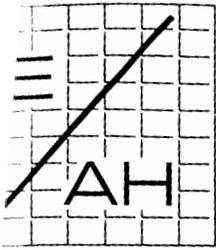


N61165.AR.002891
CNC CHARLESTON
5090.3a

LETTER TRANSMITTING THIRD ROUND MONITORING WELL LOGS AND WELL
DEVELOPMENT LOGS AT SOLID WASTE MANAGEMENT UNITS 39 AND 43 CNC
CHARLESTON SC
10/28/1996
ENSAFE/ ALLEN AND HOSHALL



EnSafe / Allen & Hoshall

a joint venture for professional services

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Fax (214) 791-0405

October 28, 1996

Paul Bergstrand
Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste
8901 Farrow Road
Columbia, South Carolina 29203

**RE: Submittal of Third Round Monitoring Well Logs and Well Development
Logs at SWMU 39**

Dear Mr. Bergstrand:

On behalf of the Caretakers Site Office, EnSafe/Allen & Hoshall is submitting copies of the well construction logs and well development logs for the seven (7) monitoring wells (4 intermediate, 3 deep) installed in the vicinity of SWMU 39 in Zone A at Naval Base Charleston in accordance with the monitoring well permit (approval number HW-96-0080). These wells were installed between September 15-18, 1996. Enclosed is a well location figure at SWMU 39.

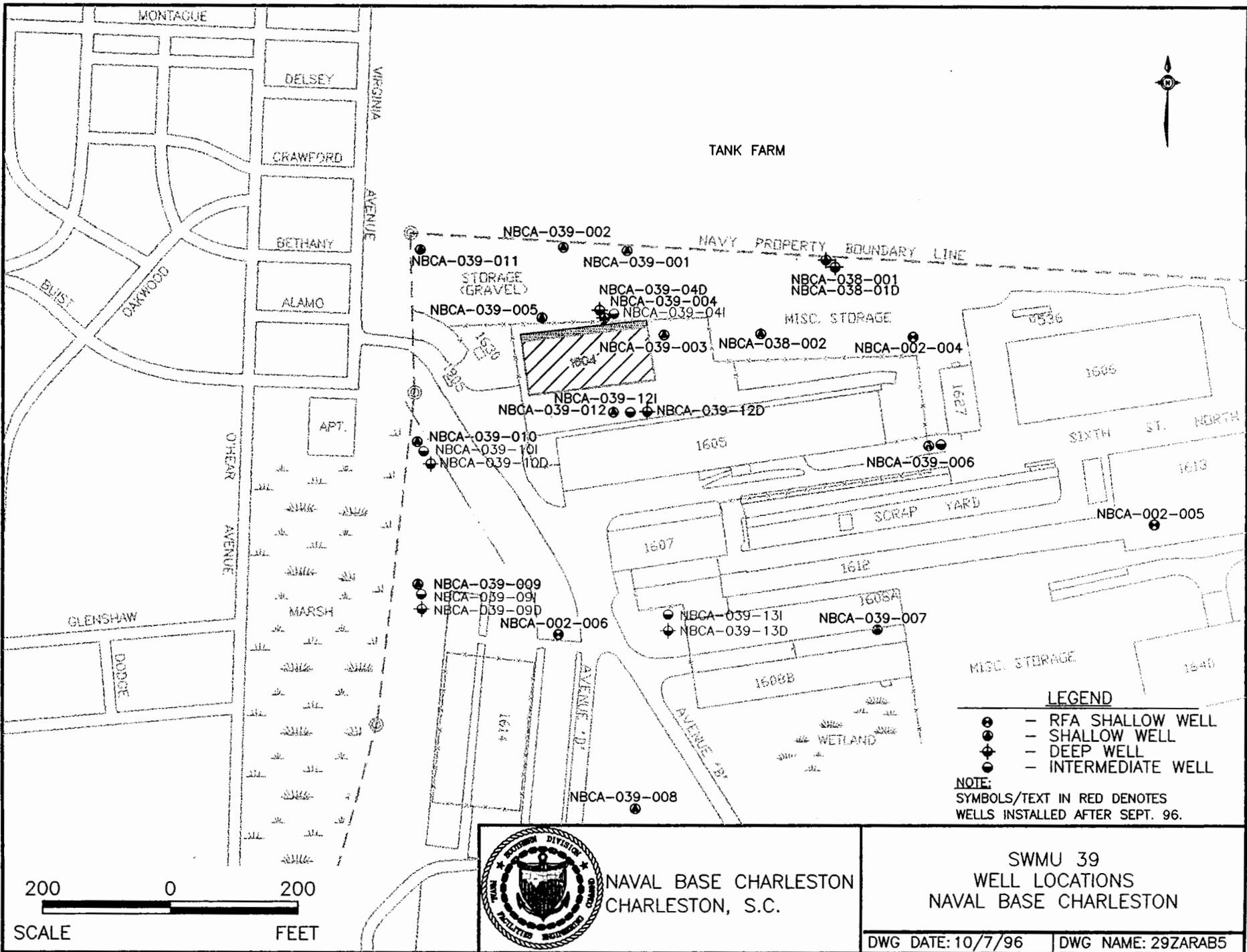
If you have any questions or if we can be of further assistance, please do not hesitate to contact us at (803)-884-0029..

Sincerely,
EnSafe/Allen & Hoshall
A Joint Venture in Professional Service

By: Todd K. Kafka
Hydrogeologist

enclosures

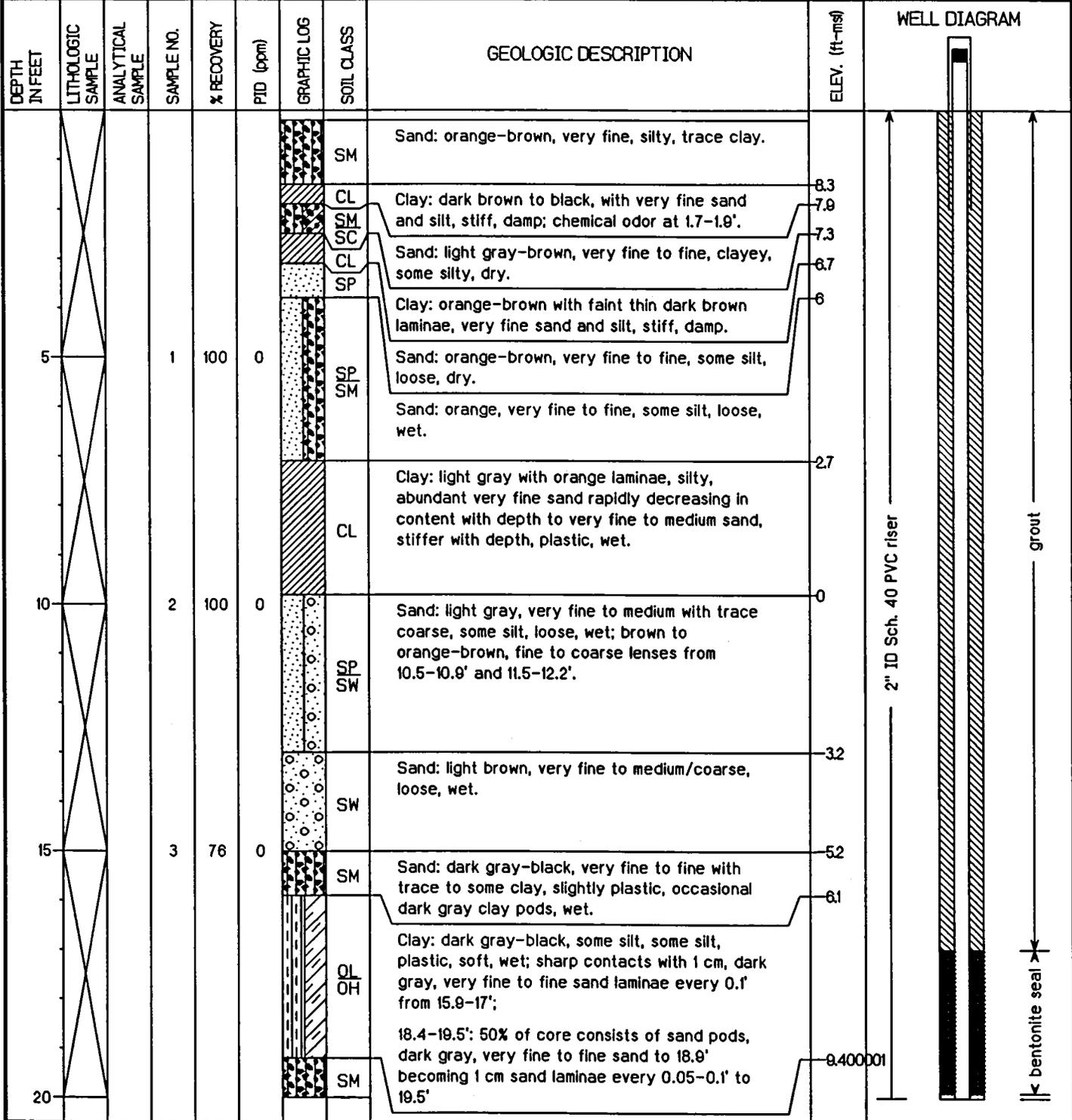
cc: Commander Phil Dalby, Officer In Charge, Caretakers Site Office
Tony Hunt, SOUTHDIV
Lawson Anderson, E/A&H
Project file 2901-08420



