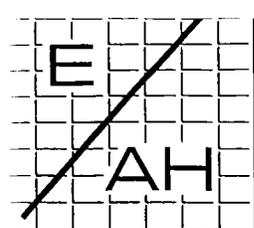


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LETTER TRANSMITTING MONITORING WELL LOGS AND WELL DEVELOPMENT LOGS
ZONES A AND B CNC CHARLESTON SC
6/17/1996
ENSAFE/ ALLEN AND HOSHALL



EnSafe / Allen & Hoshall

a joint venture for professional services

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June 17, 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 Monitoring Well Logs and Well Development Logs

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 monitoring wells installed in Zones A and B at Naval Base Charleston in accordance with the monitoring well permit.

If you have any questions or if we can be of further assistance, please do not hesitate to call.

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, SOUTH DIV
Project file 2901-08420

EnSafe/Allen & Hoshall

Boring NBCBGDB02D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316801 E, 379002 N

Location: Charleston, SC

Geologist: P. Bayley

Started at 0800 on 11-18-95

Surface Elevation: 7.8 feet msl

Completed at 1115 on 11-18-95

Depth to Groundwater: feet TOC Measured:

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

Groundwater Elevation: feet msl

Drilling Company: Alliance Environmental

Total Depth: feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
							ML	Silt: brown, clayey, with some very fine sand, plastic, soft, moist.	
							CL	Clay: brown, some silt, plastic, firm to stiff, moist.	6.1
									5.3
5			1						2.8
								to red-brown, very fine to fine with trace medium, silty, et.	
								to black, silty, soft, plastic, wet, some grass; with fine to medium lenses from 10-10.4', 11-11.5'.	1.5
10							OH		3.7
							SP	Sand: orange to yellow, very fine to fine, trace to some silt, soft, wet; with 1 cm brown clay laminae.	
15			2	100	10		SW		
							CL	Sand: orange-brown, very fine to fine, clayey and silty, firm, plastic, wet.	8.6
							SC		9.4000
							CH	Clay: orange, gray, and brown, silty, stiff, plastic, wet, with orange brown clay and shell hash mixture from 17.4-18'.	
							ML	Silt: gray-green, clayey, trace to some sand, plastic, soft, with shell hash, wet.	10.7
20							CL		11.9
							ML		

No well installed -
(GWS-20-030)
Not submitted
to PHZ
TRK 6-77-96

EnSafe/Allen & Hoshall

Boring NBCBGDB02D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316801E, 379002N

Location: Charleston, SC

Geologist: P. Bayley

Started at 0800 on 11-18-95

Surface Elevation: 7.8 feet msl

Completed at 1115 on 11-18-95

Depth to Groundwater: feet TOC Measured:

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

Groundwater Elevation: feet msl

Drilling Company: Alliance Environmental

Total Depth: feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
25			3	100	0		EC	Clay: olive-green, very silty, some very fine sand, stiff, plastic, with trace calcareous minerals, wet.	17.2
30								No well installed due to shallow depth of Ashley Formation.	
35									
40									

EnSafe/Allen & Hoshall

Boring NBCBGDB03D

Project: ZONE B - Naval Base Charleston

Coordinates: 2317329 E, 378567 N

Location: Charleston, SC

Geologist: P. Bayley

Started at 1300 on 11-18-95

Surface Elevation: 4.4 feet msl

Completed at 1350 on 11-18-95

Depth to Groundwater: feet TOC Measured:

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

Groundwater Elevation: feet msl

Drilling Company: Alliance Environmental

Total Depth: feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PTD (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
							ML	Silt: brown, some very fine sand, trace to some clay, soft, low plasticity, wet.	3
							CF	Clay: brown with some orange-brown and black, some silt with occasional sandy pits, medium plasticity, firm to stiff.	1.9
5			1	50	0		OH	Clay: dark gray to black, some silt, soft, plastic, wet, H ₂ S odor with grass; pod of grass from 7-7.3'; color change to dark gray brown with more organic matter 7-8.6'; sand pod from 8.6-8.9'.	6
10							CF	Clay: dark gray with yellow-orange, some silt, plastic, stiff, with occasional sandy pits/pods and FeOx nodules < 1 cm, wet.	5.8
15			2	70	0		SC SM	Sand: light gray to yellow brown, very fine to fine, silty, clayey, with granule to small pebbles and shell fragments, trace plastic, soft, wet.	10.6
							ML	Silt: olive-brown, some clay, some very fine sand, with shell hash throughout, and occasional PO ₄ nodules and shells, slightly plastic, wet; at 19.5-20', increased shell hash.	11.4
20			3	100	0		SM SC		5.6

EnSafe/Allen & Hoshall

Boring NBCBGDB03D

Project: ZONE B - Naval Base Charleston

Coordinates: 2317329 E, 378567 N

Location: Charleston, SC

Geologist: P. Bayley

Started at 1300 on 11-18-95

Surface Elevation: 4.4 feet msl

Completed at 1350 on 11-18-95

Depth to Groundwater: feet TOC Measured:

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

Groundwater Elevation: feet msl

Drilling Company: Alliance Environmental

Total Depth: feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								<p>Sand: olive-brown to gray, very fine to fine, silty, clayey, with shell fragments and PO₄ granules and nodules, wet.</p> <p>Silt: olive-brown, clayey, some very fine sand, firm, stiff, plastic, trace carbonate minerals, wet, with occasional 2-3 cm sandy pods at 1' intervals.</p>	16.1
25			4	100	0			No well installed due to shallow depth of Ashley Formation.	20.6
30									
35									
40									

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB001

Project: ZONE B - Naval Base Charleston

Coordinates: 2315793.58 E, 379198.01 N

Location: Charleston, SC

Surface Elevation: 3.7 feet msl

Started at 1000 on 10-10-95

TOC Elevation: 6.31 feet msl

Completed at 1135 on 10-10-95

Depth to Groundwater: 3.60 feet TOC Measured: 1-22-96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 2.71 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.3 feet bgs

Geologist: P. Bayley

Well Screen: 2.3 to 11.8 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
								Surface conditions: grass on golf course.		
5			1	60	0		OL OH	Clay: dark gray-brown and black, some silty, soft, plastic, wet, H ₂ S odor-- Marsh clay.	3 15	
10			2	55	0		OL OH	Clay: Marsh clay as above with some vegetative matter.	4.3 5.4	
15			3	60	0		OL OH	Clay: Marsh clay as above; at 14.1-14.7' becomes brown with vegetative matter.	9.8 11	

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB002

Project: ZONE B - Naval Base Charleston

Coordinates: 2316802.45 E, 379015.73 N

Location: Charleston, SC

Surface Elevation: 6.8 feet msl

Started at 0900 on 10-09-95

TOC Elevation: 9.60 feet msl

Completed at 1325 on 10-09-95

Depth to Groundwater: 5.87 feet TOC Measured: 1-22-96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 3.73 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 13.1 feet bgs

Geologist: P. Bayley

Well Screen: 3.1 to 12.6 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
								Surface conditions: grass on golf course		
5			1	100		OL OH	Clay: dark gray to black, silty, soft, plastic, wet with H ₂ S odor, with alternating dark gray, very fine to fine sandy bands from 4-4.2' and 4.4-4.8'; from 5-6', silty thin laminae.	2.8		
									8	
10			2	60		OL OH	Clay: olive-brown, some silt, plastic, soft, H ₂ S odor, wet.	12		
									2.4	
			3	100			Shelby Tube: (10.0-12.5') Top: clay as above; bottom: gray, very fine to medium sand with shell hash.			
15			4	60		OL SP SM	Clay: dark gray to black, silty, some sand and shell hash, soft, plastic, wet. Sand: light brown, very fine to fine, silty, soft, wet, with very silty lense from 14.6-14.7'.	7.2	8	
									8.400001	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB003

