LOG**BORING NO.: **MW-28D**DATE: **9-15-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 91.0 ft  
TOP OF CASING ELEV.: 8.37 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.7 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
4			SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)			
2							
0			SP	SAND: loose, fine sand, trace fines (silt clays)	0		
-2							
-4					0		
-6							
-8			SM	SILTY SAND: loose, slightly clayey, fine sand, olive gray.	0		
-10							
-12				CLAY: soft, greenish gray, high plasticity, trace sand	0		
-14			CH				
-16					0		
-18				SAND: loose, medium sand, medium gray, with trace to 5% marine shells. 0.2 ft interbed of greenish gray high			
-20							
-22							
-24							
-25							

**NOTES:**Water Level during  
drillingWater level in completed  
monitoring well on  
9/19/05

PROJECT: Hercules

BORING NO.: MW-28D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-20				plasticity CLAY (CH) at 25 ft.	0		
-22							
-24							
-26							
-28							
-30			SP		0		
-32							
-34							
-36							
-38							
-40					2		
-42							
-44							
-46							
-48							
-50			SP	SAND: loose, medium to coarse sand, medium gray, with up to 15% marine shells	13		
-52							
-54							
-56							
-58							
-60							
-62							
-64							
-66							
-68							
-70							
-72							
-74							
-76							
-78							
-80							
-82							
-84							
-86							
-88							
-90							
-92							
-94							
-96							
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-102							
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-588							
-590							
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-596							
-598							
-600							

PROJECT: Hercules

BORING NO.: MW-28D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-62			GP	GRAVEL: loose, slightly silty, medium sand, medium gray, with fragments up to 80mm of SANDSTONE			
-70	-64		GC	CLAYEY GRAVEL: dense to hard, sandy, slightly moist to dry at 70 ft.	0		
-66				SAND: medium to coarse, medium gray, wet, with trace fines			
-68							
-75	-70		SP		79		
-72							
-74							
-80	-76			CLAYEY SAND: dense to hard, medium to coarse sand, tan to light gray	36		
-78							
-85	-80		SC		9		
-82							
-90	-84				3		Boring Terminated at 91 ft.

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/19/05

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**GEOSYNTEC CONSULTANTS**

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**BORING LOG****BORING NO.: MW-29D****DATE: 9-16-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 89.75 ft  
TOP OF CASING ELEV.: 8.47 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.75 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
4							
2			SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)	0		
0							
2				SAND: loose, fine to medium sand, tan	0		
4			SP				
6							
8			CL	CLAY: slightly sandy, medium gray			
10					0		
12			SP	SAND: slightly clayey, fine to medium sand, medium gray with marine shells from 17 to 20 ft.			
14							
16					2		
18			CH	CLAY: medium gray, high plasticity with several thin sand interbeds			
20							
22							
24							
25							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/20/05



PROJECT: Hercules

BORING NO.: MW-29D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-20					0		
-22							
-24							
-26							
-28							
-30			SP	SAND: fine, light gray, with 3 interbeds of gray highly plastic clay from 33 to 34ft	0		
-32							
-34							
-36							
-38							
-40			SP	SAND: fine to medium sand, light gray, with 10% marine shells and interbeds of gray highly plastic CLAY (CH)	0		
-42							
-44							
-46							
-48							
-50			SP	SAND: dense, slightly silty, fine to medium sand, with trace of clay	0		
-52							
-54							
-56			SP	SAND: fine to medium sand, medium gray	3		
-58				CLAYEY SAND: very dense, fine to medium sand, medium gray			
-60							
-62							
-64							
-66							

NOTES:



Water Level during drilling



Water level in completed monitoring well on

9/20/05

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PROJECT: Hercules

BORING NO.: MW-29D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-60							
-62							
-64							
-66							
-68							
-70							
-72							
-74							
-76							
-78							
-80							
-82							
-84							
-86							
-88							
-90							

SC

SANDSTONE: muddy, light gray, with thin lenses of clayey sand

SAND: loose, medium to coarse, medium gray

SP

Boring Terminated at 89.75 ft.

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

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**BORING LOG**BORING NO.: **MW-29I**DATE: **9-16-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 50.5 ft  
TOP OF CASING ELEV.: 8.85 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.6 ft

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0			SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)	0		
4			SP	SAND: loose, fine to medium sand, tan	0		
10			CL	CLAY: slightly sandy, medium gray	0		
15			SP	SAND: slightly clayey, fine to medium sand, medium gray with marine shells from 17 to 20 ft	0		
20			CH	CLAY: medium gray, high plasticity with several thin sand interbeds	2		
25							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/20/05

PROJECT: Hercules				BORING NO.: MW-29I			
DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-20					0		
-22							
-30			SP	SAND: fine, light gray, with 3 interbeds of gray highly plastic clay from 33 to 34ft	0		
-26							
-23							
-35					0		
-30							
-32							
-40			SP	SAND: fine to medium sand, light gray, with 10% marine shells and interbeds of gray highly plastic CLAY (CH)	0		
-34							
-36							
-38							
-45					0		
-40							
-42			SP	SAND: dense, slightly silty, fine to medium sand, with trace of clay	0		
-44					3		
-50							Boring Terminated at 50.5ft.

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**BORING LOG****BORING NO.:** MW-30D**DATE:** 9-8-05**PROJECT INFORMATION**

**PROJECT:** Hercules  
**LOCATION.:** Brunswick, GA  
**PROJECT NO.** GR 3666  
**LOGGED BY:** T. Keller  
**CHECKED BY:** G.Roush

**DRILLING INFORMATION**

**DRILLING CO.:** Prosonic  
**DRILLING METHOD:** Rotasonic  
**TOTAL DEPTH:** 90.5 ft.  
**TOP OF CASING ELEV.:** 12.18 ft  
**HEIGHT OF CASING ABOVE  
GROUND SURFACE:** 2.4 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
3							
6							
9			SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus)	0		
12							
15							
18			SP	SAND: loose, fine to medium sand, light brown	0		
21							
24							
27			SM	SILTY SAND: loose, fine to medium sand, grayish brown	0		
30							
33							
36							
39							
42							
45							
48							
51							
54							
57							
60							
63							
66							
69							
72							
75							
78							
81							
84							
87							
90							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/9/05

PROJECT: Hercules

BORING NO.: MW-30D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-16			SP		0		
-18							
-20				SAND: fine, light gray, slightly silty, with few 0.3 to 0.5 ft interbeds of olive gray highly plastic CLAY (CH)	0		
-22							
-24							
-26			SP		0		
-28							
-30					0		
-32							
-34							
-36				SAND: medium to coarse, with 20% marine shells up to 1/2 inch, and lenses of olive gray highly plastic CLAY (CH) at 45-46 ft.	0		
-38			SP				
-40					0		
-42				SAND: loose, medium, light gray with some zones of weakly cemented sand			
-44							
-46			SP		0		
-48				SILTY SAND: very hard, fine sand, light gray			
-50				SAND: loose, medium to coarse, medium gray, with interbed of light gray sandy CLAY (CH)	0		
-52			SP				
-54				CLAYEY SAND: fine to coarse sand, medium gray, with 10% shell fragments up to 10mm			
-56			SC	CLAYEY GRAVEL: sandy, medium gray with well rounded gravel up to 20mm	0		

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/9/05

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PROJECT: Hercules

BORING NO.: MW-30D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-58							
-60			SP	SAND: medium to coarse sand, dark gray, with trace of gravel	0		
-62							
-64			CH	CLAY: stiff, sandy, medium gray, with high plasticity			
-66					0		
-68			ML	SANDY SILT: very hard, clayey, light gray			
-70					0		
-72				SANDSTONE: light gray, fine grained, some calcareous cement.			
-74					0		
-76			SM	SILTY SAND: very hard, slightly clayey, light gray			
-78					0		
-80			SP	SAND: slightly clayey, fine to medium sand, with less fines at 90 ft.			
-90					0		Boring Terminated at 90.5ft.

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/9/05

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**BORING LOG****BORING NO.:** MW-30S**DATE:** 9-8-05**PROJECT INFORMATION**

**PROJECT:** Hercules  
**LOCATION:** Brunswick, GA  
**PROJECT NO.** GR 3666  
**LOGGED BY:** T. Keller  
**CHECKED BY:** G. Roush

**DRILLING INFORMATION**

**DRILLING CO.:** Prosonic  
**DRILLING METHOD:** Rotosonic  
**TOTAL DEPTH:** 16 FT.  
**TOP OF CASING ELEV.:** 12.16 ft  
**HEIGHT OF CASING ABOVE  
GROUND SURFACE:** 2.4 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
8							
6							
4			SM	SILTY SAND: very loose, fine sand, dark brown, with organic material (roots, humus)	0		
2				SAND: loose, fine to medium sand, light brown	0		
-10	0				0		
-2							
-4							
-15					0		
-6							Boring Terminated at 16 ft.

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/9/05

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**BORING LOG**BORING NO.: **MW-31D**DATE: **9-9-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 90.5 ft.  
TOP OF CASING ELEV.: 16.44 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.5 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
12							
10			SM	SILTY SAND: very loose, dark brown, with organic material (roots, humus) with some concrete debris on surface	0		
8							
6				SAND: loose, fine to medium sand, light brown	0		
-10			SP		0		
4							
2							
0					0		
-15							
-2							
-4			SM	SILTY SAND: loose, slightly clayey, medium sand, gray	0		
-20							
-6				SILTY SAND: loose, medium sand, with some coarse, medium gray	0		
-8			SM				
-10							
-25				SAND: loose, fine to medium, light gray			

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/9/05

PROJECT: Hercules

BORING NO.: MW-31D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-12			SP		0		
-14			SC	CLAYEY SAND: medium to coarse sand, light gray with 30% marine shells	0		
-16				SAND: fine, light gray, with interbedded gray CLAY (CH)			
-18							
-20							
-22			SP		0		
-24			CH	CLAY: soft, highly plastic, olive gray			
-26					0		
-28				SAND: loose, medium to coarse, slightly silty with 5% marine shells			
-30			SP		0		
-32			SC	CLAYEY SAND: dense, silty, light gray			
-34							
-36			SP	SAND: loose, coarse sand, medium gray	0		
-38			CH	CLAY: firm, high plasticity, olive gray, with 0.5 ft interbedded sand.			
-40				CLAYEY SAND: dense, fine to medium sand, dark to medium gray			
-42			SC		0		
-44							
-46				SAND: medium sand, light gray	0		
-48							
-50			SP				
-52				CLAYEY SAND: grayish tan	0		

NOTES:

Water Level during  
drillingWater level in completed  
monitoring well on  
9/9/05

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PROJECT: Hercules

BORING NO.: MW-31D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-52							
-54			SC				
-56			SP	SAND: loose, medium to coarse, light gray	0		
-58							
-60				CLAYEY SAND: very hard to dense, light gray, with few interbeds of muddy SANDSTONE, and one lense of light gray highly plastic CLAY (CH) at 84.8 to 85 ft.	0		
-62							
-64							
-66			SC		0		
-68							
-70							
-72					0		
-74			SP	SAND: slightly clayey, medium sand, light gray with trace marine shells	0		
-76					0		
-90							Boring Terminated at 90.5ft.

NOTES:

Water Level during  
drillingWater level in completed  
monitoring well on  
9/9/05

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**GEOSYNTEC CONSULTANTS**

1255 Roberts Blvd., NW  
Suite 200  
Kennesaw, GA 30144-3694

**BORING LOG**

BORING NO.: **MW-32D**  
DATE: **9-8-05**

**PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 90 ft.  
TOP OF CASING ELEV.: 12.24 FT.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.4 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
8							
6							
4			SM	SILTY SAND: loose, fine to medium sand, black to dark gray, with organic material (roots, humus)	N/A		PID not working due to rain
2				SAND: loose, fine sand, light brown to light gray			
0			SP				
-2							
-4							
-6							
-8			SM	SILTY SAND: loose, fine sand, olive gray, trace clay			
-10							
-12							
-14			SC	CLAYEY SAND: olive gray, with 30% marine shell fragments			
-16							
-18							
-20							
-22							
-24							
-25				SAND: fine to coarse sand, olive gray,			

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/9/05



DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-16			SP	with 30% marine shell fragments			
-18				SAND: fine, light gray			
-20			SP				
-22			CH	CLAY: fine sandy, olive gray, high plasticity			
-24				SILTY SAND: slightly clayey, fine sand, olive gray			
-26			SM				
-28				CLAY: slightly silty, light gray to olive, highly plastic, with 0.1 ft sand interbed			
-30			CH				
-32				SAND: slightly silty, fine to coarse sand, light to medium gray, with up to 20% shell fragments, and weakly cemented sand in zones			
-34							
-36							
-38							
-40			SP				
-42							
-44							
-46			ML	SILT: hard, slightly clayey, light to medium gray			
-48			CL	CLAY: hard, sandy, medium gray			
-50				SILTY SAND: dark gray			
-52			SM				
-54				SAND: fine to medium sand, medium gray, well sorted			
-56							
-58							
-60							
-62							
-64							
-65							

## NOTES:




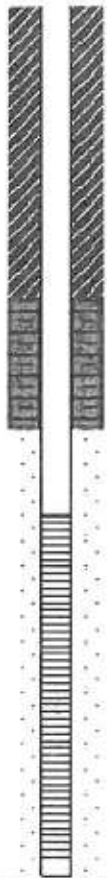
Water Level during drilling



Water level in completed monitoring well on 9/9/05

PROJECT: Hercules

BORING NO.: MW-32D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-56 -58 -60 -62 -64 -66 -68 -70 -72 -74 -76 -78 -80			SP				Boring Terminated at 90 ft.

NOTES:

Water Level during  
drillingWater level in completed  
monitoring well on  
9/9/05

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**GEOSYNTEC CONSULTANTS**

1255 Roberts Blvd., NW  
Suite 200  
Kennesaw, GA 30144-3694

**BORING LOG**

BORING NO.: **MW-33**  
DATE: **9-14-05**

**PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION.: Brunswick, GA  
PROJECT NO.: GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 132 ft.  
TOP OF CASING ELEV.: 9.12 ft.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0	6		SM	SILTY SAND: loose, dark brown			
2	0		SP	SAND: loose, fine to medium sand, brown	0		
4	-2		SP	SAND: fine, gray with olive gray clay seams	1		
6	-6		SP		6		
8	-10		SC	CLAYEY SAND: medium grained sand, dark gray			
10	-12			SAND: fine to medium grained, well sorted, light gray, with thin interbedded olive gray highly plastic CLAY (CH)	20		
12	-14						
14	-16						
16	-18						
18	-20						
20	-22						
22	-24						
24	-26						

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/20/05

PROJECT: Hercules

BORING NO.: MW-33

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-20					5		
-22							
-30			SP		2		
-24							
-26							
-28					41		
-35							
-30							
-32							
-40					174		
-34							
-36							
-38					110		
-45							
-40							
-42							
-50				CLAYEY SAND: medium grain sand, clayey to slightly clayey, dark gray with trace of well rounded gravel at 60ft.	84		
-44							
-46							
-55			SC		36		
-43							
-50							
-52							
-60				CLAYEY SAND: loose, light gray	28		
-54							
-56							
-65			SC		19		
-53							

NOTES:



Water Level during drilling


 Water level in completed monitoring well on  
 9/20/05

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PROJECT: Hercules

BORING NO.: MW-33

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-60				CLAYEY SAND: dense, light gray			
-62			SC				
-64					40		
-66			SC	CLAYEY SAND: medium grained sand, light gray with fragments of sandstone up to 50mm			
-68							
-70				SAND AND GRAVEL: slightly silty, fine to coarse sand, light to medium gray, with up to 20% shell fragments, and weakly cemented sand in zones	11		
-72			GP				
-74					4		
-76							
-78				CLAY: hard, slightly sandy, silty, light gray	5		
-80			CL				
-82				CLAY: stiff to dense, very clayey sand to sandy clay, light gray			
-84					0		
-86							
-88							
-90			CL		0		
-92				CLAY: hard, fine to medium sandy, light gray, slightly moist			
-94			CL		0		
-96							
-98			SC	CLAYEY SAND: dense, light gray, wet			
-100					0		

Temporary Outer 8-inch steel casing, set to 100ft.

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

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PROJECT: Hercules

BORING NO.: MW-33

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
			CL	CLAY: hard, light gray, dry			
-110	-102						
	-104		SP	SAND: firm, slightly silty, fine grained sand	0		
-115	-106						
	-108						
	-110		SC	CLAYEY SAND: dense, fine to medium sand, medium gray	0		
	-112			CLAYEY SAND: dense, fine, medium gray			
-120	-114		SC		0		
	-116						
	-118			SAND: fine, medium gray with interbedded clay at 125 ft and 128 ft.	0		
-125	-120						
	-122						
-130	-124		SP		0		Boring Terminated at 132 ft.

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

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**GEOSYNTEC CONSULTANTS**

1255 Roberts Blvd., NW  
Suite 200  
Kennesaw, GA 30144-3694

**BORING LOG****BORING NO.:** MW-34**DATE:** 9-15-05**PROJECT INFORMATION**

**PROJECT:** Hercules  
**LOCATION.:** Brunswick, GA  
**PROJECT NO.** GR 3666  
**LOGGED BY:** T. Keller  
**CHECKED BY:** G.Roush

**DRILLING INFORMATION**

**DRILLING CO.:** Prosonic  
**DRILLING METHOD:** Rotasonic  
**TOTAL DEPTH:** 136 ft..  
**TOP OF CASING ELEV.:** 14.11 ft.  
**HEIGHT OF CASING ABOVE  
GROUND SURFACE:** 2.6 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
10			SM	SILTY SAND: loose, dark brown			
8							
6			SP	SAND: loose, fine to medium sand, light brown	0		
4			SP	SAND: fine, dark brown with organics			
2					8		
0				SAND: fine, light brown			
-2					0		
-4			SP				
-6					0		
-8				SAND: fine to coarse grained sand, medium gray with 20mm seam of clay at 22 ft and 10mm seam at 31 ft.	0		
-10							
-12							
-25							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/20/05

PROJECT: Hercules

BORING NO.: MW-34

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-14			SP		0		
-16							
-18							
-20							
-22			SP	SAND: fine grained sand, medium gray	0		
-24							
-26							
-28							
-30							
-32							
-34			SP		0		
-36							
-38							
-40							
-42							
-44			SC	CLAYEY SAND: dense, fine to medium grained sand, dark brownish gray	0		
-46							
-48							
-50							
-52			SP		0		
-54							

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

Page 2 of 4

PROJECT: Hercules

BORING NO.: MW-34

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
				gray			
-56			SC-SP				
-70	-58				0		
-60							
-62			GC	CLAYEY GRAVEL: hard, with well rounded gravel up to 20mm, light gray, dry	0		
-75	-64						
-66				SAND: fine to coarse grained sand, medium gray, with trace gravel			
-80	-68				0		
-70			SP				
-85	-72				0		
-74							
-76			SC	CLAYEY SAND: light to medium gray, with 25% marine shells	0		
-90	-78			SAND: fine to coarse sand, medium gray with trace clay	0		
-80			SP				
-95	-82				0		
-84			CL	CLAY: hard, sandy, light gray, dry	0		
-86			CL-CH	CLAY: stiff, medium gray to olive gray			
-88				CLAY: sandy, medium gray to olive	0		
-100	-90						
-92			CL	SANDSTONE: muddy, light gray	0		
-94			SC-CL	CLAY: very sandy clay to very clayey sand, light grayish tan, slightly moist	0		

Temporary Outer 8-inch steel casing, set to 105 ft.

## NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/20/05

PROJECT: Hercules

BORING NO.: MW-34

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-96							
-110	-98		SP	SAND: medium sand, with trace of clay, light gray	0		
-100	-100			CLAYEY SAND: dense, light grayish tan			
-102	-102						
-115	-104		SC		0		
-106	-106						
-120	-108			SAND: fine, light to medium gray, interbedded with 10 to 30mm beds of olive CLAY (CH) at 124, 124.5, 129, and 130.5ft	0		
-110	-110						
-112	-112						
-125	-114		SP		0		
-116	-116						
-118	-118						
-130	-120				0		
-122	-122		SP	SAND: dense, fine grained, slightly silty, light to medium gray.	0		
-135	-124				0		

Boring backfilled with bentonite from 132-136ft

Boring Terminated at 136 ft.

NOTES:



Water Level during drilling


 Water level in completed  
 monitoring well on  
 9/20/05

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**GEOSYNTEC CONSULTANTS**

1255 Roberts Blvd., NW  
Suite 200  
Kennesaw, GA 30144-3694

**BORING LOG**BORING NO.: **MW-35D**DATE: **9-12-05****PROJECT INFORMATION**

PROJECT: Hercules  
LOCATION: Brunswick, GA  
PROJECT NO. GR 3666  
LOGGED BY: T. Keller  
CHECKED BY: G. Roush

**DRILLING INFORMATION**

DRILLING CO.: Prosonic  
DRILLING METHOD: Rotasonic  
TOTAL DEPTH: 91 ft.  
TOP OF CASING ELEV.: 10.13 FT.  
HEIGHT OF CASING ABOVE  
GROUND SURFACE: 2.5 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
6							
4			SM	SILTY SAND: loose, fine to medium sand, dark brown, with organic material (roots, humus)	0		
2							
0				SAND: loose, slightly silty, fine to medium sand, tan	0		
-2			SP		0		
-4				SILTY SAND: loose, fine to coarse sand, gray	0		
-6							
-8			SM		0		
-10			CL	CLAY: olive gray, high plasticity			
-12			SC	CLAYEY SAND: medium sand, olive gray	0		
-14				SILTY SAND: fine, olive gray, with several 10 to 20mm interbeds of olive gray clay			
-16							
-25							

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
9/21/05

PROJECT: Hercules

BORING NO.: MW-35D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-18			SM		0		
-20							
-22							
-30				SAND: coarse to medium sand, gray, with interbedded 5-10mm clay seams	0		
-24			SP				
-26				SAND: medium sand, light gray			
-35					0		
-28							
-30							
-40					0		
-32							
-34							
-36							
-45			SP		0		
-38							
-40							
-50					3		
-42							
-44							
-46							
-55			SP	SAND: slightly clayey, medium to coarse sand, dark gray, with several thin interbedded clay seams	5		
-48							
-50				SAND: medium sand, light gray, with 0.3 ft SANDSTONE bed at 62.5 ft.			
-60					1		
-52							
-54			SP				
-56				SAND: medium to coarse, light gray			
-65					0		
-58							

NOTES:







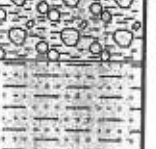



Water Level during  
drillingWater level in completed  
monitoring well on  
9/21/05

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PROJECT: Hercules

BORING NO.: MW-35D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-60	-62		SP				
-70	-62		CL	CLAY: hard, sandy tan	0		
-64	-66		CL	CLAY: soft, silty olive gray	0		
-75	-68		CL		0		
-70	-72		CL		0		
-80	-74		GC	CLAYEY GRAVEL: hard, gravel well rounded up to 30mm	0		
-85	-76		GC		0		
-78	-80		SC	CLAYEY SAND: medium sand, medium gray	0		
-90	-82		SC		0		Boring Terminated at 91 ft.

NOTES:



Water Level during drilling



Water level in completed monitoring well on 9/21/05

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**GEOSYNTEC CONSULTANTS**

1255 Roberts Blvd., NW  
Suite 200  
Kennesaw, GA 30144-3694

**BORING LOG****BORING NO.:** MW-36D**DATE:** 9-9-05**PROJECT INFORMATION**

**PROJECT:** Hercules  
**LOCATION.:** Brunswick, GA  
**PROJECT NO.** GR 3666  
**LOGGED BY:** T. Keller  
**CHECKED BY:** G. Roush

**DRILLING INFORMATION**

**DRILLING CO.:** Prosonic  
**DRILLING METHOD:** Rotasonic  
**TOTAL DEPTH:** 91 ft.  
**TOP OF CASING ELEV.:** 15.74 FT.  
**HEIGHT OF CASING ABOVE  
GROUND SURFACE:** 2.5 ft.

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
0							
12			SM	SILTY SAND: loose, fine to medium sand, dark brown, with organic material (roots, humus)			
10			SP	SAND: loose, fine to medium sand, light grayish tan			
8			SP	SAND: loose, slightly silty, fine to medium sand, dark brown, with organic material (roots, humus)	0		
6			SP				
4							
-10				SAND: fine to medium sand, light brown	0		
2							
0							
-15			SP		0		
-2							
-4				SAND: slightly clayey, fine to medium sand, medium gray			
-6			SP				
-20				SAND: loose, slightly silty, fine to coarse sand, with 5% marine shells	0		
-3							
-10							
-25			SP				

**NOTES:**

Water Level during  
drilling



Water level in completed  
monitoring well on  
unstable

PROJECT: Hercules

BORING NO.: MW-36D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-12					0		
-14							
-16			SP	SAND: loose, medium to coarse sand, with 5% marine shells	0		
-30					0		
-18							
-20			SP	SAND: loose, fine medium sand, medium gray, interbedded with olive gray CLAY (CH)			
-35					0		
-22				CLAYEY SAND: fine sand, greenish gray			
-24			SC	SAND: loose, fine to medium sand, trace silt			
-26			SP				
-40					0		
-28				CLAYEY SAND: hard, light gray			
-30							
-45			SC		0		
-32				SANDSTONE: light gray, medium to coarse grained.			
-34			SP	SAND: loose, coarse grained, medium gray			
-36				CLAYEY SAND: dense to very dense, fine to coarse sand, medium gray, with 10% marine shells up to 10mm	3		
-50							
-38					3		
-40			SC				
-55					3		
-42				SAND: medium to coarse sand, light gray			
-44			SP				
-46			SC	CLAYEY SAND: light gray			
-60				MUDSTONE: tan gray very muddy sandstone	1		
-48				CLAYEY SAND: very hard, medium to coarse grained, light gray			
-50			SC				
-65					0		
-52				SAND: loose, medium grained, dark			

NOTES:



Water Level during drilling



Water level in completed monitoring well on unstable

Page 2 of 3

PROJECT: Hercules

BORING NO.: MW-36D

DEPTH	ELEV.	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	PID (ppm)	BORING COMPLETION	NOTES
-54				gray, well sorted			
-56			SP		0		
-58							
-60				CLAYEY SAND: dense, light grayish tan			
-62			SC		0		
-64				CLAYEY SAND: dense, medium grained, medium gray			
-66							
-68			SC		0		
-70			CL	CLAY: very stiff, dark greenish gray			
-72				CLAYEY SAND: dense, fine to coarse grained, dark gray	0		
-74			SC				
-76				CLAYEY GRAVEL: up to 75mm fragments of cemented clay-sand-shells with light gray plastic clay			
-90			GC		0		Boring Terminated at 91 ft.

NOTES:



Water Level during drilling



























Water level in completed monitoring well on unstable

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Project Name			Well Number	
Ashland Brunswick Georgia			MW-37S	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427021.360 867926.180	Ground Surface Elevation 14.28
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 15-25 ft		Top of Well Casing Elevation 17.15
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 25 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/17/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 25 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/17/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	





























### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0								0
			(0.0- 2.0) SAND: medium, Dusty Brown (5YR 2/2), well sorted, angular; trace gravel; moist	0-2	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	
			(2.0- 4.0) CEMENT	2-4	0.0		Bentonite/Cement: 0-11'	
10	5		(4.0- 6.0) SAND: medium, Pale Brown (5 YR 2/2), well sorted, rounded, loose; trace fine sand	4-6	0.0		Bentonite: 11-13'	5
			(6.0- 8.0) SAND: fine, Dusty Brown (5 YR 2/2), rounded, loose; trace medium (grain) sand	6-8	0.0		#2 Silica Sand: 13-25'	
			(8.0- 10.0) SAND: fine, Moderate Brown (3/4), rounded, loose; some medium sand	8-10	0.0		Well Casing: 0-15'	
			(10.0- 15.0) SAND: fine, Moderate Brown (4/2), rounded, loose	10-12	0.0		Well Screen: 15-25'	10
				12-14	0.0		Well Diameter: 2"	
				14-16	0.0			15
			(15.0- 20.0) SAND: very fine, Medium Gray (N5); trace shells; saturated	16-18	0.0			
				18-20	0.0			20
			(20.0- 25.0) SAND: very fine, Light-Medium Gray (N6); some shells; saturated	20-25	0.0			
							Boring terminated at 25 feet below ground surface.	25



Project Name			Well Number	
Ashland Brunswick Georgia			MW-371	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.200 867920.710	Ground Surface Elevation 14.17
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 60-75 ft		Top of Well Casing Elevation 16.91
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 75 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/17/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 80 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/19/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA				
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 2.0) SAND: medium, Dusty Brown (5YR 2/2), well sorted, angular; trace gravel; moist 0 - 5 Post-hole	0-2	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(2.0- 4.0) CEMENT	2-4	0.0		Bentonite/Cement: 0-56'	
10	5		(4.0- 6.0) SAND: medium, Pale Brown (5 YR 2/2), well sorted, rounded, loose; trace fine sand	4-6	0.0		Bentonite: 56-58'	5
			(6.0- 8.0) SAND: fine, Dusty Brown (5 YR 2/2), rounded, loose; trace medium (grain) sand	6-8	0.0		#2 Silica Sand: 58-75'	
			(8.0- 10.0) SAND: fine, Moderate Brown (3/4), rounded, loose; some medium sand	8-10	0.0		Well Casing: 0-60'	
10			(10.0- 15.0) SAND: fine, Moderate Brown (4/2), rounded, loose	10-12	0.0		Well Screen: 60-75'	10
				12-14	0.0		Well Diameter: 2"	
0	15		(15.0- 20.0) SAND: very fine, Medium Gray (N5); trace shells; saturated	14-16	0.0		20/30 Sand Backfill	15
				16-18	0.0			
				18-20	0.0			
20			(20.0- 35.0) SAND: very fine, Light-Medium Gray (N6); some shells; saturated	20-25	0.0			20
								
-10	25			25-30	0.0			25
								



Project Name			Well Number	
Ashland Brunswick Georgia			MW-371	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.200 867920.710	Ground Surface Elevation 14.17
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 60-75 ft		Top of Well Casing Elevation 16.91
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 75 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/17/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 80 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/19/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
30				30-35	0.0			30
-20								
	35		(35.0- 40.0) SAND: fine-medium, Medium Gray (N5), rounded, loose; trace shell Hash	35-40	0.0			35
	40		(40.0- 45.0) SAND: medium-coarse, Medium Gray (N5), poorly sorted, well rounded; shell fragments 2-3 mm; moist	40-45	0.0			40
-30								
	45		(45.0- 50.0) CLAYEY SAND: medium, Medium-Light Gray, well sorted, rounded; wet	45-50	0.0			45
	50		(50.0- 53.0) CLAYEY SAND: fine-medium, Medium-Dark Gray (N4), poorly sorted, rounded; trace shells	50-55	0.0			50
-40			(53.0- 55.0) CLAYEY SILT: fine, Light Gray (N6), well rounded, hard; 15-20% gravel					



Project Name			Well Number	
Ashland Brunswick Georgia			MW-371	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.200 867920.710	Ground Surface Elevation 14.17
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 60-75 ft		Top of Well Casing Elevation 16.91
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 75 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/17/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 80 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/19/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-40								
	55		(55.0- 60.0) CLAYEY SILT: fine, Light Gray (N6), well rounded, hard; 30-40% gravel	55-60	0.0			55
	60		(60.0- 60.3) LIMESTONE: (CLAYEY)	60-65	0.0			60
			(60.3- 65.0) SAND: medium-coarse, Medium-Light Gray (N5), poorly sorted, rounded; 5-10% gravel; saturated					
-50	65		(65.0- 70.0) SANDY SILT: fine, Medium-Light Gray (N6), rounded; gravel (well sorted, well rounded)	65-70	0.0			65
	70		(70.0- 75.0) SILT: fine, Medium-Dark Gray (N4), rounded, hard; wet	70-75	0.0			70
-60	75		(75.0- 80.0) SANDY CLAY: medium, Medium Gray (N5), well sorted, rounded, hard; dry	75-80	0.0		Borehole backfilled with sand and bentonite seal.	75
							Boring terminated at 80 feet below ground surface.	
	80							80



Project Name			Well Number	
Ashland Brunswick Georgia			MW-37D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.580 867917.230	Ground Surface Elevation 14.36
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 16.81
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/19/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/23/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

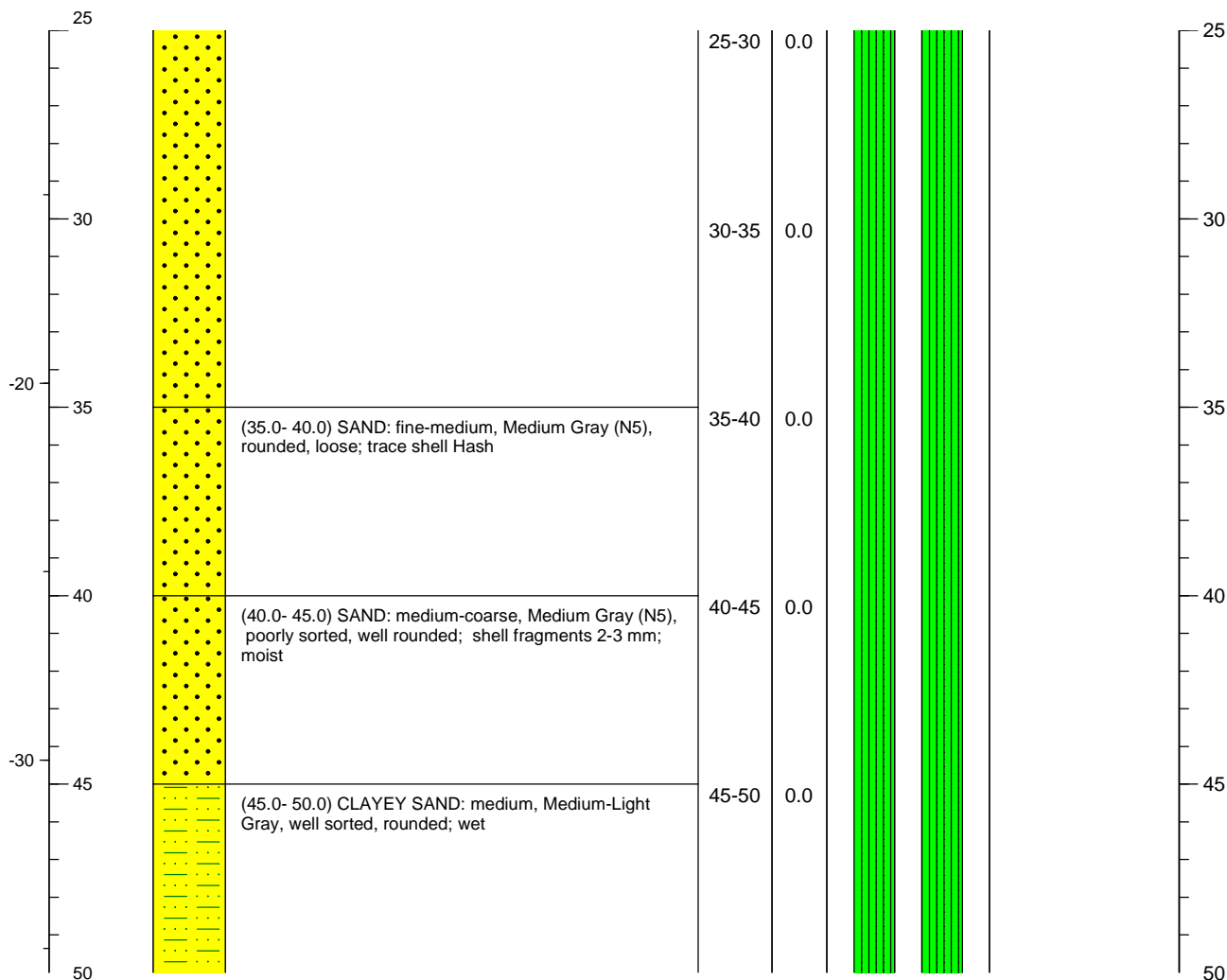
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0				0-2	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
				2-4	0.0		Bentonite/Cement: 0-96'	
10	5			4-6	0.0		Bentonite: 96-98'	5
				6-8	0.0		#2 Silica Sand: 98-110'	
				8-10	0.0		Well Casing: 0-100'	
	10			10-12	0.0		Well Screen: 100-110'	10
				12-14	0.0		Well Diameter: 2"	
				14-16	0.0		Bentonite: 110-115'	
0	15			16-18	0.0		20/30 Sand Backfill	15
				18-20	0.0			
	20			20-25	0.0			20
-10	25			25-30	0.0			25

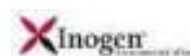
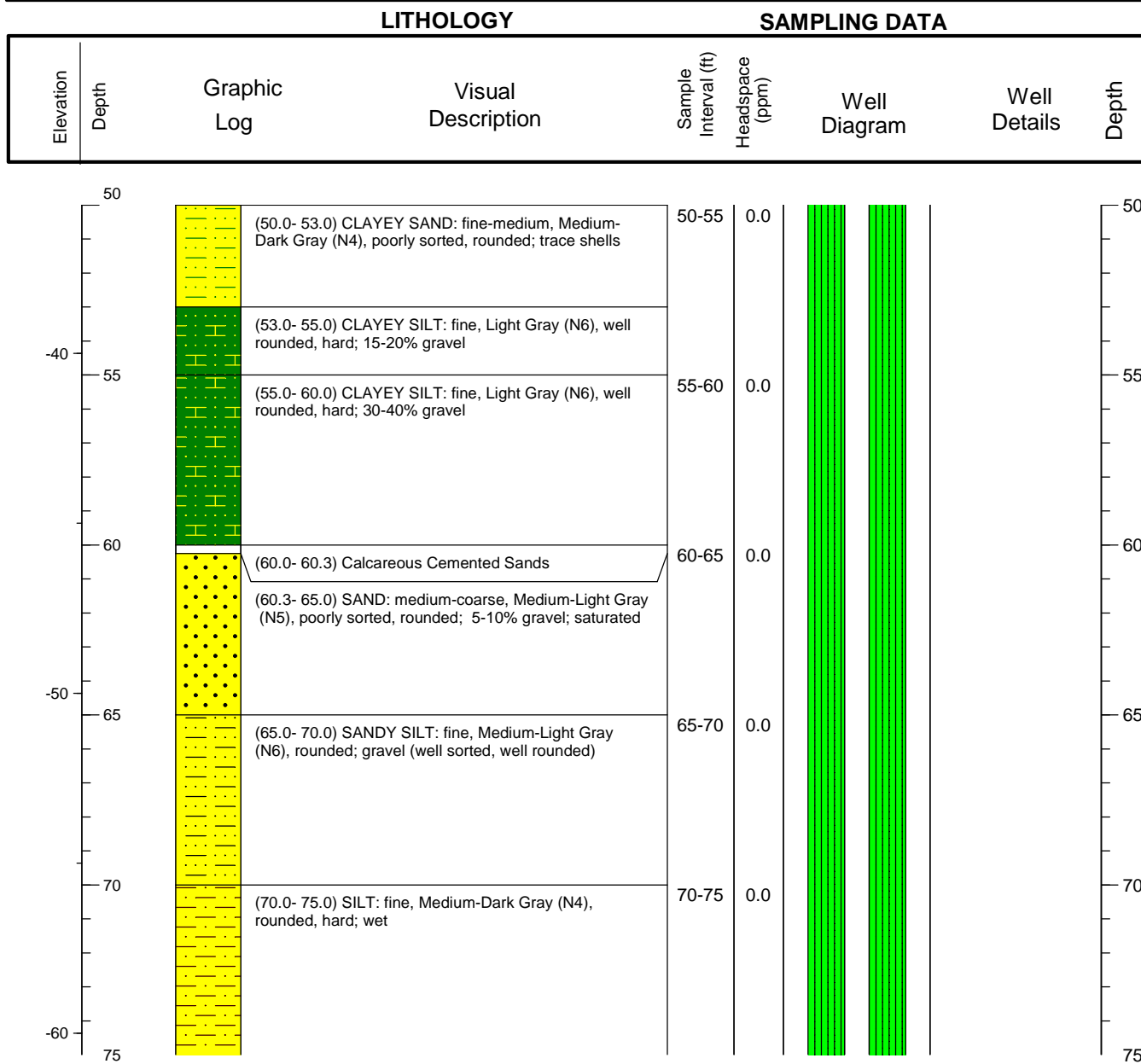