EnSafe/Allen & Hoshall

Monitoring Well NBCA03904I

Project: ZONE A - Naval Base Charleston	Coordinates: 2315416.19 E, 381667.85 N
Location: Charleston, SC	Surface Elevation: 9.8 feet msl
Started at 1015 on 9-15-96	TOC Elevation: 9.22 feet msl
Completed at 1230 on 9-15-96	Depth to Groundwater: 1.94 feet TOC Measured: 10/16/96
Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)	Groundwater Elevation: 7.28 feet msl
Drilling Company: Boart Longyear	Total Well Depth: 31.5 feet bgs
Geologist: P. Bayley	Well Screen: 21.7 to 30.7 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03904I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315416.19 E, 381667.85 N

Location: Charleston, SC

Surface Elevation: 9.8 feet msl

Started at 1015 on 9-15-96

TOC Elevation: 9.22 feet msl

Completed at 1230 on 9-15-96

Depth to Groundwater: 1.94 feet TOC Measured: 10/16/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

Groundwater Elevation: 7.28 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 31.5 feet bgs

Geologist: P. Bayley

Well Screen: 21.7 to 30.7 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
25			4	85	0		SM	Sand: gray, very fine to fine with trace medium, silty to 20.8' then decreasing with depth, loose, wet; 1 cm dark gray clay laminae from 19.8-20.1'.	13.7	<p>0.01 slot PVC screen 2" ID Sch. 40 PVC riser end cap hole plug #7 sand</p>
25							SP SM	Sand: gray, very fine to fine trace medium, trace to some silt, loose, wet.	15.2	
30							OL OH	Clay: dark gray-black, some silt, stiff, plastic, wet. 31.3-31.5': dark gray, very fine to fine, silty sand lense with occasional clay pods.	18.6	
35			5	99	0				25.2	
40										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03909D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315131.57 E, 381217.19 N

Location: Charleston, SC

Surface Elevation: 7.0 feet msl

Started at 0900 on 9-17-96

TOC Elevation: 9.38 feet msl

Completed at 1210 on 9-17-96

Depth to Groundwater: 6.75 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

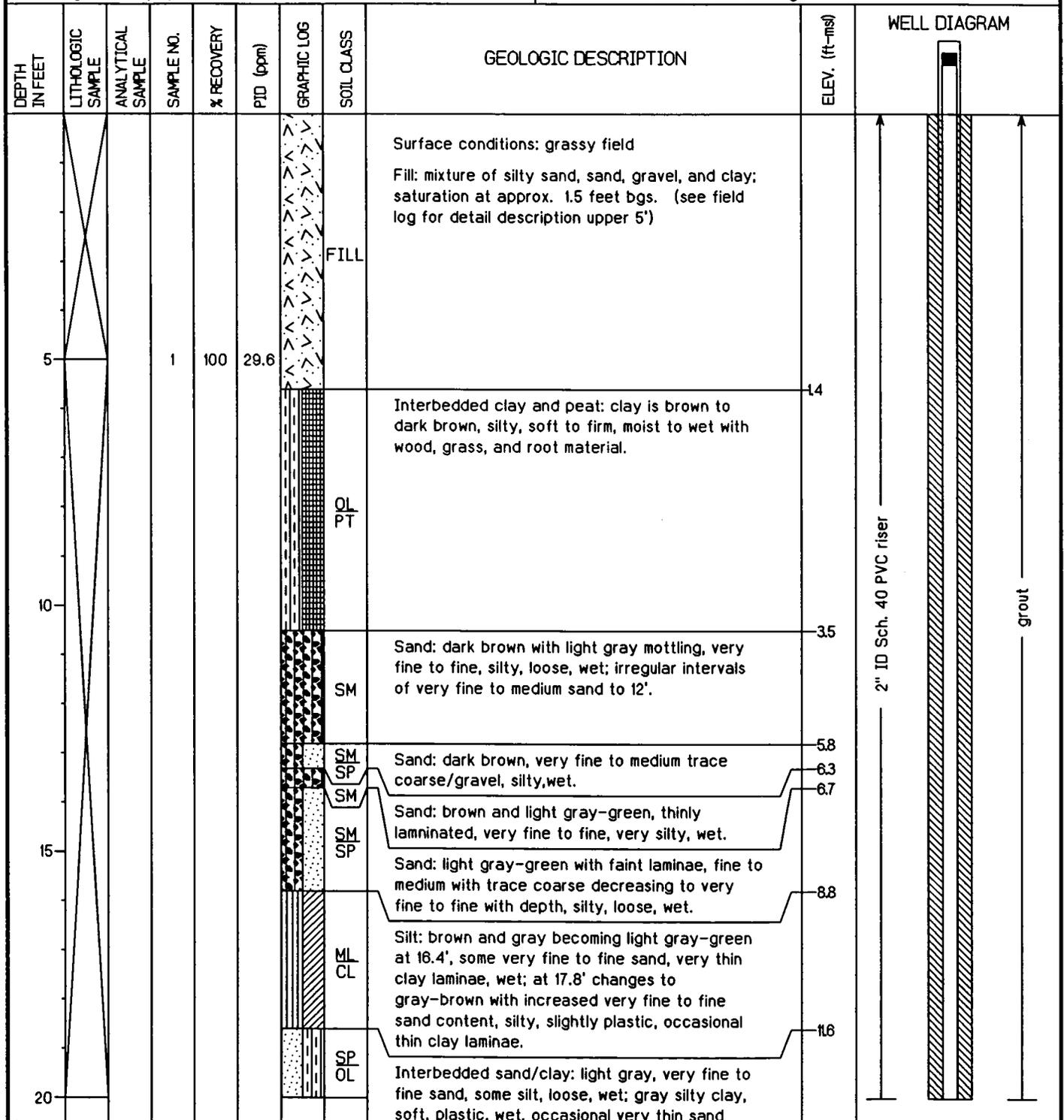
Groundwater Elevation: 2.63 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 46.0 feet bgs

Geologist: P. Bayley

Well Screen: 35.7 to 45.5 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03909D