Project: ZONE B - Naval Base Charleston

Coordinates: 2317344.83 E, 378572.95 N

Location: Charleston, SC

Surface Elevation: 4.7 feet msl

Started at 1210 on 10-09-95

TOC Elevation: 8.93 feet msl

Completed at 1325 on 10-09-95

Depth to Groundwater: 6.01 feet TOC Measured: 1-22-96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 2.92 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.5 feet bgs

Geologist: P. Bayley

Well Screen: 2.5 to 12.0 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
								Surface conditions: grass near golf course		
5			1	90	0		OL OH	Clay: dark gray to black, some silt, plastic, soft, wet, with plant matter from 4.5-5.8'.	7	
									11	
10			2	90			OL ML	Silt: dark gray brown, clayey, some very fine sand, very soft, wet.	3.8	
							CL ML	Clay: gray green, silt, some very fine sand, plastic, soft-firm, wet.	5.3 5.8	
15			3	85			CL SP SM	Clay: gray green with orange, plastic, firm, with some very fine to fine sandy pits, moist to wet. Sand: orange and gray alternating bands with orange decreasing with depth, very fine to fine, some silty with occasional clay partings (<4 mm).	8.8 9.1 10.5	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB004

Project: ZONE B - Naval Base Charleston

Coordinates: 2316606.16 E, 377803.18 N

Location: Charleston, SC

Surface Elevation: 23.8 feet msl

Started at 1545 on 10-09-95

TOC Elevation: 26.86 feet msl

Completed at 1850 on 10-09-95

Depth to Groundwater: 23.98 feet TOC Measured: 1-22-96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 2.88 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 27.0 feet bgs

Geologist: P. Bayley

Well Screen: 17.0 to 26.5 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
								Surface conditions: grass lawn		
5			1	75	0		SP	Sand: orange-brown, very fine to fine, subhedral-subrounded, equigranular quartz, clear-translucent, soft, loose, damp to moist.	19.8 18.3	
10			2	80	0		SP	Sand: light brown, very fine to fine, as above; root at 9.3'.	15.8 14.2	
15			3	80	0		SP	Sand: dark brown, very fine to fine, as above with some root and leaf fragments; becomes light brown with brown mottling at 14.1'.	10.3 8.7	
20							CL SC	Sand: orange-red, very fine to fine, silty, clayey, soft, moist to wet.	5.3 5	
							SP SW	Sand: orange-brown, very fine to fine/medium, some silt, trace clay, soft, moist to wet; silty clay lenses at 19-19.1' and 19.5-19.7'.		

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB004

Project: ZONE B - Naval Base Charleston

Coordinates: 2316606.16 E, 377803.18 N

Location: Charleston, SC

Surface Elevation: 23.8 feet msl

Started at 1545 on 10-09-95

TOC Elevation: 26.86 feet msl

Completed at 1850 on 10-09-95

Depth to Groundwater: 23.98 feet TOC Measured: 1-22-96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 2.88 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 27.0 feet bgs

Geologist: P. Bayley

Well Screen: 17.0 to 26.5 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			4	80			SP SW	Shelby Tube 20.5-23'-- top: orange-brown, very fine to fine/medium, silty, clayey sand; bottom: brown, very fine to fine/medium, silty, firm sand.	3.7	
30			5	100						
35										
40										

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB01D

Project: ZONE B - Naval Base Charleston

Coordinates: 2315813.16 E, 37919150 N

Location: Charleston, SC

Surface Elevation: 3.8 feet msl

Started at 1550 on 11-16-95

TOC Elevation: 6.47 feet msl

Completed at 0915 on 11-17-95

Depth to Groundwater: 4.23 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 2.24 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 39.5 feet bgs

Geologist: P. Bayley

Well Screen: 29.6 to 39.0 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
0			1	90	0		OH	Clay: dark brown with gray, some silt, firm-stiff, plastic, moist to wet, with disseminated grass/roots; wet at 2.3'.	3.8	<p>2" ID Sch. 40 PVC riser</p> <p>grout</p>
0.8						OH	Clay: black, some silt, soft, sticky, plastic, wet, H ₂ S odor-- Marsh clay.	3.0		
5.7						OH	Clay: black as above, with carbonaceous and vegetative matter and peat, H ₂ S odor; at 5.7' becomes dark brown-black, silty, with some vegetative matter disseminated throughout; small, very thin sand laminae at 6.4-6.9'.	12		
12						OH		8.5		
15			2	73	0		OH	Clay: dark gray-black, some silt, soft, sticky, plastic, wet-- Marsh clay as above.	11.2	
20					270		OH	Disseminated small grasses at 18.5'.		

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB01D

Project: ZONE B - Naval Base Charleston

Coordinates: 2315813.16 E, 379191.50 N

Location: Charleston, SC

Surface Elevation: 3.8 feet msl

Started at 1550 on 11-16-95

TOC Elevation: 6.47 feet msl

Completed at 0915 on 11-17-95

Depth to Groundwater: 4.23 feet TOC Measured: 1-22-96

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

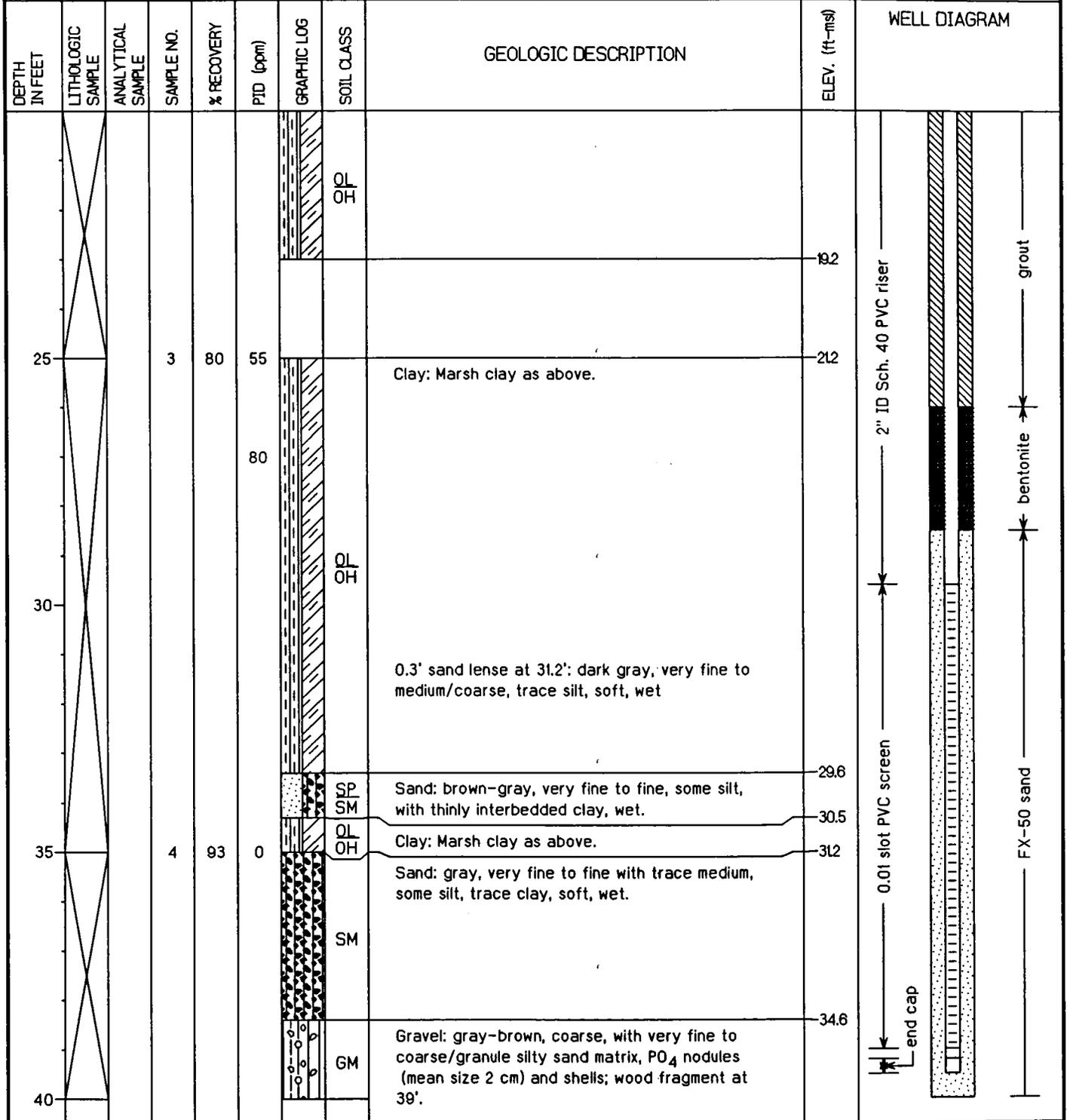
Groundwater Elevation: 2.24 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 39.5 feet bgs