Project Name			Well Number	
Ashland Brunswick Georgia			MW-37D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.580 867917.230	Ground Surface Elevation 14.36
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 16.81
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/19/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/23/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth

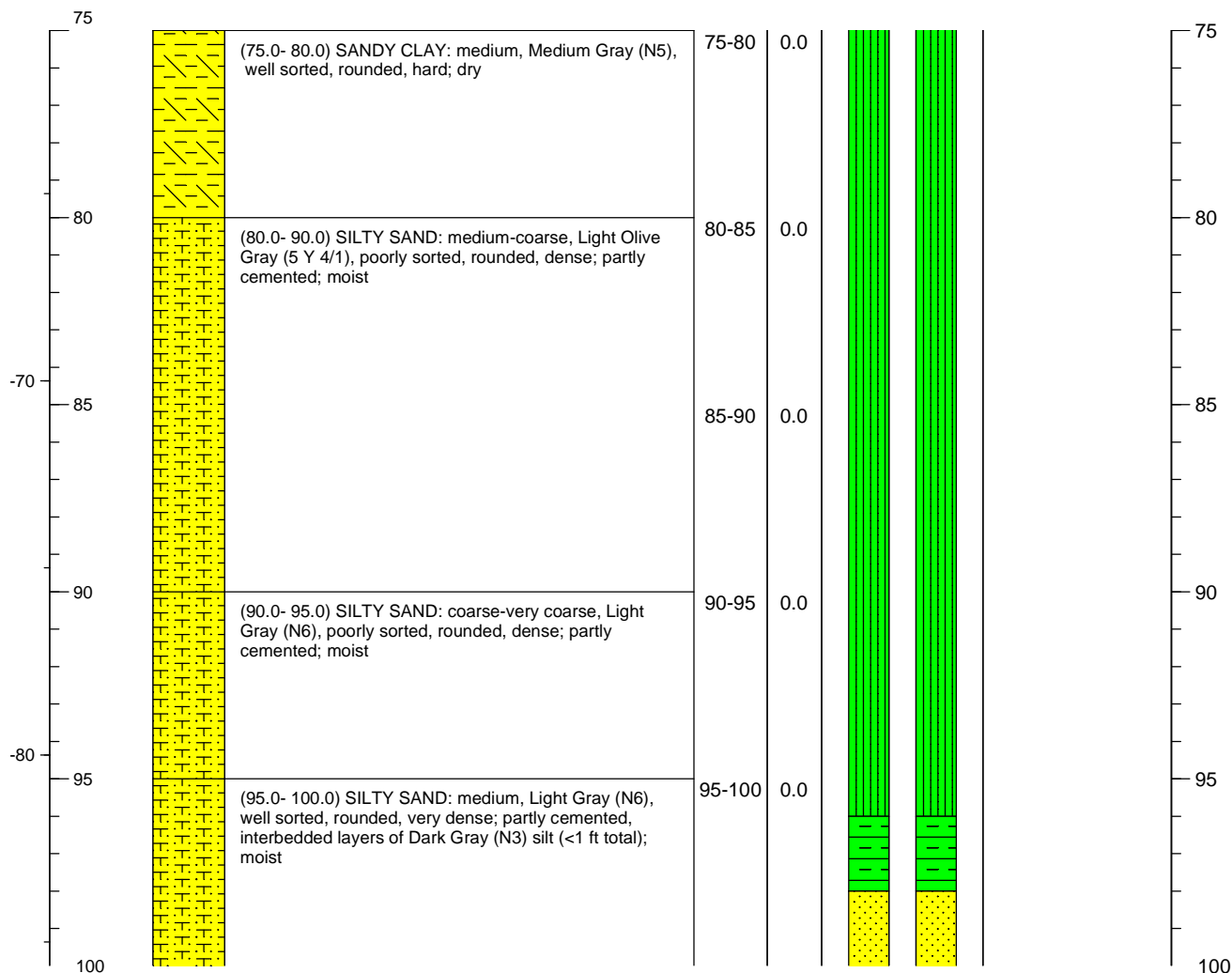


Project Name			Well Number	
Ashland Brunswick Georgia			MW-37D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.580 867917.230	Ground Surface Elevation 14.36
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 16.81
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/19/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/23/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	



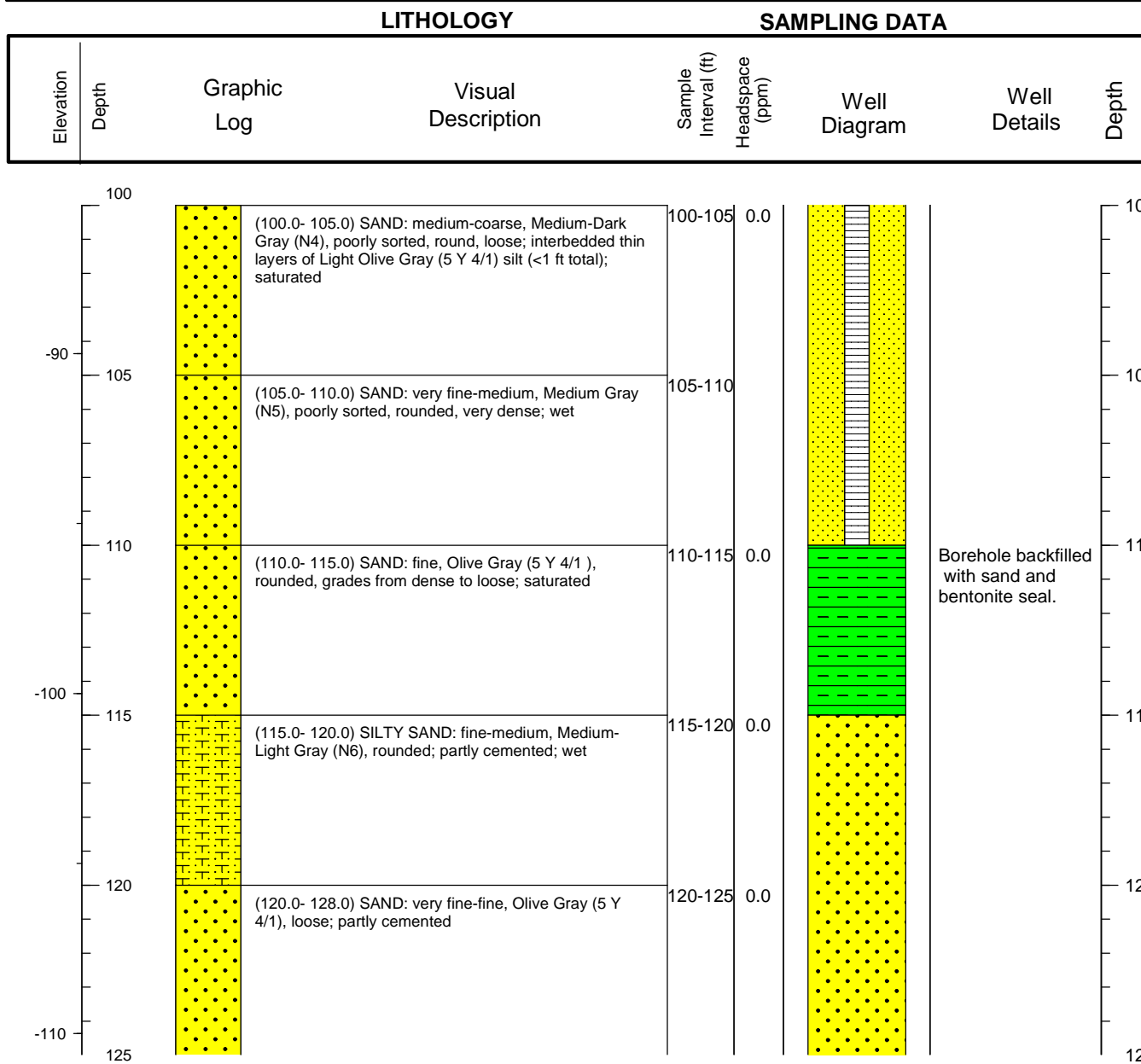
<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-37D	
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting	<b>427022.580</b> <b>867917.230</b>	Ground Surface Elevation <b>14.36</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>100-110 ft</b>		Top of Well Casing Elevation <b>16.81</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>		Total Well Depth <b>110 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>3/19/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>		Boring Depth <b>150 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>3/23/10</b>	Sampling Method <b>Continuous Cores</b>		Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth





Project Name			Well Number	
Ashland Brunswick Georgia			MW-37D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.580 867917.230	Ground Surface Elevation 14.36
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 16.81
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/19/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/23/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	



Project Name			Well Number	
Ashland Brunswick Georgia			MW-37D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	427022.580 867917.230	Ground Surface Elevation 14.36
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 16.81
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/19/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/23/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
125				125-130	0.0		
			(128.0- 136.0) SAND: very fine-fine, Olive Gray (5 Y 4/1), very dense; partly cemented; moist	130-135	0.0		
-120				135-140	0.0		
			(136.0- 140.0) SAND: fine-medium, Olive Gray (5 Y 4/1), rounded; 10% coarse sand; wet				
-140				140-145	0.0		
			(140.0- 145.0) SILTY SAND: medium-coarse, Light Olive Gray (5Y 4/1), poorly sorted, rounded, loose; saturated				
-130				145-150	0.0		
			(145.0- 150.0) SAND: fine-medium, Light Olive Gray (5 Y 4/1), rounded; 10% silt				
							Boring terminated at 150 feet below ground surface.
150							



Project Name			Well Number	
Ashland Brunswick Georgia			MW-38I	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424936.700 873051.899	Ground Surface Elevation 5.78
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 8.72
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/5/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/6/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 10.0) FILL: saturated	0-5	0.0		Stick Up/Protective Cover: Well Pad: 3'x3' Bentonite/Cement: 0-36'	0
			0 - 5 Post-hole	5-10	0.0		Bentonite: 36-38'	5
-5							#2 Silica Sand: 38-55'	
0							Well Casing: 0-40'	
-10			(10.0- 18.0) SILTY CLAY: Dark Gray (N3), soft; saturated	10-15	0.0		Well Screen: 40-55'	10
-15				15-20	0.0		Well Diameter: 2"	15
-20			(18.0- 30.0) SAND: fine-medium, Medium Gray (N4), rounded, loose; saturated	20-25	0.0			20
-25				25-30	0.0			25
-20								



Project Name			Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia					MW-38I	
Address	Drilling Contractor/License		Northing	424936.700	Ground Surface Elevation	
2801 Cook Street	Groundwater Protection		Easting	873051.899	5.78	
Brunswick	Georgia	Drilling Equipment	Well Screen Interval		Top of Well Casing Elevation	
		Rousie SR1 w/Detric Head	40-55 ft		8.72	
GA EPD Number		Drilling Method	Well Screen Slot Size		Total Well Depth	
GAD004065520		Sonic Drilling	0.01 inch		55 ft	
Logged By R. McLain		Date Drilling Started	Well Casing Diameter and Type		Boring Depth	Boring Dia.
Approved By R. Cate		4/5/10	2 in. SCH 40 PVC		55 ft	6 in.
Driller Name B. Niles		Date Drilling Completed	Sampling Method		Headspace Monitoring Device	
Project Number WBS30012B1		4/6/10	Continuous Cores		PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
30								30
			(30.0- 31.0) SILTY CLAY: Dark Gray (N3), soft	30-35	0.0			
			(31.0- 36.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, rounded, loose; 10-20% shells; saturated					
35				35-40	0.0			35
			(36.0- 39.0) SANDY CLAY: fine-medium, Medium Gray (N4), rounded, soft; saturated					
40			(39.0- 42.0) SAND: coarse, Medium Gray (N4), well sorted, rounded, loose; saturated	40-45	0.0			40
			(42.0- 45.0) SILTY SAND: fine, Medium Gray (N4), rounded, very dense; wet					
45				45-50	0.0			45
			(45.0- 55.0) SAND: medium, Medium Gray (N4), well sorted, rounded, loose; saturated					
50				50-55	0.0			50
55							Boring terminated at 55 feet below ground surface.	55



Project Name			Well Number	
Ashland Brunswick Georgia			MW-38D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424939.029 873047.577	Ground Surface Elevation 5.83
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation 8.76
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/5/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/6/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	


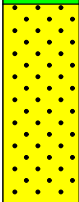
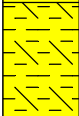
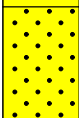
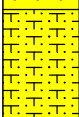
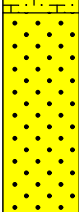
### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 10.0) FILL: saturated	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			0 - 5 Post-hole				Bentonite/Cement: 0-71'	
	5			5-10	0.0		Bentonite: 71-73'	5
	10		(10.0- 18.0) SILTY CLAY: Dark Gray (N3), soft; saturated	10-15	0.0		#2 Silica Sand: 73-85'	10
	15			15-20	0.0		Well Casing: 0-75'	15
	20		(18.0- 30.0) SAND: fine-medium, Medium Gray (N4), rounded, loose; saturated	20-25	0.0		Well Screen: 75-85'	20
	25			25-30	0.0		Well Diameter: 2"	25
							Bentonite: 85-90'	
							20/30 Sand Backfill	



Project Name			Well Number	
Ashland Brunswick Georgia			MW-38D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424939.029 873047.577	Ground Surface Elevation 5.83
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation 8.76
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/5/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/6/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

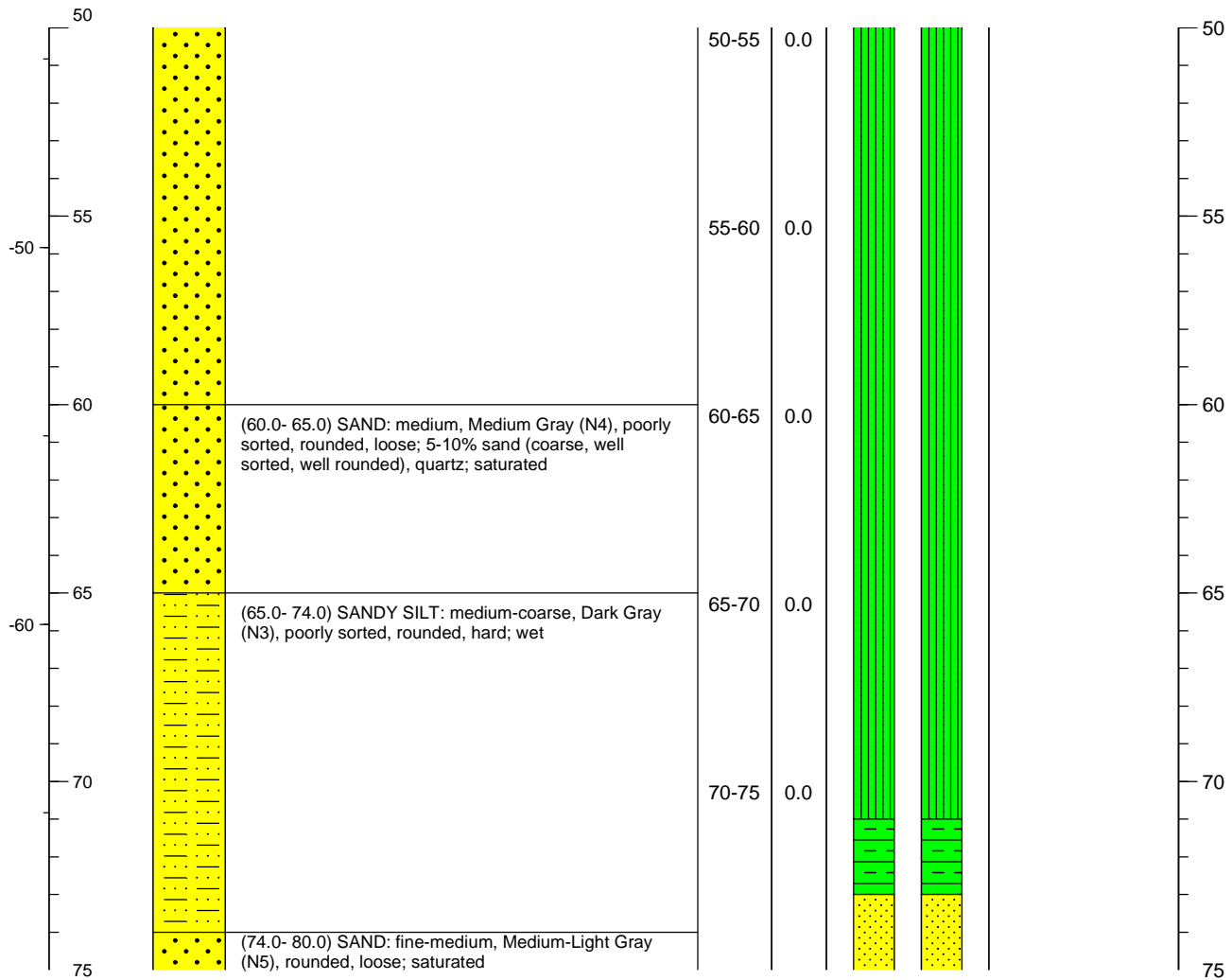
LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth
25				25-30	0.0		25
-20							
	30		(30.0- 31.0) SILTY CLAY: Dark Gray (N3), soft	30-35	0.0		30
			(31.0- 36.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, rounded, loose; 10-20% shells; saturated				
	35			35-40	0.0		35
-30			(36.0- 39.0) SANDY CLAY: fine-medium, Medium Gray (N4), rounded, soft; saturated				
	40		(39.0- 42.0) SAND: coarse, Medium Gray (N4), well sorted, rounded, loose; saturated	40-45	0.0		40
			(42.0- 45.0) SILTY SAND: fine, Medium Gray (N4), rounded, very dense; wet				
-40	45		(45.0- 60.0) SAND: medium, Medium Gray (N4), well sorted, rounded, loose; saturated	45-50	0.0		45
							
50							50





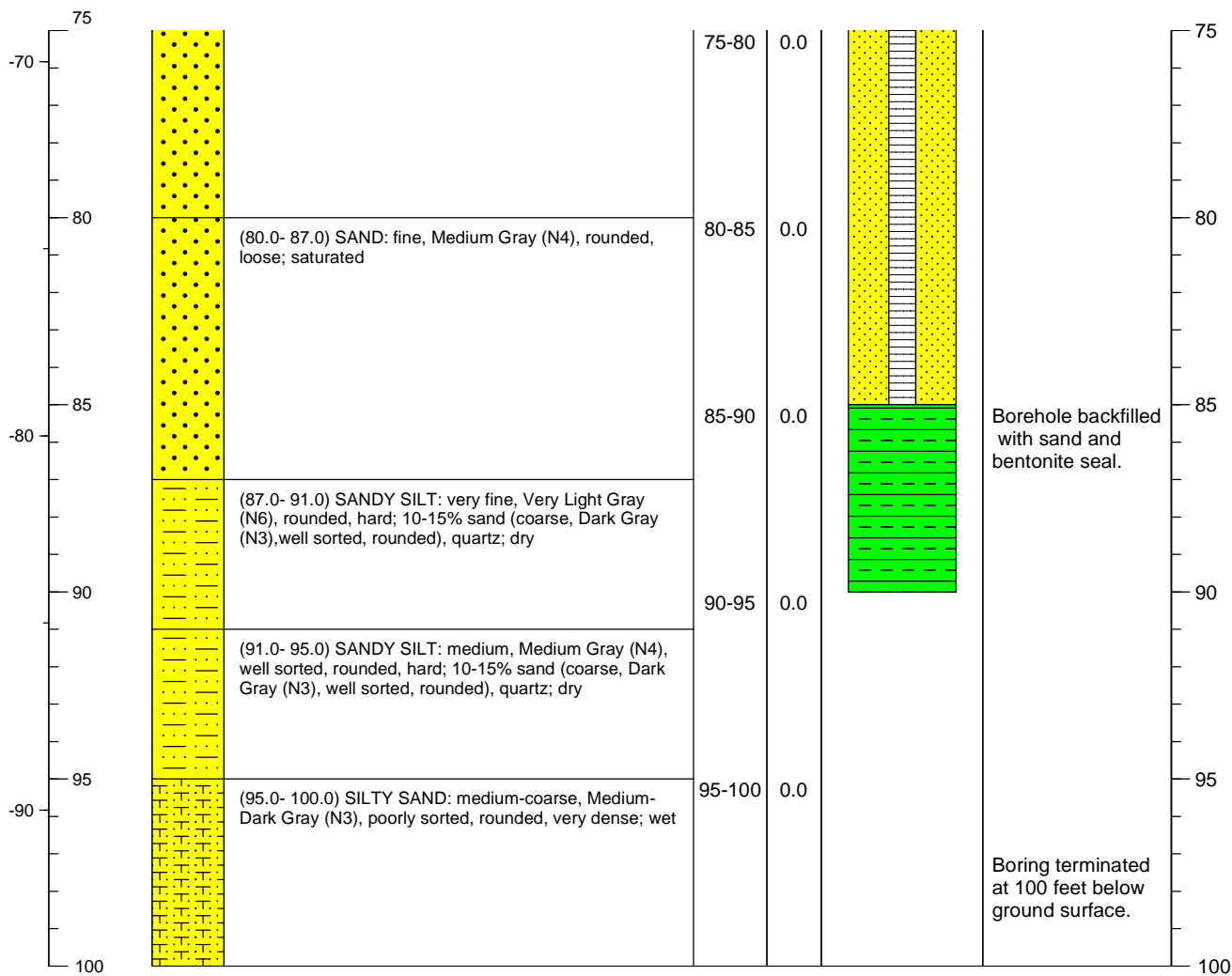
<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-38D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424939.029</b> <b>873047.577</b>	Ground Surface Elevation <b>5.83</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>75-85 ft</b>	Top of Well Casing Elevation <b>8.76</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>85 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>4/5/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>100 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>4/6/10</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



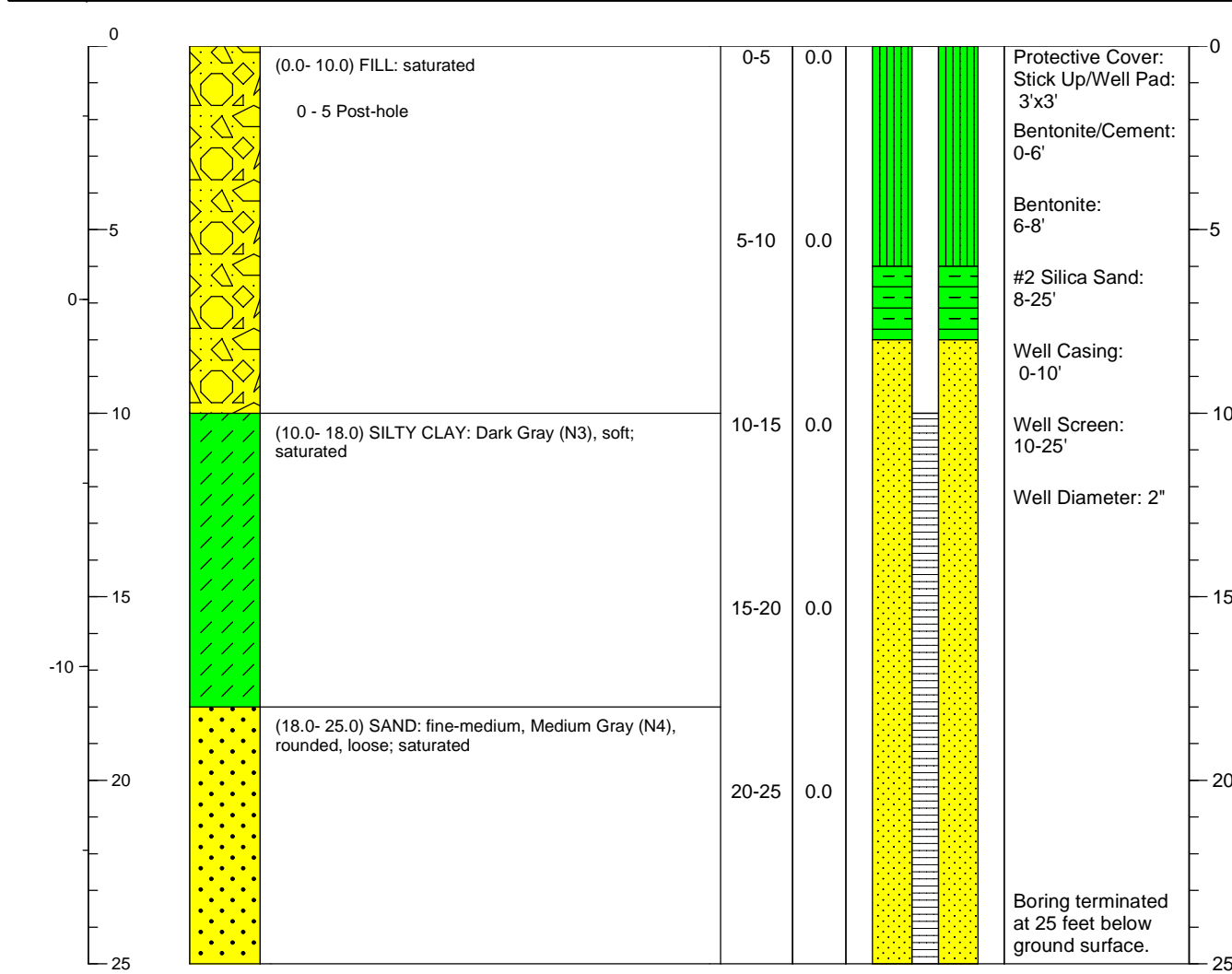
Project Name			Well Number	
Ashland Brunswick Georgia			MW-38D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424939.029 873047.577	Ground Surface Elevation  5.83
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation  8.76
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/5/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/6/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA				
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth



Project Name			Well Number	
Ashland Brunswick Georgia			MW-39S	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424321.659 873717.417	Ground Surface Elevation 6.90
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 10-25 ft		Top of Well Casing Elevation 9.36
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 25 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/1/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 25 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

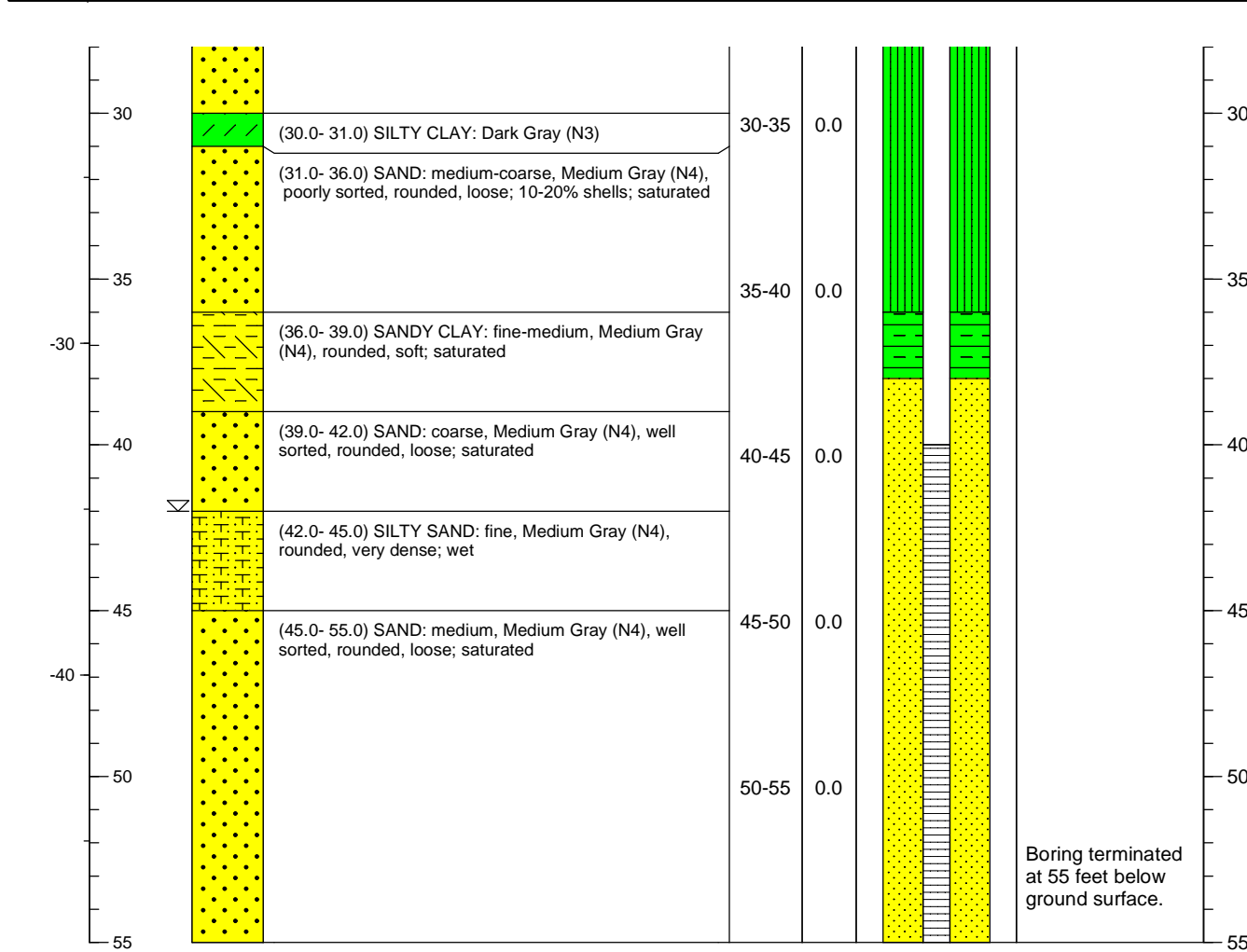
LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details





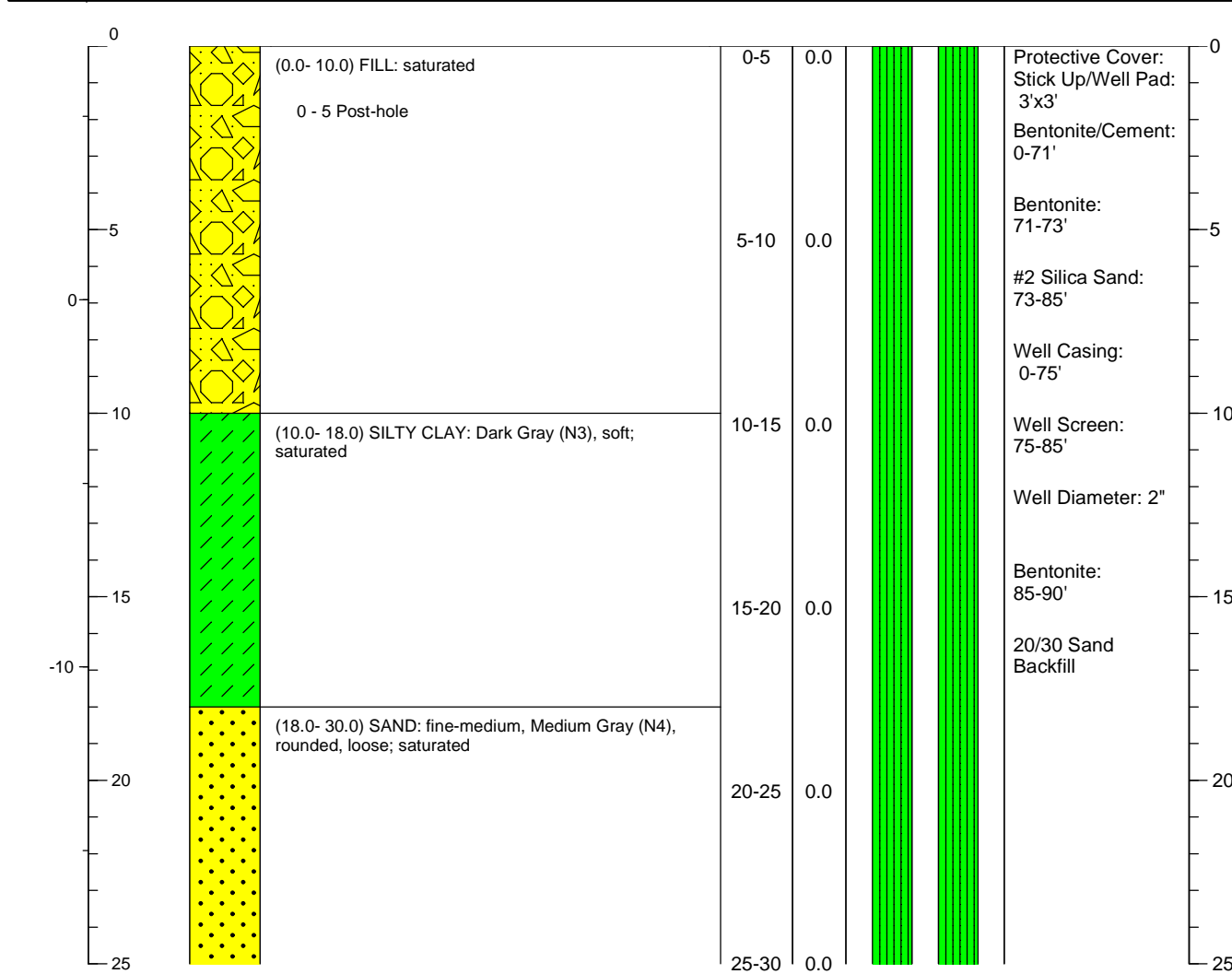
Project Name			Well Number	
Ashland Brunswick Georgia			MW-39I	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424316.007 873719.349	Ground Surface Elevation 6.94
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 9.60
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/1/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-39D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424309.667 873721.548	Ground Surface Elevation 6.91
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation 9.83
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/31/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-39D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting 424309.667 873721.548	Ground Surface Elevation 6.91	
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft	Top of Well Casing Elevation 9.83	
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/31/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

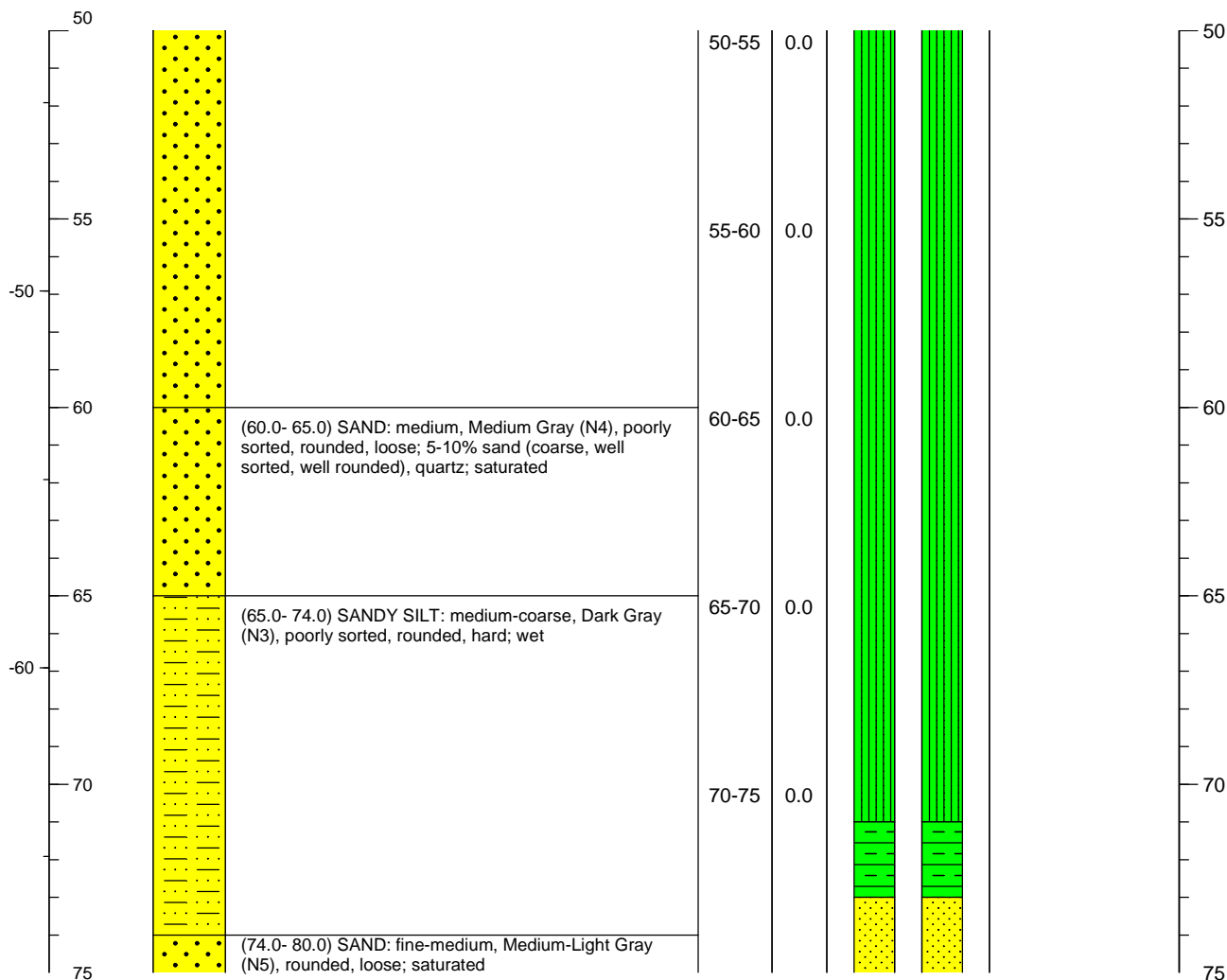
LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
25				25-30	0.0		
-20							
-30			(30.0- 31.0) SILTY CLAY: Dark Gray (N3)	30-35	0.0		
			(31.0- 36.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, rounded, loose; 10-20% shells; saturated				
-35				35-40	0.0		
-30			(36.0- 39.0) SANDY CLAY: fine-medium, Medium Gray (N4), rounded, soft; saturated				
-40			(39.0- 42.0) SAND: coarse, Medium Gray (N4), well sorted, rounded, loose; saturated	40-45	0.0		
			(42.0- 45.0) SILTY SAND: fine, Medium Gray (N4), rounded, very dense; wet				
-45			(45.0- 60.0) SAND: medium, Medium Gray (N4), well sorted, rounded, loose; saturated	45-50	0.0		
-50							