Project: ZONE A - Naval Base Charleston

Coordinates: 231513157 E, 381217.19 N

Location: Charleston, SC

Surface Elevation: 7.0 feet msl

Started at 0900 on 9-17-96

TOC Elevation: 9.38 feet msl

Completed at 1210 on 9-17-96

Depth to Groundwater: 6.75 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

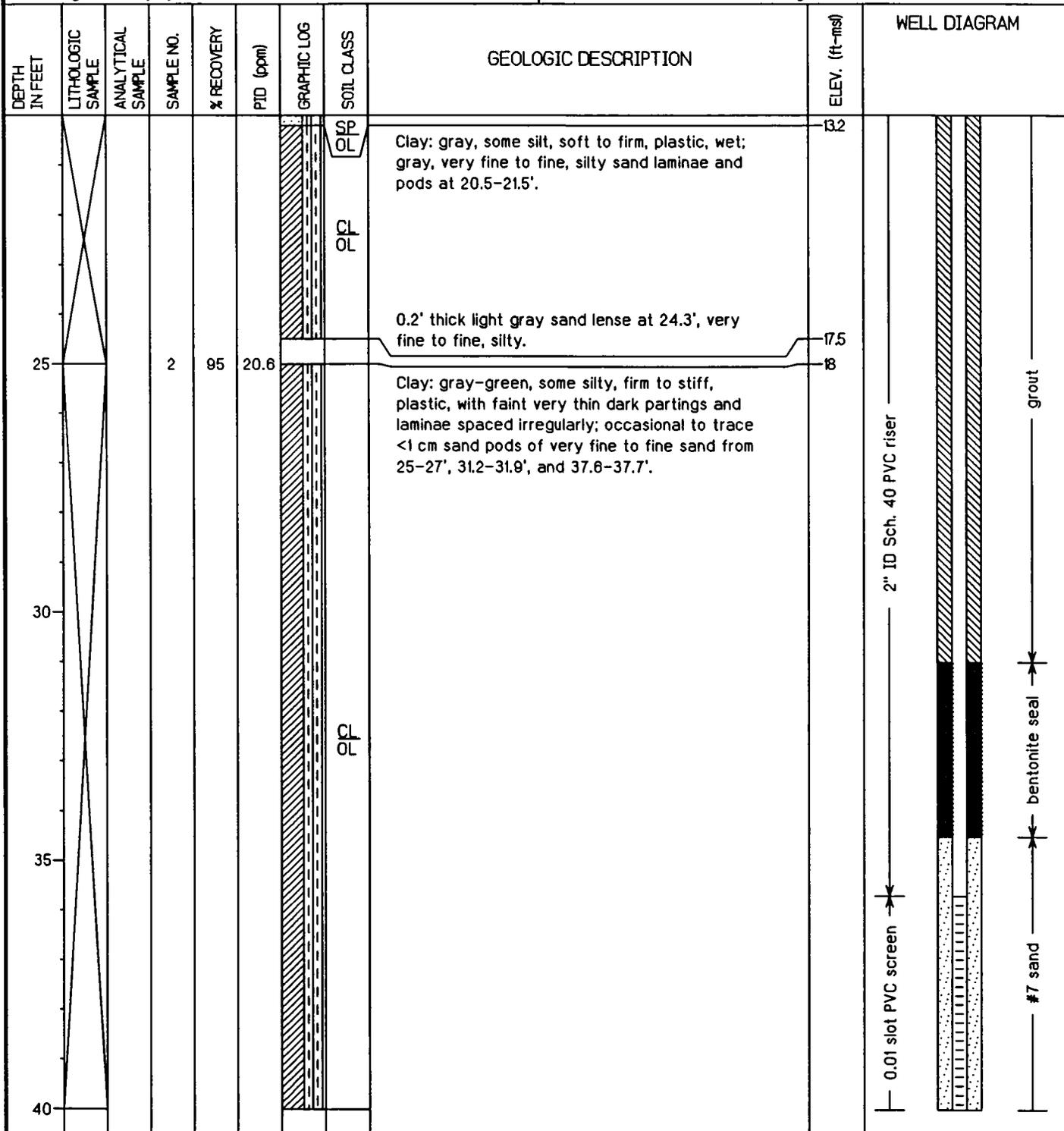
Groundwater Elevation: 2.63 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 46.0 feet bgs

Geologist: P. Bayley

Well Screen: 35.7 to 45.5 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03909D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315131.57 E, 381217.19 N

Location: Charleston, SC

Surface Elevation: 7.0 feet msl

Started at 0900 on 9-17-96

TOC Elevation: 9.38 feet msl

Completed at 1210 on 9-17-96

Depth to Groundwater: 6.75 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

Groundwater Elevation: 2.63 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 46.0 feet bgs

Geologist: P. Bayley

Well Screen: 35.7 to 45.5 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
45			3	100	0		OF	At 41.7', gray, very fine to fine, silty quartz sand laminae becoming very fine to medium with thin clay laminae from 42-43.5'; trace very small shell fragments.	38	
50							CL	Silt: olive-green, clayey, some very fine to fine sand, stiff, plastic, damp; occasional sandy pods and laminae spaced irregularly but increasing in frequency from 54-55'; trace effervescent--Ashley Formation.		
55			4	100	0				47.6	
60										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03909I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315132.67 E, 381229.06 N

Location: Charleston, SC

Surface Elevation: 7.1 feet msl

Started at 1445 on 9-17-96

TOC Elevation: 9.45 feet msl

Completed at 1730 on 9-17-96

Depth to Groundwater: 5.51 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

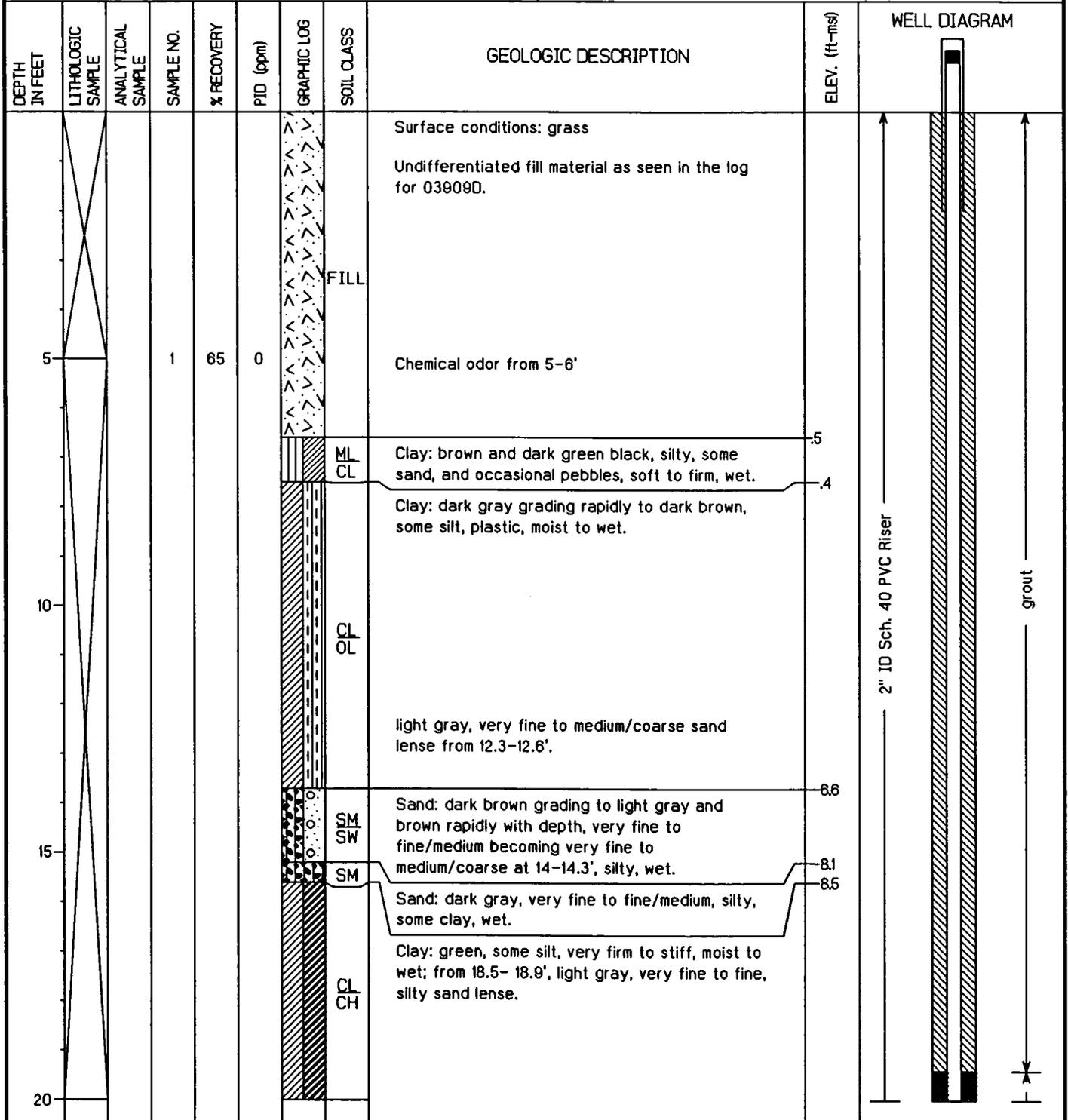
Groundwater Elevation: 3.94 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 33.5 feet bgs