Geologist: P. Bayley

Well Screen: 29.6 to 39.0 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB04D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316634.59 E, 377809.48 N

Location: Charleston, SC

Surface Elevation: 22.7 feet msl

Started at 1515 on 11-18-95

TOC Elevation: 25.66 feet msl

Completed at 1415 on 11-19-95

Depth to Groundwater: 22.98 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 2.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 76.3 feet bgs

Geologist: P. Bayley

Well Screen: 65.9 to 75.3 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
							SM ML	Silt: dark brown, with very fine sand, trace clay, trace plastic, soft, with some roots.	21.2	<p>2" ID Sch. 40 PVC riser</p> <p>grout</p>
							SP	Sand: orange, very fine to fine, trace silt, soft, damp.	19.9	
5			1	56	0				17.7	
							SP	Sand: orange, very fine to fine, trace silt, soft, damp; at 7.5' grades to light orange-brown, some root material at 8.5'.	12.7	
15			2	50	0		SP SM	Sand: brown and orange-brown, very fine to fine, some silt with occasional thin silty clay laminae <1cm, soft, damp to moist; small lense of very fine to medium sand at 17.9-18'.	7.7	
							CL	Clay: red-orange grading to red-brown, with very fine to fine sand, some silt, plastic, stiff, moist to wet.	4.7	
20							SP SM	Sand: orange-brown, very fine to fine, some silt, soft, wet; color change to orange with increased silt content at 20.1'.	4.1	

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB04D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316634.59 E, 377809.48 N

Location: Charleston, SC

Surface Elevation: 22.7 feet msl

Started at 1515 on 11-18-95

TOC Elevation: 25.66 feet msl

Completed at 1415 on 11-19-95

Depth to Groundwater: 22.98 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 2.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 76.3 feet bgs

Geologist: P. Bayley

Well Screen: 65.9 to 75.3 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
							OS		17	<p>2" ID Sch. 40 PVC riser</p> <p>grout</p>
25			3	60	0		SM	Sand: orange-brown, very fine to fine, silty with occasional clay partings, soft, wet.	23	
							SP	Sand: as above with increasing grain size to very fine/medium with some silt to 27.5'. Decreasing grain size to very fine to fine with silt and occasional red-brown FeOx clayey concretions from 27.5-32.2'.	37	
								Color change to light orange with occasional red-brown FeOx concretions and laminae/banding.	9.8	
35			4	45	0		SP/SM	Sand: light brown, very fine to fine with trace medium, some silt, with occasional orange FeOx stained gray clay bands/laminae, soft, wet	23	
40									6.1	

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB04D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316634.59 E, 377809.48 N

Location: Charleston, SC

Surface Elevation: 22.7 feet msl

Started at 1515 on 11-18-95

TOC Elevation: 25.66 feet msl

Completed at 1415 on 11-19-95

Depth to Groundwater: 22.98 feet TOC Measured: 1-22-96

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Groundwater Elevation: 2.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 76.3 feet bgs

Geologist: P. Bayley

Well Screen: 65.9 to 75.3 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			5	28	0		SC	Sand: orange, very fine to fine/medium, silty, clayey, with small shell fragments and gray clay laminae near base.	22.3	<p>2" ID Sch. 40 PVC riser</p> <p>grout</p>
23.8						OH	Clay: dark gray-black, silty, stiff, plastic, wet, with dark gray, very fine, silty, clayey sand at small thin laminae/pods interbedded; At 49', 0.5' thick sand lense, dark gray-black, very fine to fine, silty, clayey with thin intercalated gray clay partings and some shell fragments; frequent sand partings/pods from 49.5-54.5'. Disseminated oyster shells from 53.2-54.5'.			
55			6	100	0		SP	Sand: dark gray, very fine to fine with some very fine to medium shell fragments, soft, wet; thinly interbedded with dark gray, silty, soft, plastic, wet clay.	32.3	
60							CL	From 58.8-62.8', few clay partings and slight increase in grain size to very fine/medium with decrease in silt at base.		

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB04D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316634.59 E, 377809.48 N

Location: Charleston, SC

Surface Elevation: 22.7 feet msl

Started at 1515 on 11-18-95

TOC Elevation: 25.66 feet msl

Completed at 1415 on 11-19-95

Depth to Groundwater: 22.98 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 2.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 76.3 feet bgs

Geologist: P. Bayley

Well Screen: 65.9 to 75.3 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
65			7	100	0		OH CH	Clay: dark gray, some silt, with occasional very thin sandy partings, stiff, plastic, wet.	41.4 42.3	
70						SP CL	Sand and Clay, thinly interbedded: Sand: dark green to gray, very fine to fine with trace medium, with occasional fine to medium shell fragments and variable silt content, wet; Clay: dark gray, some silt, plastic, soft to firm, wet.			
75			8	100	0		CL CH	Clay: dark gray, some silt, stiff, plastic, moist, with dark gray sand, very fine to fine, silty, some clay, shell fragments; disseminated shell fragments at 75', 76.7-76.8', 77.8-78'.	52.3	
80								Clay: dark gray with olive-green spots, some silt, stiff, plastic, moist, trace carbonate--dewatered marsh clay.		