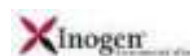
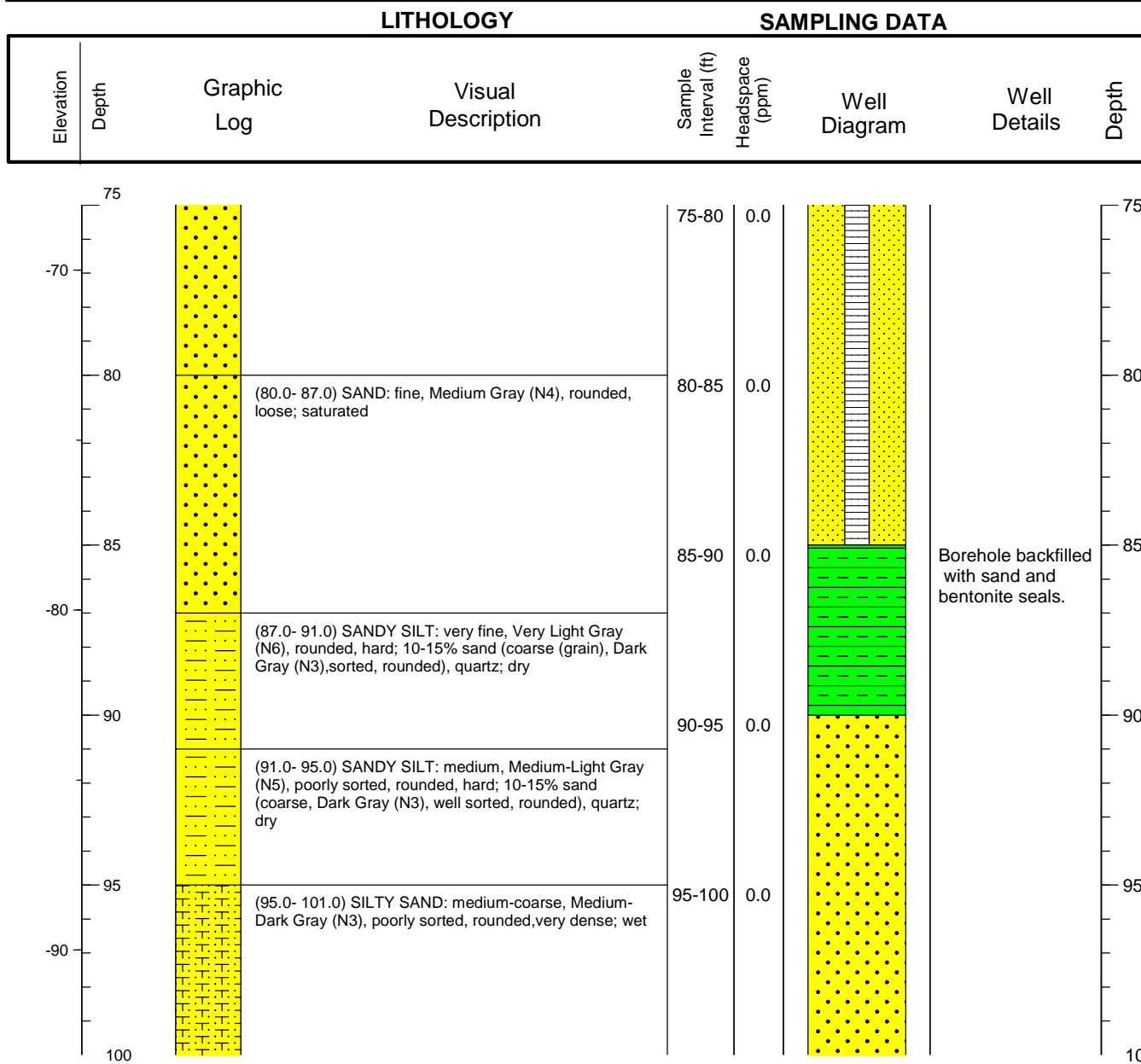


Project Name			Well Number	
Ashland Brunswick Georgia			MW-39D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424309.667 873721.548	Ground Surface Elevation  6.91
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation  9.83
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/31/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth

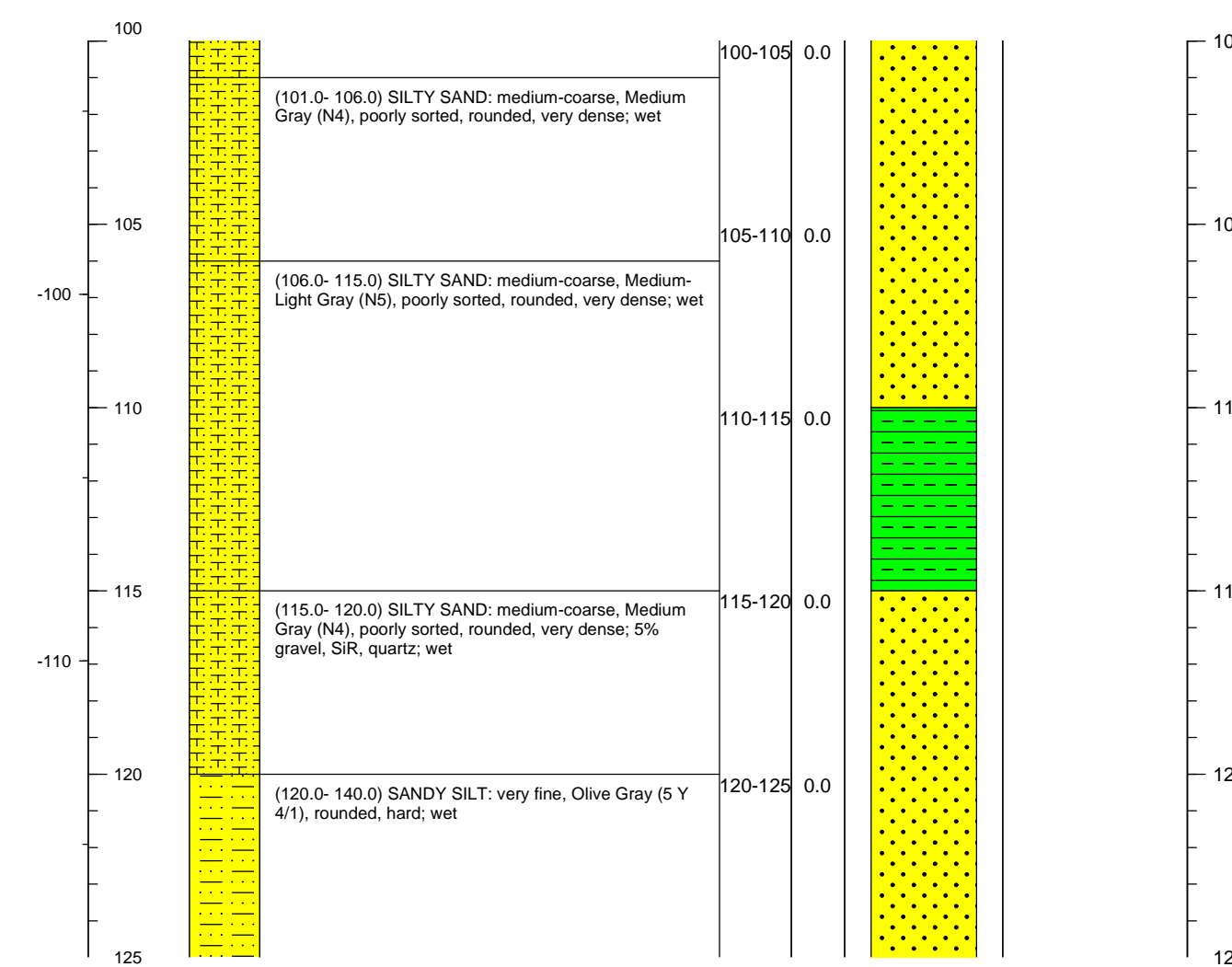


Project Name			Well Number	
Ashland Brunswick Georgia			MW-39D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424309.667 873721.548	Ground Surface Elevation  6.91
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation  9.83
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/31/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	



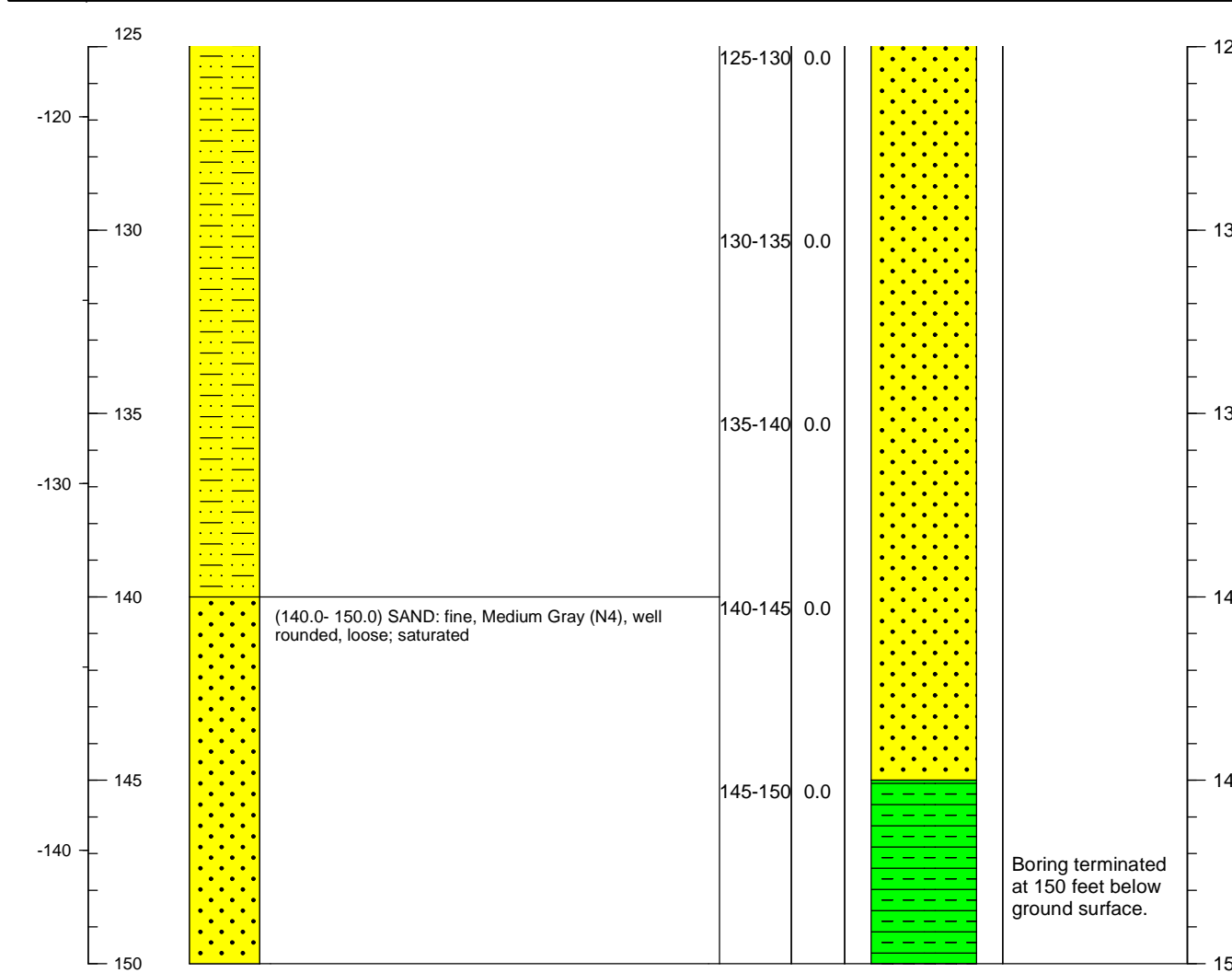
Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-39D			
Address 2801 Cook Street  Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting		424309.667 873721.548		Ground Surface Elevation 6.91	
		Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft				Top of Well Casing Elevation 9.83	
GA EPD Number GAD004065520		Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch				Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate		Date Drilling Started 3/31/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 150 ft		Boring Dia. 6 in.	
Driller Name B. Niles Project Number WBS30012B1		Date Drilling Completed 4/1/10	Sampling Method Continuous Cores				Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



Project Name			Well Number	
Ashland Brunswick Georgia			MW-39D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424309.667 873721.548	Ground Surface Elevation 6.91
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 75-85 ft		Top of Well Casing Elevation 9.83
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 85 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/31/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/1/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



Project Name			Well Number	
Ashland Brunswick Georgia			MW-40S	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424370.069 869355.249	Ground Surface Elevation 11.69
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 10-25 ft		Top of Well Casing Elevation 14.19
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 25 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 25 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/29/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0								0
	10							
	5							5
	10							10
0								
	15							15
	20							20
-10								
	25							25



Project Name			Well Number	
Ashland Brunswick Georgia			MW-40I	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424365.436 869354.577	Ground Surface Elevation 11.82
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 14.18
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/29/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

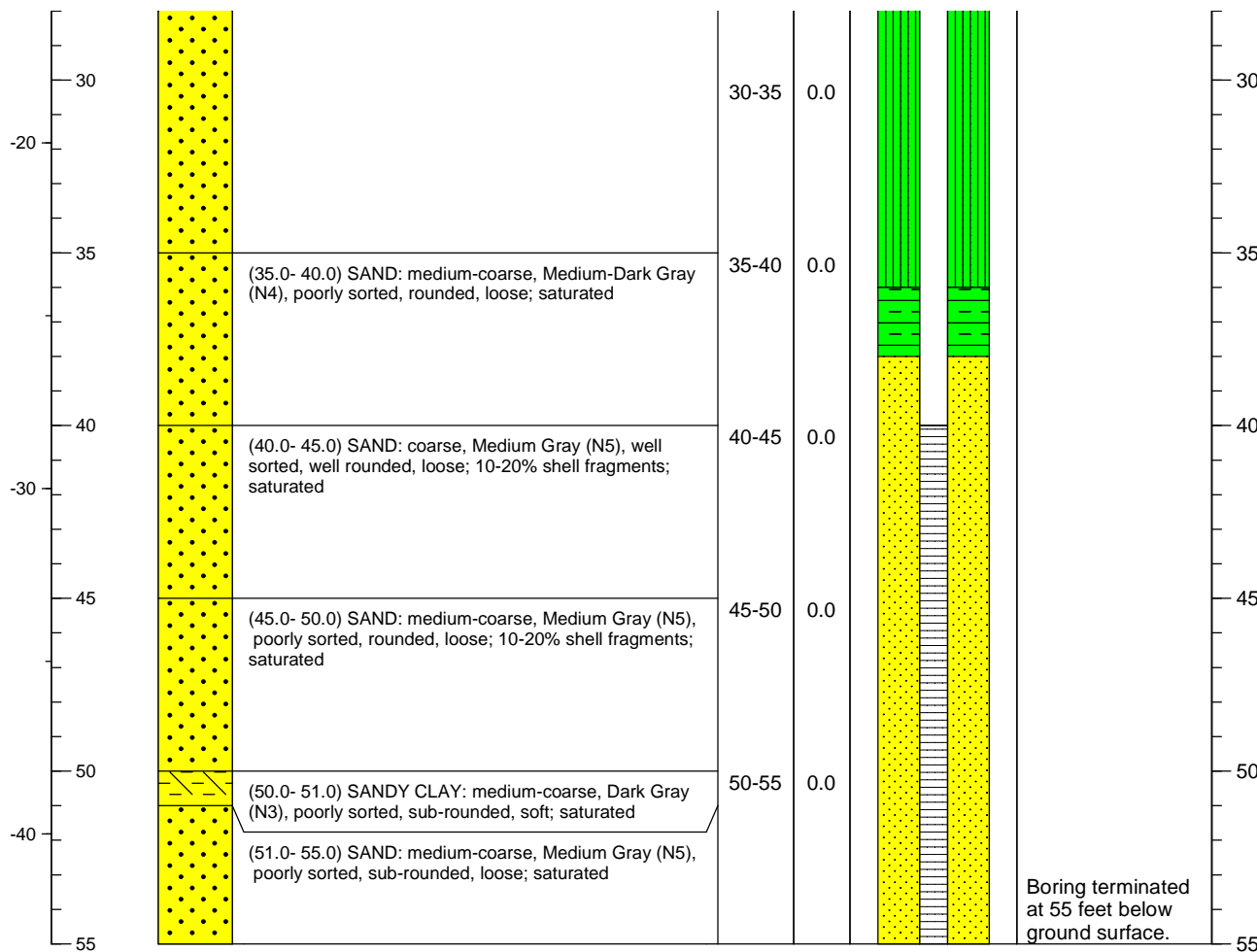
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0								0
	10		(0.0- 7.0) SAND: very fine-fine, Pale Brown (5 YR 2/2), well rounded, loose; wet  0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-36'	
	5			5-10	68.5		Bentonite: 36-38'	5
			(7.0- 8.0) SAND: very fine-fine, Dusty Brown (5 YR 2/2), well rounded, loose; wet				#2 Silica Sand: 38-55'	
	10		(8.0- 17.0) SAND: very fine-fine, Light Brown (5/6), well rounded, loose; wet	10-15	9.9		Well Casing: 0-40'	10
0							Well Screen: 40-55'	
	15			15-20	5.5		Well Diameter: 2"	15
			(17.0- 21.0) SAND: very fine-fine, Moderate Brown (3/4), well rounded, loose; wet					
	20			20-25	8.9			20
			(21.0- 27.0) SILTY SAND: very fine, Dark Yellow Brown (4/2), well rounded					
-10				25-30	0.0			25
	25							
			(27.0- 35.0) SAND: medium, Medium-Dark Gray (N4), well sorted, well rounded, loose; saturated					



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-40I
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424365.436</b> <b>869354.577</b>	Ground Surface Elevation <b>11.82</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>40-55 ft</b>	Top of Well Casing Elevation <b>14.18</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>55 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>3/29/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>55 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>3/29/10</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details





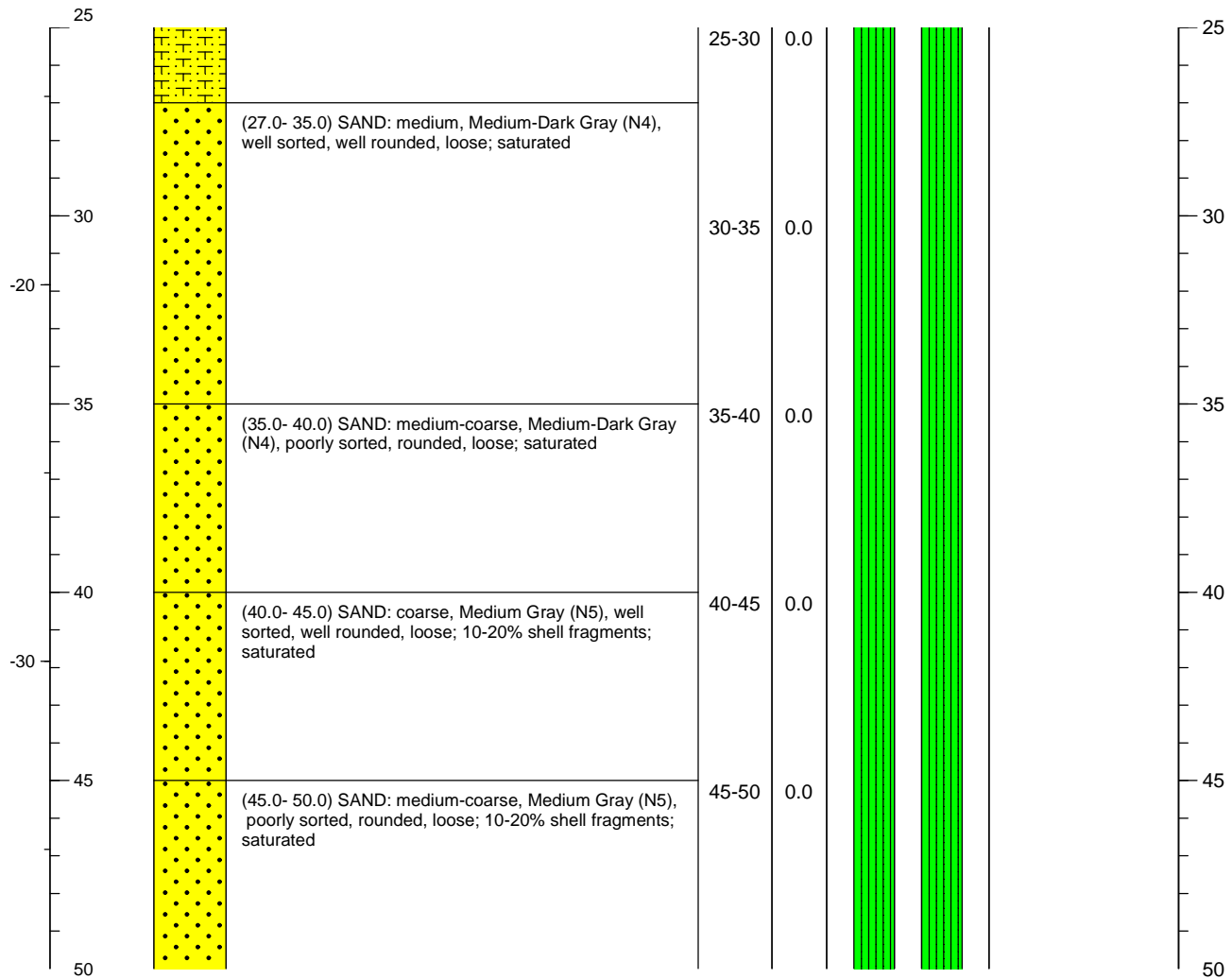
Project Name			Well Number	
Ashland Brunswick Georgia			MW-40D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting 424362.733 869354.345	Ground Surface Elevation 11.83	
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft	Top of Well Casing Elevation 14.27	
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/24/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/26/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA				
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 7.0) SAND: very fine-fine, Pale Brown (5 YR 2/2), well rounded, loose; wet	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
10			0 - 5 Post-hole	5-10	68.5		Bentonite/Cement: 0-96'	5
5			(7.0- 8.0) SAND: very fine-fine, Dusty Brown (5 YR 2/2), well rounded, loose; wet				Bentonite: 96-98'	
			(8.0- 17.0) SAND: very fine-fine, Light Brown (5/6), well rounded, loose; wet	10-15	9.9		#2 Silica Sand: 98-110'	
				15-20	5.5		Well Casing: 0-100'	
0							Well Screen: 100-110'	10
15							Well Diameter: 2"	
							Bentonite: 110-115'	15
							20/30 Sand Backfill	
20								20
-10								
25								25



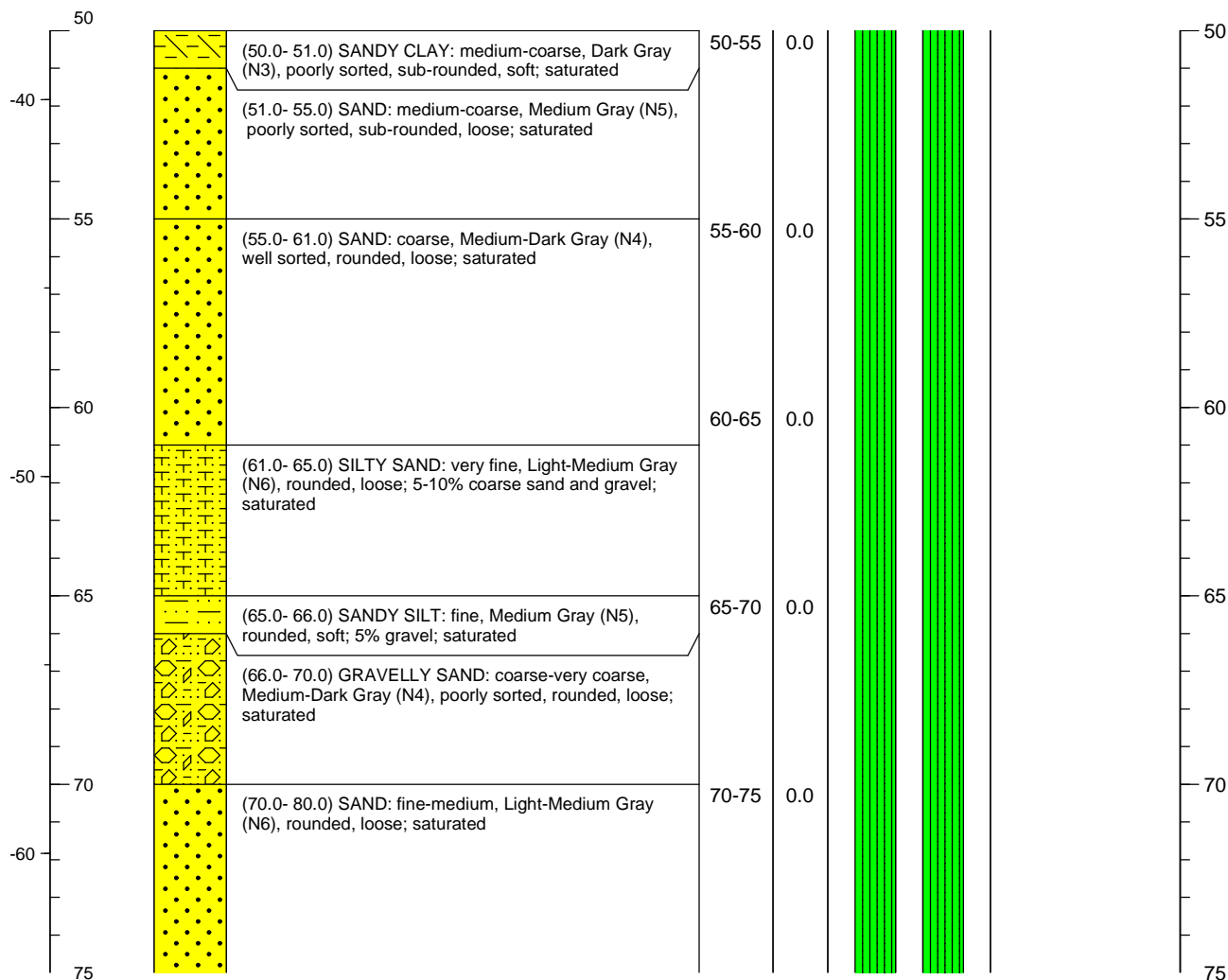
Project Name			Well Number	
Ashland Brunswick Georgia			MW-40D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424362.733 869354.345	Ground Surface Elevation 11.83
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 14.27
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/24/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/26/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



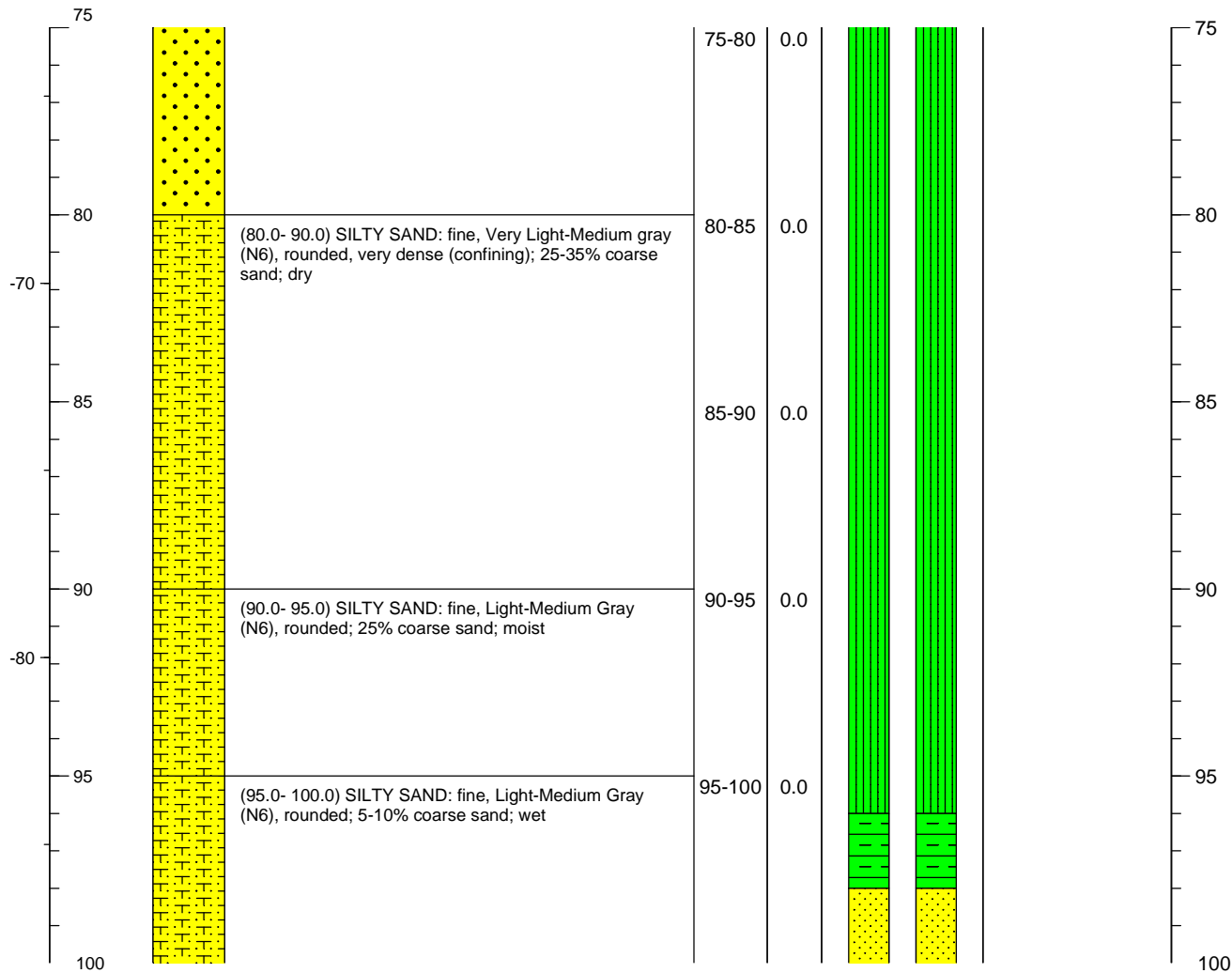
Project Name			Well Number	
Ashland Brunswick Georgia			MW-40D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424362.733 869354.345	Ground Surface Elevation 11.83
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 14.27
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/24/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/26/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



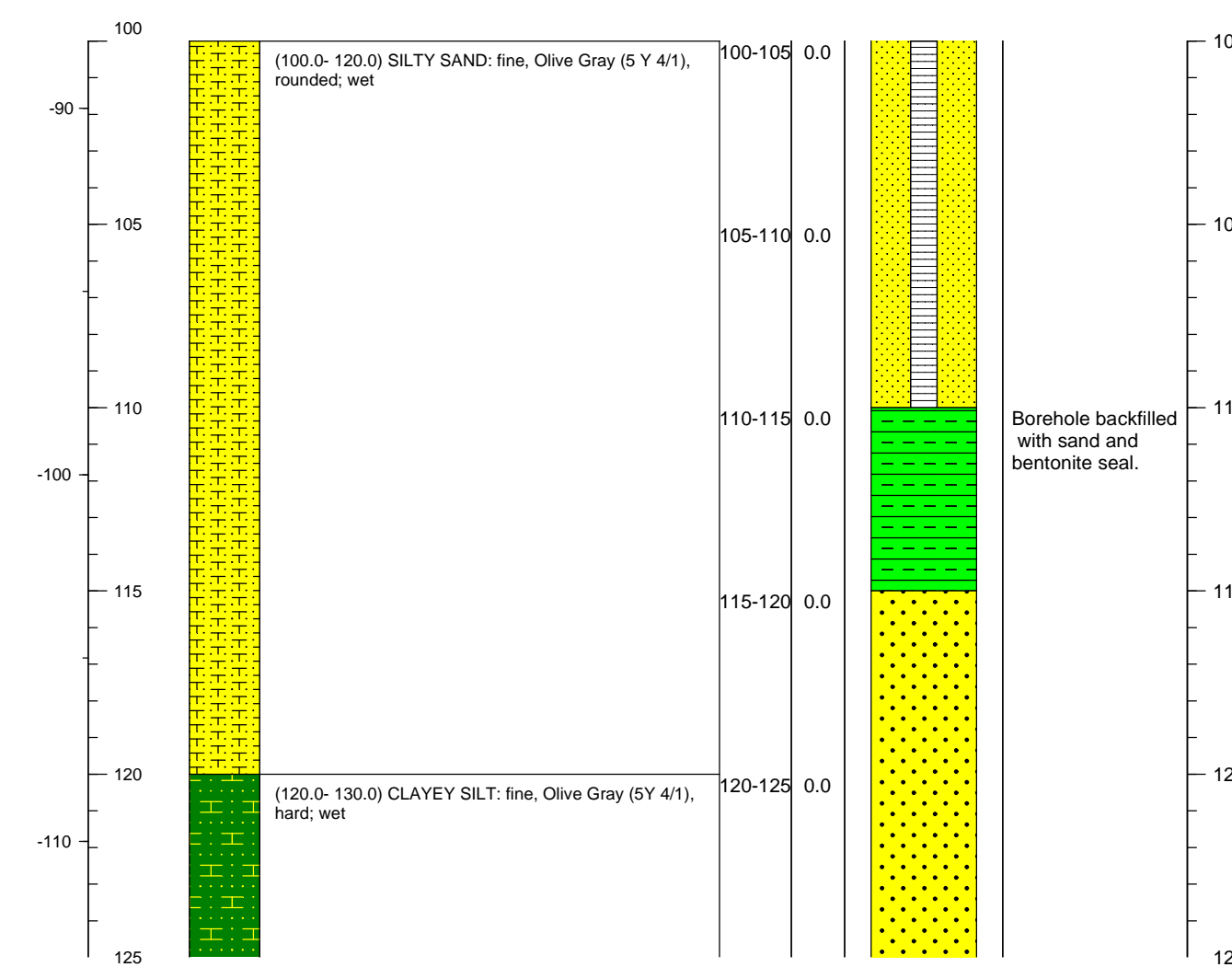
Project Name			Well Number	
Ashland Brunswick Georgia			MW-40D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424362.733 869354.345	Ground Surface Elevation 11.83
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Top of Well Casing Elevation 14.27
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 110 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/24/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/26/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



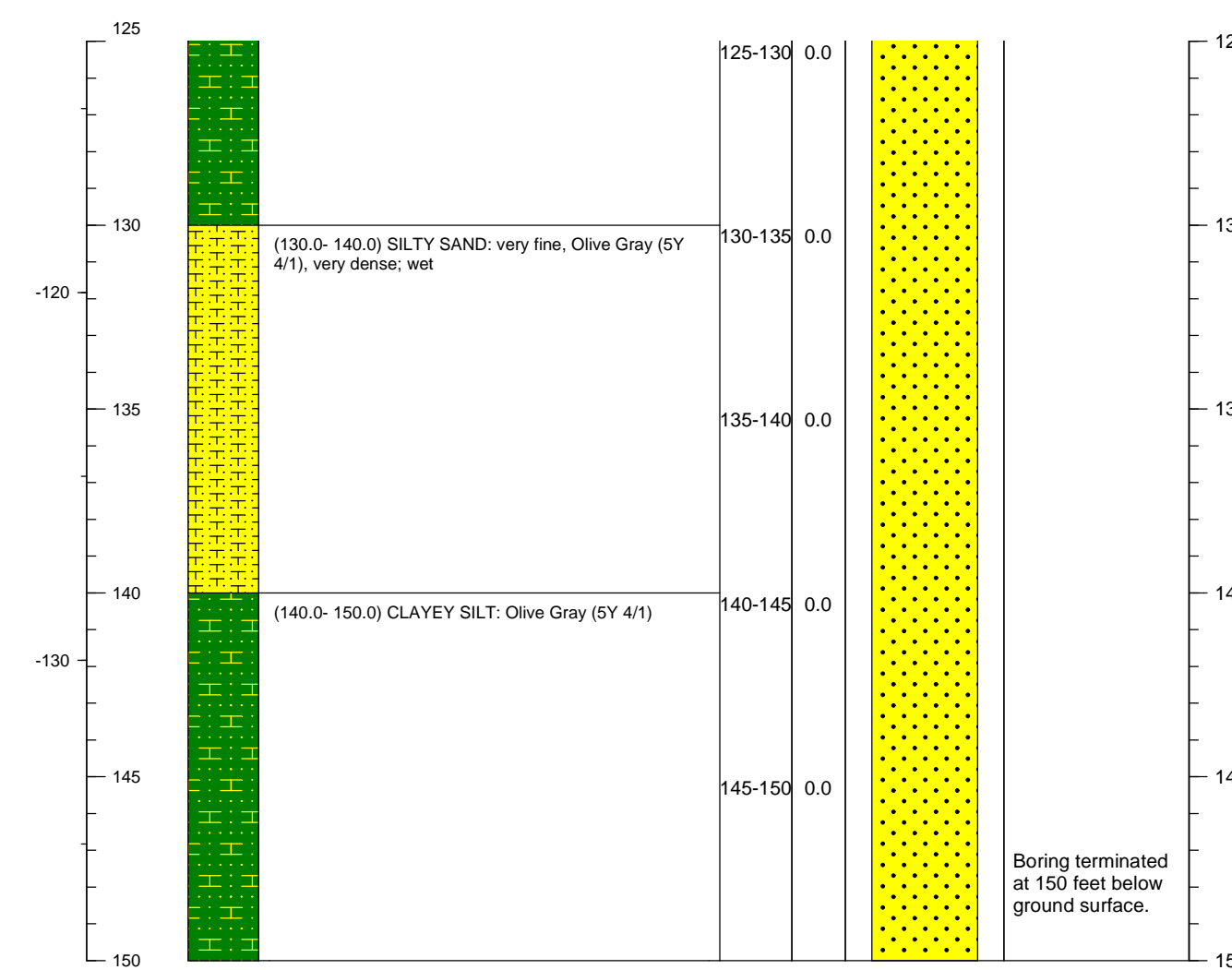
<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-40D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424362.733</b> <b>869354.345</b>	Ground Surface Elevation <b>11.83</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>100-110 ft</b>	Top of Well Casing Elevation <b>14.27</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>110 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>3/24/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>150 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>3/26/10</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-40D	
Address 2801 Cook Street  Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting		424362.733 869354.345	
		Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 100-110 ft		Ground Surface Elevation 11.83	
GA EPD Number GAD004065520		Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Top of Well Casing Elevation 14.27	
Logged By R. McLain Approved By R. Cate		Date Drilling Started 3/24/10	Well Screen Diameter and Type 2 in. SCH 40 PVC		Total Well Depth 110 ft	
Driller Name B. Niles Project Number WBS30012B1		Date Drilling Completed 3/26/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth Boring Dia. 150 ft 6 in.	
			Sampling Method Continuous Cores		Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-411	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	425872.090 871633.340	Ground Surface Elevation  9.65
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 38-48 ft		Top of Well Casing Elevation 12.35
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 48 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/18/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/19/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 7.0) SAND: fine, Dusty Brown (5YR 2/2), rounded; moist 0 - 5 Post-hole	0-2	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
				2-4	0.0		Bentonite/Cement: 0-34'	
				4-6	0.0		Bentonite: 34-36'	5
				6-8	0.0		#2 Silica Sand: 36-48'	
			(7.0- 10.0) SAND: fine, Moderate Brown (5YR 6/2), rounded; wet	8-10	0.0		Well Casing: 0-38'	10
0	10	▽	(10.0- 13.0) SAND: very fine, Pale Yellow Brown (10YR 6/2), rounded, loose; saturated	10-12	0.0		Well Screen: 38-48'	
				12-14	0.0		Well Diameter: 2"	
			(13.0- 15.0) SAND: very fine, Dark Gray (N4), rounded, loose; with clay; saturated	14-16	0.0		Bentonite: 48-53'	15
			(15.0- 30.0) SAND: medium-coarse, Medium Gray (N5), poorly sorted, rounded, loose; some shells; saturated	16-18	0.0		20/30 Sand Backfill	
				18-20	0.0			
				20-22	0.0			20
				22-24	0.0			
				24-26	0.0			25