Geologist: P. Bayley

Well Screen: 23.2 to 33.0 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03909I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315132.67 E, 381229.06 N

Location: Charleston, SC

Surface Elevation: 7.1 feet msl

Started at 1445 on 9-17-96

TOC Elevation: 9.45 feet msl

Completed at 1730 on 9-17-96

Depth to Groundwater: 5.51 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

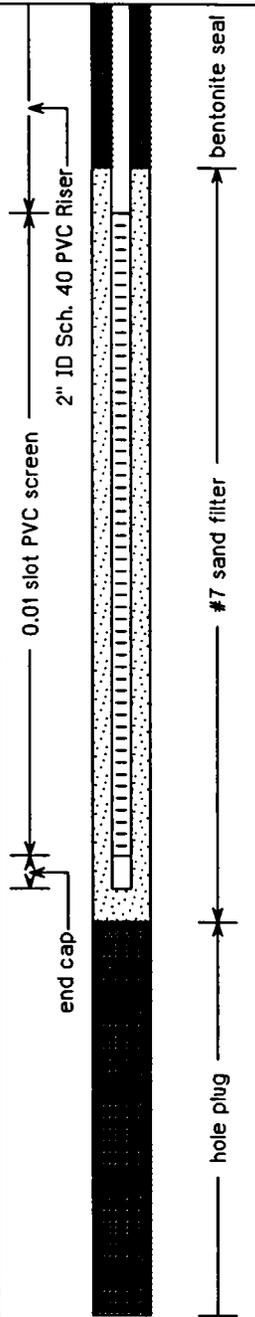
Groundwater Elevation: 3.94 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 33.5 feet bgs

Geologist: P. Bayley

Well Screen: 23.2 to 33.0 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PTD (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
25			2	85	5-6		SP	Clay: gray green as above; very thin sand partings from 25-26.3', 28.4-29.6', and 31.7-32.5'; sharp planar contact into sand laminae at 41.6'.	17.5	 <p>2" ID Sch. 40 PVC Riser</p> <p>0.01 slot PVC screen</p> <p>#7 sand filter</p> <p>bentonite seal</p> <p>hole plug</p> <p>end cap</p>
30							SP		17.9	
35										
40										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03909I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315132.67 E, 381229.06 N

Location: Charleston, SC

Surface Elevation: 7.1 feet msl

Started at 1445 on 9-17-96

TOC Elevation: 9.45 feet msl

Completed at 1730 on 9-17-96

Depth to Groundwater: 5.51 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

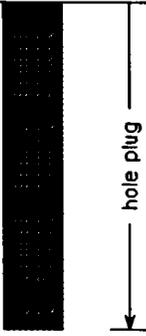
Groundwater Elevation: 3.94 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 33.5 feet bgs

Geologist: P. Bayley

Well Screen: 23.2 to 33.0 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PTD (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
45			3	95	0		OF IF			
							SP	Sand: light gray, very fine to fine with trace medium, loose, wet; 1 cm clayey laminae at 42.1'.	34.8 35.5	
							OF	Clay: dark gray-green, some silt, firm to stiff, plastic, moist to wet; from 42.7-43.3' sand laminae from 1-2 cm in size decreasing in frequency and size with depth.	37.4	
60										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03910D

Project: ZONE A - Naval Base Charleston

Coordinates: 231555.12 E, 381438.55 N

Location: Charleston, SC

Surface Elevation: 10.9 feet msl

Started at 0930 on 9-18-96

TOC Elevation: 13.35 feet msl

Completed at 1130 on 9-18-96

Depth to Groundwater: 9.68 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

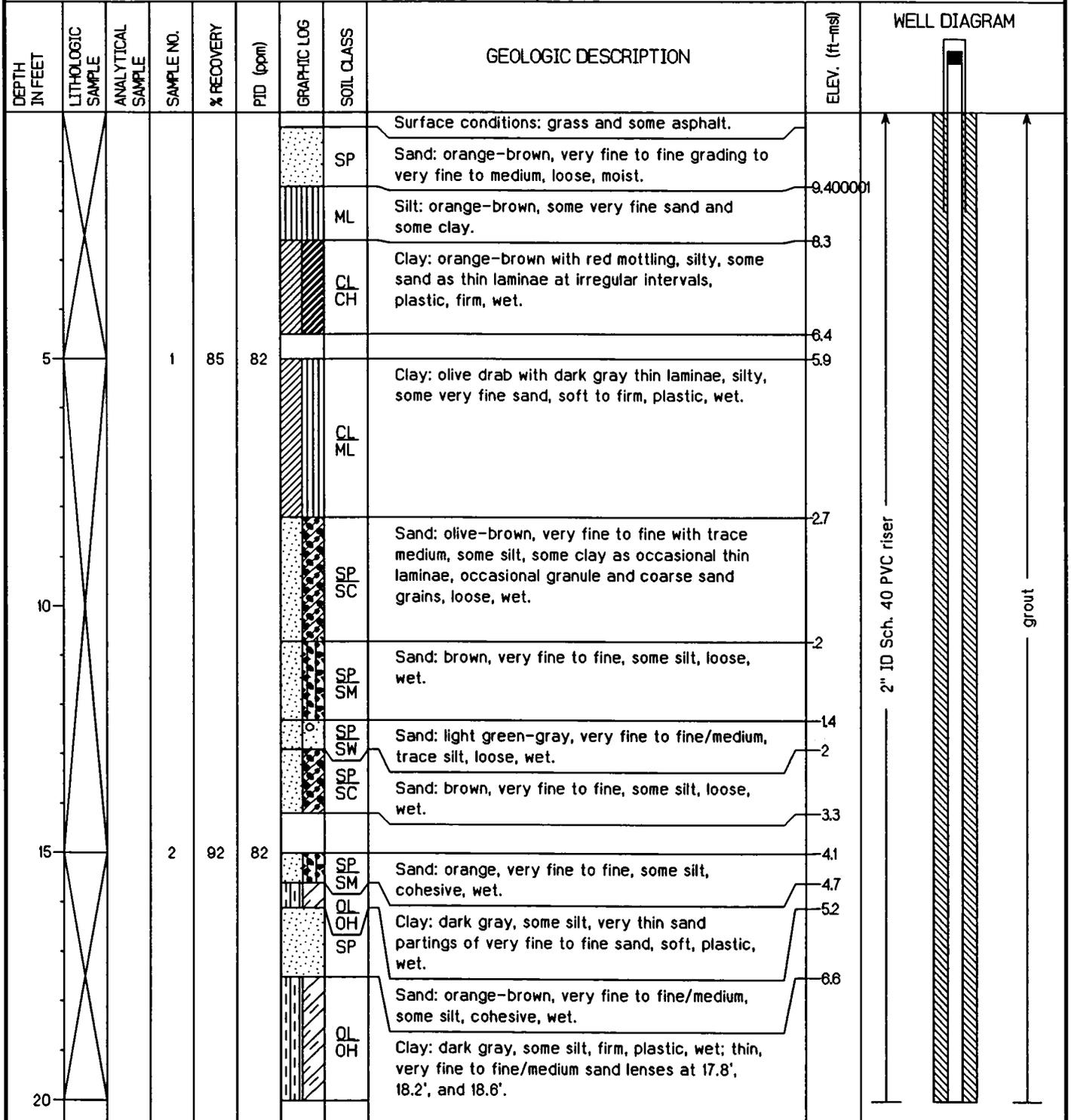
Groundwater Elevation: 3.67 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 41.5 feet bgs