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB04D

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Coordinates: 2316634.59 E, 377809.48 N

Location: Charleston, SC

Surface Elevation: 22.7 feet msl

Started at 1515 on 11-18-95

TOC Elevation: 25.66 feet msl

Completed at 1415 on 11-19-95

Depth to Groundwater: 22.98 feet TOC Measured: 1-22-96

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

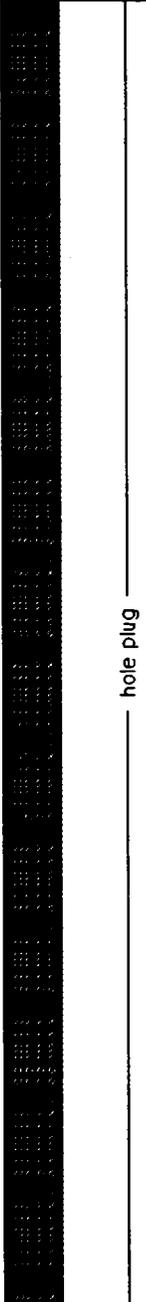
Groundwater Elevation: 2.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 76.3 feet bgs

Geologist: P. Bayley

Well Screen: 65.9 to 75.3 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
85			9	100	0		CL	Clay: olive-green, some silt, very stiff, plastic, moist with trace shell fragments, trace carbonate.		
90							At 88', dark gray-blue sand parting, very fine to fine.			
95			10	100	0		Clay: as above.			
100										

EnSafe/Allen & Hoshall

Monitoring Well NBCBGDB04D

Project: ZONE B - Naval Base Charleston

Coordinates: 2316634.59 E, 377809.48 N

Location: Charleston, SC

Surface Elevation: 22.7 feet msl

Started at 1515 on 11-18-95

TOC Elevation: 25.66 feet msl

Completed at 1415 on 11-19-95

Depth to Groundwater: 22.98 feet TOC Measured: 1-22-96

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

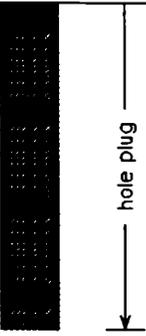
Groundwater Elevation: 2.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 76.3 feet bgs

Geologist: P. Bayley

Well Screen: 65.9 to 75.3 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
105			11	100	0		CP		82.3	
110										
115										
120										

EnSafe/Allen & Hoshall

Monitoring Well NBCA038001

Project: ZONE A - Naval Base Charleston

Coordinates: 2315759.94 E, 381740.29 N

Location: Charleston, SC

Surface Elevation: 7.3 feet msl

Started at 1305 on 10-06-95

TOC Elevation: 7.13 feet msl

Completed at 1435 on 10-06-95

Depth to Groundwater: 3.45 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 3.68 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: P. Bayley

Well Screen: 2.6 to 12.1 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
								Surface conditions: gravel lot.		
5			1	90	0		SC	Sand: gray with orange-brown mottling, very fine to fine, some silt, clayey, firm, plastic, wet.	2.8	
10			2	65	0		SM SC SM	Sand: gray, very fine to fine, some clay, silty, soft, wet.	12 16	
								Sand: brown grading to gray at 9.4', very fine to fine/medium, some silt, soft, wet.	2.5	
15								No attempt at 3rd split spoon due to excessive flowing sands inside augers.		
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA038002

Project: ZONE A - Naval Base Charleston

Coordinates: 2315696.10 E, 381604.37 N

Location: Charleston, SC

Surface Elevation: 8.6 feet msl

Started at 0825 on 10-06-95

TOC Elevation: 8.42 feet msl

Completed at 0945 on 10-06-95

Depth to Groundwater: 4.27 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 4.15 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 13.0 feet bgs

Geologist: P. Bayley

Well Screen: 3.0 to 12.5 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
								Surface conditions: asphalt parking lot		
5			1	90	0	CL ML SM	Clay: light brown with trace gray, silty, with very fine sand, soft, slightly plastic, wet.	4.1 3.6		
						CL SM SC	Sand: dark brown with brown horizontal bands, very fine, silty, trace wood fragments.	2.8 2.3		
						CL SM SP	Clay: dark brown to light brown, some silt, plastic, soft, with 1-2mm silty pits, wet; 0.1' silty sand lens with wood fragments at 5.1'.	1 2		
10			2	65	0	CL SM SP	Sand: gray, very fine to fine, some clay, silty, soft, wet.	1 2		
						CL SM SP	Clay: gray, silty, with some sand increasing in content with depth, firm, plastic, wet.	12		
						CL SM SP	Sand: gray with orange-brown horizontal banding, very fine to fine/ medium with trace coarse, some silt and FeOx pits, trace clay, wet.			
			3	100		OL OH	Shelby Tube 11-13.5'-- top: orange-brown sand, very fine to medium with trace coarse; bottom: gray silty clay, firm, plastic.	4.4		
15			4	100	0	OL OH	Clay: dark gray, some silt, firm, plastic, with some shells and small bivalves disseminated throughout, moist to wet.	6.4		
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA039001

Project: ZONE A - Naval Base Charleston

Coordinates: 2315466.85 E, 381754.60 N

Location: Charleston, SC

Surface Elevation: 11.1 feet msl

Started at 0823 on 10-03-95

TOC Elevation: 13.47 feet msl

Completed at 1430 on 10-03-95

Depth to Groundwater: 5.64 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 7.83 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 13.1 feet bgs

Geologist: T. Kafka

Well Screen: 3.1 to 12.6 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
								Surface conditions: gravel.		
5			1	100	0		SP/SM	Sand: greenish-tan grading green-gray at 5.7', fine to medium, well-sorted, clayey, some silt, wet.	7.1 5.1	
10			2	80	0		SM	Sand: gray to green-gray becoming tan and orange-tan at 9.2', very fine to fine with trace medium, moderately well-sorted, silty, minor clay, wet.	2.2 1.1	
			3	35				Shelby Tube: (10.0-12.5') Top: Sand: whitish-tan, wet, soupy; limited recovery		
15			4	50			SM SC	Sand: tan, medium to coarse, poorly sorted, silty, wet. Sand: orange-rusty, well-sorted, clayey, wet.	1.9 2.5 2.9	

EnSafe/Allen & Hoshall

Monitoring Well NBCA039002

Project: ZONE A - Naval Base Charleston

Coordinates: 2315378.52 E, 381759.89 N

Location: Charleston, SC

Surface Elevation: 12.1 feet msl

Started at 1520 on 10-03-95

TOC Elevation: 14.35 feet msl

Completed at 0950 on 10-04-95

Depth to Groundwater: 7.24 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 7.11 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: T. Kafka

Well Screen: 2.6 to 12.1 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
								Surface conditions: gravel.		<p>WELL DIAGRAM</p> <p>end cap</p> <p>0.01 slot PVC screen</p> <p>2" ID Sch. 40 PVC Riser</p> <p>#1 sand filter</p> <p>bentonite seal</p> <p>grout</p>
5			1	75	0		SC SM	Sand: green-gray, very fine to fine, clayey, minor silt, well-sorted, moist to wet.	7.6	
									6.1	
10			2	77	0		SM	Sand: green-gray, very fine to fine grading to medium at 8.7', with brown silt throughout	3.9	
15									2.5	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA039003

Project: ZONE A - Naval Base Charleston

Coordinates: 2315521.77 E, 381633.09 N

Location: Charleston, SC

Surface Elevation: 8.8 feet msl

Started at 1220 on 10-04-95

TOC Elevation: 8.64 feet msl

Completed at 1630 on 10-04-95

Depth to Groundwater: 3.38 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 5.26 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: T. Kafka

Well Screen: 2.8 to 12.3 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
								Surface conditions: gravel.		
5			1	80	0		SM	Sand: tan to brown with some orange patches, very fine to fine, silty, well-sorted, wet.	4.5	
							SM/SC	Sand: orange-brown, very fine to fine, moderately well-sorted, silty, some clay, slightly cohesive, wet.	3.5 2.9	
10			2	60	0		SM/SC	Sand: as above with some clay.	5 0	
							SM	Sand: orange-brown, very fine to fine, moderately well-sorted, silty, wet; becomes orange and less silty from 9.3-9.5'.	7	
15			3	80	0		SC	Sand: orange-brown to tan-orange, very fine to fine with trace medium, moderately well-sorted, silty, with clayey stringers at 11.7-11.8', 11.85-11.9', wet.	2.5 3.3	
							SM	Sand: orange, very fine to fine, well-sorted, silty, no clay, wet.	4.1	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA039004