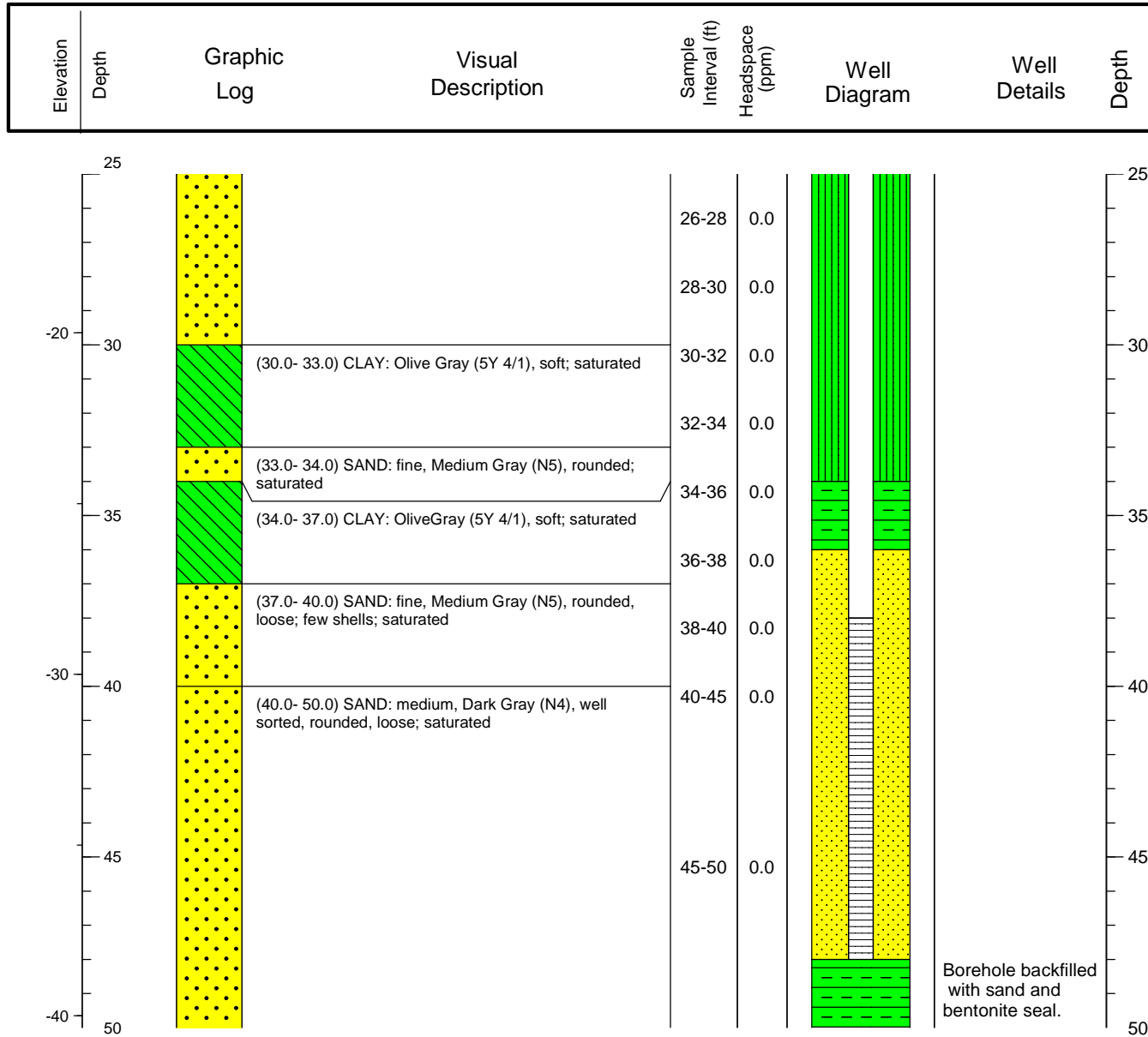




<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-411	
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting	<b>425872.090</b> <b>871633.340</b>	Ground Surface Elevation <b>9.65</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>38-48 ft</b>		Top of Well Casing Elevation <b>12.35</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>		Total Well Depth <b>48 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>3/18/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>		Boring Depth <b>100 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>3/19/10</b>	Sampling Method <b>Continuous Cores</b>		Headspace Monitoring Device <b>PID</b>	

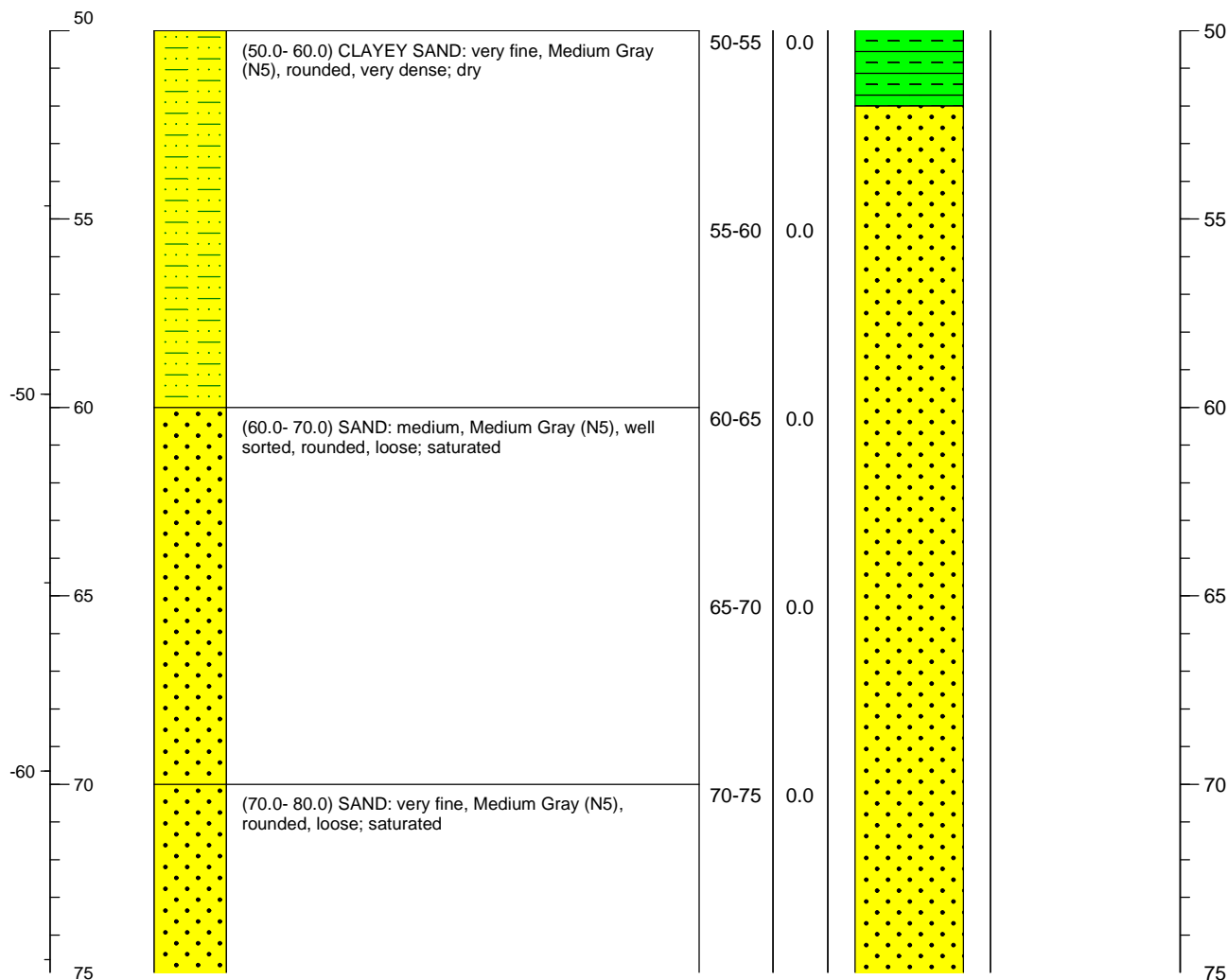
### LITHOLOGY

### SAMPLING DATA



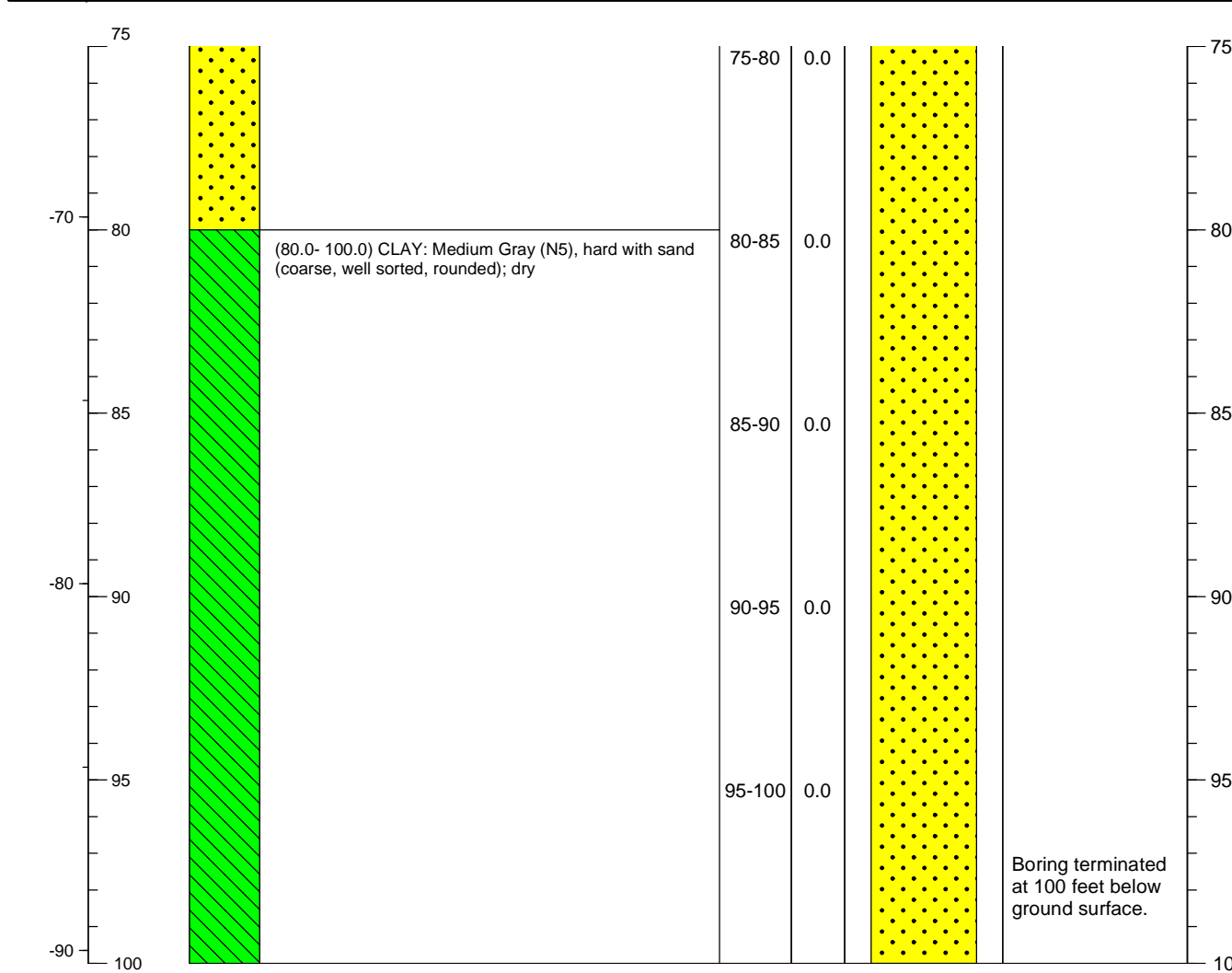
Project Name			Well Number	
Ashland Brunswick Georgia			MW-411	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	425872.090 871633.340	Ground Surface Elevation 9.65
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 38-48 ft		Top of Well Casing Elevation 12.35
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 48 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/18/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/19/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-411	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	425872.090 871633.340	Ground Surface Elevation 9.65
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 38-48 ft		Top of Well Casing Elevation 12.35
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 48 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/18/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/19/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-42S	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424651.6 870489.3	Ground Surface Elevation  8.80
	Drilling Equipment Mini Sonic	Well Screen Interval 10 - 20 ft		Top of Well Casing Elevation 11.52
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 20 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/21/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 20 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/27/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

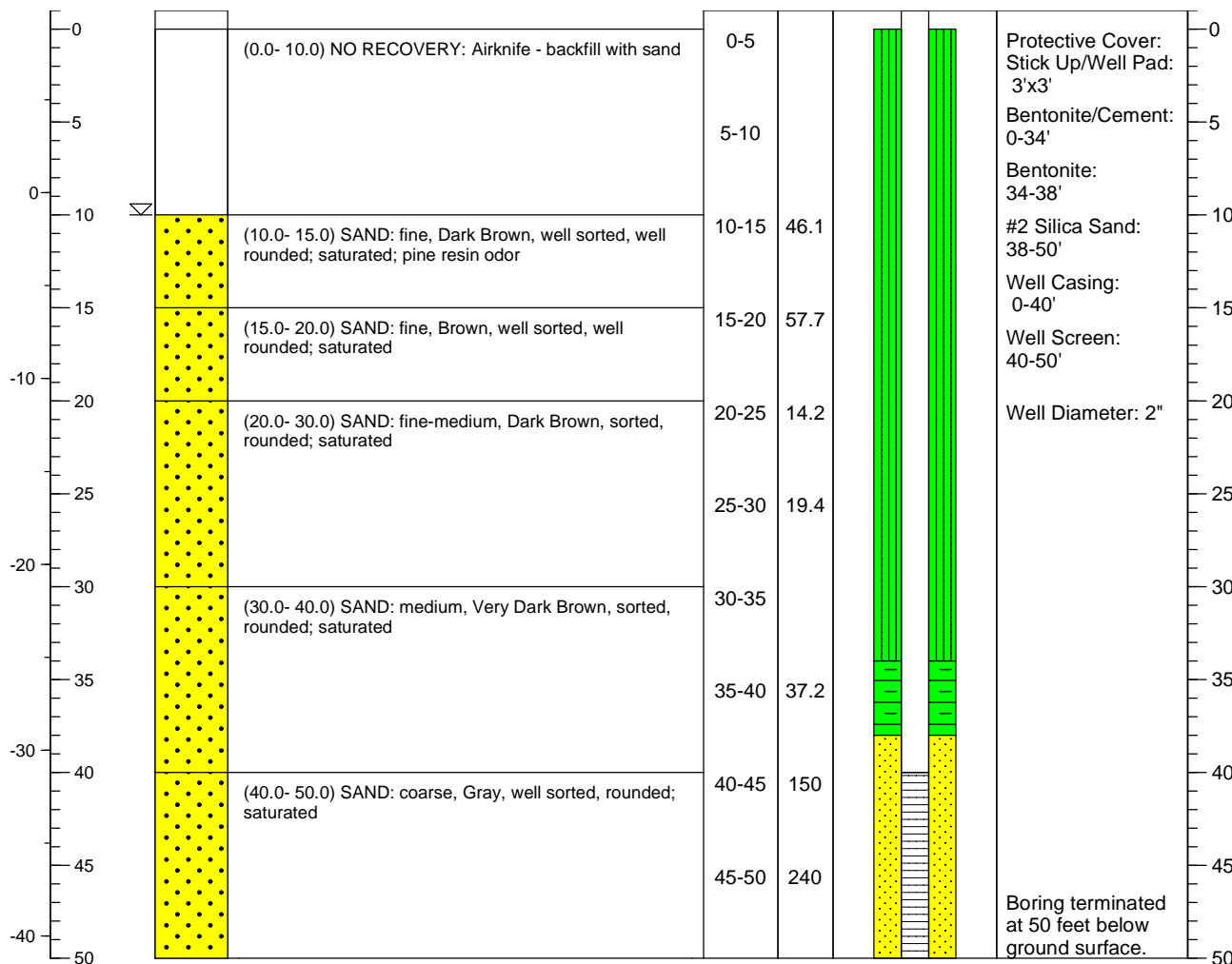
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0				0-10	NA		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(0.0- 10.0) NO RECOVERY: Airknife - backfill with sand				Bentonite/Cement: 0-5'	
							Bentonite: 5-8'	
-5							#2 Silica Sand: 8-20'	5
							Well Casing: 0-10'	
0							Well Screen: 10-20'	
-10				10-15	46.1		Well Diameter: 2"	10
			(10.0- 15.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated; pine resin odor					
-15				15-20	57.7			15
			(15.0- 20.0) SAND: fine, Brown, well sorted, well rounded; saturated					
-10							Boring terminated at 20 feet below ground surface.	20
-20								



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-42I	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424643.9 870491.4	Ground Surface Elevation  8.80
	Drilling Equipment Boart Big Rig	Well Screen Interval 40 - 50 ft		Top of Well Casing Elevation 11.43
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 50 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/21/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 50 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/27/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-42D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424657.9 870487.0	Ground Surface Elevation  8.70
	Drilling Equipment Boart Big Rig	Well Screen Interval 88 - 98 ft		Top of Well Casing Elevation 11.54
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 98 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/21/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 105 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/27/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 10.0) NO RECOVERY: Airknife - backfill with sand	0-10	NA		Protective Cover: Stick Up/Well Pad: 3'x3'	0
							Bentonite/Cement: 0-81'	5
							Bentonite: 81-85'	10
			(10.0- 15.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated; pine resin odor	10-15	46.1		#2 Silica Sand: 85-99'	15
			(15.0- 20.0) SAND: fine, Brown, well sorted, well rounded; saturated	15-20	57.7		Well Casing: 0-88'	20
			(20.0- 30.0) SAND: fine-medium, Dark Brown, sorted, rounded; saturated	20-25	14.2		Well Screen: 88-98'	25
				25-30	19.4		Well Diameter: 2"	30
			(30.0- 40.0) SAND: medium, Very Dark Brown, sorted, rounded; saturated	30-35	25		Backfill: Hydrated 3/8" Bentonite Chips: 99-105'	35

Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-42D	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424657.9 870487.0	Ground Surface Elevation  8.70
	Drilling Equipment Boart Big Rig	Well Screen Interval 88 - 98 ft		Top of Well Casing Elevation 11.54
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 98 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/21/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 105 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/27/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
35				35-40	37.2		
-30							
	40		(40.0- 50.0) SAND: coarse, Gray, well sorted, rounded; saturated	40-45	150		
	45			45-50	240		
-40							
	50		(50.0- 55.0) SAND: medium, Gray, well sorted, rounded; saturated	50-55	240		
	55		(55.0- 60.0) SAND: fine-medium, Gray, sorted, rounded; saturated	55-60	201		
-50							
	60		(60.0- 64.0) SAND: fine, Gray, well sorted, rounded; saturated	60-65	258		
	65		(64.0- 65.0) CLAYEY SAND: fine-coarse, Gray, poorly sorted, rounded; saturated; 20% gravel, 10% pebble	65-70	258		
-60			(65.0- 78.0) SAND: coarse, Gray, well sorted, rounded; saturated				
	70			70-75	255		



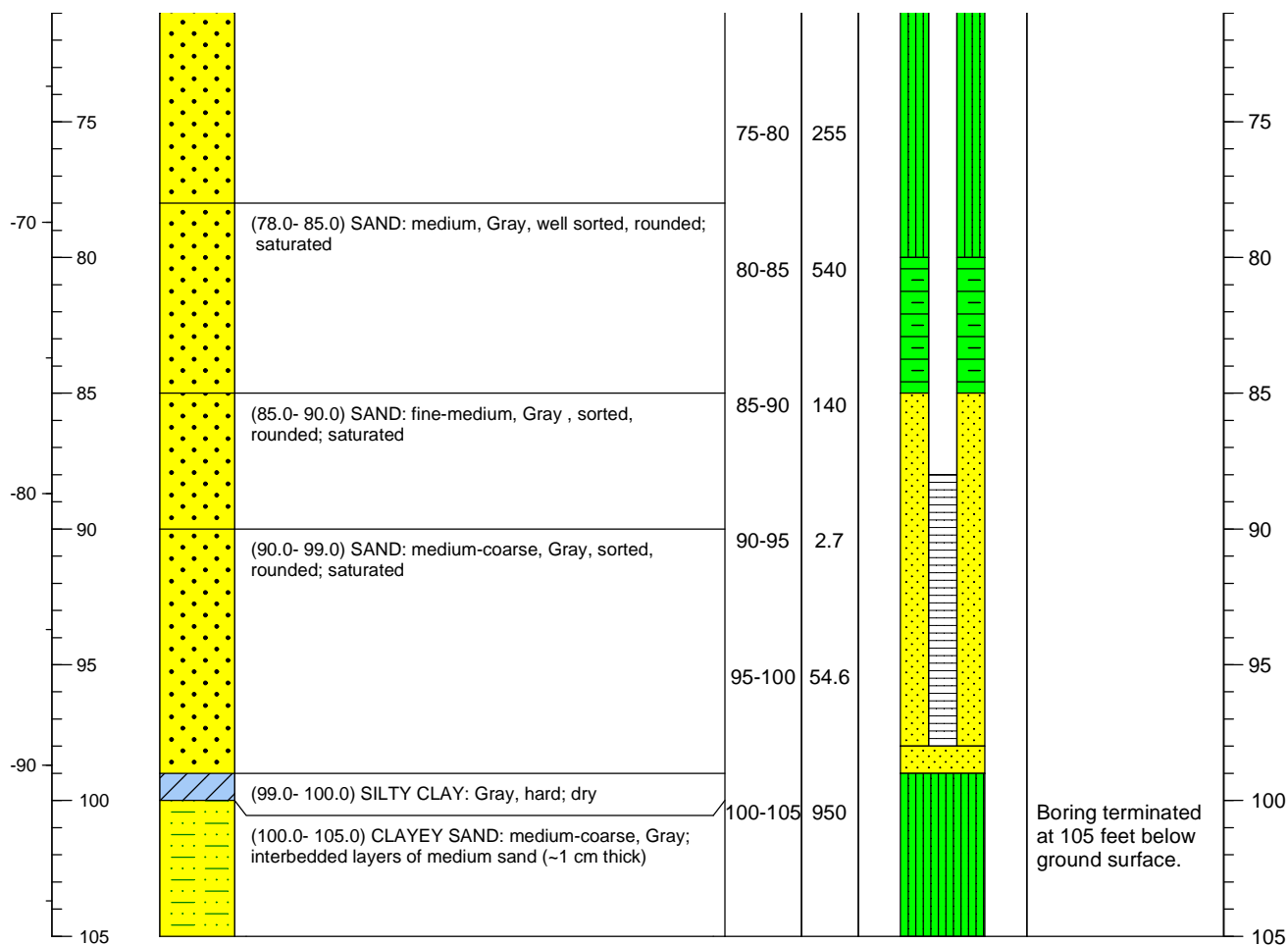


Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-42D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424657.9 870487.0	Ground Surface Elevation 8.70
	Drilling Equipment Boart Big Rig	Well Screen Interval 88 - 98 ft		Top of Well Casing Elevation 11.54
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 98 ft
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/21/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 105 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/27/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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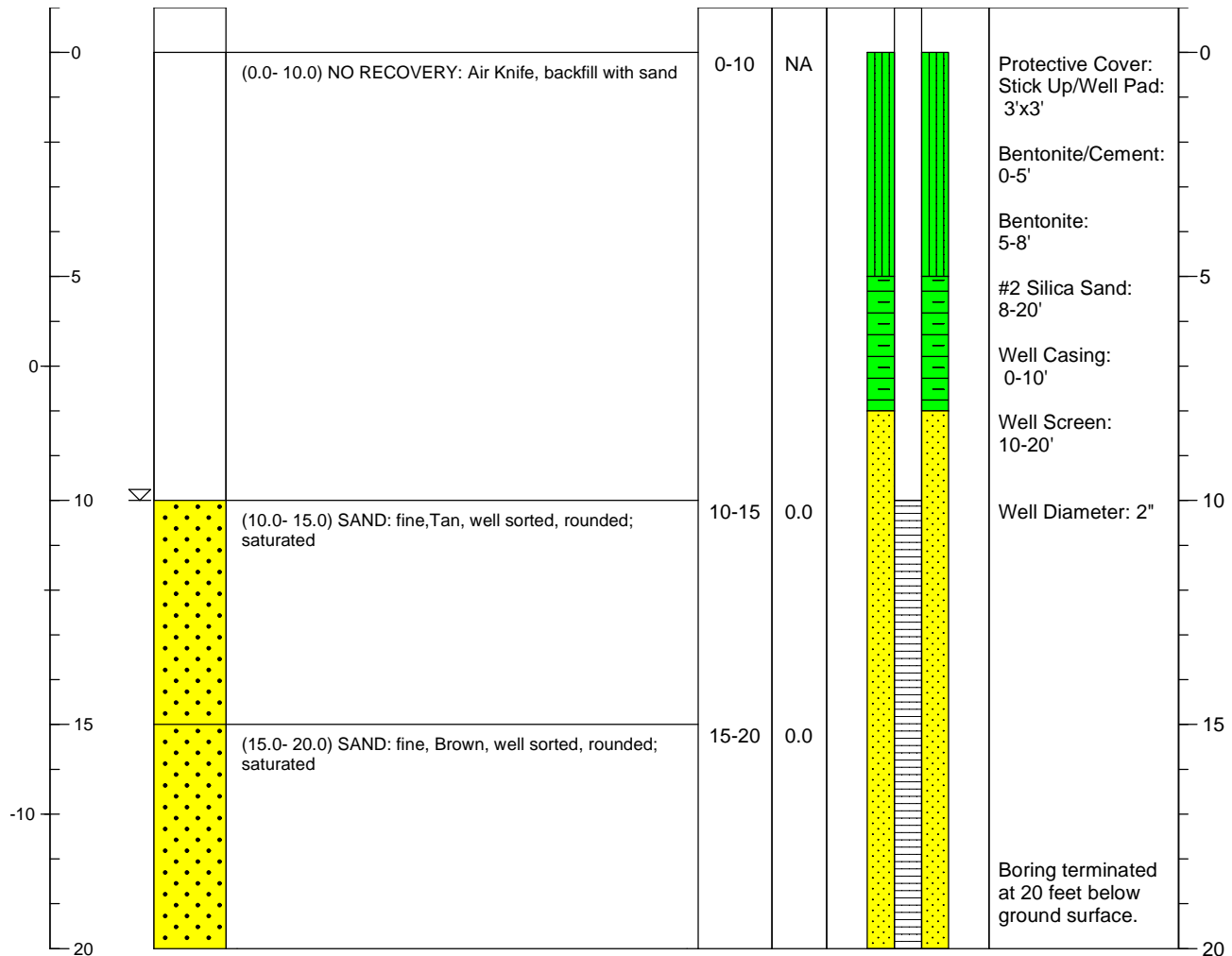


Project Name				Well Number	
Former Hercules Brunswick Facility Georgia		Monitoring Well Construction Log		MW-43S	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424639.3 871552.9	Ground Surface Elevation 7.00	
	Drilling Equipment Mini Sonic	Well Screen Interval 10 - 20 ft		Top of Well Casing Elevation 9.94	
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 20 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/27/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 20 ft.	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/28/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-43I	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424637.4 871545.2	Ground Surface Elevation 7.10		
	Drilling Equipment Boart Big Rig	Well Screen Interval 40 - 50 ft		Top of Well Casing Elevation 9.93		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 50 ft		
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/27/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 50 ft.	Boring Dia. 4 in. / 6 in.	
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/28/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID		

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 10.0) NO RECOVERY: Air Knife, backfill with sand	0-10			Protective Cover: Stick Up/Well Pad: 3'x3'	0
5							Bentonite/Cement: 0-34'	5
10			(10.0- 15.0) SAND: fine, Tan, well sorted, rounded; saturated	10-15	0.0		Bentonite: 34-38'	10
15			(15.0- 25.0) SAND: fine, Brown, well sorted, rounded; saturated	15-20	0.0		#2 Silica Sand: 38-50'	15
-10				20-25	0.0		Well Casing: 0-40'	20
-20				25-30	0.0		Well Screen: 40-50'	25
-25			(25.0- 30.0) SAND: fine, Gray, well sorted, rounded; saturated	30-35	0.0		Well Diameter: 2"	30
-30			(30.0- 35.0) SAND: medium, Gray, well sorted, rounded; saturated	35-40	0.0			35
-35			(35.0- 40.0) SAND: fine-medium, Gray, sorted, rounded; saturated	40-45	0.0			40
-40			(40.0- 50.0) SAND: coarse, Gray, well sorted, rounded; saturated	45-50	0.0			45
-50							Boring terminated at 50 feet below ground surface.	50



Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-43D	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424636.8 871537.0	Ground Surface Elevation 7.10		
	Drilling Equipment Boart Big Rig	Well Screen Interval 89 - 99 ft		Top of Well Casing Elevation 9.96		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 99 ft		
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/27/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 107 ft.	Boring Dia. 4 in. / 6 in.	
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/28/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID		

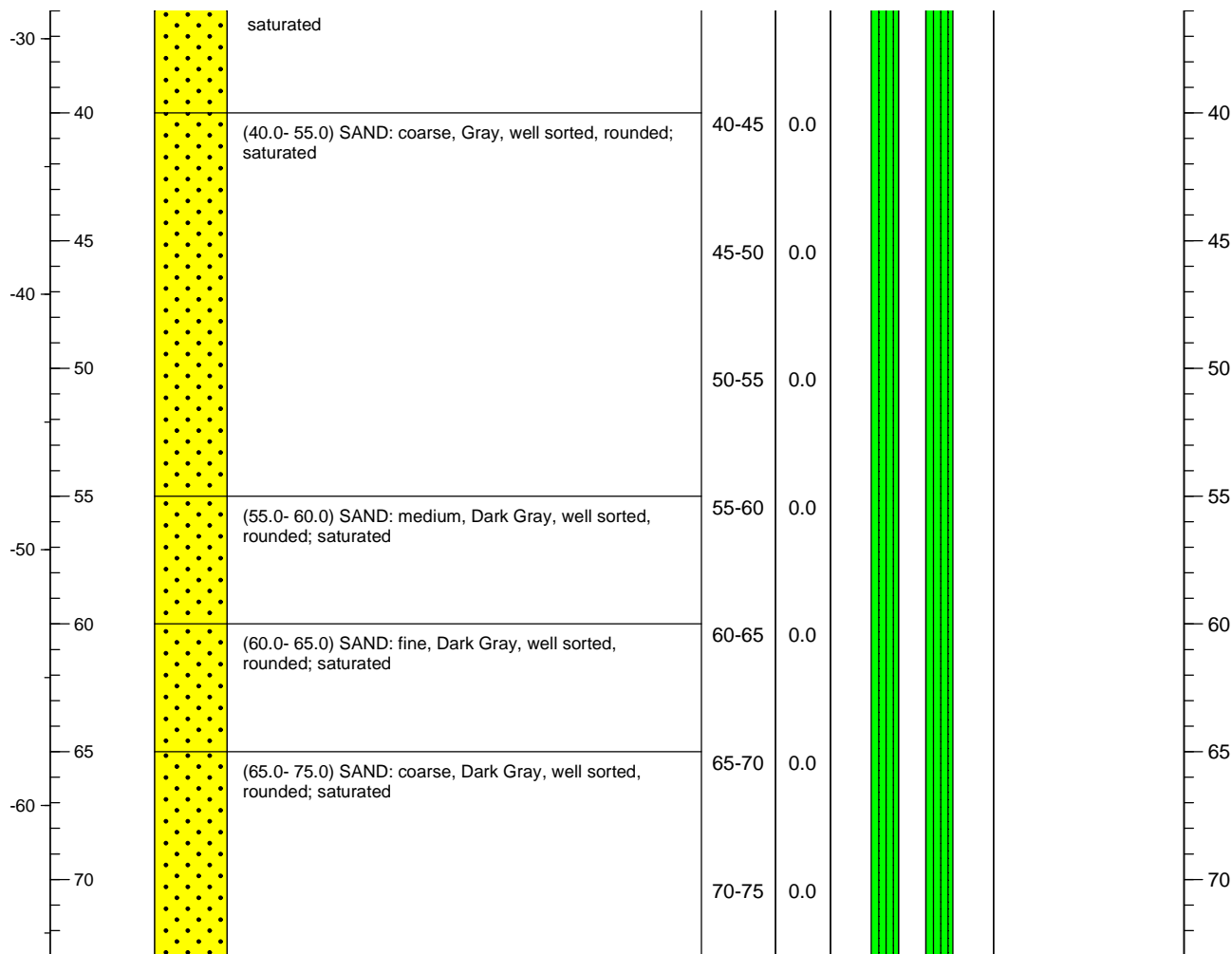
### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 10.0) NO RECOVERY: Air Knife, backfill with sand	0-10	NA		Protective Cover: Stick Up/Well Pad: 3'x3'	0
-5							Bentonite/Cement: 0-82'	5
-10							Bentonite: 82-86'	10
-15			(10.0- 15.0) SAND: fine, Tan, well sorted, rounded; saturated	10-15	0.0		#2 Silica Sand: 86-99'	15
-20			(15.0- 25.0) SAND: fine, Brown, well sorted, rounded; saturated	15-20	0.0		Well Casing: 0-89'	20
-25							Well Screen: 89-99'	25
-30			(25.0- 30.0) SAND: fine, Gray, well sorted, rounded; saturated	20-25	0.0		Well Diameter: 2"	30
-35							Backfill: Hydrated 3/8" Bentonite Chips: 100-105'	35
			(30.0- 35.0) SAND: medium, Gray, well sorted, rounded; saturated	25-30	0.0			
			(35.0- 40.0) SAND: fine-medium, Gray, sorted, rounded;	30-35	0.0			
				35-40	0.0			

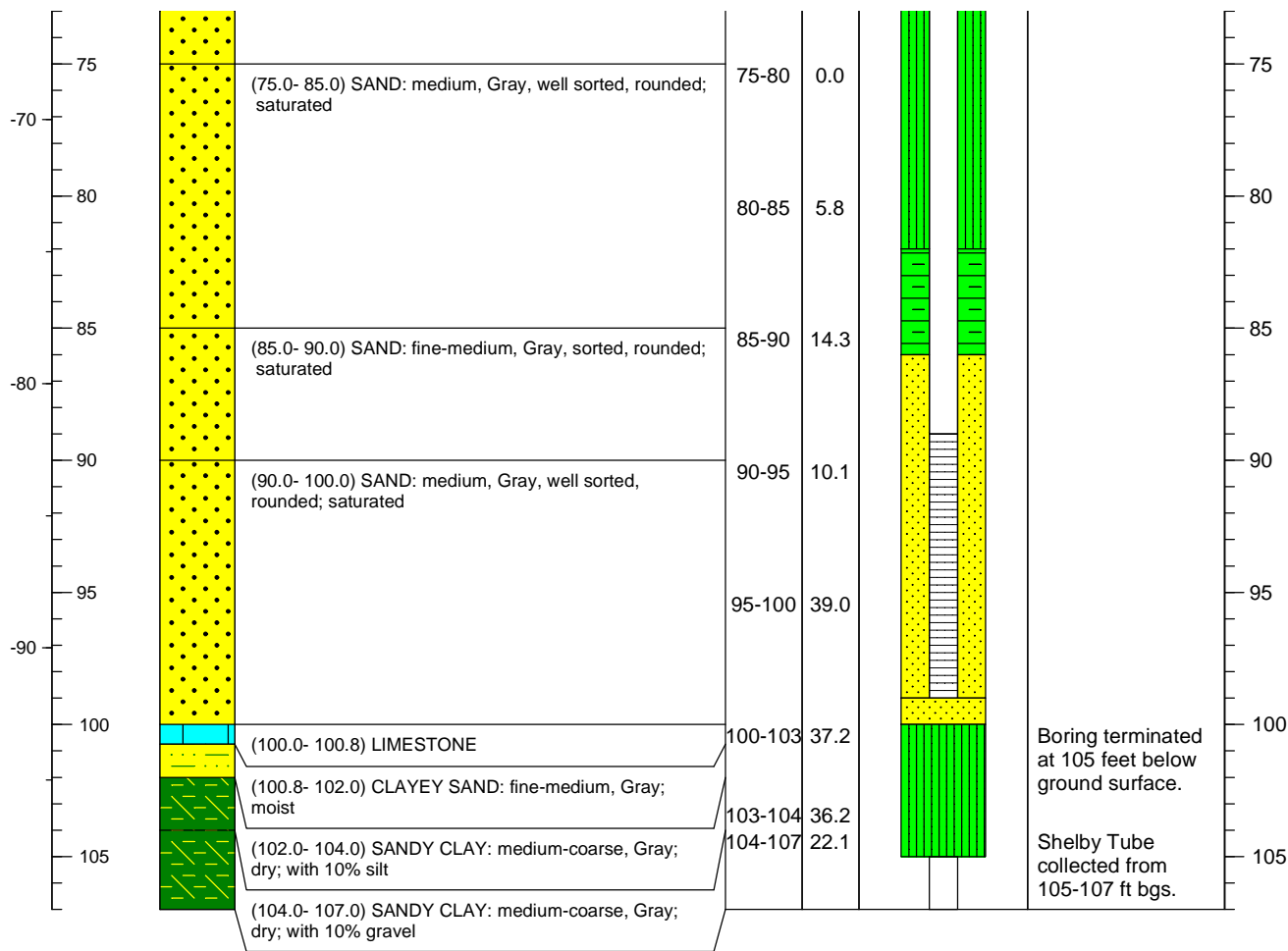
Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-43D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424636.8 871537.0	Ground Surface Elevation 7.10
	Drilling Equipment Boart Big Rig	Well Screen Interval 89 - 99 ft		Top of Well Casing Elevation 9.96
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 99 ft
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/27/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 107 ft.	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/28/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details

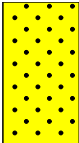
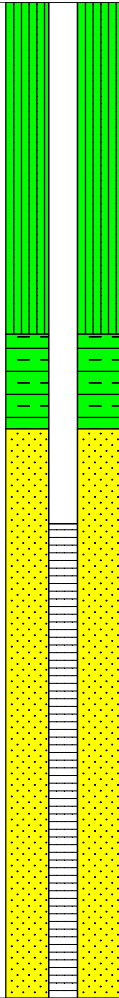
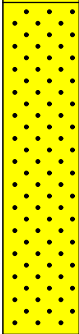
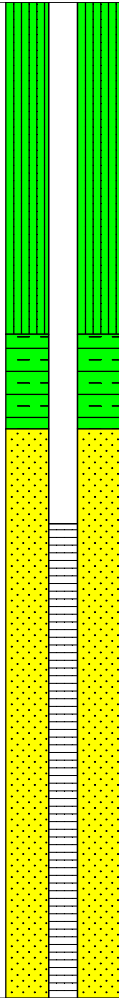
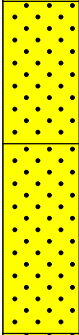
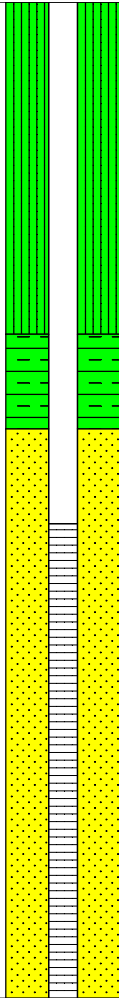
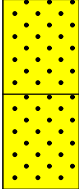
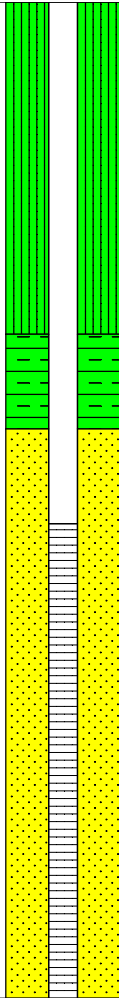
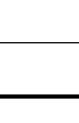
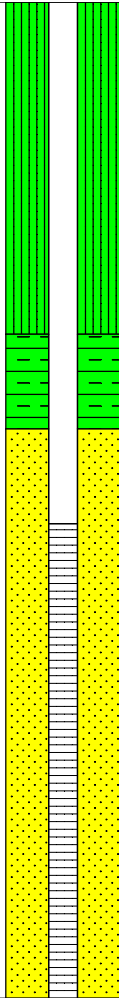


Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-43D	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License <b>Boart Longyear</b>	Northing Easting	<b>424636.8</b> <b>871537.0</b>	Ground Surface Elevation <b>7.10</b>
	Drilling Equipment <b>Boart Big Rig</b>	Well Screen Interval <b>89 - 99 ft</b>	Top of Well Casing Elevation <b>9.96</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>99 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>D. Salisbury</b>	Date Drilling Started <b>3/27/12</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>107 ft.</b>	Boring Dia. <b>4 in. / 6 in.</b>
Driller Name <b>J. Sousa</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>3/28/12</b>	Sampling Method <b>4" Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-44S	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424874.740 871756.290	Ground Surface Elevation 9.36
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 11-21 ft		Top of Well Casing Elevation 11.93
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 21 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 21 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
0			(0.0- 3.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded; dry  0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'
			(3.0- 10.0) SAND: fine-very fine, Moderate Brown (3/4), rounded, loose; saturated	5-10	0.0		Bentonite/Cement: 0-7'
-5							Bentonite: 7-9'
			(10.0- 13.0) SAND: fine, Brown (5/2), rounded, loose; saturated	10-15	0.0		#2 Silica Sand: 9-21'
0							Well Casing: 0-11'
-10			(13.0- 17.0) SAND: fine, Pale Brown (2/2), rounded, loose; saturated	15-20	0.0		Well Screen: 11-21'
-15							Well Diameter: 2"
			(17.0- 19.0) SAND: fine, Gray (N4), rounded, loose; saturated	20-21	0.0		Boring terminated at 21 feet below ground surface.
-10			(19.0- 21.0) SAND: fine-coarse, Medium Gray (N5), poorly sorted, sub-rounded, loose; 40-50% shells; saturated				
-20							