Geologist: P. Bayley

Well Screen: 36.7 to 40.7 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03910D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315155.12 E, 381438.55 N

Location: Charleston, SC

Surface Elevation: 10.9 feet msl

Started at 0930 on 9-18-96

TOC Elevation: 13.35 feet msl

Completed at 1130 on 9-18-96

Depth to Groundwater: 9.68 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

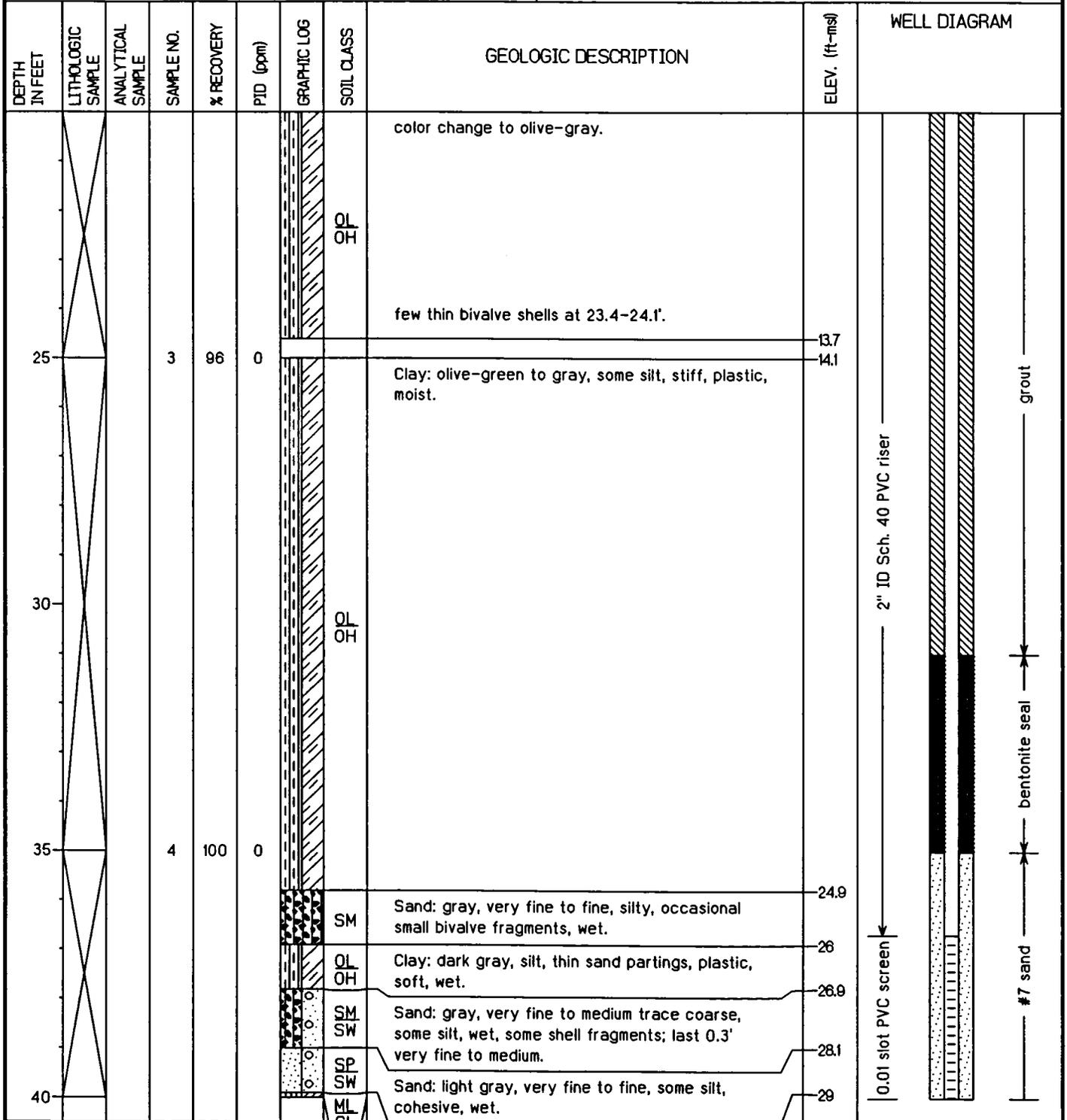
Groundwater Elevation: 3.67 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 41.5 feet bgs

Geologist: P. Bayley

Well Screen: 36.7 to 40.7 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03910D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315155.12 E, 381438.55 N

Location: Charleston, SC

Surface Elevation: 10.9 feet msl

Started at 0930 on 9-18-96

TOC Elevation: 13.35 feet msl

Completed at 1130 on 9-18-96

Depth to Groundwater: 9.68 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

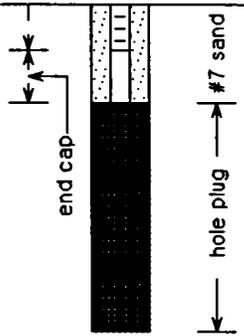
Groundwater Elevation: 3.67 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 41.5 feet bgs

Geologist: P. Bayley

Well Screen: 36.7 to 40.7 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PTD (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
45			4	100	0		CLF	Silt: olive-brown, clayey, trace very fine sand, occasional shell fragments, effervescent with HCl, stiff, plastic, moist--Ashley Fm.	34.1	
50										
55										
60										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03910I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315145.17 E, 381438.55 N