Project: ZONE A - Naval Base Charleston

Coordinates: 231543113 E, 381655.47 N

Location: Charleston, SC

Surface Elevation: 9.4 feet msl

Started at 1425 on 10-05-95

TOC Elevation: 11.72 feet msl

Completed at 1555 on 10-05-95

Depth to Groundwater: 5.99 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 5.73 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 13.0 feet bgs

Geologist: P. Bayley

Well Screen: 3.0 to 12.5 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
								Surface conditions: gravel.		<p>WELL DIAGRAM</p> <p>end cap</p> <p>0.01 slot PVC screen</p> <p>2" ID Sch. 40 PVC Riser</p> <p>#1 sand filter</p> <p>bentonite seal</p> <p>grout</p>
5			1	75	0		USC SM	Sand: light gray with orange FeOx mottling, very fine to fine with trace medium, silty, clayey, soft, slightly plastic, wet; occasional sand pits, very fine to medium with some silt and clay.	4.9 3.4	
10			2	40	0		SW	Sand: brown, very fine to medium, trace silt, soft, wet; at 8.1' a 1 cm sandy clay lamination.	1.4 .6	
15			3	90	0		OL OH	Clay: dark gray, silty, soft, plastic, wet, H ₂ S odor.	3.6 5.5	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA039005

Project: ZONE A - Naval Base Charleston

Coordinates: 2315315.44 E, 381654.81 N

Location: Charleston, SC

Surface Elevation: 10.2 feet msl

Started at 1055 on 10-05-95

TOC Elevation: 12.67 feet msl

Completed at 1305 on 10-05-95

Depth to Groundwater: 7.04 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 5.63 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 13.0 feet bgs

Geologist: P. Bayley

Well Screen: 3.0 to 12.5 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
								Surface conditions: gravel.		
5			1	70	0	SP SM	SM SC	Sand: green, very fine to fine/medium with trace coarse, some silt, soft, wet; grain size increases slightly at 5.5'; 1 cm FeOx stain at 5.6'.	5.7 4.5 4.3	
								Sand: green with some orange staining, very fine to fine/medium with trace coarse, silty, trace to some clay, soft, slightly plastic, wet.		
								Sand: green as above.	2.2 1.6	
10			2	65	0	SM SC SP SM		Sand: green becoming brown with depth, very fine to fine/medium with trace coarse, some silt, trace clay, wet; at 9', very fine to fine/ medium, loose, soft, wet with decreasing fines with depth.	0.9	
15										
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA042001

Project: ZONE A - Naval Base Charleston

Coordinates: 2315142.12 E, 380641.84 N

Location: Charleston, SC

Surface Elevation: 7.6 feet msl

Started at 1400 on 10-07-95

TOC Elevation: 10.09 feet msl

Completed at 1530 on 10-07-95

Depth to Groundwater: 7.03 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

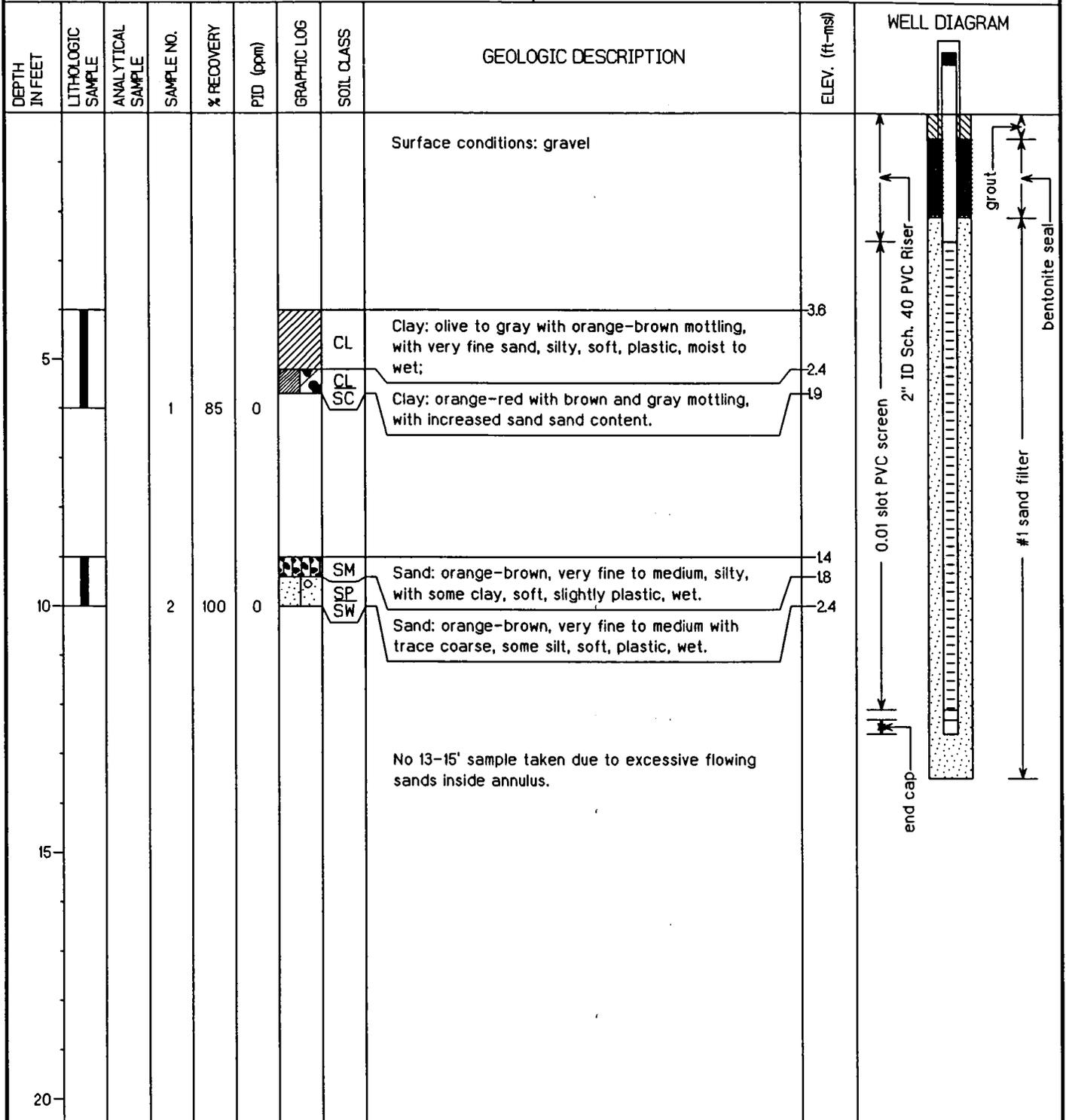
Groundwater Elevation: 3.06 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: P. Bayley

Well Screen: 2.6 to 12.1 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA042002

Project: ZONE A - Naval Base Charleston

Coordinates: 2315069.46 E, 38057199 N

Location: Charleston, SC

Surface Elevation: 8.0 feet msl

Started at 1055 on 10-07-95

TOC Elevation: 10.47 feet msl

Completed at 1205 on 10-07-95

Depth to Groundwater: 7.49 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 2.98 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: P. Bayley