Project Name			Well Number	
Ashland Brunswick Georgia			MW-44I	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	425872.090 871633.340	Ground Surface Elevation 9.65
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 12.35
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

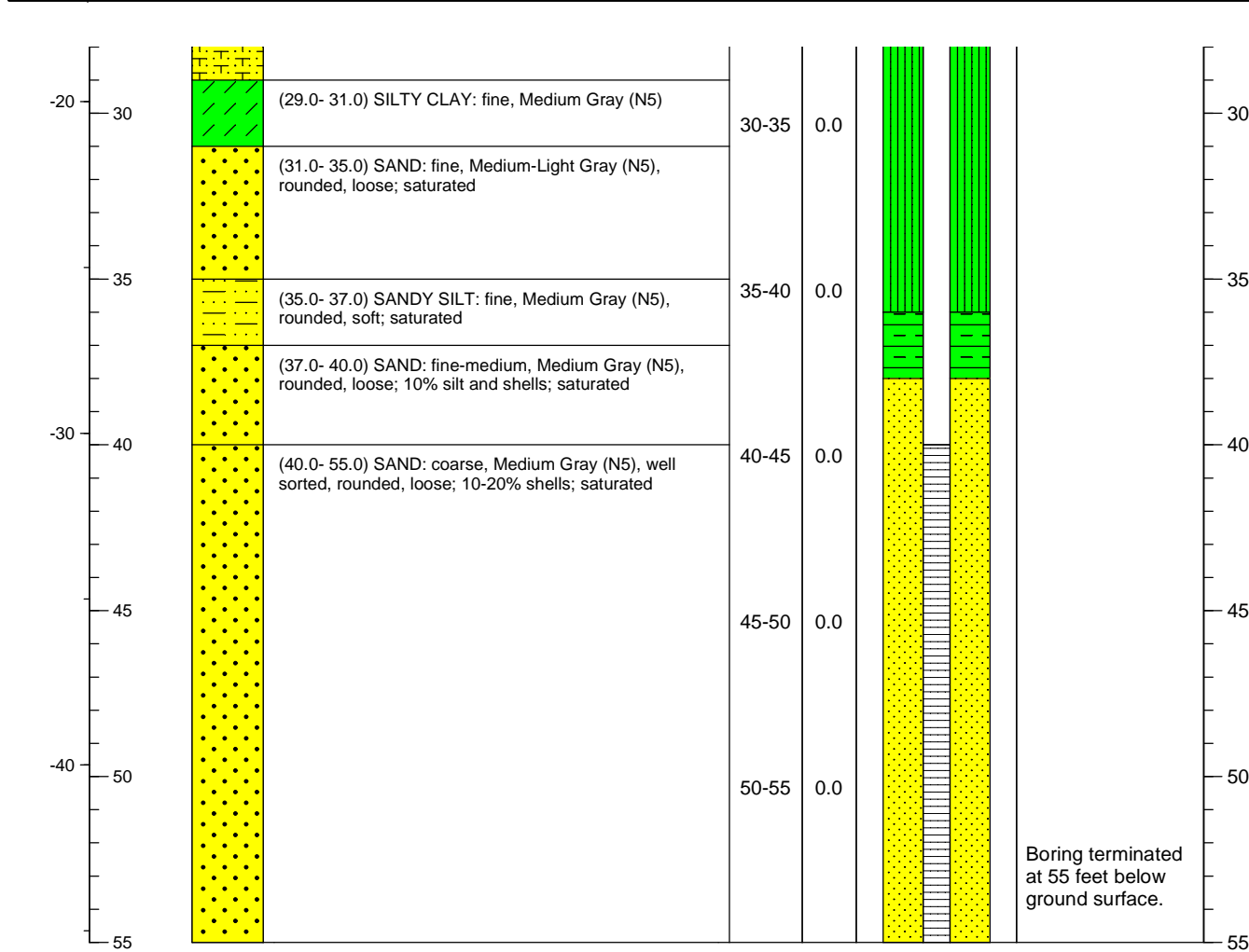
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 3.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded; dry 0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-36'	0
			(3.0- 10.0) SAND: fine-very fine, Moderate Brown (3/4), rounded, loose; saturated	5-10	0.0		Bentonite: 36-38'	5
			(10.0- 13.0) SAND: fine, Brown (5/2), rounded, loose; saturated	10-15	0.0		#2 Silica Sand: 38-55'	10
			(13.0- 17.0) SAND: fine, Pale Brown (2/2), rounded, loose; saturated	15-20	0.0		Well Casing: 0-40'	15
			(17.0- 19.0) SAND: fine, Gray (N4), rounded, loose; saturated				Well Screen: 40-55'	
			(19.0- 21.0) SAND: fine-coarse, Medium Gray (N5), poorly sorted, sub-rounded, loose; 40-50% shells; saturated	20-25	0.0		Well Diameter: 2"	20
			(21.0- 25.0) SILTY SAND: fine-medium, Medium Gray (N5), rounded, loose; 5-15% shells; saturated					
			(25.0- 26.0) CLAYEY SILT: Medium Gray (N5), well sorted, rounded, soft; saturated	25-30	0.0			25
			(26.0- 29.0) SILTY SAND: fine-medium, Medium Gray (N5), rounded, loose; 10% clay; saturated					



Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-44I			
Address 2801 Cook Street Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting		425872.090 871633.340		Ground Surface Elevation 9.65	
		Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft				Top of Well Casing Elevation 12.35	
GA EPD Number GAD004065520		Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch				Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate		Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 55 ft		Boring Dia. 6 in.	
Driller Name B. Niles Project Number WBS30012B1		Date Drilling Completed 3/31/10	Sampling Method Continuous Cores				Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details

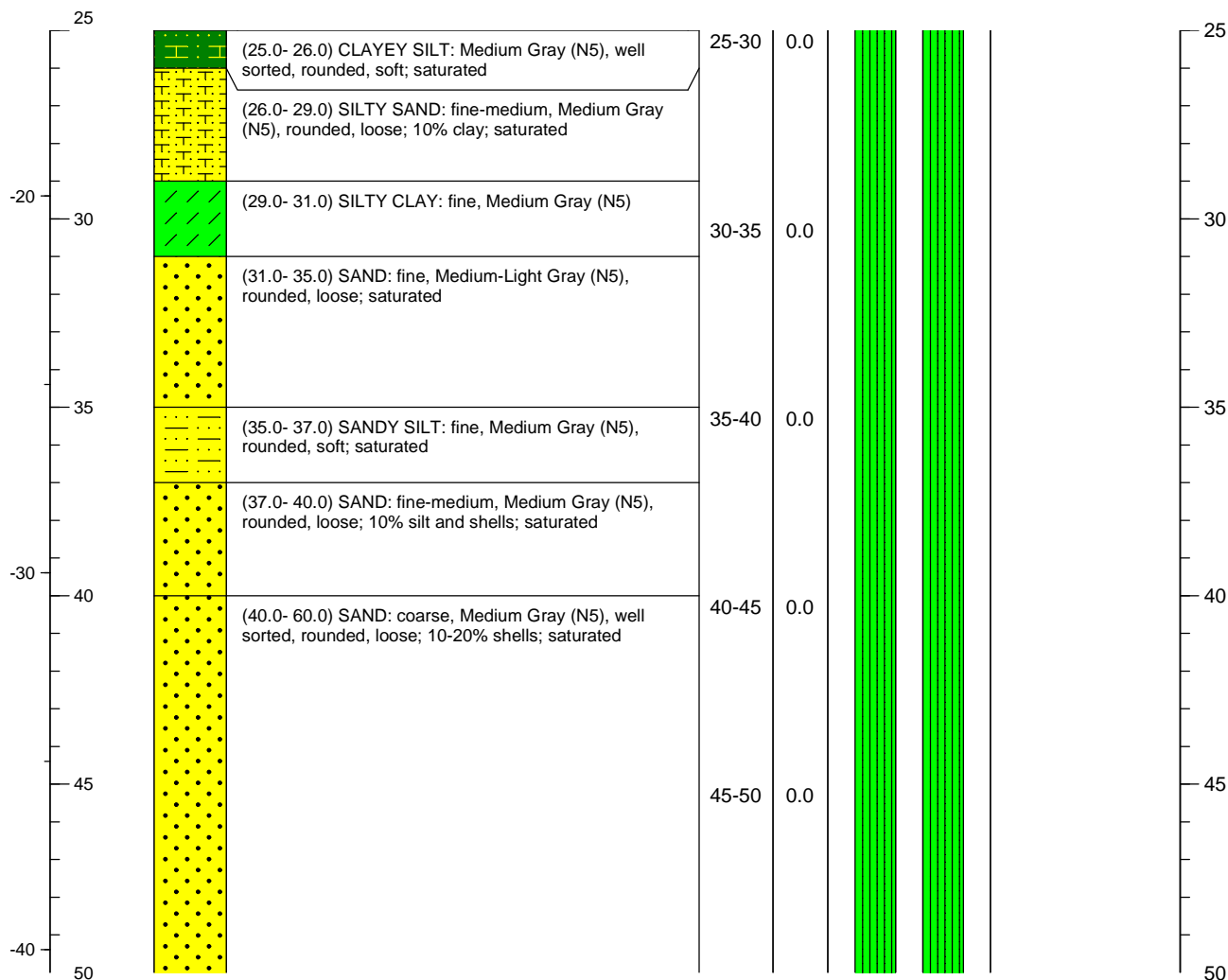


Project Name			Well Number	
Ashland Brunswick Georgia			MW-44ID	
Monitoring Well Construction Log				
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424880.130 87153.280	Ground Surface Elevation 9.39
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 90-100 ft		Top of Well Casing Elevation 12.22
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 100 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/30/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
0			(0.0- 3.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded; dry 0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'
			(3.0- 10.0) SAND: fine-very fine, Moderate Brown (3/4), rounded, loose; saturated	5-10	0.0		Bentonite/Cement: 0-86'
			(10.0- 13.0) SAND: fine, Brown (5/2), rounded, loose; saturated	10-15	0.0		Bentonite: 86-88'
			(13.0- 17.0) SAND: fine, Pale Brown (2/2), rounded, loose; saturated	15-20	0.0		#2 Silica Sand: 88-100'
			(17.0- 19.0) SAND: fine, Gray (N4), rounded, loose; saturated	20-25	0.0		Well Casing: 0-90'
			(19.0- 21.0) SAND: fine-coarse, Medium Gray (N5), poorly sorted, sub-rounded, loose; 40-50% shells; saturated	25-30	0.0		Well Screen: 90-100'
			(21.0- 25.0) SILTY SAND: fine-medium, Medium Gray (N5), rounded, loose; 5-15% shells; saturated				Well Diameter: 2"

Project Name			Well Number	
Ashland Brunswick Georgia			MW-44ID	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424880.130 87153.280	Ground Surface Elevation 9.39
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 90-100 ft		Top of Well Casing Elevation 12.22
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 100 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/30/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details

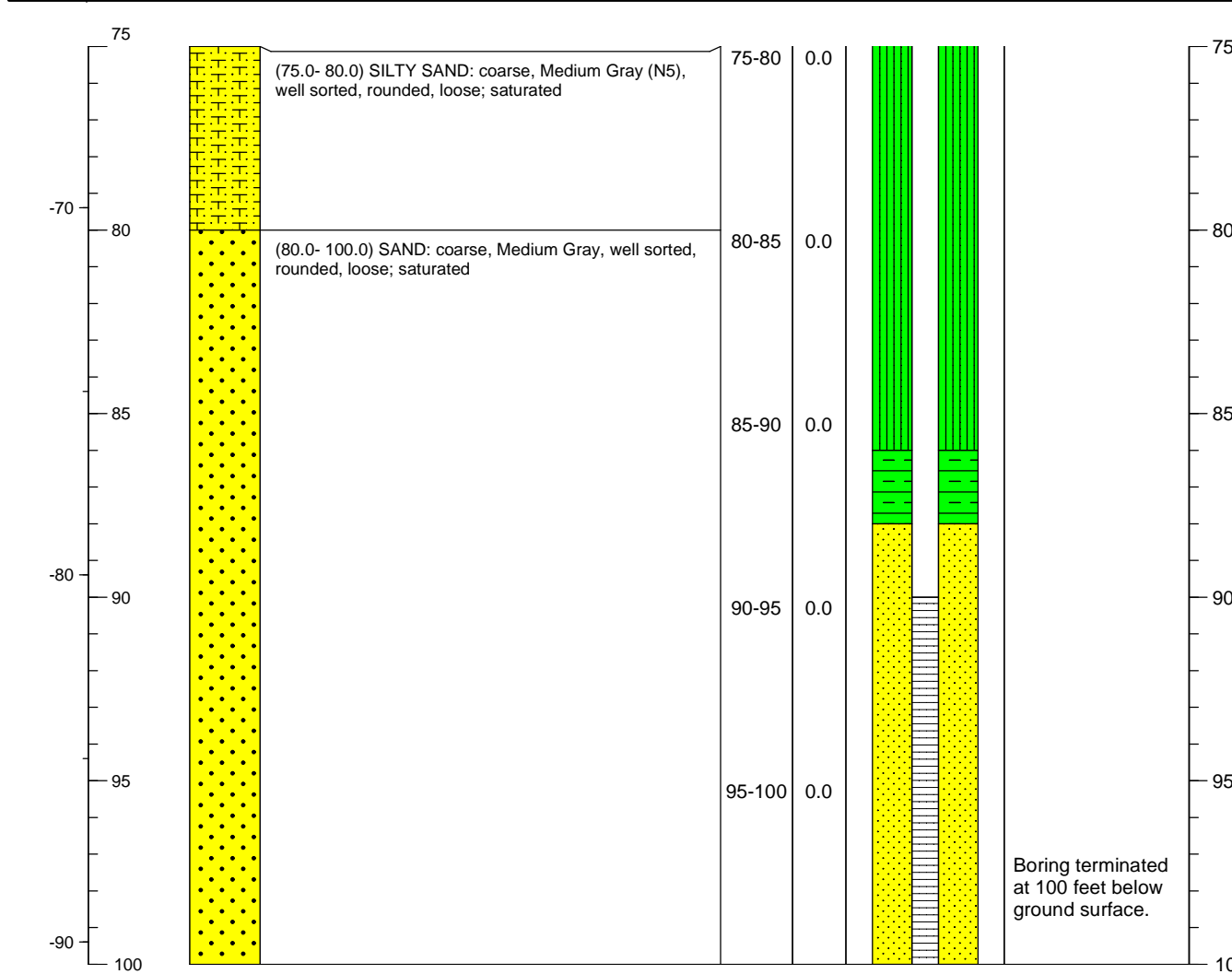


Project Name			Well Number	
Ashland Brunswick Georgia			MW-44ID	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424880.130 87153.280	Ground Surface Elevation 9.39
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 90-100 ft		Top of Well Casing Elevation 12.22
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 100 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/30/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth
50				50-55	0.0		50
				55-60	0.0		55
-50				60-65	0.0		60
		(60.0- 63.0) SAND: medium, Medium-Dark Gray (N4), well sorted, rounded, loose; saturated					
		(63.0- 65.0) SILTY SAND: very fine, Medium Gray (N5), rounded, very dense; 5-10% coarse sand; dry					
		(65.0- 68.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; 20% silt; saturated					
		(68.0- 70.0) SANDY SILT: medium-coarse, Medium Gray (N5), poorly sorted, sub-rounded, hard; wet					
-60		(70.0- 73.0) SAND: coarse, Medium Gray (N5), well sorted, rounded, loose; saturated					
		(73.0- 75.0) SILTY SAND: very fine-medium, Medium Gray (N5), sub-rounded, very dense; 20% coarse sand; dry					
				70-75	0.0		70
75							75

Project Name			Well Number	
Ashland Brunswick Georgia			MW-44ID	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424880.130 87153.280	Ground Surface Elevation 9.39
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 90-100 ft		Top of Well Casing Elevation 12.22
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 100 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/30/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-44D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424883.450 871751.700	Ground Surface Elevation 9.23
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 120-130 ft		Top of Well Casing Elevation 12.07
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 130 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

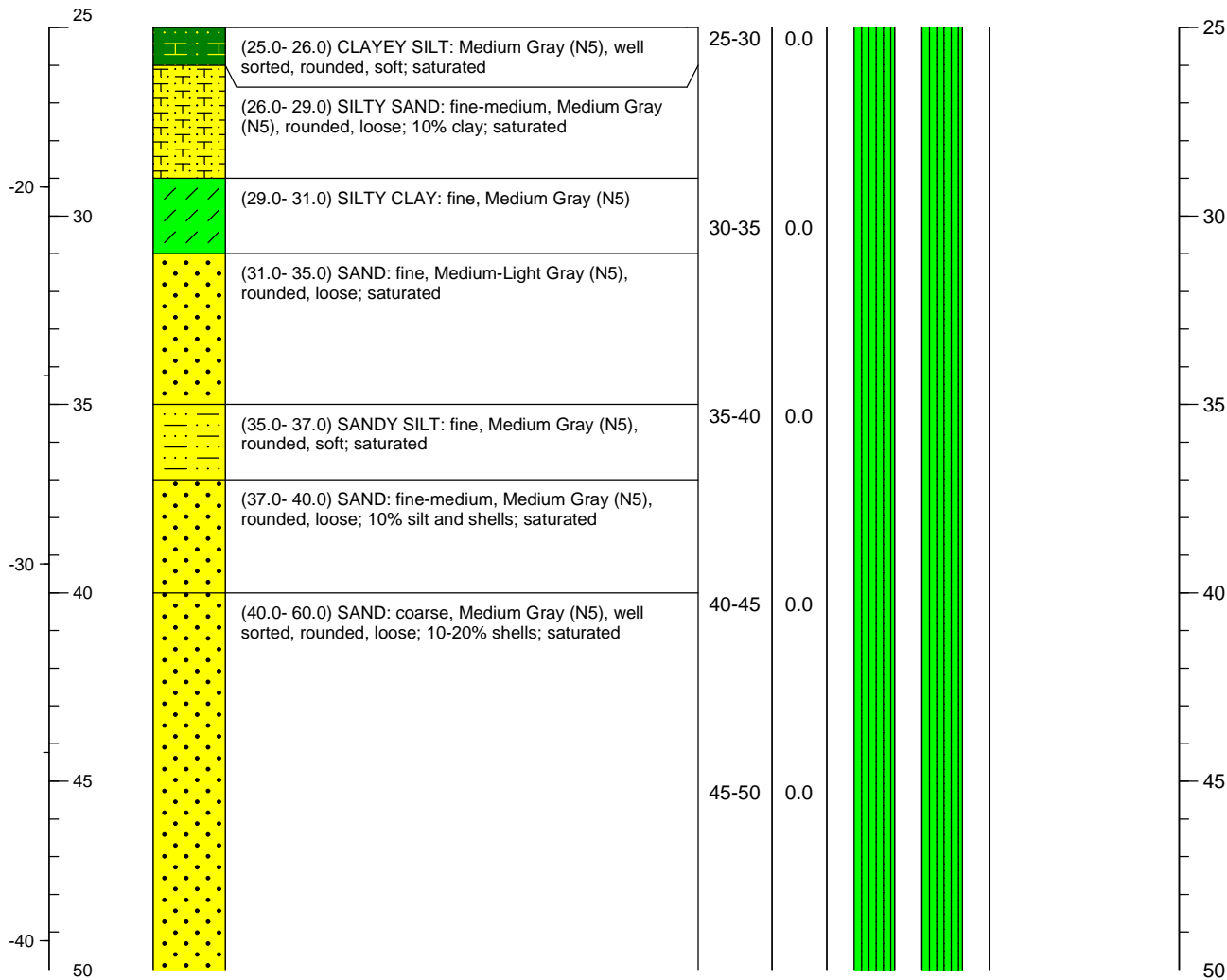
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 3.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded; dry 0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-116'	0
			(3.0- 10.0) SAND: fine-very fine, Moderate Brown (3/4), rounded, loose; saturated	5-10	0.0		Bentonite: 116-118'	5
			(10.0- 13.0) SAND: fine, Brown (5/2), rounded, loose; saturated	10-15	0.0		#2 Silica Sand: 118-130'	10
			(13.0- 17.0) SAND: fine, Pale Brown (2/2), rounded, loose; saturated	15-20	0.0		Well Casing: 0-120'	15
			(17.0- 19.0) SAND: fine, Gray (N4), rounded, loose; saturated	20-25	0.0		Well Screen: 120-130'	20
			(19.0- 21.0) SAND: fine-coarse, Medium Gray (N5), poorly sorted, sub-rounded, loose; 40-50% shells; saturated	25-30	0.0		Well Diameter: 2"	25
			(21.0- 25.0) SILTY SAND: fine-medium, Medium Gray (N5), rounded, loose; 5-15% shells; saturated				Bentonite: 130-135'	
							20/30 Sand Backfill	





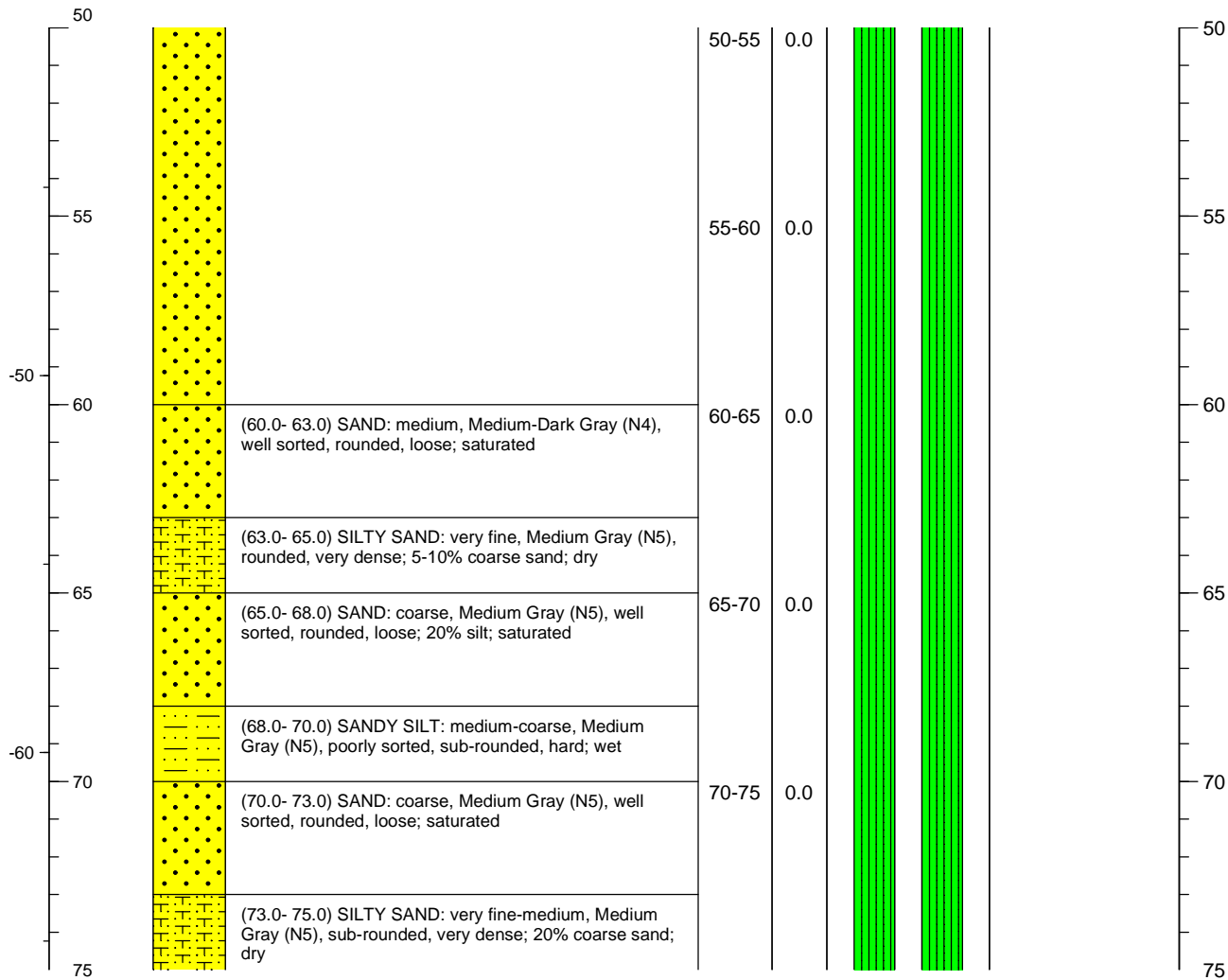
Project Name			Well Number	
Ashland Brunswick Georgia			MW-44D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424883.450 871751.700	Ground Surface Elevation 9.23
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 120-130 ft		Top of Well Casing Elevation 12.07
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 130 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



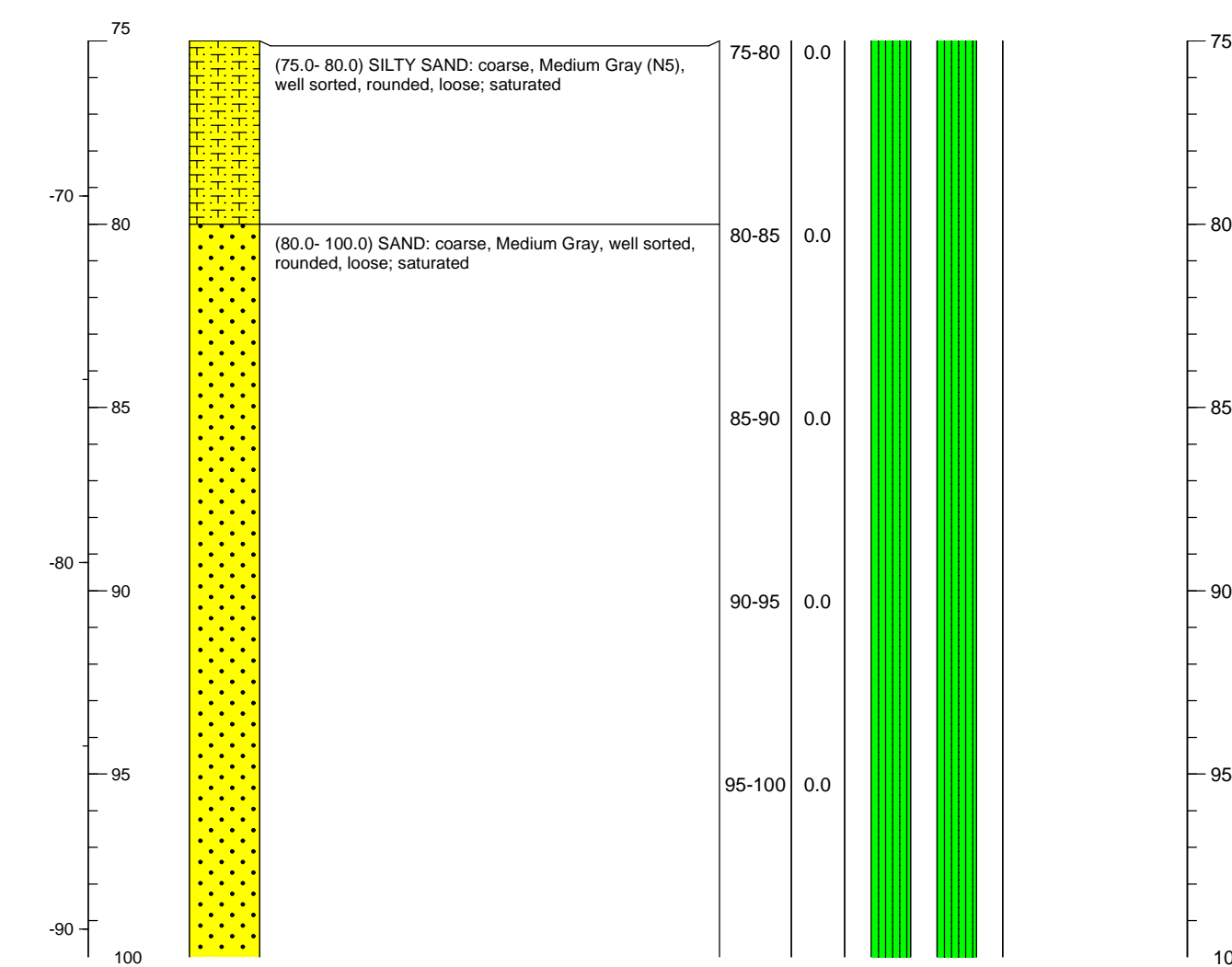
Project Name		Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia				MW-44D	
Address 2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424883.450 871751.700	Ground Surface Elevation 9.23	
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 120-130 ft		Top of Well Casing Elevation 12.07	
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 130 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores		Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA				
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth

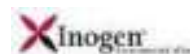
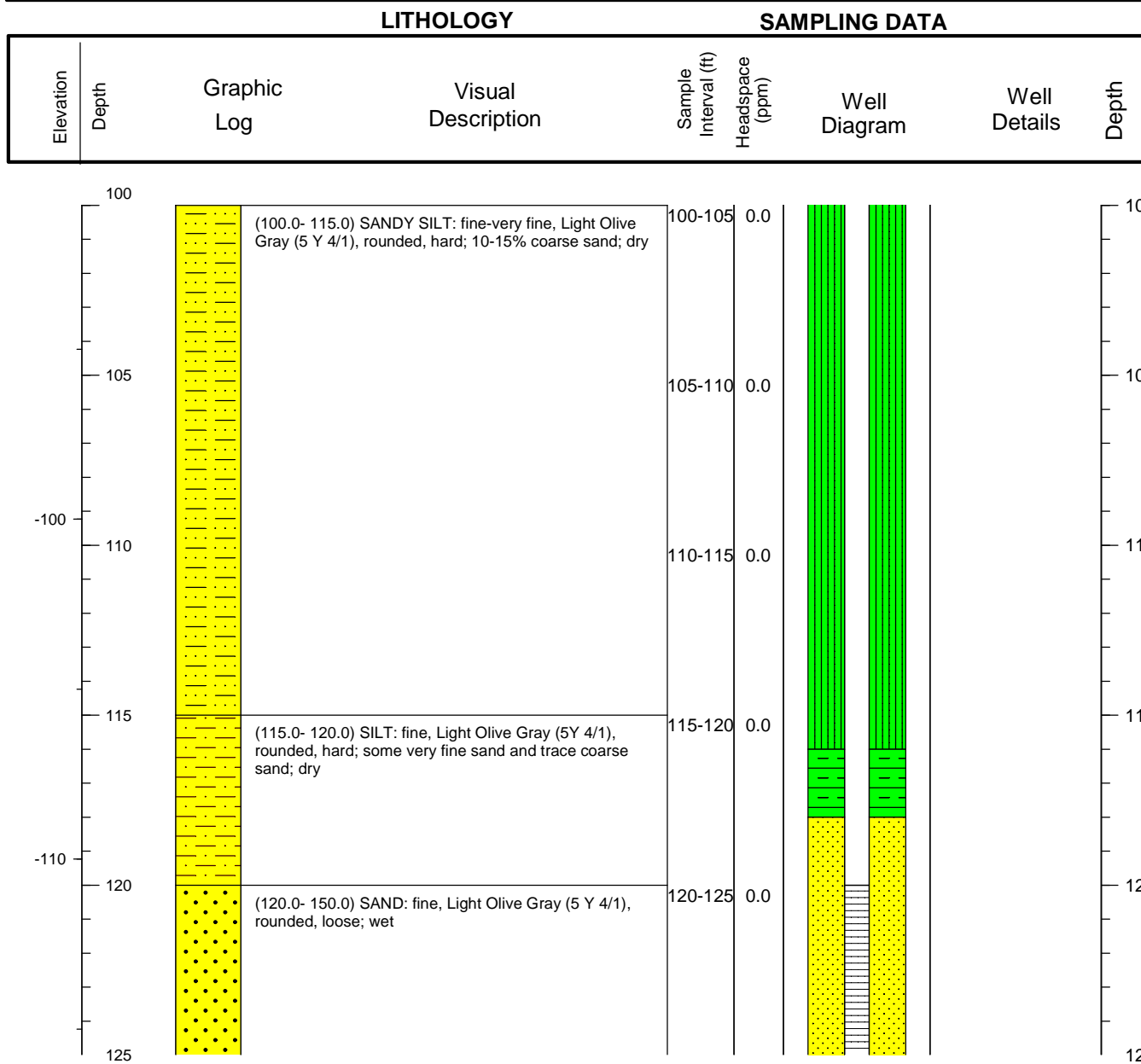


Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-44D	
Address 2801 Cook Street Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting	424883.450 871751.700	Ground Surface Elevation 9.23	
		Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 120-130 ft		Top of Well Casing Elevation 12.07	
GA EPD Number GAD004065520		Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 130 ft	
Logged By R. McLain Approved By R. Cate		Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1		Date Drilling Completed 3/31/10	Sampling Method Continuous Cores		Headspace Monitoring Device PID	

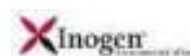
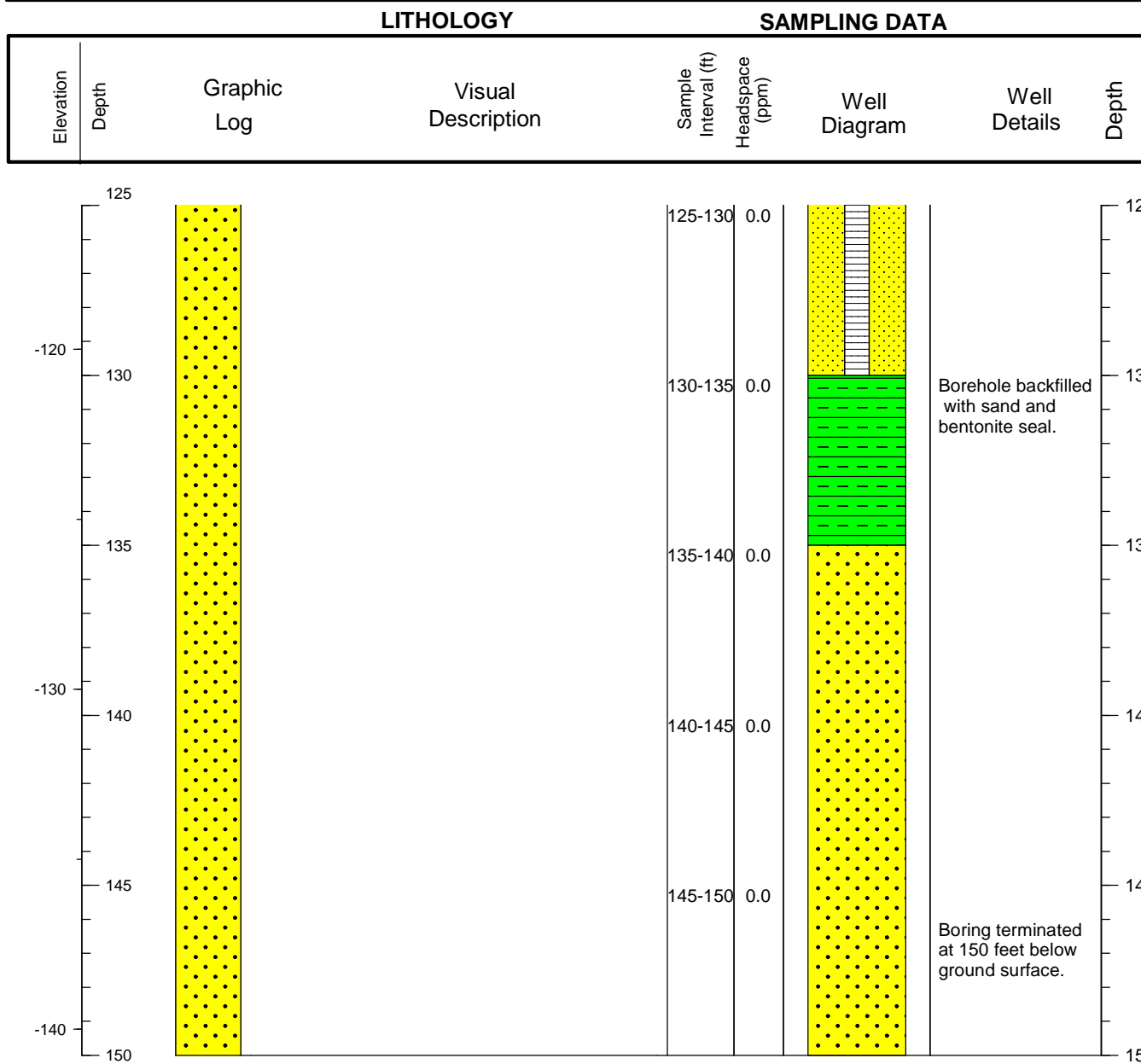
LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-44D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424883.450 871751.700	Ground Surface Elevation 9.23
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 120-130 ft		Top of Well Casing Elevation 12.07
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 130 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	




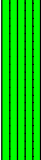
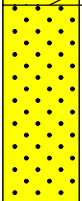
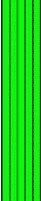














Project Name			Well Number	
Ashland Brunswick Georgia			MW-44D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424883.450 871751.700	Ground Surface Elevation  9.23
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 120-130 ft		Top of Well Casing Elevation 12.07
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 130 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 3/29/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 150 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 3/31/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	



Project Name			Well Number	
Ashland Brunswick Georgia			MW-45I	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	423891.953 870162.216	Ground Surface Elevation  11.08
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 13.84
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/7/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 60 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/7/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

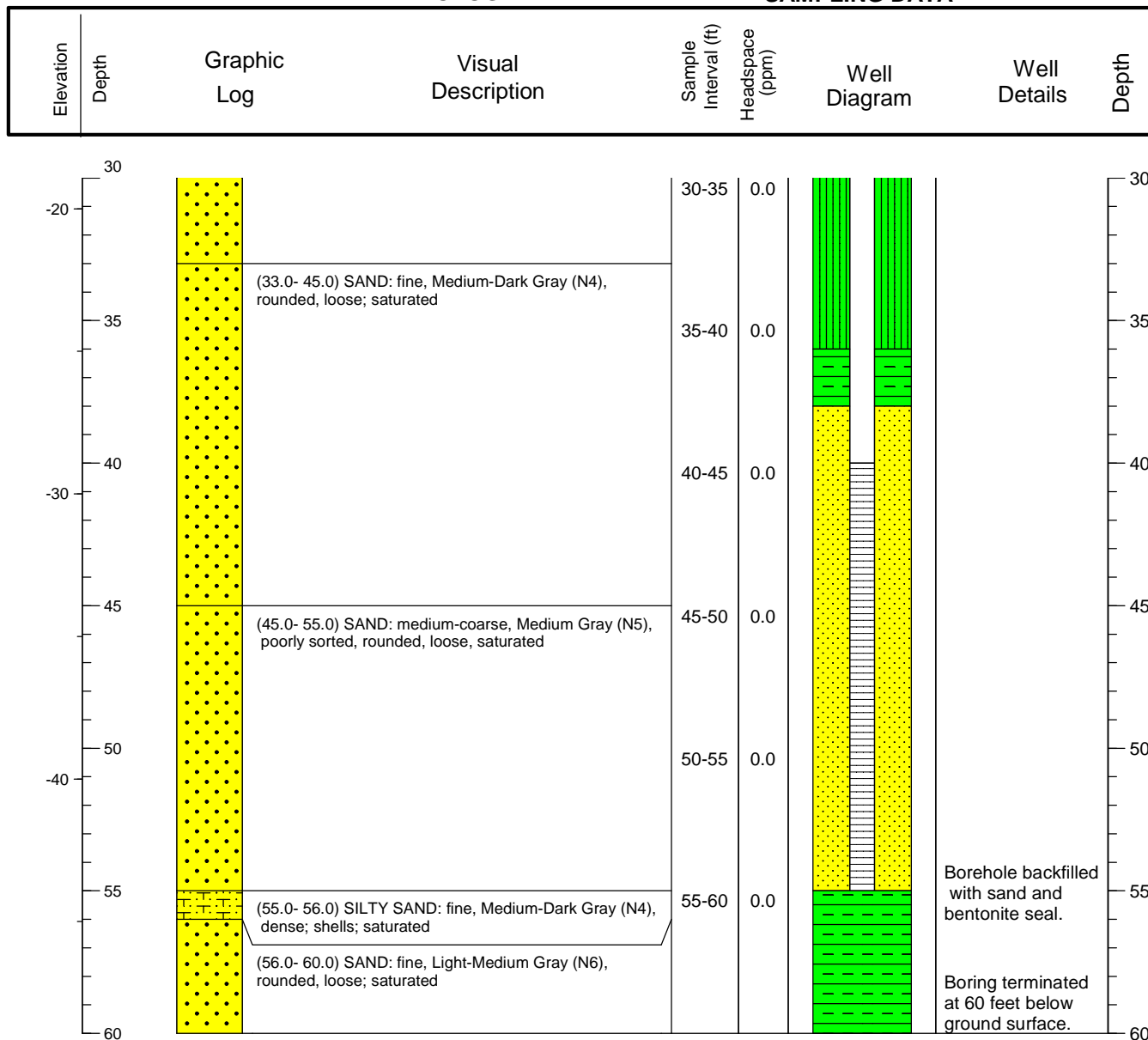
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0								0
10			(0.0- 5.0) FILL  0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	
5			(5.0- 11.0) SAND: fine, Grayish Brown, well rounded, loose; saturated	5-10	0.0		Bentonite/Cement: 0-36'	5
10			(11.0- 13.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	10-15	0.0		Bentonite: 36-38'	10
0			(13.0- 16.0) SAND: fine, Pale Brown (2/2), well rounded, loose; saturated				#2 Silica Sand: 38-55'	
15			(16.0- 20.0) SAND: fine, Moderate Brown (3/4), well rounded, loose; saturated	15-20	0.0		Well Casing: 0-40'	15
20			(20.0- 25.0) SAND: fine, Moderate Brown (3/4), well rounded, loose; saturated				Well Screen: 40-55'	
-10			(25.0- 30.0) SAND: fine-medium, Medium-Dark Gray (N4), rounded, loose; saturated	25-30	0.0		Well Diameter: 2"	20
25							Bentonite: 55-60'	25
30							20/30 Sand Backfill	30