Location: Charleston, SC

Surface Elevation: 10.9 feet msl

Started at 1410 on 9-16-96

TOC Elevation: 13.49 feet msl

Completed at 1645 on 9-16-96

Depth to Groundwater: 7.67 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

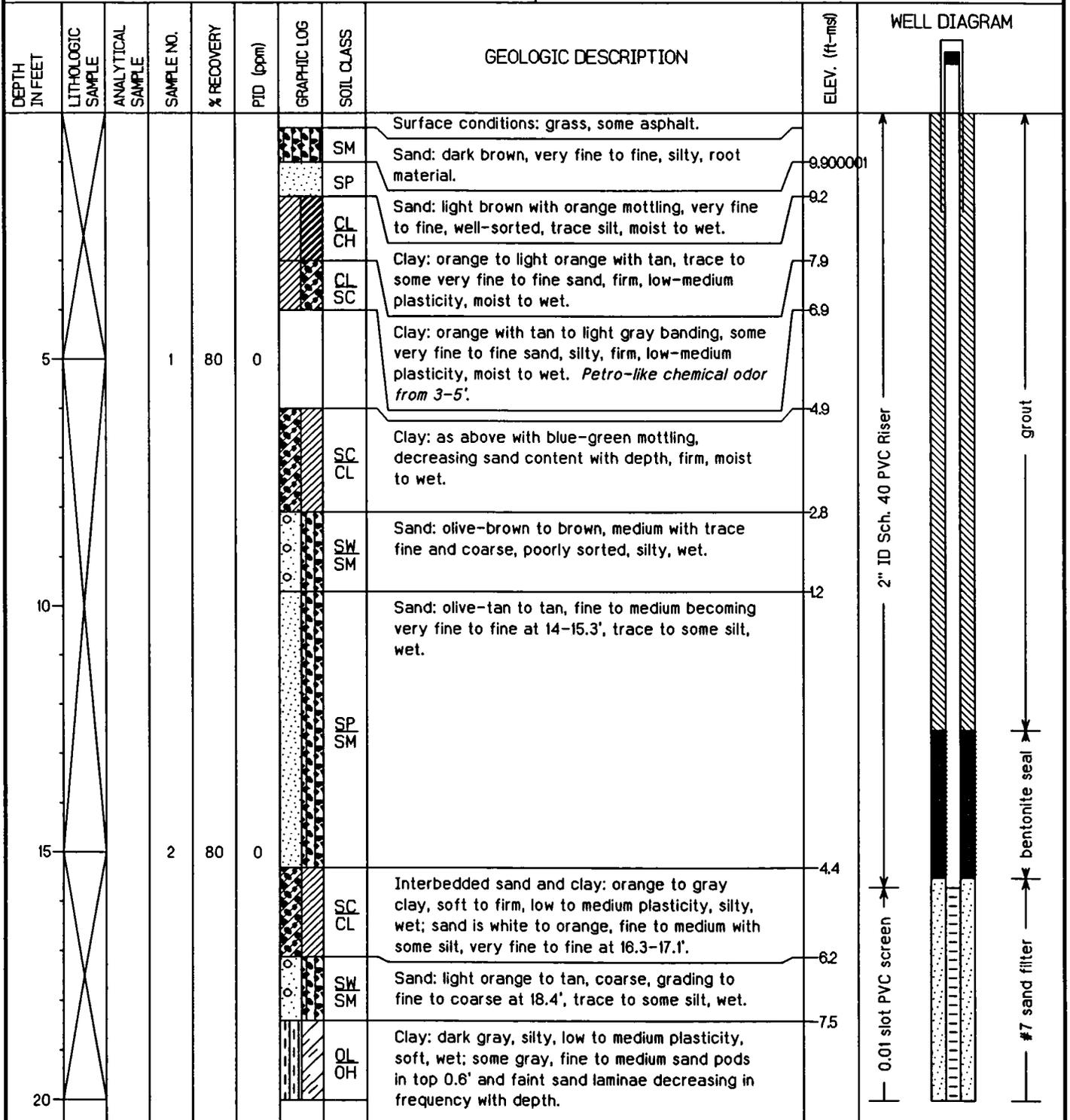
Groundwater Elevation: 5.82 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 26.0 feet bgs

Geologist: T. Kafka

Well Screen: 15.7 to 25.4 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03910I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315145.17 E, 381438.55 N

Location: Charleston, SC

Surface Elevation: 10.9 feet msl

Started at 1410 on 9-16-96

TOC Elevation: 13.49 feet msl

Completed at 1645 on 9-16-96

Depth to Groundwater: 7.67 feet TOC Measured: 9/28/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

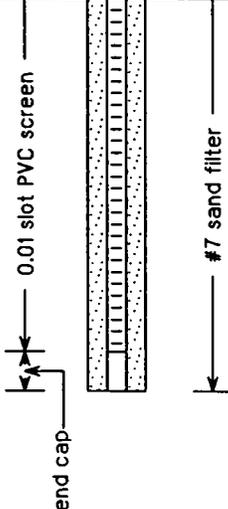
Groundwater Elevation: 5.82 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 26.0 feet bgs

Geologist: T. Kafka

Well Screen: 15.7 to 25.4 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
25			3	94	0		OP IF		25	
30										
35										
40										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03913D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315504.92 E, 381173.16 N

Location: Charleston, SC

Surface Elevation: 8.2 feet msl

Started at 0900 on 9-18-96

TOC Elevation: 10.41 feet msl

Completed at 1300 on 9-18-96

Depth to Groundwater: 7.97 feet TOC Measured: 9/29/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

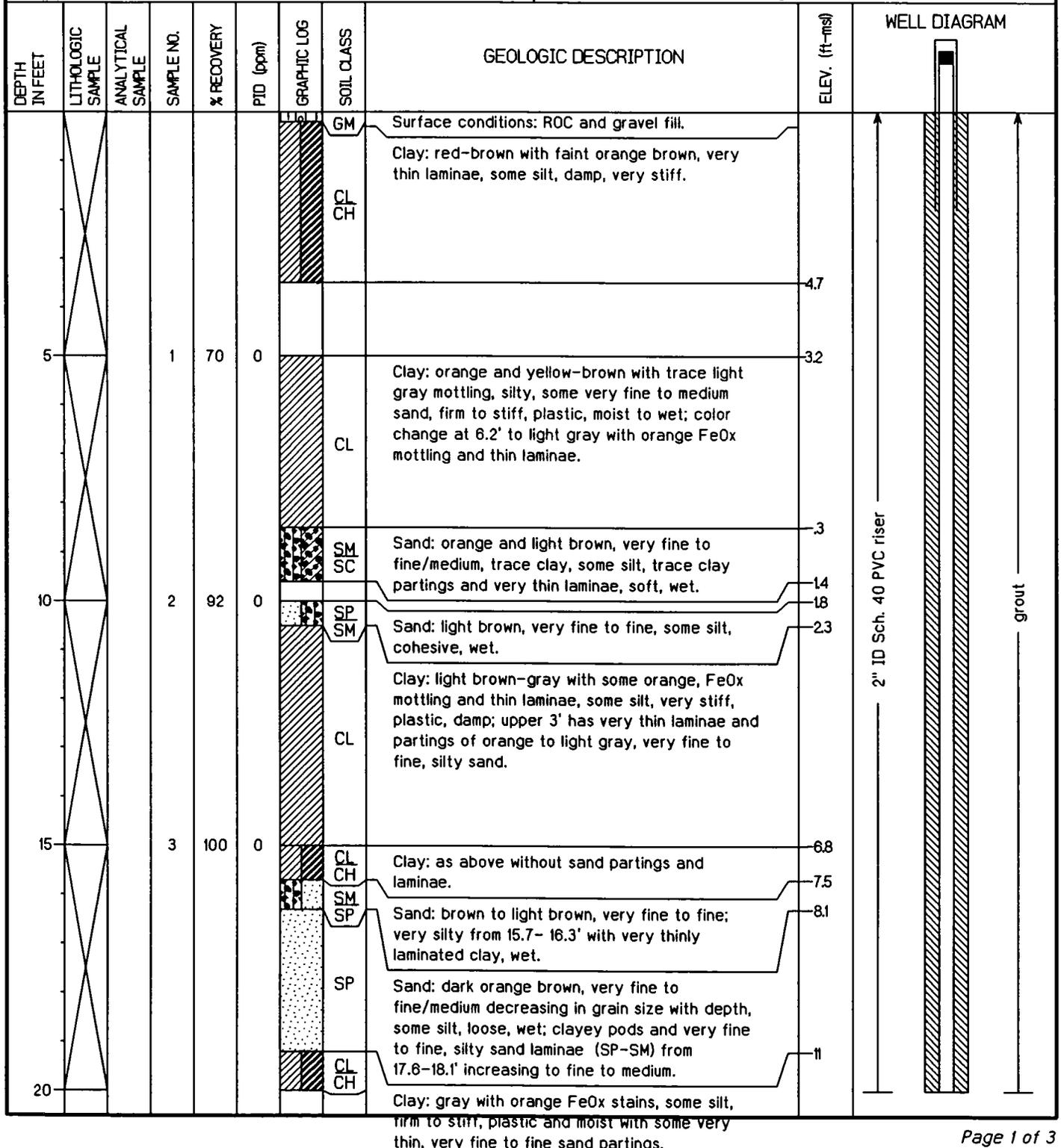
Groundwater Elevation: 2.44 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 52.0 feet bgs