Well Screen: 2.6 to 12.1 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
								Surface conditions: gravel		
5			1	65	0	CL SM SC	<p>Clay: olive and blue-gray with some orange mottling, with very fine to fine sand, soft, plastic, wet.</p> <p>Sand: olive and blue-gray with some orange mottling, very fine to fine, some silt and some clay, soft, plastic, wet.</p>	3.5 3.2 2.2		
10			2	100	0	SW	Sand: light-brown, very fine to medium with trace to some coarse, trace silt, soft, wet.	1		
15							No 13-15' sample taken due to excessive flowing sands inside annulus.	2.8		
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA042003

Project: ZONE A - Naval Base Charleston

Coordinates: 2315069.89 E, 380414.92 N

Location: Charleston, SC

Surface Elevation: 7.7 feet msl

Started at 0830 on 10-07-95

TOC Elevation: 10.26 feet msl

Completed at 0950 on 10-07-95

Depth to Groundwater: 7.38 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

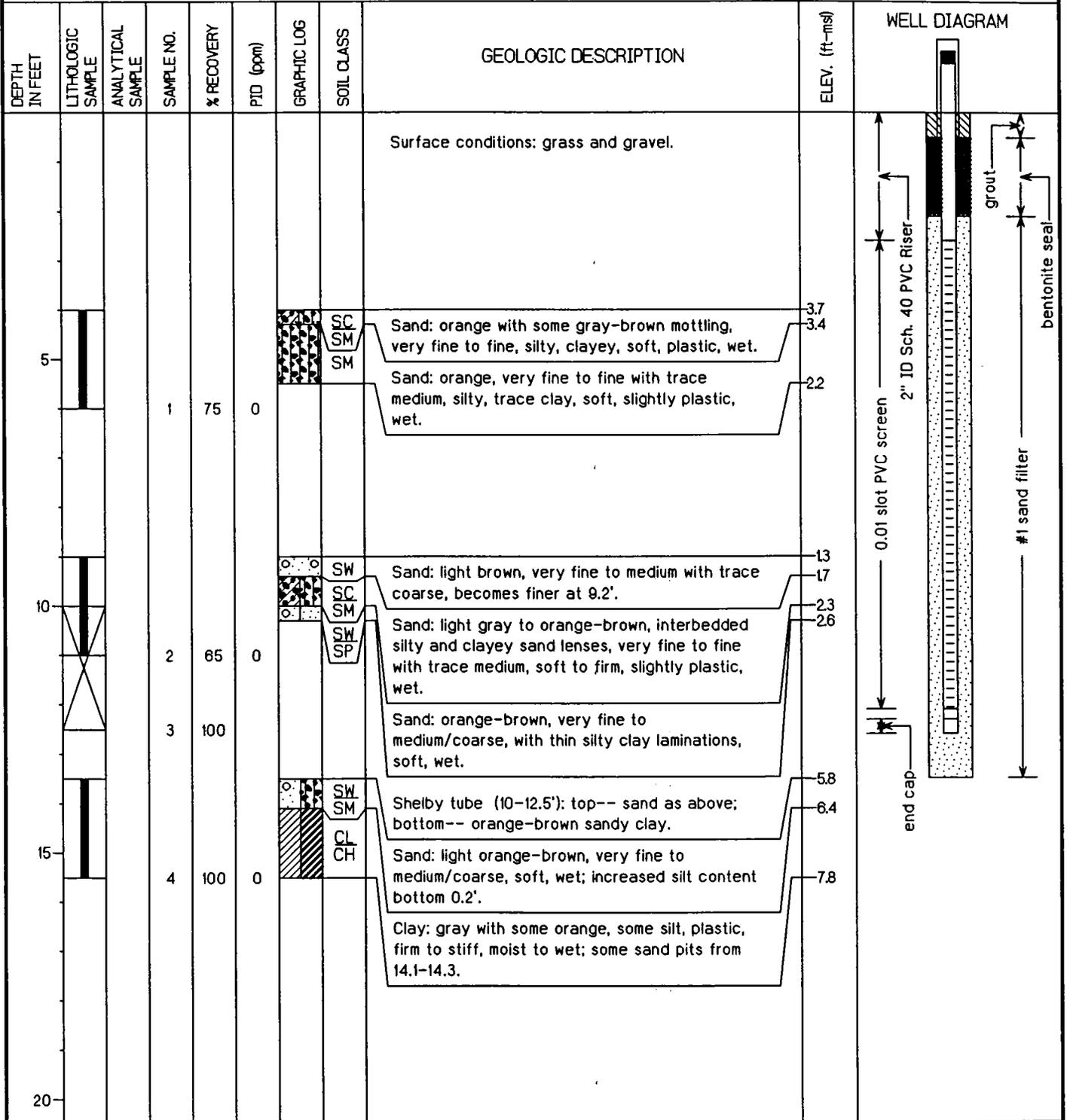
Groundwater Elevation: 2.88 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: P. Bayley

Well Screen: 2.6 to 12.1 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA505001

Project: ZONE A - Naval Base Charleston

Coordinates: 2315149.78 E, 380331.97 N

Location: Charleston, SC

Surface Elevation: 7.7 feet msl

Started at 1640 on 10-06-95

TOC Elevation: 10.39 feet msl

Completed at 1750 on 10-06-95

Depth to Groundwater: 7.46 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 2.53 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.6 feet bgs

Geologist: P. Bayley

Well Screen: 2.6 to 12.1 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
								Surface conditions: asphalt.		
5			1	80	0	SM SP	SC	Sand: brown, very fine to trace medium, silty, trace clay, wet; with 0.5cm dark brown lamination at 4.6' and 1 cm gray clay lense at 5.6'.	3.2	
								Sand: green-gray, very fine to fine, clayey.	1.6	
10			2	65	0	SM SC		Sand: blue-green with orange-brown mottling, very fine to fine/medium with trace coarse, silty, some clay, plastic, wet; 1 cm clay lens with silty FeOx pits at 9.7'.	2.1	
15			3	100	0	SP SW	CL CH	Sand: orange, very fine to fine/medium with trace coarse, some silt, soft, wet.	5.8	
								Clay: gray and orange, some silt, plastic, with thin very fine to fine/medium sand partings, wet.	6.7	
								Sand: orange, very fine to fine/medium with trace coarse, silty, with thin clay partings.	7.5	
								Clay: gray with some orange, some silt, plastic, soft, wet; with thin partings and small sand pits, white to orange, very fine to fine.	7.8	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA506001

Project: ZONE A - Naval Base Charleston

Coordinates: 2316624.15 E, 380869.74 N

Location: Charleston, SC

Surface Elevation: 9.9 feet msl

Started at 0800 on 10-11-95

TOC Elevation: 9.71 feet msl

Completed at 0900 on 10-11-95

Depth to Groundwater: 8.05 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 1.66 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.5 feet bgs

Geologist: S. Weatherford

Well Screen: 2.5 to 12.0 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
								Surface conditions: concrete pad.		<p>WELL DIAGRAM</p> <p>end cap</p> <p>0.01 slot PVC screen</p> <p>2" ID Sch. 40 PVC Riser</p> <p>#1 sand filter</p> <p>bentonite seal</p> <p>grout</p>
5			1	100	0		SM	Sand: red-brown, loose fill.	6.9	
									4.9	
10			2	100	0		CH	Clay: red-gray, sandy, tight, damp.	1.9	
15								Cuttings from 10-13': Sand: orange, clayey, medium, wet.	1.1	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA001