Project Name			Well Number	
Ashland Brunswick Georgia			MW-45I	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	423891.953 870162.216	Ground Surface Elevation  11.08
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 13.84
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/7/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 60 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/7/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA


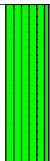
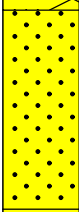



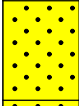

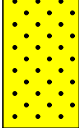

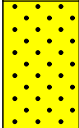

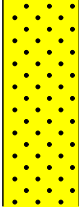







Project Name			Well Number	
Ashland Brunswick Georgia			MW-46I	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	423608.107 871022.739	Ground Surface Elevation  8.34
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 10.94
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/6/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 60 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/6/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) FILL 0 - 5 Post-hole	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
	5		(5.0- 11.0) SAND: fine, Grayish Brown, well rounded, loose; saturated	5-10	7.4		Bentonite/Cement: 0-36'	5
	10		(11.0- 13.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	10-15	3.0		Bentonite: 36-38'	10
	15		(13.0- 16.0) SAND: fine, Pale Brown (2/2), well rounded, loose; saturated	15-20	70.0		#2 Silica Sand: 38-55'	15
	20		(16.0- 20.0) SAND: fine, Moderate Brown (3/4), well rounded, loose; saturated	20-25	14.4		Well Casing: 0-40'	20
	25		(20.0- 33.0) SAND: fine-medium, Medium-Dark Gray (N4), rounded, loose; saturated	25-30	2.5		Well Screen: 40-55'	25
	30						Well Diameter: 2"	30
							Bentonite: 55-60'	
							20/30 Sand Backfill	



Project Name			Well Number	
Ashland Brunswick Georgia			MW-46I	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	423608.107 871022.739	Ground Surface Elevation  8.34
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 10.94
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/6/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 60 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/6/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
30				30-35	0.0			30
			(33.0- 45.0) SAND: coarse, Medium-Dark Gray (N4), well sorted, rounded, loose; saturated	35-40	0.0			35
-30				40-45	0.0			40
			(45.0- 55.0) SAND: medium-coarse, Medium Gray (N5), poorly sorted, rounded, loose; saturated	45-50	0.0			45
-40				50-55	0.0			50
			(55.0- 56.0) SILTY SAND: fine, Medium-Dark Gray (N4), dense; shells; saturated	55-60	0.0		Borehole backfilled with sand and bentonite seal.	55
-50			(56.0- 60.0) SAND: fine, Light-Medium Gray (N6), rounded, loose; saturated				Boring terminated at 60 feet below ground surface.	60
60								60



Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-48S	
Address 2801 Cook Street  Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting		424383.285 870157.589	
		Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 10-25 ft		Ground Surface Elevation 8.96	
GA EPD Number GAD004065520		Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 25 ft	
Logged By R. McLain Approved By R. Cate		Date Drilling Started 4/8/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 25 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1		Date Drilling Completed 4/9/10	Sampling Method Continuous Cores		Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0				0-5	55.3		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			0 - 5 Post-hole				Bentonite/Cement: 0-6'	
	5			5-10	22.5		Bentonite: 6-8'	5
			(5.0- 11.0) SAND: fine, Light Brown (5/6), well rounded, loose; saturated				#2 Silica Sand: 8-25'	
0				10-15	19.1		Well Casing: 0-10'	10
	10						Well Screen: 10-25'	
			(11.0- 21.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated				Well Diameter: 2"	
	15			15-20	74.1			15
				20-25	99.0			
-10								
	20							20
			(21.0- 25.0) SILTY SAND: fine, Light Brown (5/6), rounded, loose; saturated				Boring terminated at 25 feet below ground surface.	
25								25



Project Name			Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia					MW-48I	
Address	Drilling Contractor/License		Northing	424390.920	Ground Surface Elevation	
2801 Cook Street	Groundwater Protection		Easting	870164.910	9.14	
Brunswick	Georgia	Drilling Equipment	Well Screen Interval		Top of Well Casing Elevation	
		Rousie SR1 w/Detric Head	40-55 ft		11.12	
GA EPD Number		Drilling Method	Well Screen Slot Size		Total Well Depth	
GAD004065520		Sonic Drilling	0.01 inch		55 ft	
Logged By R. McLain		Date Drilling Started	Well Casing Diameter and Type		Boring Depth	Boring Dia.
Approved By R. Cate		4/12/10	2 in. SCH 40 PVC		55 ft	6 in.
Driller Name B. Niles		Date Drilling Completed	Sampling Method		Headspace Monitoring Device	
Project Number WBS30012B1		4/12/10	Continuous Cores		PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) FILL  0 - 5 Post-hole	0-5	55.3		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-36'	0
-5			(5.0- 11.0) SAND: fine, Light Brown (5/6), well rounded, loose; saturated	5-10	22.5		Bentonite: 36-38'	5
0				10-15	19.1		#2 Silica Sand: 38-55'	
-10			(11.0- 21.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	15-20	74.1		Well Casing: 0-40'	10
-15				20-25	99.0		Well Screen: 40-55'	15
-20			(21.0- 26.0) SILTY SAND: fine, Light Brown (5/6), rounded, loose; saturated	25-30	30.0		Well Diameter: 2"	20
-25			(26.0- 40.0) SILTY SAND: fine, Dark Yellowish-Brown (10YR 4/2), rounded, loose; saturated					25

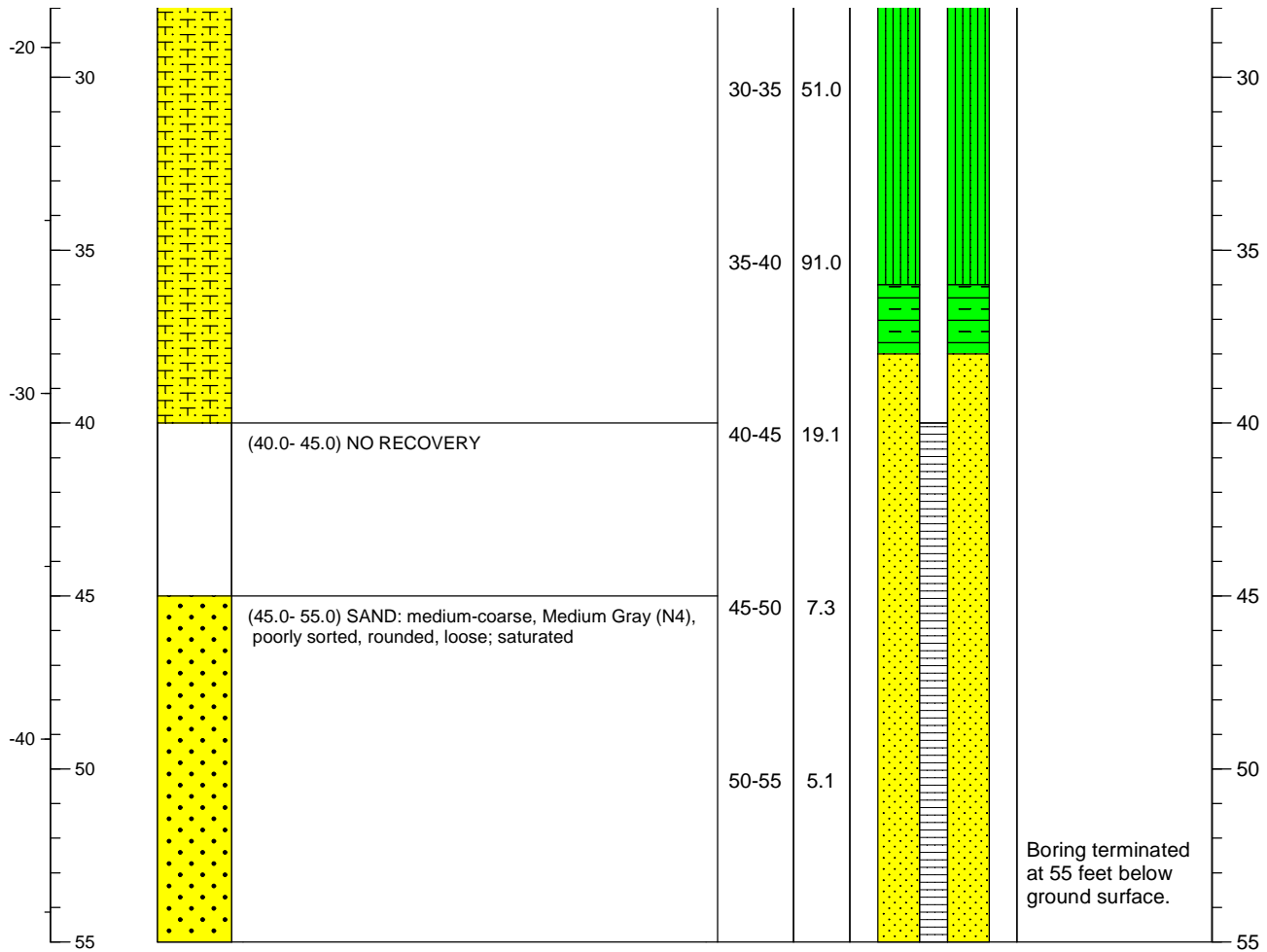


Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-48I	
Address 2801 Cook Street Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting	424390.920 870164.910	Ground Surface Elevation 9.14	
		Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 11.12	
GA EPD Number GAD004065520		Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 55 ft	
Logged By R. McLain Approved By R. Cate		Date Drilling Started 4/12/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1		Date Drilling Completed 4/12/10	Sampling Method Continuous Cores		Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA













Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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Project Name			Well Number	
Ashland Brunswick Georgia			MW-48D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424392.800 870154.611	Ground Surface Elevation 8.91
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 81-91 ft		Top of Well Casing Elevation 11.12
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 91 ft	
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/8/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/9/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

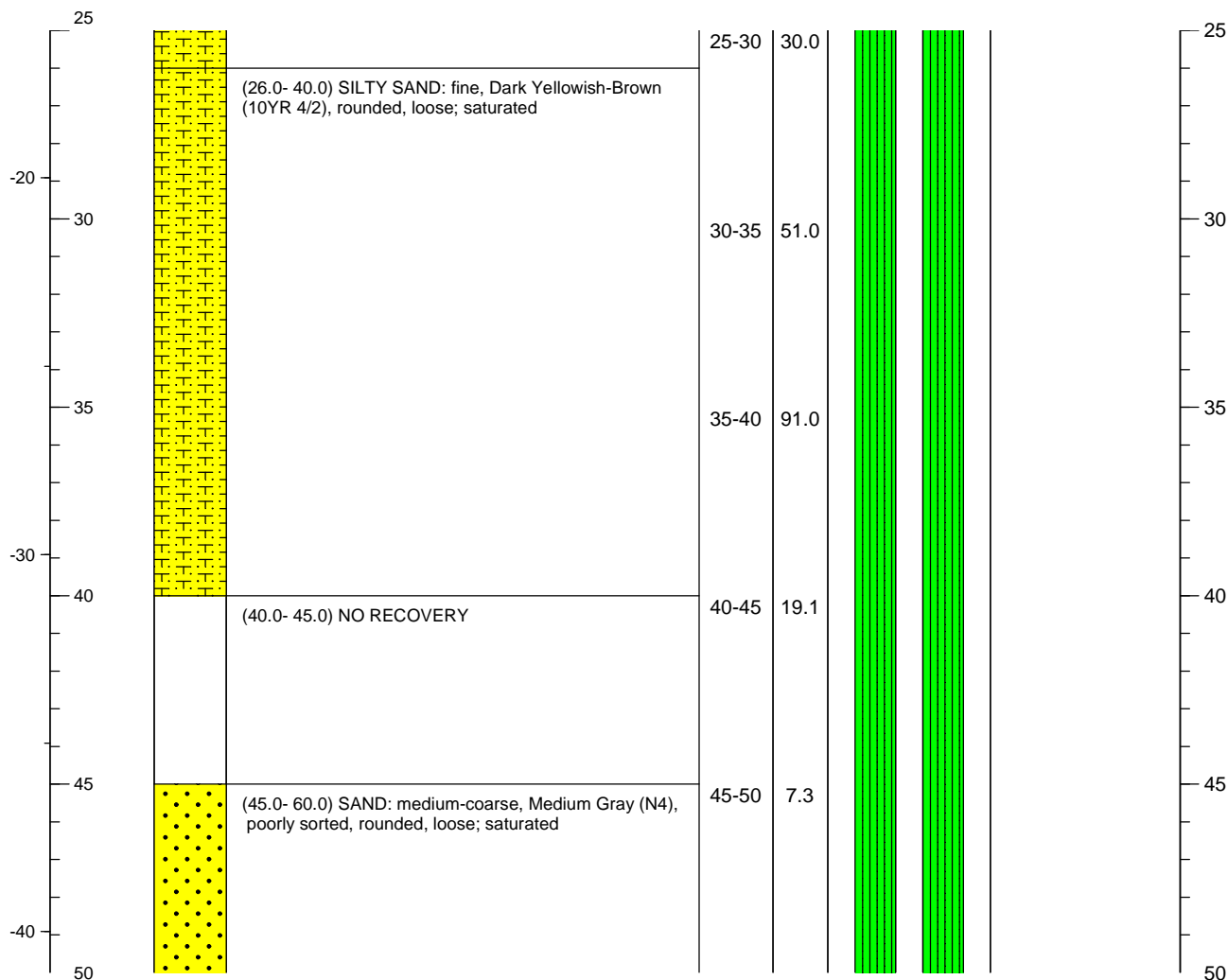
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) FILL  0 - 5 Post-hole	0-5	55.3		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-77'	0
5			(5.0- 11.0) SAND: fine, Light Brown (5/6), well rounded, loose; saturated	5-10	22.5		Bentonite: 77-79'	5
10			(11.0- 21.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	10-15	19.1		#2 Silica Sand: 79-91'	10
15			(11.0- 21.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	15-20	74.1		Well Casing: 0-81'	15
20			(11.0- 21.0) SAND: fine, Dusty Brown (2/2), well rounded, loose; saturated	20-25	99.0		Well Screen: 81-91'	20
25			(21.0- 26.0) SILTY SAND: fine, Light Brown (5/6), rounded, loose; saturated	25-30	30.0		Well Diameter: 2"	25
							Bentonite: 91-96'	
							20/30 Sand Backfill	



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-48D	
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting	<b>424392.800</b> <b>870154.611</b>	Ground Surface Elevation <b>8.91</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>81-91 ft</b>		Top of Well Casing Elevation <b>11.12</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>		Total Well Depth <b>91 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>4/8/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>		Boring Depth <b>100 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>4/9/10</b>	Sampling Method <b>Continuous Cores</b>		Headspace Monitoring Device <b>PID</b>	

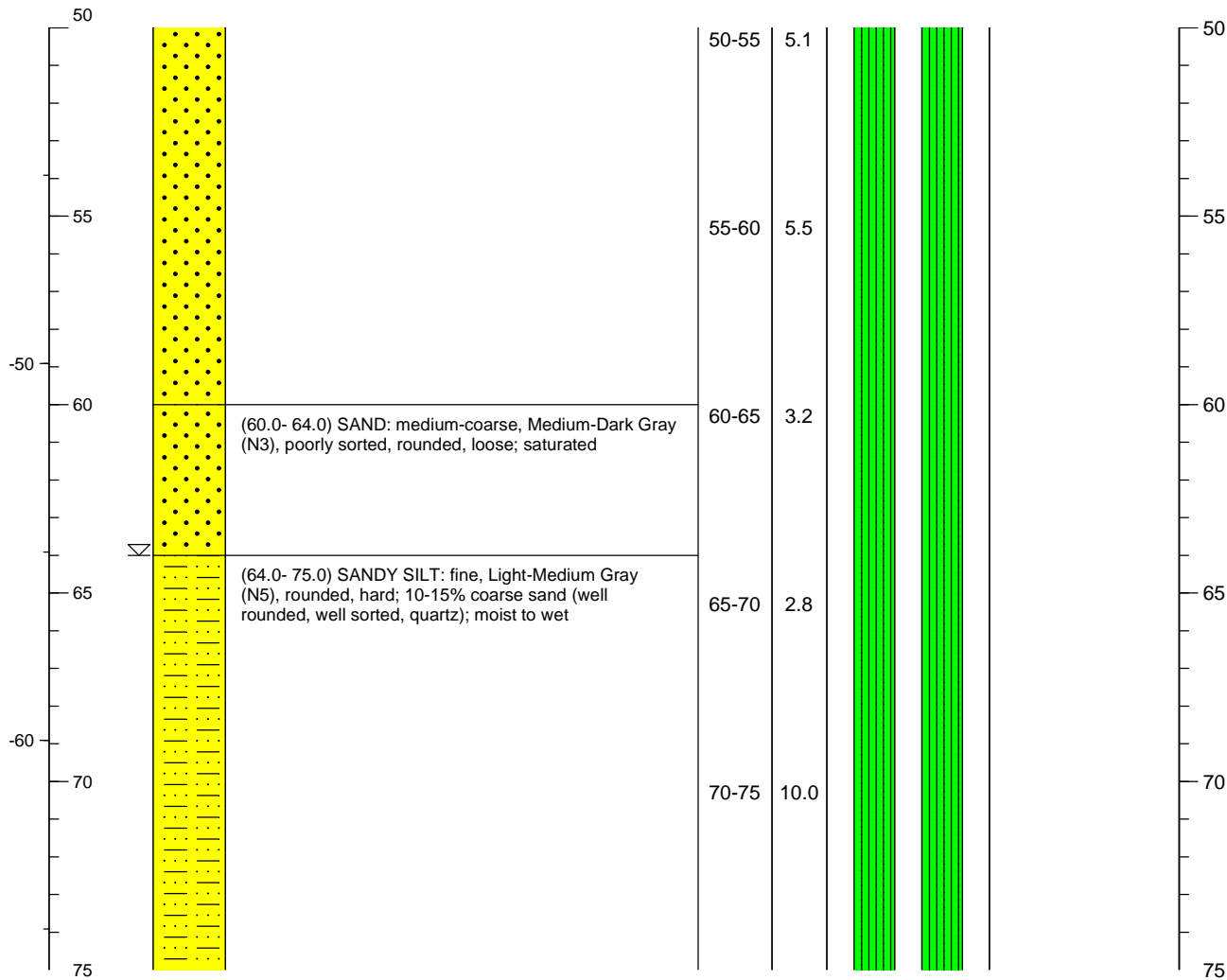
LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



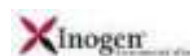
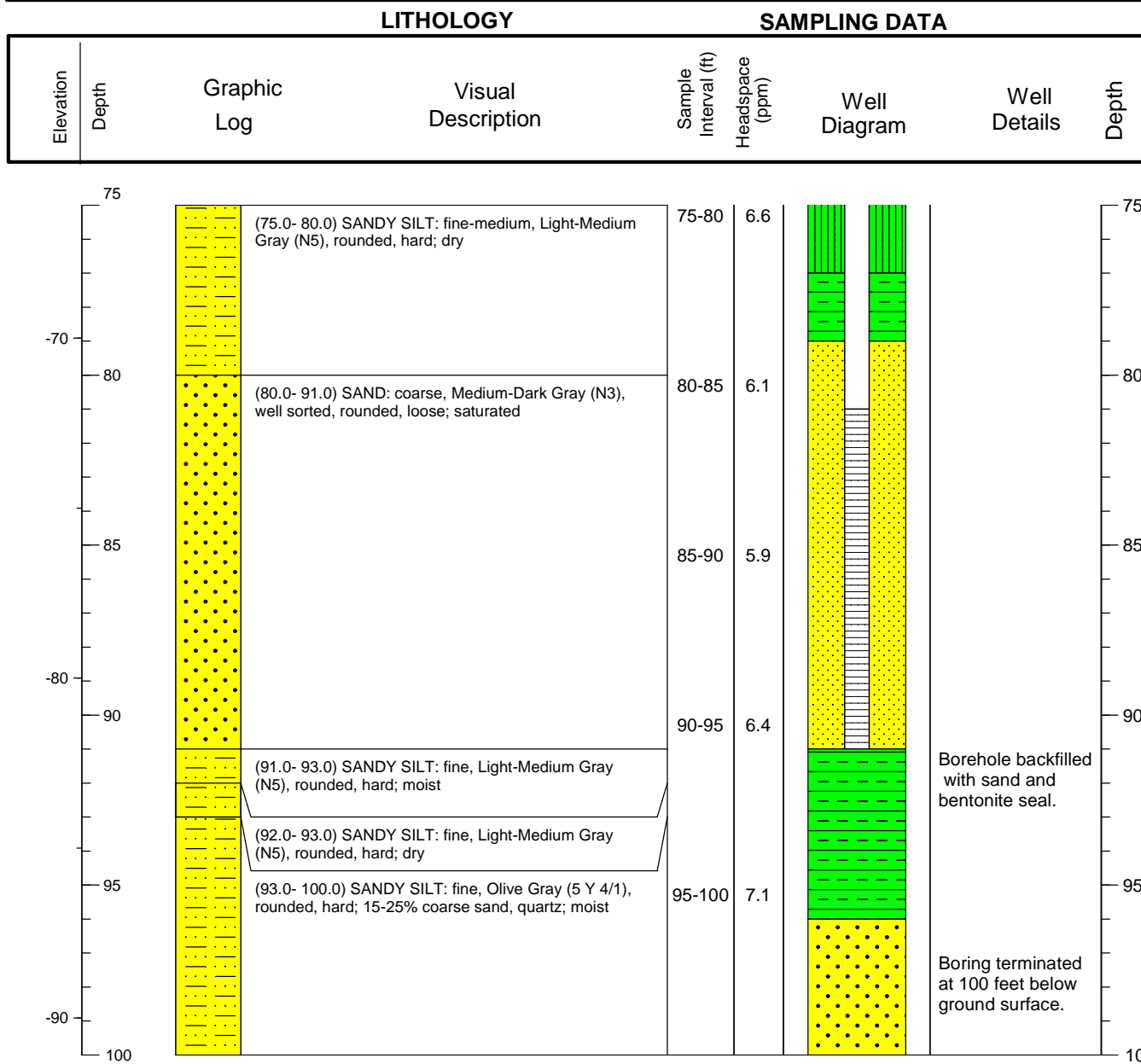


Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-48D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424392.800 870154.611	Ground Surface Elevation 8.91		
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 81-91 ft		Top of Well Casing Elevation 11.12		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 91 ft		
Logged By R. McLain Approved By R. Cate	Date Drilling Started 4/8/10	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 100 ft	Boring Dia. 6 in.	
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/9/10	Sampling Method Continuous Cores		Headspace Monitoring Device PID		

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth

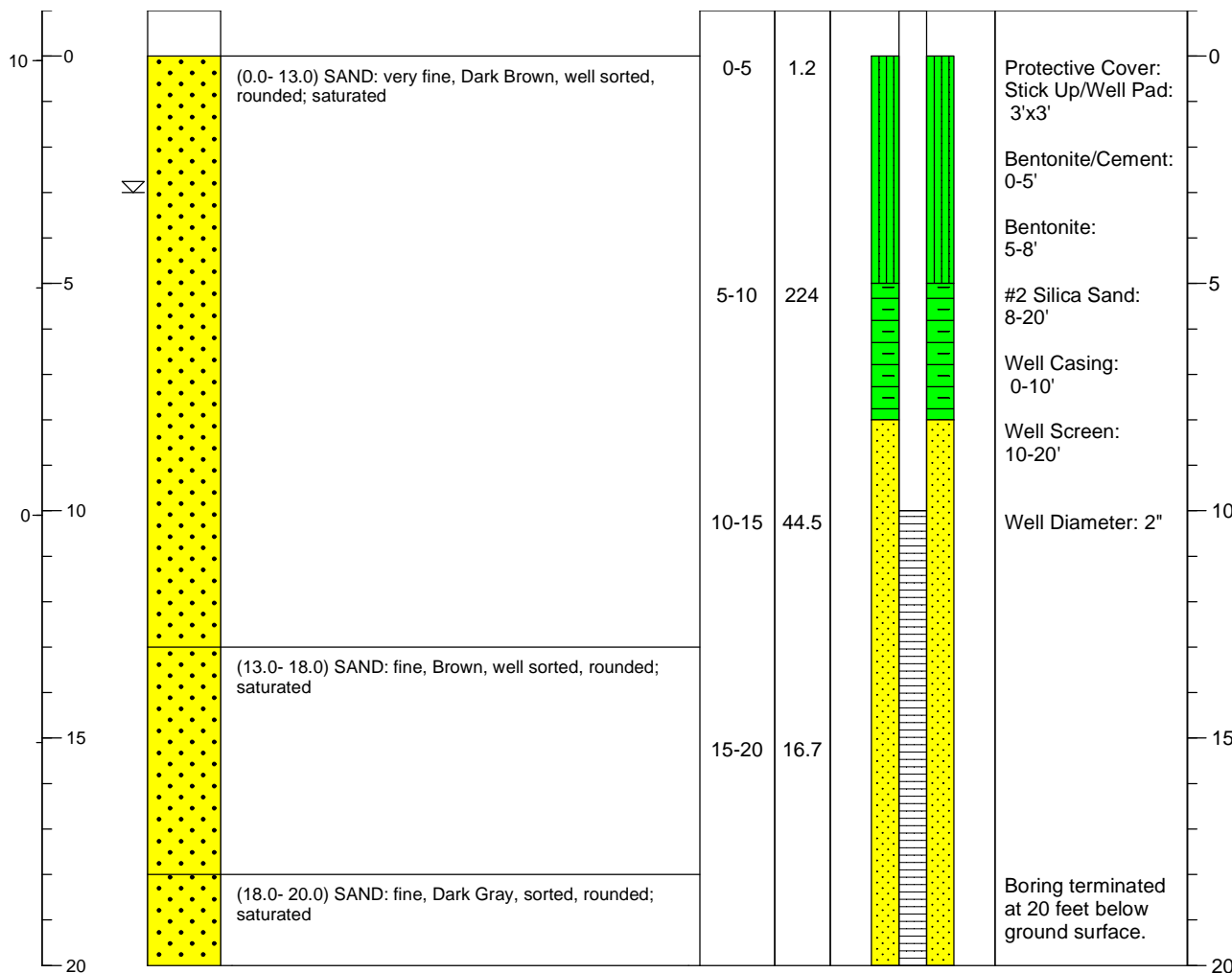


Project Name			Well Number	
Ashland Brunswick Georgia			MW-48D	
Monitoring Well Construction Log				
Address		Drilling Contractor/License	Northing	Ground Surface Elevation
2801 Cook Street		Groundwater Protection	424392.800	8.91
Brunswick Georgia		Drilling Equipment	Easting	
		Rousie SR1 w/Detric Head	870154.611	
GA EPD Number		Well Screen Interval	Top of Well Casing Elevation	
GAD004065520		81-91 ft	11.12	
Drilling Method		Well Screen Slot Size	Total Well Depth	
Sonic Drilling		0.01 inch	91 ft	
Logged By R. McLain		Well Casing Diameter and Type	Boring Depth	Boring Dia.
Approved By R. Cate		2 in. SCH 40 PVC	100 ft	6 in.
Date Drilling Started		Sampling Method	Headspace Monitoring Device	
4/8/10		Continuous Cores	PID	
Date Drilling Completed				
4/9/10				
Driller Name B. Niles				
Project Number WBS30012B1				



Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-49S	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424230.9 870730.9	Ground Surface Elevation 10.10		
	Drilling Equipment Boart Big Rig	Well Screen Interval 10 - 20 ft		Top of Well Casing Elevation 10.00		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 20 ft		
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/29/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 20 ft.	Boring Dia. 4 in. / 6 in.	
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/29/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID		

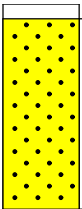
















LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number		
Former Hercules Brunswick Facility Georgia			MW-49I		
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424229.7 870726.5	Ground Surface Elevation 10.10	
	Drilling Equipment Mini Sonic	Well Screen Interval 57 - 67 ft		Top of Well Casing Elevation 9.85	
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 67 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/29/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 67 ft.	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/29/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID	

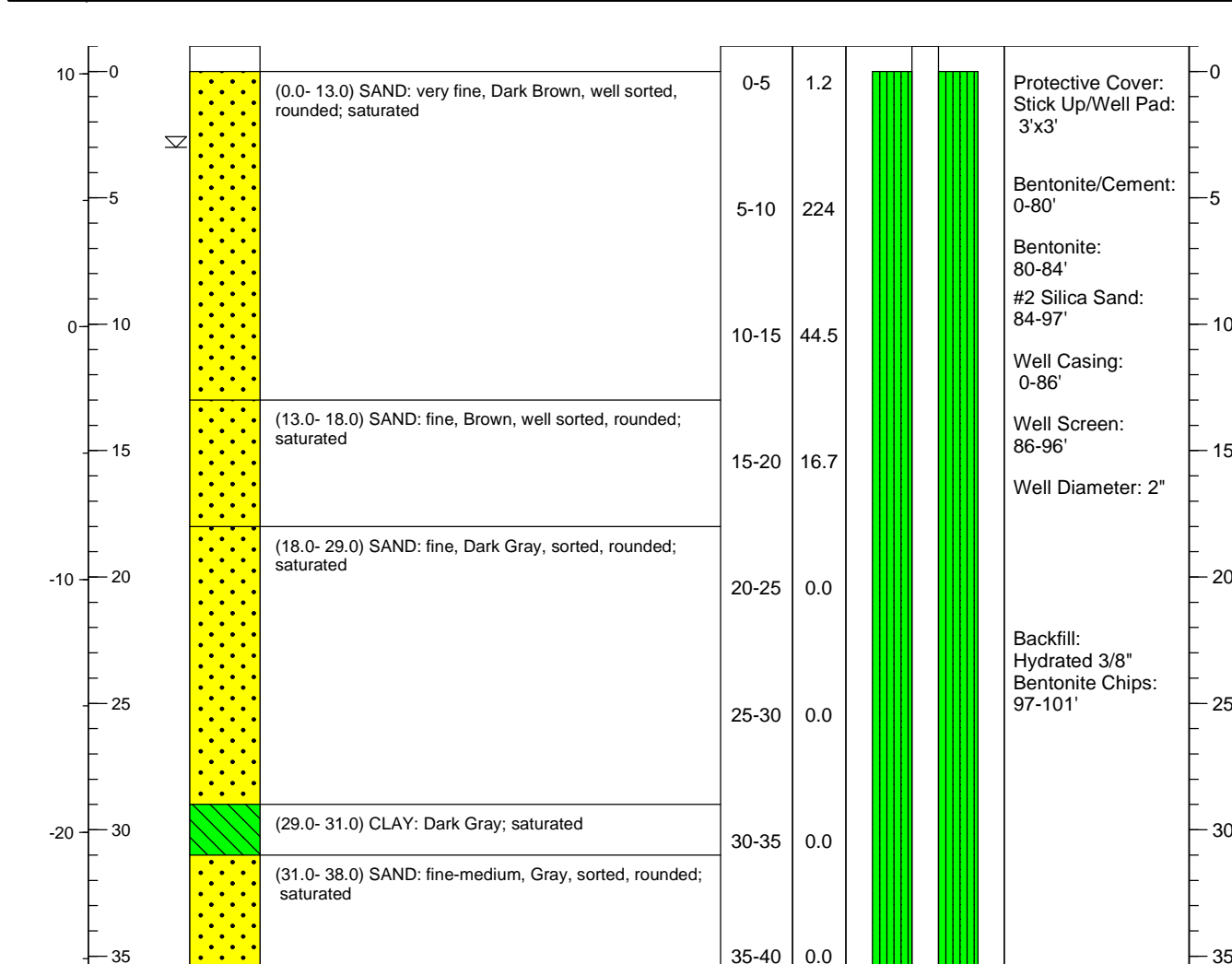
### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
10	0		(0.0- 13.0) SAND: very fine, Dark Brown, well sorted, rounded; saturated	0-5	1.2		Protective Cover: Stick Up/Well Pad: 3'x3'	0
5				5-10	224		Bentonite/Cement: 0-51'	5
0	10			10-15	44.5			10
15			(13.0- 18.0) SAND: fine, Brown, well sorted, rounded; saturated	15-20	16.7		Bentonite: 51-55'	15
10	20		(18.0- 29.0) SAND: fine, Dark Gray, sorted, rounded; saturated	20-25	0.0		#2 Silica Sand: 55-67'	20
25				25-30	0.0		Well Casing: 0-57'	25
20	30		(29.0- 31.0) CLAY: Dark Gray; saturated	30-35	0.0		Well Screen: 57-67'	30
35			(31.0- 38.0) SAND: fine-medium, Gray, sorted, rounded; saturated	35-40	0.0		Well Diameter: 2"	35
40				40-45	4.2			40
45			(38.0- 57.0) SAND: medium, Light Gray, well sorted, rounded; saturated	45-50	13.1			45
50				50-55	0.0			50
55				55-60	0.0			55
60			(57.0- 61.0) SAND: medium-coarse, Dark Gray, sorted, rounded; saturated	60-65	0.3			60
65			(61.0- 67.0) SAND: coarse, Dark Gray, well sorted, rounded; saturated	65-67	0.0		Boring terminated at 67 feet below ground surface.	65

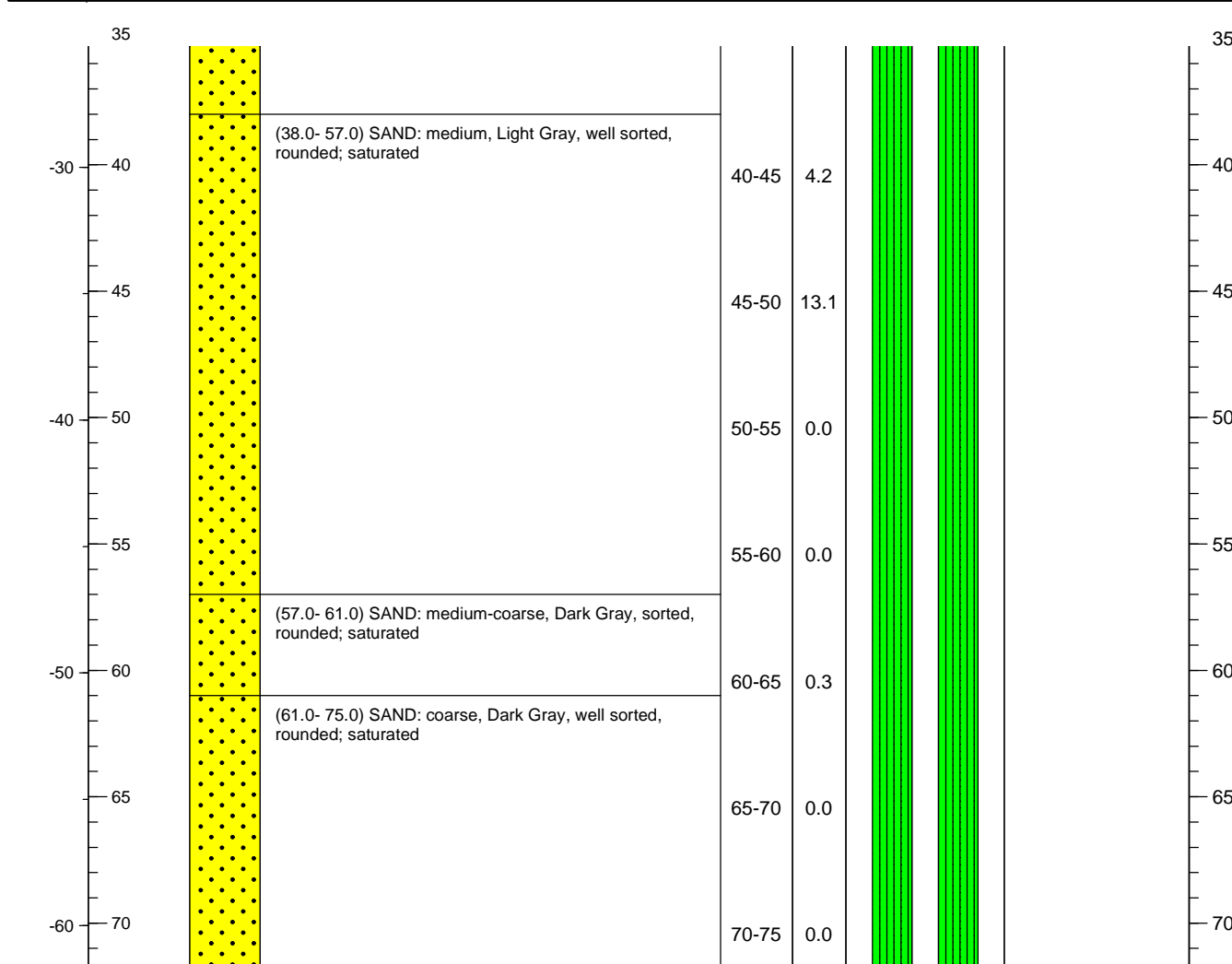
Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-49D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424232.1 870735.1	Ground Surface Elevation 10.10
	Drilling Equipment Boart Big Rig	Well Screen Interval 86 - 96 ft		Top of Well Casing Elevation 9.79
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 96 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/29/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 103 ft.	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/29/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