Geologist: P. Bayley

Well Screen: 41.7 to 51.5 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03913D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315504.92 E, 381173.16 N

Location: Charleston, SC

Surface Elevation: 8.2 feet msl

Started at 0900 on 9-18-96

TOC Elevation: 10.41 feet msl

Completed at 1300 on 9-18-96

Depth to Groundwater: 7.97 feet TOC Measured: 9/29/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

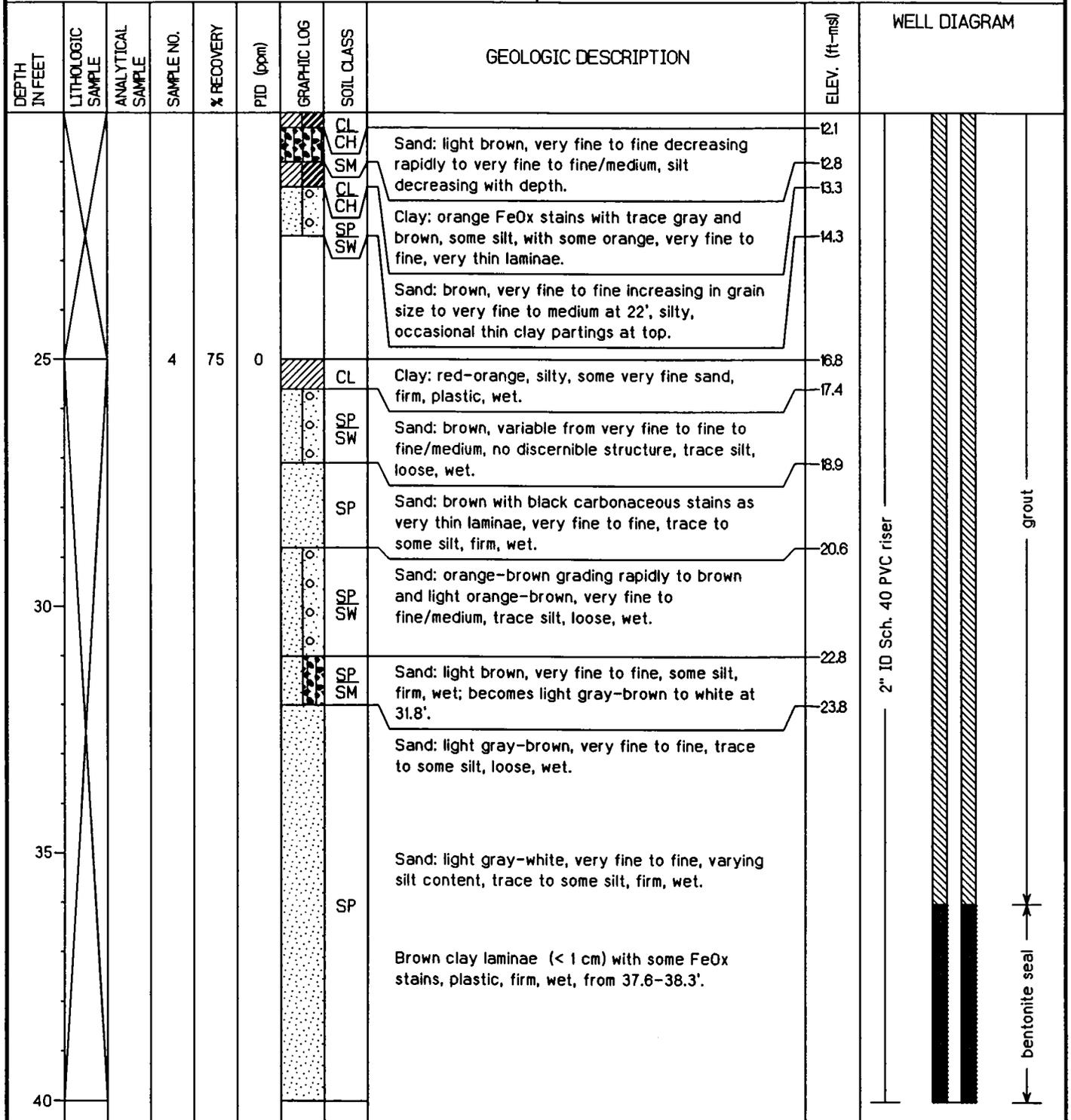
Groundwater Elevation: 2.44 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 52.0 feet bgs

Geologist: P. Bayley

Well Screen: 41.7 to 51.5 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03913D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315504.92 E, 381173.16 N

Location: Charleston, SC

Surface Elevation: 8.2 feet msl

Started at 0900 on 9-18-96

TOC Elevation: 10.41 feet msl

Completed at 1300 on 9-18-96

Depth to Groundwater: 7.97 feet TOC Measured: 9/29/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

Groundwater Elevation: 2.44 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 52.0 feet bgs

Geologist: P. Bayley

Well Screen: 41.7 to 51.5 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
							SP		32.4	
45			5	78	0		SW	Sand: light brown, very fine to medium trace coarse, shell fragments comprise 50-60% matrix.	36.8	
							SP SW	Sand: brown, very fine to fine trace medium with some shell fragments	38.6	
50							GM GC	Gravel: dark gray, granule to 3 cm dia., grain supported with matrix or clayey silt with some phosphatic sand.	40.9	
							ML CL	Silt: olive green-brown, clayey, trace sand from very fine to very coarse, medium plasticity, stiff, effervescent with HCl--Ashley Fm.	42.8	
55			6	89	0				46.8	
60										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03913I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315503.15 E, 381182.56 N

Location: Charleston, SC

Surface Elevation: 8.1 feet msl

Started at 1500 on 9-18-96

TOC Elevation: 10.50 feet msl

Completed at 1640 on 9-18-96

Depth to Groundwater: 8.01 feet TOC Measured: 9/29/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

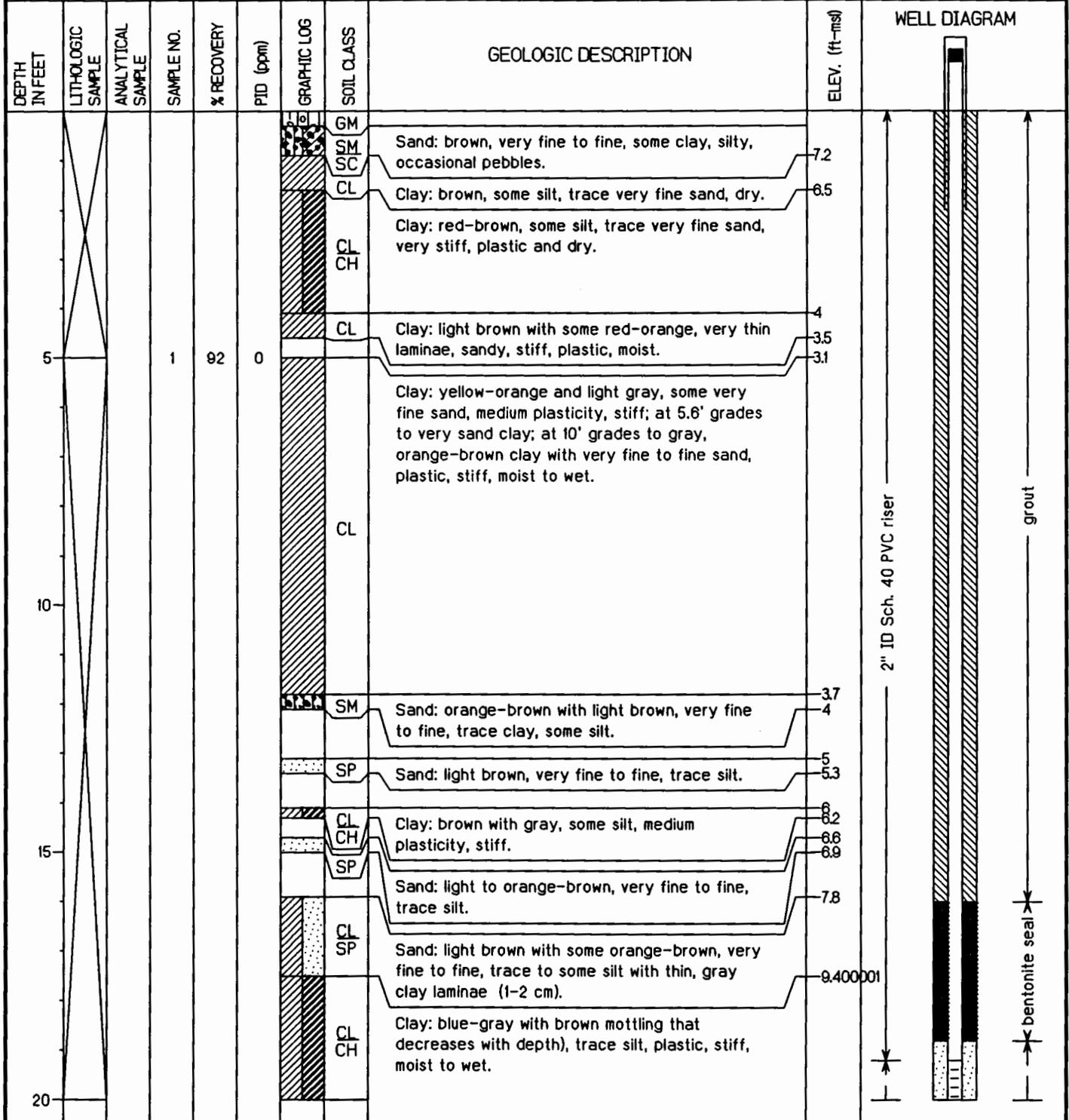
Groundwater Elevation: 2.49 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 24.0 feet bgs