Project: ZONE A - Naval Base Charleston

Coordinates: 2316587.47 E, 380620.08 N

Location: Charleston, SC

Surface Elevation: 9.1 feet msl

Started at 0915 on 10-11-95

TOC Elevation: 11.45 feet msl

Completed at 1045 on 10-11-95

Depth to Groundwater: 9.61 feet TOC Measured: 1-22-95

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 184 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.5 feet bgs

Geologist: S. Weatherford

Well Screen: 2.5 to 12.0 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
								Surface conditions: asphalt and gravel.		
5			1	75	0		SC OL	Sand: orange, clayey, loose, wet. Clay: dark gray to black, silty, high organic content.	6.1 5.1 4.6	
			2	0	0			No recovery from shelly tube 10-12.5'.		
10			3	100	0		SC CL	Sand: orange, clayey, loose, wet. Clay: red-orange, sandy, tight.	11 1 9	
15										
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA002

Project: ZONE A - Naval Base Charleston

Coordinates: 2315789.64 E, 380420.70 N

Location: Charleston, SC

Surface Elevation: 8.9 feet msl

Started at 1400 on 10-10-95

TOC Elevation: 8.61 feet msl

Completed at 1530 on 10-10-95

Depth to Groundwater: 4.00 feet TOC Measured: 1/22/96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 4.61 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.5 feet bgs

Geologist: S. Weatherford

Well Screen: 2.5 to 12.0 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
								Surface conditions: asphalt parking lot		
5			1	100	0		SM SC	Sand: gray-green with brown, fine, loose, trace clay, wet.	5.9	
									3.9	
10			2	100	0		SC	Sand: gray-green, clayey, loose, wet.	9	
							OH	Clay: red-green, sand, firm.	1	
15			3	100	0				11	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA003

Project: ZONE A - Naval Base Charleston

Coordinates: 2316794.40 E, 37981153 N

Location: Charleston, SC

Surface Elevation: 6.6 feet msl

Started at 1525 on 10-10-95

TOC Elevation: 9.12 feet msl

Completed at 1700 on 10-10-95

Depth to Groundwater: 5.26 feet TOC Measured: 1-22-96

Drilling Method: 4.25" ID (7.5" OD) HSA with split spoon

Groundwater Elevation: 3.86 feet msl

Drilling Company: GES/Miller Drilling

Total Well Depth: 12.5 feet bgs

Geologist: S. Weatherford

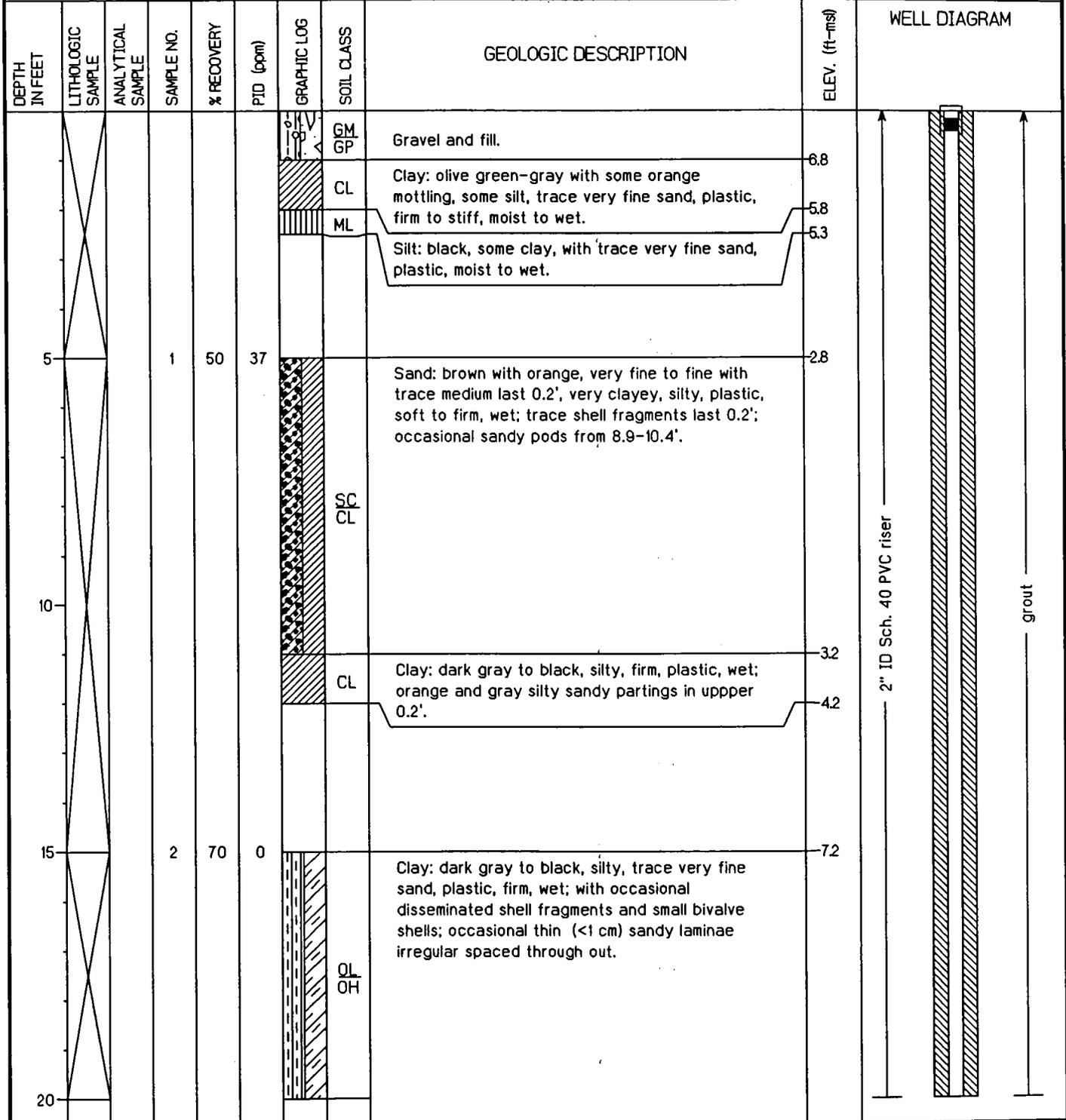
Well Screen: 2.5 to 12.0 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PTD (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
								Surface conditions: asphalt pavement and gravel		
5			1	50	0		CL SC	Sand: clayey, loose, wet, sandy fill.	1.6	
10			2	100	0		OH	Clay: gray-green, fine, fat, wet-- marsh clay.	1.4	
15								Cuttings 10-13': Clay: loose, silty, sandy, wet.	3.4	
20										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03801D

Project: ZONE A - Naval Base Charleston	Coordinates: 2315760.61 E, 381712.58 N
Location: Charleston, SC	Surface Elevation: 7.83 feet msl
Started at 1400 on 11-15-95	TOC Elevation: 7.63 feet msl
Completed at 0815 on 11-16-95	Depth to Groundwater: 5.46 feet TOC Measured: 1-22-96
Drilling Method: Rotasonic (6.5" OD casing, 3.8" ID coring bit)	Groundwater Elevation: 2.17 feet msl
Drilling Company: Alliance Environmental	Total Well Depth: 50.2 feet bgs
Geologist: P. Bayley	Well Screen: 40.3 to 49.7 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03801D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315760.61 E, 381712.58 N

Location: Charleston, SC

Surface Elevation: 7.83 feet msl

Started at 1400 on 11-15-95

TOC Elevation: 7.63 feet msl

Completed at 0815 on 11-16-95

Depth to Groundwater: 5.46 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 2.17 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 50.2 feet bgs