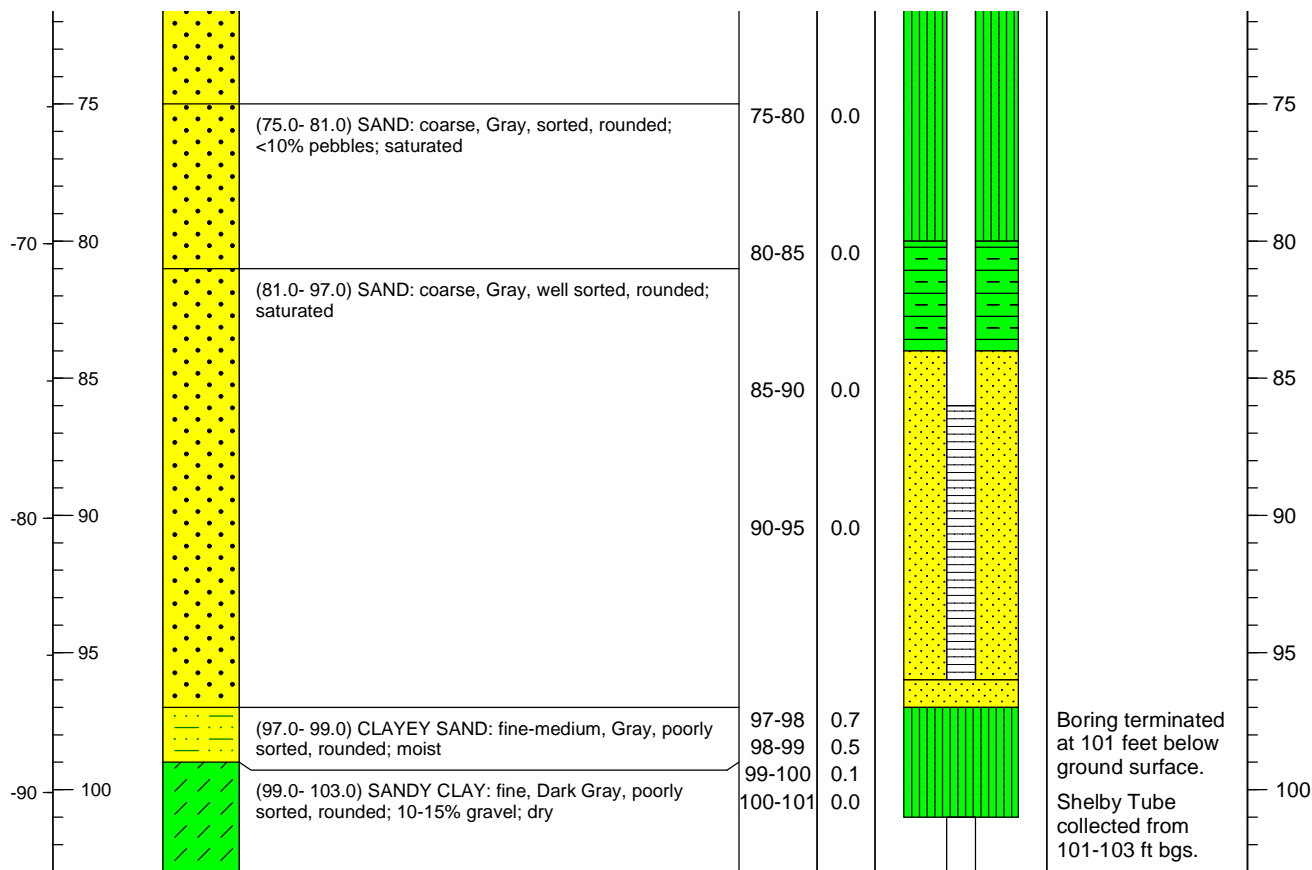
Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-49D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	424232.1 870735.1	Ground Surface Elevation 10.10
	Drilling Equipment Boart Big Rig	Well Screen Interval 86 - 96 ft		Top of Well Casing Elevation 9.79
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 96 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/29/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 103 ft.	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/29/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth



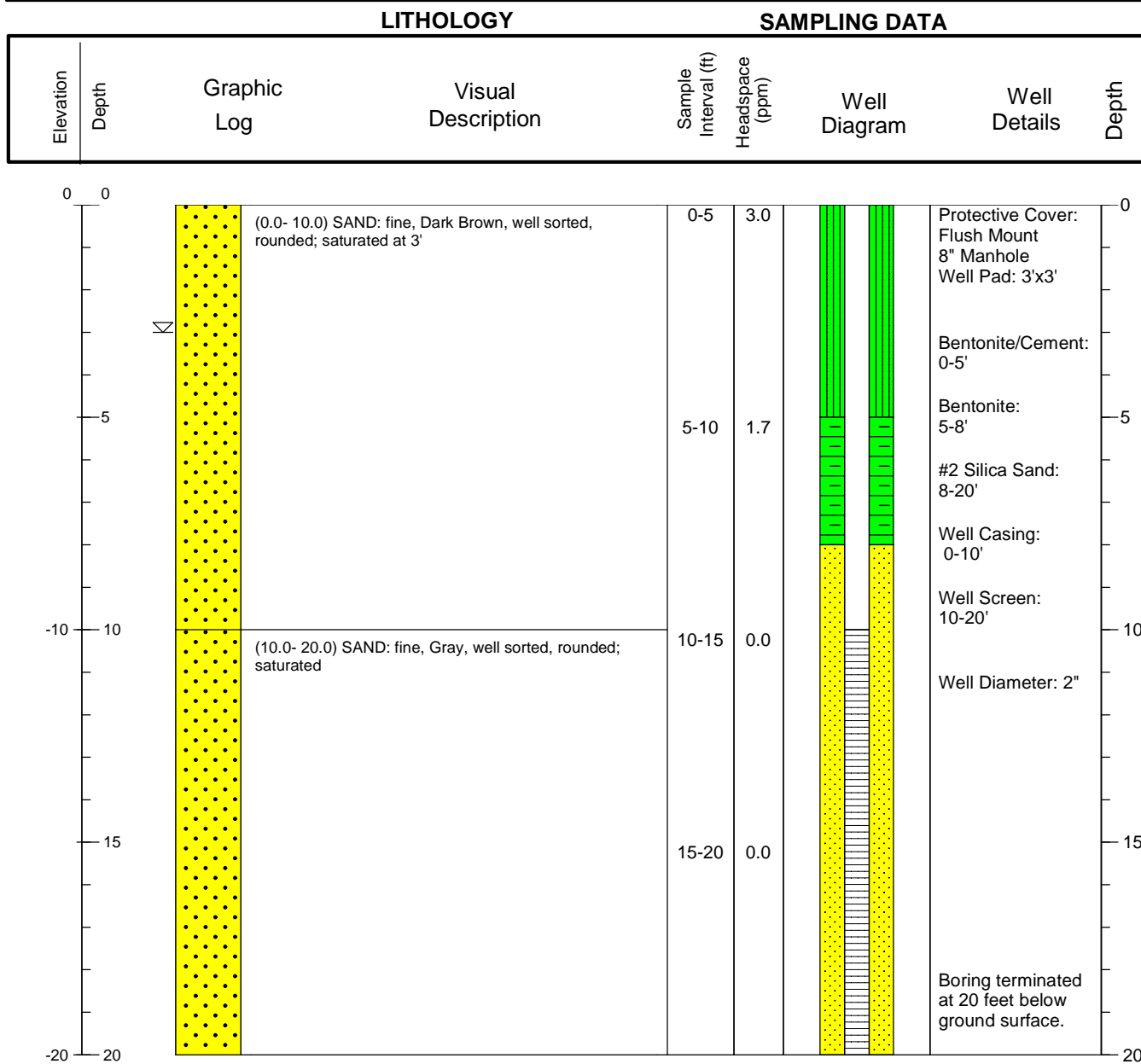
Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-49D	
Monitoring Well Construction Log				
Address		Drilling Contractor/License	Northing	Ground Surface Elevation
2801 Cook Street		Boart Longyear	424232.1	10.10
Brunswick Georgia		Drilling Equipment	Easting	
		Boart Big Rig	870735.1	
			Well Screen Interval	Top of Well Casing Elevation
			86 - 96 ft	9.79
GA EPD Number		Drilling Method	Well Screen Slot Size	Total Well Depth
GAD004065520		Sonic Drilling	0.01 inch	96 ft
Logged By R. McLain		Date Drilling Started	Well Casing Diameter and Type	Boring Depth
Approved By D. Salisbury		3/29/12	2 in. SCH 40 PVC	Boring Dia.
				103 ft.
				4 in. / 6 in.
Driller Name J. Sousa		Date Drilling Completed	Sampling Method	Headspace Monitoring Device
Project Number WBS30012B1		3/29/12	4" Continuous Cores	PID

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth





Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-50S	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	422953.1 872360.3	Ground Surface Elevation 7.80		
	Drilling Equipment Mini Sonic	Well Screen Interval 10 - 20 ft		Top of Well Casing Elevation 7.82		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 20 ft		
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/14/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 20 ft	Boring Dia. 4 in. / 6 in.	
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/15/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID		



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-50I	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	422952.7 872366.4	Ground Surface Elevation 7.90
	Drilling Equipment Mini Sonic	Well Screen Interval 36 - 46 ft		Top of Well Casing Elevation 7.88
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 46 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/14/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 46 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/15/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
0							
			(0.0- 10.0) SAND: fine, Dark Brown, well sorted, rounded; saturated at 3'	0-5	3.0		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'
-5				5-10	1.7		Bentonite/Cement: 0-30'
0							Bentonite: 30-34'
-10			(10.0- 20.0) SAND: fine, Gray, well sorted, rounded; saturated	10-15	0.0		#2 Silica Sand: 34-46'
-15				15-20	0.0		Well Casing: 0-36'
-20							Well Screen: 36-46'
-25			(20.0- 30.0) SAND: fine, Gray, well sorted, rounded; <10% shell fragments	20-25	0.0		Well Diameter: 2"
-30				25-30	0.0		
-35			(30.0- 35.0) SAND: very fine, Gray, well sorted, rounded; moist-wet; <10% shell fragments	30-35	0.0		
-40			(35.0- 40.0) SAND: medium, Gray, well sorted, rounded; saturated; 10-20% shell fragments	35-36	0.0		
-45			(40.0- 46.0) SAND: medium, Light Gray, well sorted, rounded; moist				Boring terminated at 46 feet below ground surface.



Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-50D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	422952.2 872372.5	Ground Surface Elevation 8.10		
	Drilling Equipment Mini Sonic	Well Screen Interval 78 - 88 ft		Top of Well Casing Elevation 8.01		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 88 ft		
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/14/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 100 ft	Boring Dia. 4 in. / 6 in.	
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/15/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID		

### LITHOLOGY

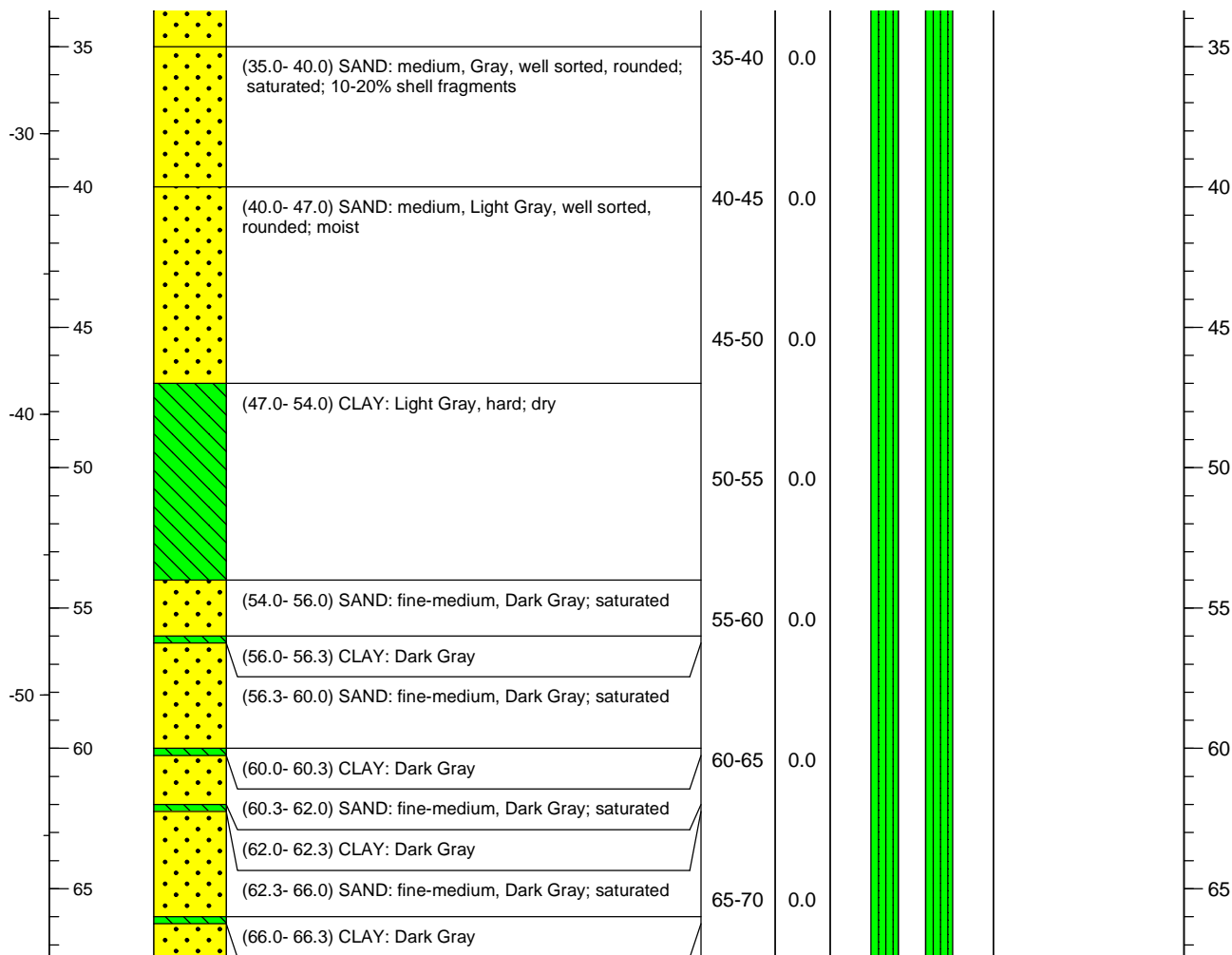
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0				0-5	3.0		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	0
				5-10	1.7		Bentonite/Cement: 0-70'	5
				10-15	0.0		Bentonite: 70-75'	10
				15-20	0.0		#2 Silica Sand: 75-89'	15
				20-25	0.0		Well Casing: 0-78'	20
				25-30	0.0		Well Screen: 78-88'	25
				30-35	0.0		Well Diameter: 2"	30
							Backfill: Hydrated 3/8" Bentonite Chips: 89-100'	

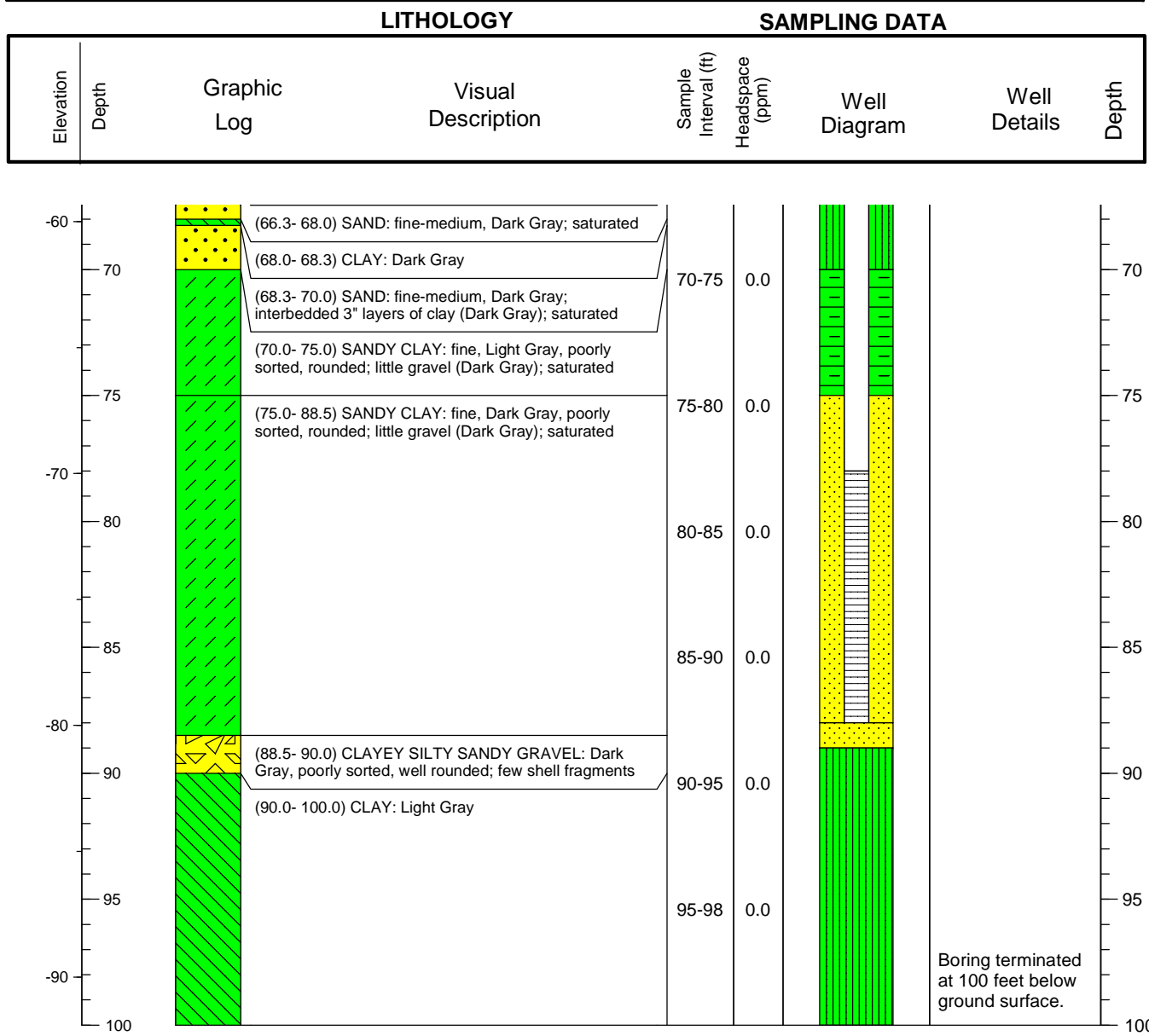


<b>Project Name</b> <b>Former Hercules Brunswick Facility Georgia</b>			<b>Monitoring Well Construction Log</b>		<b>Well Number</b> <b>MW-50D</b>
<b>Address</b> <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	<b>Drilling Contractor/License</b> <b>Boart Longyear</b>	<b>Northing</b> <b>Easting</b>	<b>422952.2</b> <b>872372.5</b>	<b>Ground Surface Elevation</b> <b>8.10</b>	
	<b>Drilling Equipment</b> <b>Mini Sonic</b>	<b>Well Screen Interval</b> <b>78 - 88 ft</b>		<b>Top of Well Casing Elevation</b> <b>8.01</b>	
<b>GA EPD Number</b> <b>GAD004065520</b>	<b>Drilling Method</b> <b>Sonic Drilling</b>	<b>Well Screen Slot Size</b> <b>0.01 inch</b>		<b>Total Well Depth</b> <b>88 ft</b>	
<b>Logged By</b> <b>R. McLain</b> <b>Approved By</b> <b>D. Salisbury</b>	<b>Date Drilling Started</b> <b>3/14/12</b>	<b>Well Casing Diameter and Type</b> <b>2 in. SCH 40 PVC</b>		<b>Boring Depth</b> <b>100 ft</b>	<b>Boring Dia.</b> <b>4 in. / 6 in.</b>
<b>Driller Name</b> <b>J. Sousa</b> <b>Project Number</b> <b>WBS30012B1</b>	<b>Date Drilling Completed</b> <b>3/15/12</b>	<b>Sampling Method</b> <b>4" Continuous Cores</b>		<b>Headspace Monitoring Device</b> <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-50D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	422952.2 872372.5	Ground Surface Elevation  8.10
	Drilling Equipment Mini Sonic	Well Screen Interval 78 - 88 ft		Top of Well Casing Elevation  8.01
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 88 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/14/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/15/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-51S	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	423424.6 8723733.4	Ground Surface Elevation 7.00
	Drilling Equipment Mini Sonic	Well Screen Interval 10-20 ft		Top of Well Casing Elevation 6.71
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 20 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/20/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 20 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/21/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA





















Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated at 3'; organic odor	0-5	34.1		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	0
							Bentonite/Cement: 0-5'	
			(5.0- 10.0) SAND: fine, Brown, well sorted, well rounded; saturated	5-10	2.2		Bentonite: 5-8'	5
							#2 Silica Sand: 8-20'	
			(10.0- 15.0) SAND: fine, White to Tan, well sorted, well rounded; saturated	10-15	1.7		Well Casing: 0-10'	
							Well Screen: 10-20'	10
							Well Diameter: 2"	
			(15.0- 20.0) SAND: fine, Tan, well sorted, well rounded; saturated	15-20	2.4			15
							Boring terminated at 20 feet below ground surface.	20



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-511	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	423430.1 872734.5	Ground Surface Elevation 7.10
	Drilling Equipment Mini Sonic	Well Screen Interval 40-50 ft		Top of Well Casing Elevation 6.75
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 50 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/20/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 50 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/21/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0								0
			(0.0- 5.0) SAND: fine, Dark Brown, well sorted, well rounded; saturated at 3'; organic odor	0-5	34.1		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	
			(5.0- 10.0) SAND: fine, Brown, well sorted, well rounded; saturated	5-10	2.2		Bentonite/Cement: 0-34'	
			(10.0- 15.0) SAND: fine, White to Tan, well sorted, well rounded; saturated	10-15	1.7		Bentonite: 34-38'	
			(15.0- 20.0) SAND: fine, Tan, well sorted, well rounded; saturated	15-20	2.4		#2 Silica Sand: 38-50'	
			(20.0- 40.0) SAND: fine, Gray, well sorted, well rounded; saturated	20-25	1.4		Well Casing: 0-40'	
				25-30	0.1		Well Screen: 40-50'	
				30-35	0.1		Well Diameter: 2"	
				35-40	0.0			
			(40.0- 45.0) NO RECOVERY	40-45	NA			
			(45.0- 50.0) SAND: medium, Gray, sorted, rounded; saturated; 10% shell fragments (~3 mm dia.)	45-50	0.0		Boring terminated at 50 feet below ground surface.	
								50







Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-51D	
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Boart Longyear</b>		Northing Easting	<b>423435.3</b> <b>872735.5</b>	Ground Surface Elevation <b>7.10</b>	
	Drilling Equipment <b>Mini Sonic</b>		Well Screen Interval <b>76 - 86 ft</b>		Top of Well Casing Elevation <b>6.68</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>		Well Screen Slot Size <b>0.01 inch</b>		Total Well Depth <b>86 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>D. Salisbury</b>	Date Drilling Started <b>3/20/12</b>		Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>		Boring Depth <b>110 ft</b>	Boring Dia. <b>4 in / 6 in.</b>
Driller Name <b>J. Sousa</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>3/21/12</b>		Sampling Method <b>4" Continuous Cores</b>		Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth
-30							
	40		(40.0- 45.0) NO RECOVERY	40-45	NA		40
	45		(45.0- 50.0) SAND: medium, Gray, sorted, rounded; saturated; 10% shell fragments (~3 mm dia.)	45-50	0.0		45
-40							
	50		(50.0- 60.0) CLAYEY SAND: fine, Gray, sorted, rounded; saturated	50-55	0.0		50
	55						
-50				55-60	0.0		55
	60		(60.0- 70.0) SANDY CLAY: Dark Gray, sorted, rounded; moist	60-65	0.0		60
	65			65-70	0.0		65
-60							
	70		(70.0- 76.0) CLAYEY SAND: Gray, sorted, rounded; wet	70-75	0.0		70



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-51D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	423435.3 872735.5	Ground Surface Elevation 7.10
	Drilling Equipment Mini Sonic	Well Screen Interval 76 - 86 ft		Top of Well Casing Elevation 6.68
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 86 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/20/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 110 ft	Boring Dia. 4 in / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/21/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
75				75-80	0.0			75
-70			(76.0- 86.0) SAND: coarse, Gray, sorted, rounded; saturated	80-85	0.0			80
-80			(86.0- 88.0) CLAYEY SAND: Green-Gray; moist; 20% gravel, 10% pebbles	85-90	0.0			85
-85			(88.0- 92.0) CLAY: Green-Gray; dry; 10% silt;	90-95	0.0			90
-90			(92.0- 94.0) CLAYEY SAND: fine-medium, Gray; saturated	95-100	0.0			95
-95			(94.0- 100.0) SANDY CLAY: fine-coarse, Gray; moist	100-105	0.0			100
-100			(100.0- 110.0) SANDY CLAY: fine-coarse, Gray; dry	105-110	0.0			105
-110							Boring terminated at 110 feet below ground surface.	110



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-52S	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	425611.9 872662.5	Ground Surface Elevation 7.60
	Drilling Equipment Mini Sonic	Well Screen Interval 10 - 20 ft		Top of Well Casing Elevation 7.26
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 20 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/15/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 20 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/15/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 3.0) SAND: very fine-fine, Light Brown, well sorted, rounded; silt; moist	0-5	0.0		Protective Cover: Stick Up/Well Pad: 3'x3'	0
			(3.0- 5.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; degraded organic odor; saturated				Bentonite/ Cement Grout: 0-5'	
-5			(5.0- 10.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; degraded organic odor; saturated	5-10	0.0		Bentonite: 5-8'	5
			(10.0- 11.0) SANDY SILT: very fine, Gray, sorted, rounded; saturated	10-15	0.0		#2 Silica Sand: 8-20'	
-10			(11.0- 13.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; saturated				Well Casing: 0-10'	10
			(13.0- 16.0) SAND: very fine; Dark Gray, well sorted, rounded; few silt cross bedding	15-20	0.0		Well Screen: 10-20'	
-15			(16.0- 20.0) SAND: very fine, Tan, well sorted, rounded; saturated				Well Diameter: 2"	15
-20							Boring terminated at 20 feet below ground surface.	20



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-52I	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	425604.1 872662.9	Ground Surface Elevation 7.50
	Drilling Equipment Mini Sonic	Well Screen Interval 40 - 50 ft		Top of Well Casing Elevation 7.33
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 50 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/15/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 50 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/16/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 3.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; saturated	0-5	0.0		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	0
			(3.0- 5.0) SAND: very fine; Dark Gray, well sorted, rounded; few silt cross bedding	5-10	0.0			5
			(5.0- 10.0) SAND: very fine, Tan, well sorted, rounded; saturated	10-15	0.0		Bentonite/ Cement Grout: 0-34'	10
			(10.0- 11.0) SANDY SILT: fine, Brown, well sorted, rounded; saturated	10-15	0.0		Bentonite: 34-38'	10
			(11.0- 13.0) SAND: fine, Dark Gray, sorted, rounded; saturated; some shell fragments (<1/4" dia)	15-20	0.0		#2 Silica Sand: 38-50'	15
			(13.0- 16.0) SAND: medium, Gray, well sorted, rounded; saturated	20-25	0.0		Well Casing: 0-40'	20
			(16.0- 20.0) SAND: very fine, Gray, well sorted, rounded; saturated	20-25	0.0		Well Screen: 40-50'	20
			(20.0- 30.0) SAND: fine, Brown, well sorted, rounded; saturated	25-30	0.0		Well Diameter: 2"	25
			(30.0- 40.0) SANDY CLAY: fine, Dark Gray, sorted, rounded; some shell fragments (<1/4" dia); saturated	30-35	0.0			30
			(40.0- 43.0) SAND: medium, Gray, well sorted, rounded; saturated	40-45	0.0			40
			(43.0- 50.0) SAND: very fine, Gray, well sorted, rounded; saturated	45-50	0.0			45
							Boring terminated at 50 feet below ground surface.	50



Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-52D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	425608.4 872668.8	Ground Surface Elevation 7.50
	Drilling Equipment Mini Sonic	Well Screen Interval 79 - 89 ft		Top of Well Casing Elevation 7.41
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 89 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/15/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 110 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/16/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 3.0) SAND: very fine-fine, Light Brown, well sorted, rounded; moist; with 10-20% silt	0-5	0.0		Protective Cover: Flush Mount 8" Manhole Well Pad: 3'x3'	0
			(3.0- 5.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; saturated; degraded organic odor	5-10	0.0		Bentonite/ Cement Grout: 0-72'	5
			(5.0- 10.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; saturated; degraded organic odor					
			(10.0- 11.0) SANDY SILT: very fine, Gray, sorted, rounded; saturated	10-15	0.0		Bentonite Seal: 72-76'	10
			(11.0- 13.0) SAND: very fine-fine, Dark Brown, well sorted, rounded; saturated	15-20	0.0		#2 Silica Sand: 76-89	
			(13.0- 16.0) SAND: very fine; Dark Gray, well sorted, rounded; few silt cross bedding					
			(16.0- 20.0) SAND: very fine, Tan, well sorted, rounded; saturated	20-25	0.0		Well Casing: 0-79'	15
			(20.0- 30.0) SAND: fine, Brown, well sorted, rounded; saturated	25-30	0.0		Well Screen: 79-89'	20
				30-35	0.0		Well Diameter: 2"	25
			(30.0- 40.0) SANDY CLAY: fine, Dark Gray, sorted, rounded; saturated; some shell fragments (<1/4" dia)	35-40	0.0		Backfill: Hydrated 3/8" Bentonite Chips: 90-110'	30
								35



Project Name Former Hercules Brunswick Facility Georgia			Monitoring Well Construction Log		Well Number MW-52D	
Address  2801 Cook Street  Brunswick      Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	425608.4 872668.8	Ground Surface Elevation 7.50		
	Drilling Equipment Mini Sonic	Well Screen Interval 79 - 89 ft		Top of Well Casing Elevation 7.41		
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch		Total Well Depth 89 ft		
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/15/12	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 110 ft	Boring Dia. 4 in. / 6 in.	
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/16/12	Sampling Method 4" Continuous Cores		Headspace Monitoring Device PID		

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-30								
	40		(40.0- 43.0) SAND: medium, Gray, well sorted, rounded; saturated	40-45	0.0			40
	45		(43.0- 56.0) SAND: very fine, Gray, well sorted, rounded; saturated	45-50	0.0			45
-40								
50				50-55	0.0			50
55				55-60	0.0			55
-50			(56.0- 66.0) SANDSTONE: medium-coarse, Dark Gray, hard	60-65	0.0			60
60				65-70	0.0			65
65								
-60			(66.0- 70.0) CLAYEY SAND: fine-very fine; Dark Gray, poorly sorted, well rounded; saturated; 50% gravel (almost cobblestone (1/4-3/4" dia)	70-75	0.0			70
70			(70.0- 73.0) CLAYEY SILTY SANDY GRAVEL					
			(73.0- 85.0) SAND: coarse, Light Gray					
75								75





Project Name			Well Number	
Former Hercules Brunswick Facility Georgia			MW-52D	
Address  2801 Cook Street  Brunswick Georgia	Drilling Contractor/License Boart Longyear	Northing Easting	425608.4 872668.8	Ground Surface Elevation 7.50
	Drilling Equipment Mini Sonic	Well Screen Interval 79 - 89 ft		Top of Well Casing Elevation 7.41
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 89 ft	
Logged By R. McLain Approved By D. Salisbury	Date Drilling Started 3/15/12	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 110 ft	Boring Dia. 4 in. / 6 in.
Driller Name J. Sousa Project Number WBS30012B1	Date Drilling Completed 3/16/12	Sampling Method 4" Continuous Cores	Headspace Monitoring Device PID	


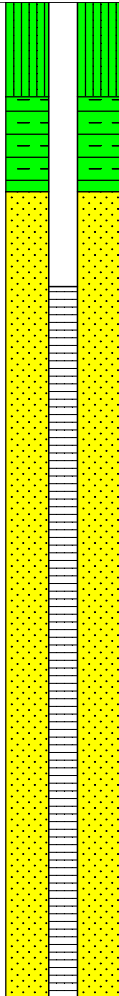
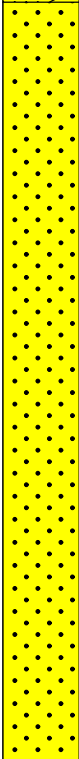
### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
75				75-80	0.0			75
-70				80-85	0.0			80
-80				85-90	0.0			85
-85			(85.0- 90.0) CLAYEY SAND: coarse, Gray, sorted, rounded; wet; 20% gravel, 10% pebbles	90-95	0.0			90
-90			(90.0- 94.0) SILTY CLAY: Gray, hard; moist	95-100	0.0			95
-95			(94.0- 100.0) CLAY: Green-Gray; dry to moist; with 10% silt	100-105	0.0			100
-100			(100.0- 104.0) CLAYEY SAND: fine-medium, Gray; moist	105-110	0.0			105
-105			(104.0- 106.0) SILTY SAND: very fine-medium, Gray; clay; wet					
-110			(106.0- 110.0) SAND: fine-medium; Gray, sorted, rounded; saturated; 10% coarse grain sand				Boring terminated at 110 feet below ground surface.	110


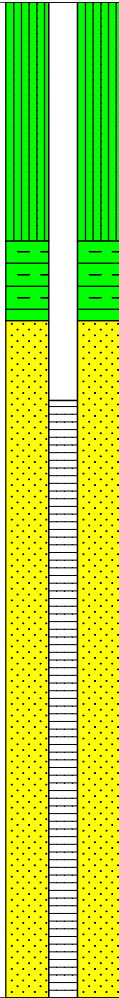






<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-53S
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424165.610</b> <b>871731.447</b>	Ground Surface Elevation <b>7.13</b>	
	Drilling Equipment <b>Rousie SR1 w/Detric Head</b>	Well Screen Interval <b>6-21 ft</b>	Top of Well Casing Elevation <b>10.14</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Sonic Drilling</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>21 ft</b>	
Logged By <b>R. McLain</b> Approved By <b>R. Cate</b>	Date Drilling Started <b>4/7/10</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>21 ft</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Niles</b> Project Number <b>WBS30012B1</b>	Date Drilling Completed <b>4/7/10</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
0			(0.0- 5.0) FILL  0 - 5 Post-hole	0-5	15.5		Protective Cover: Stick Up/Well Pad: 3'x3'
							Bentonite/Cement: 0-2'
-5			(5.0- 21.0) SAND: fine, Dusty Brown (2/2), rounded, loose; saturated	5-10	3.3		Bentonite: 2-4'
0							#2 Silica Sand: 4-21'
-10				10-15	0.0		Well Casing: 0-6'
-15				15-20	0.0		Well Screen: 6-21'
-20							Well Diameter: 2"
							Boring terminated at 21 feet below ground surface.