Geologist: P. Bayley

Well Screen: 19 to 23.2 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03913I

Project: ZONE A - Naval Base Charleston

Coordinates: 2315503.15 E, 381182.56 N

Location: Charleston, SC

Surface Elevation: 8.1 feet msl

Started at 1500 on 9-18-96

TOC Elevation: 10.50 feet msl

Completed at 1640 on 9-18-96

Depth to Groundwater: 8.01 feet TOC Measured: 9/29/96

Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)

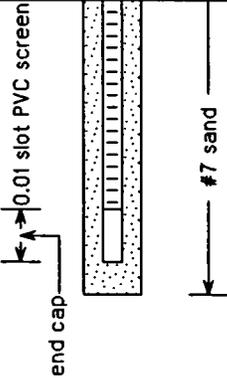
Groundwater Elevation: 2.49 feet msl

Drilling Company: Boart Longyear

Total Well Depth: 24.0 feet bgs

Geologist: P. Bayley

Well Screen: 19 to 23.2 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PTID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
25			2	85	0		CL	Clay: brown, some silt, stiff, plastic, wet; very fine to fine sand from 24.3-24.4'.	5.8	
							SP		Sand: orange-brown, very fine to fine, trace silt, loose, wet.	
							CL		6.3	
							SP			

**ENSAFE / ALLEN & HOSHALL
 NAVAL BASE CHARLESTON
 WELL DEVELOPMENT STATUS REPORT
 ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-04I

Summary Log of well development progress.
 Readings are final readings for each visit.
 Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/29/96	3	5.97	63	0.435	21.4	0.01	131
	5	7.07	0	0.351	21.6	0.01	
	8	7.76	0	0.352	21.3	0.01	
	10	7.85	0	0.341	21.2	0.01	
	12.5	7.86	0	0.345	21.2	0.01	
	15	7.86	0	0.342	21.2	0.01	

Well Development Completed on: 9/29/96

COMMENTS: SLIGHT PETRO ODOR.

**ENSAFE / ALLEN & HOSHALL
 NAVAL BASE CHARLESTON
 WELL DEVELOPMENT STATUS REPORT
 ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-09D

Summary Log of well development progress.
 Readings are final readings for each visit.
 Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/28/96	2.5	7.41	999	0.390	23.6	0.01	129
	5	7.53	420	0.390	22.7	0.01	
	7.5	7.50	265	0.390	22.4	0.01	
	10	7.50	-10	0.390	22.3	0.01	
	12.5	7.52	0	0.391	22.4	0.01	
	15	7.54	0	0.393	22.4	0.01	
	20	7.39	0	0.396	21.9	0.01	

Well Development Completed on: 9/28/96

COMMENTS: SLIGHT PETRO ODOR.

**ENSAFE / ALLEN & HOSHALL
 NAVAL BASE CHARLESTON
 WELL DEVELOPMENT STATUS REPORT
 ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-09I

Summary Log of well development progress.
 Readings are final readings for each visit.
 Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/28/96	5	7.29	540	0.480	22.6	0.01	130
	7.5	7.11	513	0.471	22.1	0.01	
	10	7.00	496	0.475	22.2	0.01	
	12.5	7.08	467	0.470	22.3	0.01	
	15	6.81	608	0.480	22.0	0.01	

Well Development Completed on: 9/28/96

COMMENTS: NO ODOR DETECTED.

**ENSAFE / ALLEN & HOSHALL
 NAVAL BASE CHARLESTON
 WELL DEVELOPMENT STATUS REPORT
 ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-10D

Summary Log of well development progress.
 Readings are final readings for each visit.
 Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/28/96	12.5	6.34	-10	0.45	25.1	.01	128
	15	6.91	-10	0.38	23.5	.01	
	17.5	7.10	-10	0.38	23.3	.01	
	20	7.18	-10	0.38	23.2	.01	

Well Development Completed on: 9/28/96

COMMENTS: FUEL/PETROLEUM ODOR; TURBIDITY PROBE ERRATIC.

**ENSAFE / ALLEN & HOSHALL
 NAVAL BASE CHARLESTON
 WELL DEVELOPMENT STATUS REPORT
 ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-10I

Summary Log of well development progress.
 Readings are final readings for each visit.
 Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#

Well Development Completed on: 9/28/96

COMMENTS: NO DATA COLLECTED DUE TO FAULTY WATER QUALITY MONITOR.
 3 WELL VOLUMES PURGED (TOTAL 10 GALS) AND WATER NOTED AS CLEAR.

**ENSAFE / ALLEN & HOSHALL
NAVAL BASE CHARLESTON
WELL DEVELOPMENT STATUS REPORT
ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-13D

Summary Log of well development progress.
Readings are final readings for each visit.
Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/29/96	2.5	5.75	9	0.485	22.8	0.02	132
	5	6.50	6	0.495	22.9	0.02	
	8	6.60	1	0.550	22.9	0.02	
	10	6.67	0	0.569	22.9	0.02	
	12.5	6.85	0	0.580	23.3	0.02	
	15	6.85	0	0.583	23.1	0.02	
	18	6.86	0	0.588	22.9	0.02	
	20	6.86	0	0.591	23.0	0.02	
	23	6.86	0	0.594	23.0	0.02	

Well Development Completed on: 9/29/96

COMMENTS: NO ODOR DETECTED.

**ENSAFE / ALLEN & HOSHALL
 NAVAL BASE CHARLESTON
 WELL DEVELOPMENT STATUS REPORT
 ZONE A**

WELL DEVELOPMENT SUMMARY

Well: NBCA\039-13I

Summary Log of well development progress.
 Readings are final readings for each visit.
 Volume data are cumulative from start of development.

DATE	VOL Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/29/96	2.5	6.00	26	0.290	22.9	0.01	132
	5	6.13	5	0.285	22.9	0.01	
	7.5	6.12	1	0.278	23.2	0.01	
	10	6.20	0	0.285	23.2	0.01	

Well Development Completed on: 9/29/96

COMMENTS: NO ODOR DETECTED.