Project Name			Well Number	
Ashland Brunswick Georgia			MW-54S	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424965.830 870896.370	Ground Surface Elevation 8.90
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 10-25 ft		Top of Well Casing Elevation 11.24
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 25 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 25 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
0							
			(0.0- 5.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded, loose; dry 0 - 5 Post-hole	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-6'  Bentonite: 6-8'  #2 Silica Sand: 8-25'  Well Casing: 0-10'  Well Screen: 10-25'  Well Diameter: 2"
	5						
			(5.0- 10.0) SAND: fine, Brown (5/2), rounded - sub-rounded, loose; saturated	5-10	9.2		
	10						
			(10.0- 15.0) SAND: fine-coarse, Brown (5/2), poorly sorted, sub-rounded - sub-angular, loose; saturated	10-15	2.3		
	15						
			(15.0- 20.0) SAND: fine-medium, Pale Brown (2/2), sub-rounded, loose; saturated	15-20	6.9		
	-10						
	20						
			(20.0- 25.0) NO RECOVERY	20-25	NA		Boring terminated at 25 feet below ground surface.
	25						



Project Name			Well Number	
Ashland Brunswick Georgia			MW-54I	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424962.340 870897.820	Ground Surface Elevation 8.92
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 11.23
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

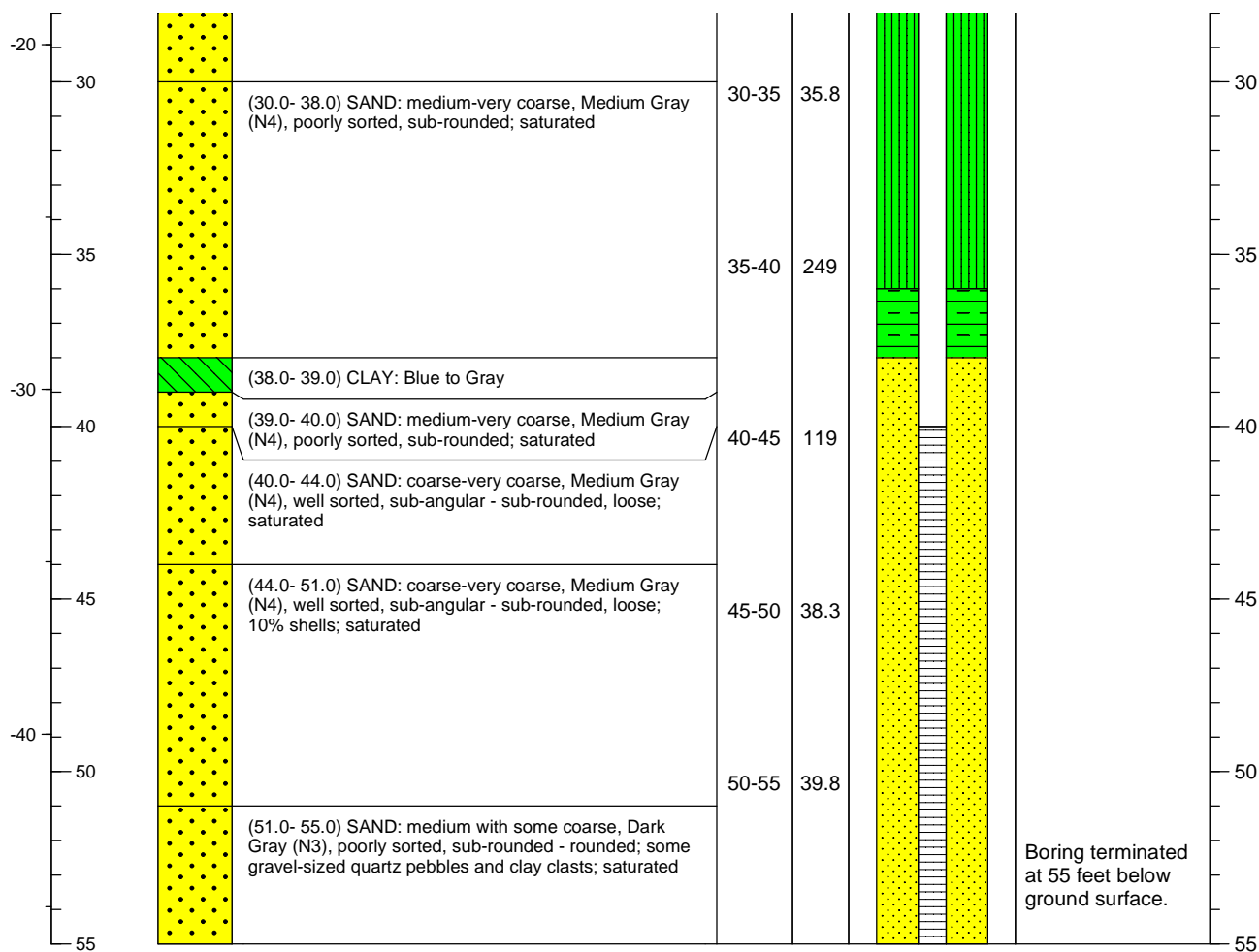
### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded, loose; dry 0 - 5 Post-hole	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-36'	0
-5			(5.0- 10.0) SAND: fine, Brown (5/2), rounded - sub-rounded, loose; saturated	5-10	9.2		Bentonite: 36-38'	5
0			(10.0- 15.0) SAND: fine-coarse, Brown (5/2), poorly sorted, sub-rounded - sub-angular, loose; saturated	10-15	2.3		#2 Silica Sand: 38-55'	10
-10			(15.0- 20.0) SAND: fine-medium, Pale Brown (2/2), sub-rounded, loose; saturated	15-20	6.9		Well Casing: 0-40'	15
-20			(20.0- 25.0) NO RECOVERY	20-25	NA		Well Screen: 40-55'	20
-25			(25.0- 30.0) SAND: fine-coarse, Medium Gray (N4), poorly sorted, sub-rounded - sub-angular; saturated	25-30	18.5		Well Diameter: 2"	25



Project Name			Well Number	
Ashland Brunswick Georgia			MW-54I	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424962.340 870897.820	Ground Surface Elevation 8.92
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 40-55 ft		Top of Well Casing Elevation 11.23
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 55 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 55 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details



Project Name			Well Number	
Ashland Brunswick Georgia			MW-54D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424957.870 870899.810	Ground Surface Elevation 8.90
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 81-91 ft		Top of Well Casing Elevation 11.20
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 90 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details
0			(0.0- 5.0) SAND: fine-medium, Dusty Brown (2/2), sub-rounded, loose; dry 0 - 5 Post-hole	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Bentonite/Cement: 0-76'
5			(5.0- 10.0) SAND: fine, Brown (5/2), rounded - sub-rounded, loose; saturated	5-10	9.2		Bentonite: 76-78' #2 Silica Sand: 78-90'
10			(10.0- 15.0) SAND: fine-coarse, Brown (5/2), poorly sorted, sub-rounded - sub-angular, loose; saturated	10-15	2.3		Well Casing: 0-80' Well Screen: 80-90' Well Diameter: 2"
15			(15.0- 20.0) SAND: fine-medium, Pale Brown (2/2), sub-rounded, loose; saturated	15-20	6.9		Bentonite: 90-95' 20/30 Sand Backfill
20			(20.0- 25.0) NO RECOVERY	20-25	NA		
25				25-30	18.5		



Project Name			Well Number	
Ashland Brunswick Georgia			MW-54D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424957.870 870899.810	Ground Surface Elevation 8.90
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 81-91 ft		Top of Well Casing Elevation 11.20
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 90 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

LITHOLOGY				SAMPLING DATA			
Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Depth
25							25
		(25.0- 30.0) SAND: fine-coarse, Medium Gray (N4), poorly sorted, sub-rounded - sub-angular; saturated		25-30	18.5		
-20							
	30	(30.0- 38.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, sub-rounded; saturated		30-35	35.8		30
	35			35-40	249		35
	-30	(38.0- 39.0) CLAY: Blue to Gray					
	40	(39.0- 40.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, sub-rounded; saturated		40-45	119		40
		(40.0- 44.0) SAND: coarse-very coarse, Medium Gray (N4), well sorted, sub-angular - sub-rounded, loose; saturated					
	45	(44.0- 51.0) SAND: coarse-very coarse, Medium Gray (N4), well sorted, sub-angular - sub-rounded, loose; 10% shells; saturated		45-50	38.3		45
-40							
50							50





Project Name			Well Number	
Ashland Brunswick Georgia			MW-54D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424957.870 870899.810	Ground Surface Elevation 8.90
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 81-91 ft		Top of Well Casing Elevation 11.20
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 90 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
50				50-55	39.8			50
			(51.0- 57.0) SAND: medium with some coarse, Dark Gray (N3), poorly sorted, sub-rounded - rounded; some gravel-sized quartz pebbles and clay clasts; saturated					
	55			55-60	34.7			55
			(57.0- 60.0) SANDY CLAY: Dark Gray (N3); some fine-medium sand; saturated					
-50				60-65	24.9			60
	60		(60.0- 65.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, sub-rounded - rounded; few gravel-sized rounded quartz pebbles; saturated					
			(65.0- 68.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, sub-rounded - rounded, loose; few gravel-sized rounded quartz pebbles; saturated	65-70	25.7			65
	65							
			(68.0- 70.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, sub-rounded - rounded, loose; some clay (clayey sand), few gravel-sized rounded quartz pebbles; saturated	70-75	8.9			70
-60								
	70		(70.0- 73.0) SAND: fine-coarse, Light Gray (N6), poorly sorted, sub-angular - sub-rounded; some clay (clayey sand); saturated					
			(73.0- 76.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, sub-rounded-rounded; saturated					
	75							75



Project Name			Well Number	
Ashland Brunswick Georgia			MW-54D	
Address 2801 Cook Street Brunswick Georgia	Drilling Contractor/License Groundwater Protection	Northing Easting	424957.870 870899.810	Ground Surface Elevation 8.90
	Drilling Equipment Rousie SR1 w/Detric Head	Well Screen Interval 81-91 ft		Top of Well Casing Elevation 11.20
GA EPD Number GAD004065520	Drilling Method Sonic Drilling	Well Screen Slot Size 0.01 inch	Total Well Depth 90 ft	
Logged By J. Soban Approved By R. Cate	Date Drilling Started 4/13/10	Well Casing Diameter and Type 2 in. SCH 40 PVC	Boring Depth 100 ft	Boring Dia. 6 in.
Driller Name B. Niles Project Number WBS30012B1	Date Drilling Completed 4/13/10	Sampling Method Continuous Cores	Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
75				75-80	7.6			75
			(76.0- 78.0) SILTY SAND: fine-coarse, Light Gray (N6), poorly sorted, sub-angular - sub-rounded, hard; abundance of gravel-sized rounded quartz pebbles; dry					
-70			(78.0- 80.0) CLAYEY SAND: fine-coarse, Light Gray (N6), poorly sorted, sub-angular - sub-rounded, very dense					
-80			(80.0- 83.0) SAND: coarse-very coarse, Medium Gray, well sorted, rounded - well-rounded, loose; saturated	80-85	1.2			-80
			(83.0- 85.0) SAND: coarse, Medium Gray (N4), well sorted, rounded - sub-rounded, loose; saturated					
-85			(85.0- 90.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, rounded - well-rounded, loose; abundance of gravel-sized particles; saturated	85-90	2.1			-85
-90			(90.0- 92.0) SAND: medium-coarse, Medium Gray (N4), poorly sorted, rounded, loose; saturated	90-95	1.7			-90
			(92.0- 95.0) SAND: medium-very coarse, Medium Gray (N4), poorly sorted, rounded, loose; saturated					
-95			(95.0- 100.0) SAND: medium-very coarse, Light Gray (N6), poorly sorted, rounded, loose; some shell material and gravel-sized rounded quartz pebbles; saturated	95-100	1.3			-95
-90							Borehole backfilled with sand and bentonite seal.	-90
100							Boring terminated at 100 feet below ground surface.	100



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55S
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424924.42</b> <b>873353.35</b>	Ground Surface Elevation <b>5.30</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>75-85 ft.</b>	Top of Well Casing Elevation <b>8.07</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>25 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>85 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

**LITHOLOGY**
**SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) SANDY SILT: Black sandy silt, strong sulfur odor 0 - 5 Post-hole	SM	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Cement Grout: 1-6'	0
			(5.0- 6.5) SILTY SAND: Dark gray silty sand, fine grained, roots, shells, strong sulfur odor	SM	5-10			Well Casing: 0-10'	5
			(6.5- 10.5) SANDY CLAY: Dark gray silty sandy clay, fine grained	SC				Fine Sand: 6-8'	
			(10.5- 14.0) CLAYEY SAND: Gray fine grained sand, silt, clay	SC	10-15	12.5		Well Diameter: 2"	10
			(14.0- 16.0) SAND: Gray sand, poorly sorted, shell fragments angular 1-4 mm	SP	15-20	2.8		#2 Silica Sand: 8-25'	15
			(16.0- 19.5) SAND: Gray sand, medium-fine grained, some large quartz gravel, rounded 1-4 mm	SP				Well Screen: 10-25'	
			(19.5- 20.3) SANDY CLAY: Gray sandy clay, fine grained, stiff, saturated	CL	20-25	1.4			20
			(20.3- 25.0) CLAYEY SAND: Gray sand, clay, medium-fine grained	SC					25

Sample descriptions were obtained from the boring log for MW-55D.



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55I
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424922.79</b> <b>873363.21</b>	Ground Surface Elevation <b>5.10</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>40-55 ft.</b>	Top of Well Casing Elevation <b>7.92</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>55 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>55 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

**LITHOLOGY**
**SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
0			(0.0- 5.0) SANDY SILT: Black sandy silt, strong sulfur odor 0 - 5 Post-hole	SM	0-5	NA		Protective Cover: Stick Up/Well Pad: 3'x3' Cement Grout: 1-36'	0
			(5.0- 6.5) SILTY SAND: Dark gray silty sand, fine grained, roots, shells, strong sulfur odor	SM	5-10			Well Casing: 0-40'	5
			(6.5- 10.5) SANDY CLAY: Dark gray silty sandy clay, fine grained	SC				Well Diameter: 2"	
			(10.5- 14.0) CLAYEY SAND: Gray fine grained sand, silt, clay	SC	10-15	12.5			10
			(14.0- 16.0) SAND: Gray sand, poorly sorted, shell fragments angular 1-4 mm	SP	15-20	2.8			15
			(16.0- 19.5) SAND: Gray sand, medium-fine grained, some large quartz gravel, rounded 1-4 mm	SP					
			(19.5- 20.3) SANDY CLAY: Gray sandy clay, fine grained, stiff, saturated	CL	20-25	1.4			20
			(20.3- 25.0) CLAYEY SAND: Gray sand, clay, medium-fine grained	SC					25
-20	25								

Sample descriptions were obtained from the boring log for MW-55D.



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55I
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424922.79</b> <b>873363.21</b>	Ground Surface Elevation <b>5.10</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>40-55 ft.</b>	Top of Well Casing Elevation <b>7.92</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>55 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>55 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
-20	25		(25.0- 27.5) CLAYEY SAND: Gray sand, medium-fine grained, rock lenses 1-3 inches thick, clay	SC	25-30	2.3		Fine Sand: 36-38'  #2 Silica Sand: 38-55'  Well Screen: 40-55'	25
			(27.5- 28.3) SANDY CLAY: Gray sandy clay, fine grained	CL					
			(28.3- 32.0) SAND: Gray sand, medium-fine grained, trace clay	SW	30-35	2.0			30
			(32.0- 34.5) SAND: Gray sand, medium-fine grained, abundant shell fragments, angular, <1 mm- >4 mm	SP					
-30	35		(34.5- 38.5) SAND: Light gray, fine sand, trace clay	SW	35-40	2.6			35
			(38.5- 41.0) SAND: Sand with fractured bedrock pieces, 1-8 inches thick	SP	40-45	3.7			40
			(41.0- 50.0) SAND: Gray sand, fine grained, some rock lenses 0.5-2 inches thick	SP	45-50	3.5			45
-40	45								50
	50								

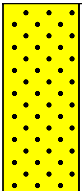
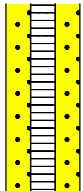
Sample descriptions were obtained from the boring log for MW-55D.



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55I
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424922.79</b> <b>873363.21</b>	Ground Surface Elevation <b>5.10</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>40-55 ft.</b>	Top of Well Casing Elevation <b>7.92</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>55 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>55 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
50			(50.0- 55.0) SAND: Gray sand, medium-fine grained, trace silt, some quartz gravel, subrounded 1-6 mm	SP	50-55	3.5			50
-50	55		Boring terminated at 55 ft. bgs.					Well set at 55 ft. bgs. with 15 ft of screen.	55
-60	60								60
-65	65								65
-70	70								70
-75	75								75

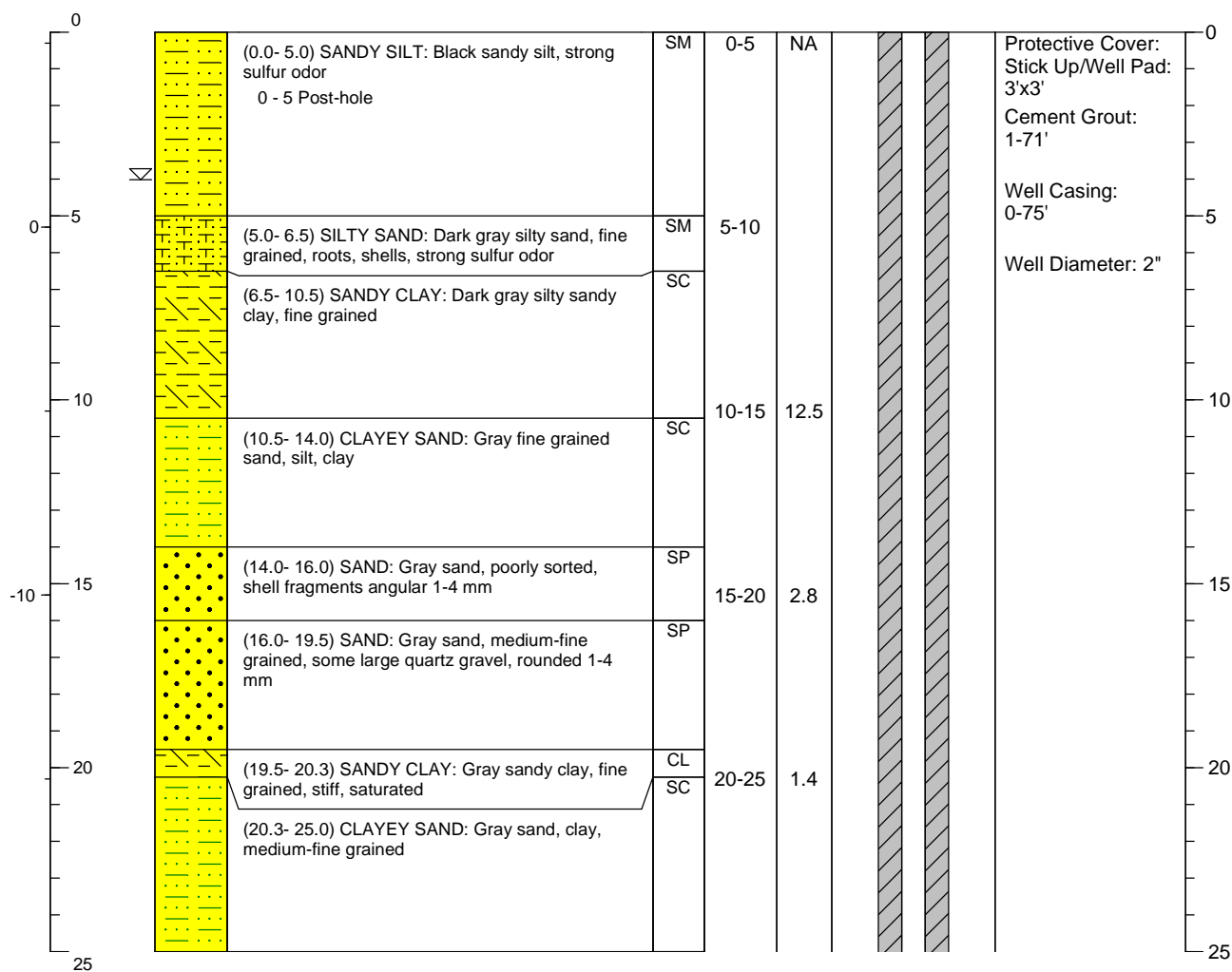
Sample descriptions were obtained from the boring log for MW-55D.



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424923.59</b> <b>873358.3</b>	Ground Surface Elevation <b>5.30</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>75-85 ft.</b>	Top of Well Casing Elevation <b>7.81</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>85 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>85 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

**LITHOLOGY**
**SAMPLING DATA**

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424923.59</b> <b>873358.3</b>	Ground Surface Elevation <b>5.30</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>75-85 ft.</b>	Top of Well Casing Elevation <b>7.81</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>85 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>85 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
25									25
-20			(25.0- 27.5) CLAYEY SAND: Gray sand, medium-fine grained, rock lenses 1-3 inches thick, clay	SC	25-30	2.3			
			(27.5- 28.3) SANDY CLAY: Gray sandy clay, fine grained	CL					
			(28.3- 32.0) SAND: Gray sand, medium-fine grained, trace clay	SW	30-35	2.0			30
			(32.0- 34.5) SAND: Gray sand, medium-fine grained, abundant shell fragments, angular, <1 mm- >4 mm	SP					
-30			(34.5- 38.5) SAND: Light gray, fine sand, trace clay	SW	35-40	2.6			35
			(38.5- 41.0) SAND: Sand with fractured bedrock pieces, 1-8 inches thick	SP	40-45	3.7			40
			(41.0- 50.0) SAND: Gray sand, fine grained, some rock lenses 0.5-2 inches thick	SP					
-40					45-50	3.5			45
50									50





<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424923.59</b> <b>873358.3</b>	Ground Surface Elevation <b>5.30</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>75-85 ft.</b>	Top of Well Casing Elevation <b>7.81</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>85 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>85 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
50			(50.0- 60.0) SAND: Gray sand, medium-fine grained, trace silt, some quartz gravel, subrounded 1-6 mm	SP	50-55	3.5			50
			same as above, with shell fragments						
-50			(had trouble with having sands coming into drill casing.)		55-60	3.4			55
			(60.0- 70.0) SAND: Light gray sand, medium-fine grained, well sorted, subrounded quartz grains	SW	60-65	4.8			60
					65-70	5.9			65
-60			(70.0- 74.5) SAND: Gray sand, medium-fine grained, moderate odor like degraded paint thinner	SW	70-75	17.7			70
				SC					75
75								Fine Sand: 71-73' #2 Silica Sand: 73-85'	75



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-55D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>424923.59</b> <b>873358.3</b>	Ground Surface Elevation <b>5.30</b>	
	Drilling Equipment <b>Geoprobe 8140LS</b>	Well Screen Interval <b>75-85 ft.</b>	Top of Well Casing Elevation <b>7.81</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>85 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>12/2/13</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>85 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>B. Moss</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>12/3/13</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
75									75
-70			(74.5- 76.0) SAND: Light gray sand, medium-fine grained, some clay	SW	75-80	20.7		Well Screen: 75-85'	
			(76.0- 85.0) SAND: Light gray sand, medium-fine grained, trace clay		80-85	24.2			
-80									80
-85			End of boring at 85 ft. bgs.					Well set at 85 ft. bgs. with 10 ft of screen.	85
-90									90
-95									95
-100									100

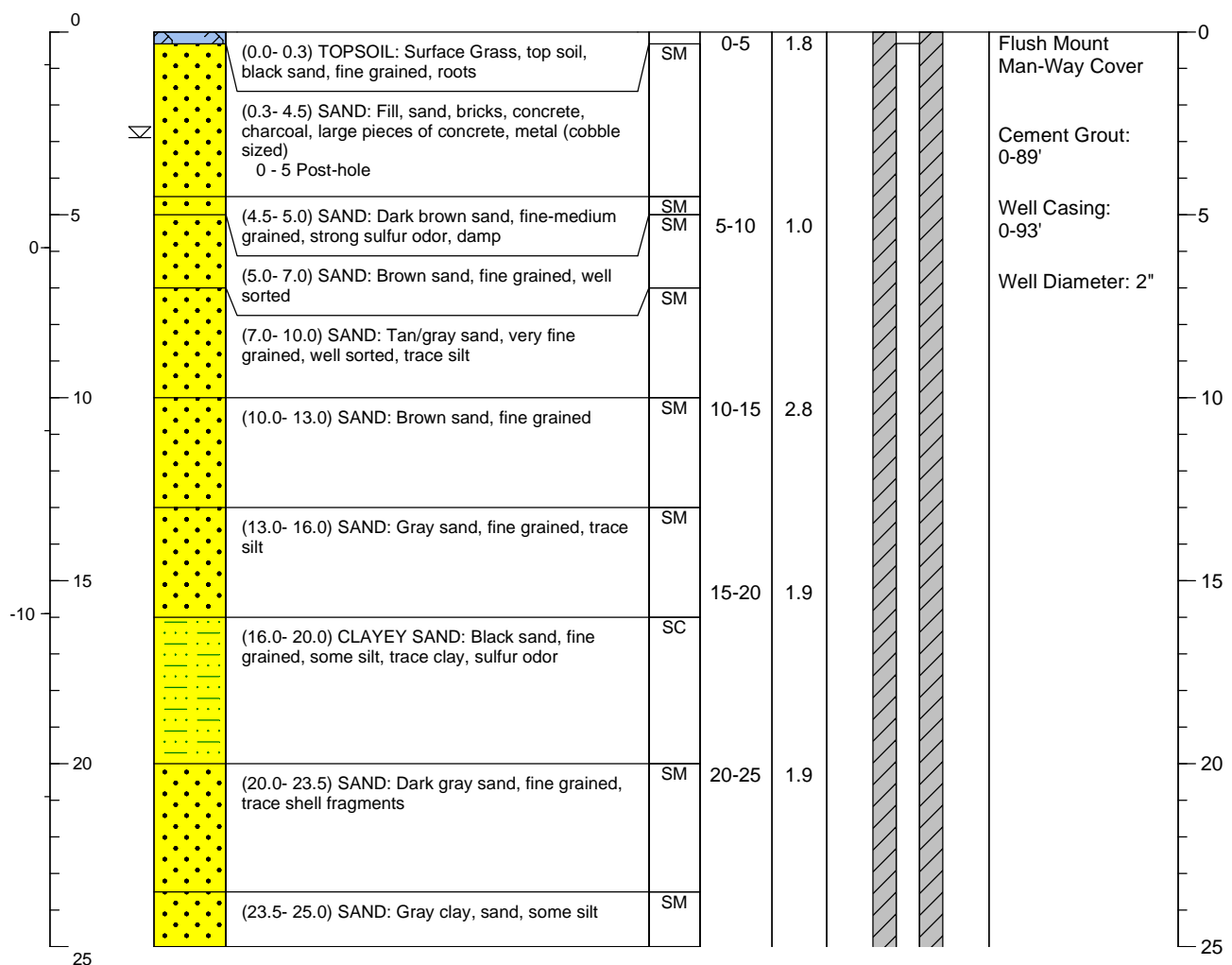


<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-56D	
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting	<b>425399.45</b> <b>873177.19</b>	Ground Surface Elevation <b>5.90</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>93-103 ft.</b>		Top of Well Casing Elevation <b>5.58</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>		Total Well Depth <b>103 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/8/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>		Boring Depth <b>105 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/8/14</b>	Sampling Method <b>Continuous Cores</b>		Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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Project Name			Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia					MW-56D	
Address	Drilling Contractor/License	Northing	425399.45	Ground Surface Elevation		
2801 Cook Street	Groundwater Protection	Easting	873177.19	5.90		
Brunswick	Georgia	Drilling Equipment	Well Screen Interval	Top of Well Casing Elevation		
	Roto Sonic	93-103 ft.		5.58		
GA EPD Number	Drilling Method	Well Screen Slot Size		Total Well Depth		
GAD004065520	Roto Sonic	0.01 inch		103 ft.		
Logged By H. Hight	Date Drilling Started	Well Casing Diameter and Type		Boring Depth	Boring Dia.	
Approved By C. Weaver	7/8/14	2 in. SCH 40 PVC		105 ft.	6 in.	
Driller Name A. Hak	Date Drilling Completed	Sampling Method		Headspace Monitoring Device		
Project Number WBS2014B2	7/8/14	Continuous Cores		PID		

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
25									25
-20			(25.0- 30.8) SANDY CLAY: Gray clay, sand, silt	CL	25-30	2.0			
-30			(30.8- 33.0) SAND: Gray sand, fine grained	SM	30-35	2.7			30
			(33.0- 34.0) SAND: Gray sand medium-fine grained, some shell fragments (30%), angular	SM					
-35			(34.0- 36.0) CLAYEY SAND: Gray sand, medium-fine grained, some shell fragments, some clay	SC	35-40	1.8			35
-30			(36.0- 36.3) ROCK: 3-inches of rock	SM					
			(36.3- 40.0) SAND: Gray sand, medium-fine grained, few pieces of rock, gravel size.						
-40			(40.0- 52.0) SAND: Gray sand, fine grained	SM	40-45	0.9			40
-45					45-50	0.4			45
-50									50



Project Name Ashland Brunswick Georgia			Monitoring Well Construction Log		Well Number MW-56D	
Address 2801 Cook Street Brunswick Georgia		Drilling Contractor/License Groundwater Protection	Northing Easting	425399.45 873177.19	Ground Surface Elevation 5.90	
		Drilling Equipment Roto Sonic	Well Screen Interval 93-103 ft.		Top of Well Casing Elevation 5.58	
GA EPD Number GAD004065520		Drilling Method Roto Sonic	Well Screen Slot Size 0.01 inch		Total Well Depth 103 ft.	
Logged By H. Hight Approved By C. Weaver		Date Drilling Started 7/8/14	Well Casing Diameter and Type 2 in. SCH 40 PVC		Boring Depth 105 ft.	Boring Dia. 6 in.
Driller Name A. Hak Project Number WBS2014B2		Date Drilling Completed 7/8/14	Sampling Method Continuous Cores		Headspace Monitoring Device PID	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
50					50-55	1.9			50
			(52.0- 52.3) ROCK: 2-inches of rock	SM					
			(52.3- 55.0) SAND: Gray sand, medium-fine grained, pieces of rock						
-50			(55.0- 60.0) SANDY CLAY: Gray sandy clay, stiff, several rock lenses 1-2 inches thick	CL	55-60	3.8			55
-60			(60.0- 72.0) SAND: Gray sand, medium-fine grained, dark black grains	SM	60-65	2.2			60
-65					65-70	3.1			65
-70					70-75	2.9			70
-75			(72.0- 73.5) SANDY CLAY: Gray sandy clay, medium grained, stiff	CL					75
			(73.5- 79.2) SAND: Gray sand, medium grained, trace clay	SM					



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-56D	
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting	<b>425399.45</b> <b>873177.19</b>	Ground Surface Elevation <b>5.90</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>93-103 ft.</b>		Top of Well Casing Elevation <b>5.58</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>		Total Well Depth <b>103 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/8/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>		Boring Depth <b>105 ft.</b>	Boring Dia. <b>6 in.</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/8/14</b>	Sampling Method <b>Continuous Cores</b>		Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

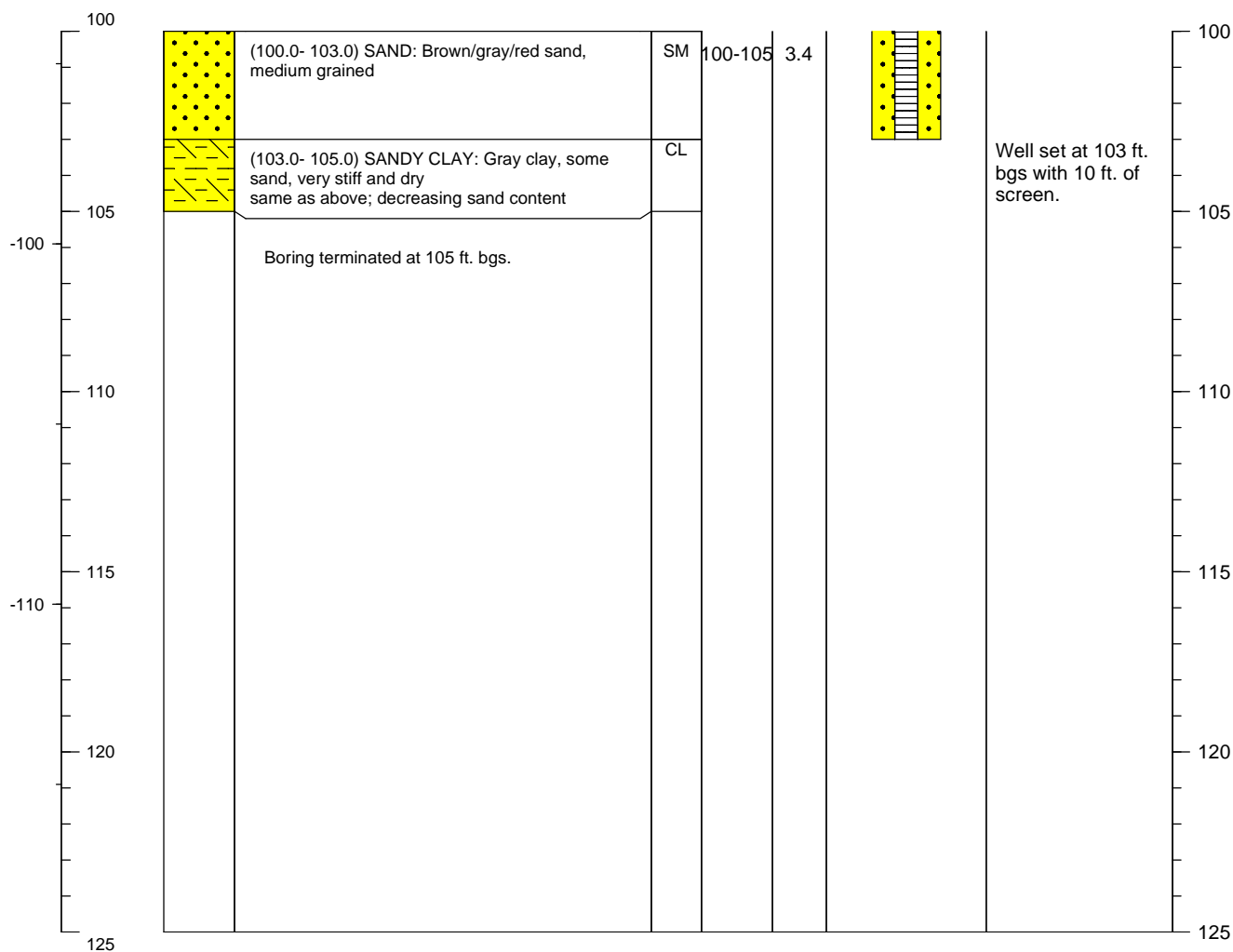
Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
75					75-80	2.0			75
-70									
			(79.2- 80.0) SANDY CLAY: Gray sandy clay, medium grained, stiff	CL	80-85	2.2			80
-80			(80.0- 90.0) SAND: Gray sand, medium grained	SM					
					85-90	2.6			85
-85									
-90			(90.0- 100.0) CLAYEY SAND: Gray sand, medium grained, some pieces of rock, sub angular, few lumps of clay	SC	90-95	1.6			90
								Fine Sand: 89-91'	
-95					95-100	3.4		#2 Silica Sand: 91-103'	
								Well Screen: 93-103'	
-90									95
-95									
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Project Name			Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia					MW-56D	
Address	Drilling Contractor/License	Northing	425399.45	Ground Surface Elevation		
2801 Cook Street	Groundwater Protection	Easting	873177.19	5.90		
Brunswick	Georgia	Drilling Equipment	Well Screen Interval	Top of Well Casing Elevation		
	Roto Sonic	93-103 ft.		5.58		
GA EPD Number	Drilling Method	Well Screen Slot Size		Total Well Depth		
GAD004065520	Roto Sonic	0.01 inch		103 ft.		
Logged By H. Hight	Date Drilling Started	Well Casing Diameter and Type		Boring Depth	Boring Dia.	
Approved By C. Weaver	7/8/14	2 in. SCH 40 PVC		105 ft.	6 in.	
Driller Name A. Hak	Date Drilling Completed	Sampling Method		Headspace Monitoring Device		
Project Number WBS2014B2	7/8/14	Continuous Cores		PID		

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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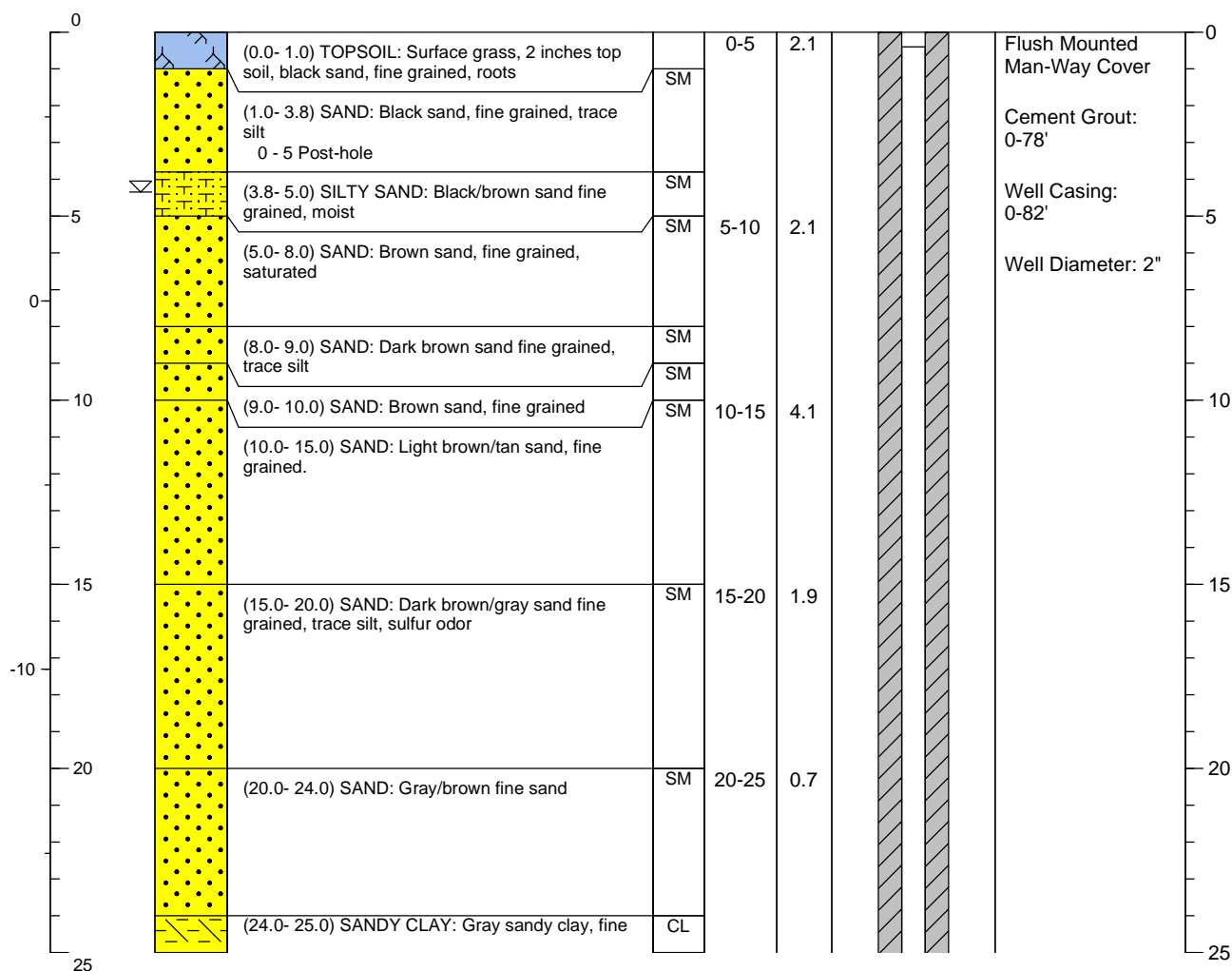


Project Name			Monitoring Well Construction Log		Well Number	
Ashland Brunswick Georgia					MW-57D	
Address	Drilling Contractor/License	Northing	425877.55	Ground Surface Elevation		
2801 Cook Street	Groundwater Protection	Easting	872717.34	7.30		
Brunswick	Georgia	Drilling Equipment	Well Screen Interval	Top of Well Casing Elevation		
	Roto Sonic	82-92 ft.		6.90		
GA EPD Number	Drilling Method	Well Screen Slot Size		Total Well Depth		
GAD004065520	Roto Sonic	0.01 inch		92 ft.		
Logged By H. Hight	Date Drilling Started	Well Casing Diameter and Type		Boring Depth	Boring Dia.	
Approved By C. Weaver	7/9/14	2 in. SCH 40 PVC		95 ft.	7/8/14	
Driller Name A. Hak	Date Drilling Completed	Sampling Method		Headspace Monitoring Device		
Project Number WBS2014B2	7/9/14	Continuous Cores		PID		

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
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<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-57D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>425877.55</b> <b>872717.34</b>	Ground Surface Elevation <b>7.30</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>82-92 ft.</b>	Top of Well Casing Elevation <b>6.90</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>92 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/9/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>95 ft.</b>	Boring Dia. <b>7/8/14</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/9/14</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
25									25
			grained						
			(25.0- 28.5) SANDY CLAY: Dark gray sandy clay, fine grained, some silt	CL	25-30	0.2			
-20									
			(28.5- 30.0) SANDY CLAY: Dark gray clay, fine sand, stiff	CL					
			(30.0- 31.0) CLAYEY SAND: Gray fine sand, some clay	SC	30-35	1.0			30
			(31.0- 33.0) SANDY CLAY: Gray sandy clay, some silt	CL					
			(33.0- 36.0) CLAYEY SAND: Gray sandy clay, fine grained	SC					
					35-40	0.4			35
-30			(36.0- 38.0) CLAYEY SAND: Gray fine sand, some clay	SC					
			(38.0- 40.0) SAND: Gray fine sand	SM					
-40			(40.0- 42.0) CLAYEY SAND: Gray fine-coarse sand, clay, angular gravel	SC	40-45	1.6			40
			(42.0- 43.0) CLAYEY SAND: Dark gray clay, some fine sand, stiff	SC					
			(43.0- 45.0) CLAYEY SAND: Dark gray fine sand, clay, moderately stiff	SC					
-45			(45.0- 50.0) CLAYEY SAND: Gray medium-fine sand, some clay	SC	45-50	0.7			45
-50									50



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-57D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>425877.55</b> <b>872717.34</b>	Ground Surface Elevation <b>7.30</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>82-92 ft.</b>	Top of Well Casing Elevation <b>6.90</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>92 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/9/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>95 ft.</b>	Boring Dia. <b>7/8/14</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/9/14</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
50			(50.0- 50.5) SANDY CLAY: Gray, sandy clay, fine grained, stiff	CL	50-55	1.8			50
			(50.5- 54.0) SAND: Gray fine sand, trace clay	SM					
			(54.0- 55.0) CLAYEY SAND: Gray clayey medium-fine sand, very stiff	SC	55-60	0.9			55
			(55.0- 59.0) CLAYEY SAND: Gray clayey medium-coarse sand, rounded grains, very stiff	SC					
-50			(59.0- 60.0) SANDY CLAY: Gray sandy clay, medium grained, stiff	CL	60-65	1.0			60
			(60.0- 65.0) SAND: Gray fine sand, trace clay	SM					
			(65.0- 80.0) SAND: Gray medium sand, some angular shell fragments (<1 mm diam.), loose	SM	65-70	2.4			65
-60									
					70-75	0.4			70
-70									
-75									75



<b>Project Name</b> Ashland Brunswick Georgia		<b>Monitoring Well Construction Log</b>		<b>Well Number</b> MW-57D
Address <b>2801 Cook Street</b> <b>Brunswick Georgia</b>	Drilling Contractor/License <b>Groundwater Protection</b>	Northing Easting <b>425877.55</b> <b>872717.34</b>	Ground Surface Elevation <b>7.30</b>	
	Drilling Equipment <b>Roto Sonic</b>	Well Screen Interval <b>82-92 ft.</b>	Top of Well Casing Elevation <b>6.90</b>	
GA EPD Number <b>GAD004065520</b>	Drilling Method <b>Roto Sonic</b>	Well Screen Slot Size <b>0.01 inch</b>	Total Well Depth <b>92 ft.</b>	
Logged By <b>H. Hight</b> Approved By <b>C. Weaver</b>	Date Drilling Started <b>7/9/14</b>	Well Casing Diameter and Type <b>2 in. SCH 40 PVC</b>	Boring Depth <b>95 ft.</b>	Boring Dia. <b>7/8/14</b>
Driller Name <b>A. Hak</b> Project Number <b>WBS2014B2</b>	Date Drilling Completed <b>7/9/14</b>	Sampling Method <b>Continuous Cores</b>	Headspace Monitoring Device <b>PID</b>	

### LITHOLOGY

### SAMPLING DATA

Elevation	Depth	Graphic Log	Visual Description	USCS	Sample Interval (ft)	Headspace (ppm)	Well Diagram	Well Details	Depth
75					75-80	0.9			75
-70									
-80			(80.0- 90.0) SAND: Gray medium sand, some black grains, loose	SM	80-85	1.3		Fine Sand: 78-80'	-80
-85					85-90	3.0		#2 Silica Sand: 80-95'	-85
-90			(90.0- 91.5) CLAYEY SAND: Gray fine sand, some clay	SC	90-95	5.8		Well Screen: 82-92'	-90
-95			(91.5- 91.8) ROCK: 2 inches of rock	CL					-95
			(91.8- 95.0) SANDY CLAY: Clayey medium sand, very stiff and dry					Well set at 92 ft. bgs. with 10 ft of screen.	
-95			Boring terminated at 95 ft. bgs.						-95
-90									
100									100