Geologist: P. Bayley

Well Screen: 40.3 to 49.7 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
25			3	100	0		OH	Clay: dark gray to black, silty, with trace sand partings, firm, plastic, wet.	17.2	<p>2" ID Sch. 40 PVC riser</p> <p>grout</p> <p>FX-50 sand bentonite</p>
30							OH	30.8-35': light gray, very fine, thin sand partings spaced approx. every 1' with some sand pods.		
35			4	100	0		SM	Sand: gray, very fine to fine, silty, soft, wet.	27.2	
							OH	Clay: dark gray-black, silty, with occasional sand laminae and pods, firm, plastic, wet.	27.8	
40							SP SM	Sand: gray, very fine to fine, some silt, with occasional thin clay partings at irregular intervals, soft, wet.	31.2	

EnSafe/Allen & Hoshall

Monitoring Well NBCA03801D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315760.61 E, 381712.58 N

Location: Charleston, SC

Surface Elevation: 7.83 feet msl

Started at 1400 on 11-15-95

TOC Elevation: 7.63 feet msl

Completed at 0815 on 11-16-95

Depth to Groundwater: 5.46 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 2.17 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 50.2 feet bgs

Geologist: P. Bayley

Well Screen: 40.3 to 49.7 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
							SP SM		33.6	
							SP	Sand: gray, very fine to fine/medium, trace silt, soft, wet.	36.2	
45			5	90	0		SP SW	Sand: gray, very fine to medium, trace silt, soft, wet.	37.2	
50			6	80	0		GM GC	Gravel: dark gray, clayey sandy silt matrix, with some shell fragments (lag deposit).	42.2 42.7	
							ML CL	Silt: olive-yellow, clayey, some very fine sand, stiff, plastic, wet - Ashley Formation.	46.7	
55			7	90	0					
60										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03904D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315423.28 E, 381667.73 N

Location: Charleston, SC

Surface Elevation: 9.9 feet msl

Started at 1110 on 11-16-95

TOC Elevation: 9.77 feet msl

Completed at 1320 on 11-16-95

Depth to Groundwater: 7.89 feet TOC Measured: 1-22-96

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

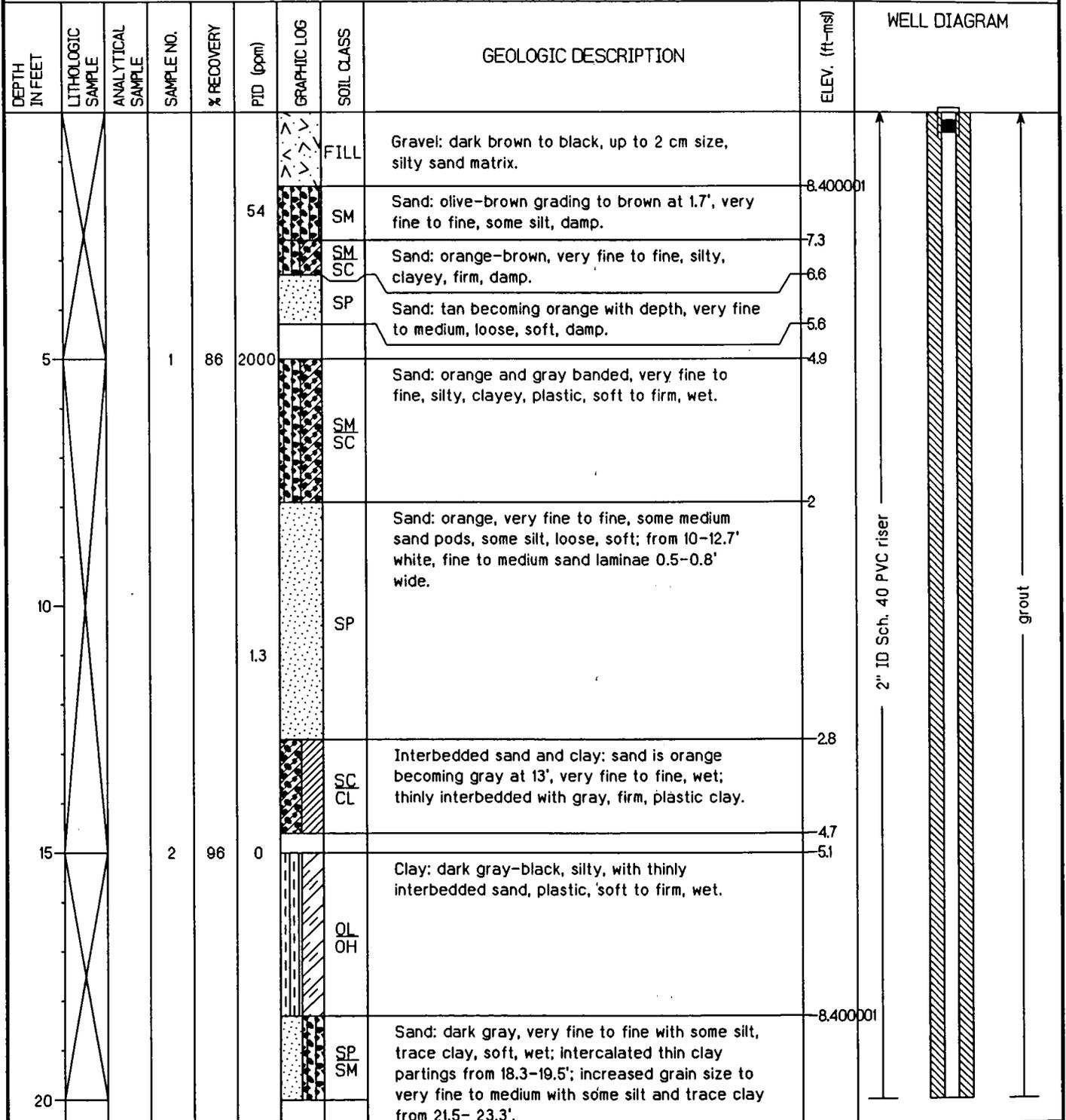
Groundwater Elevation: 1.88 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 54.5 feet bgs

Geologist: P. Bayley

Well Screen: 44.6 to 54.0 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCA03904D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315423.28 E, 381667.73 N

Location: Charleston, SC

Surface Elevation: 9.9 feet msl

Started at 1110 on 11-16-95

TOC Elevation: 9.77 feet msl

Completed at 1320 on 11-16-95

Depth to Groundwater: 7.89 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 188 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 54.5 feet bgs

Geologist: P. Bayley

Well Screen: 44.6 to 54.0 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			3	97	0		SP SM	Sand: gray, very fine to fine/medium, trace to some silt, soft, wet.	14.8 15.1	<p>2" ID Sch. 40 PVC riser</p> <p>grout</p>
30							SP SM			
35			4	90	0		OH CH	Clay: gray to dark gray with green cast, some silt, plastic, stiff, wet. Occasional very thin (<1 cm) dark gray, silty sand laminae, with some mica flakes from 35-45'.	23.8	
40										

EnSafe/Allen & Hoshall

Monitoring Well NBCA03904D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315423.28 E, 381667.73 N

Location: Charleston, SC

Surface Elevation: 9.9 feet msl

Started at 1110 on 11-16-95

TOC Elevation: 9.77 feet msl

Completed at 1320 on 11-16-95

Depth to Groundwater: 7.89 feet TOC Measured: 1-22-96

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

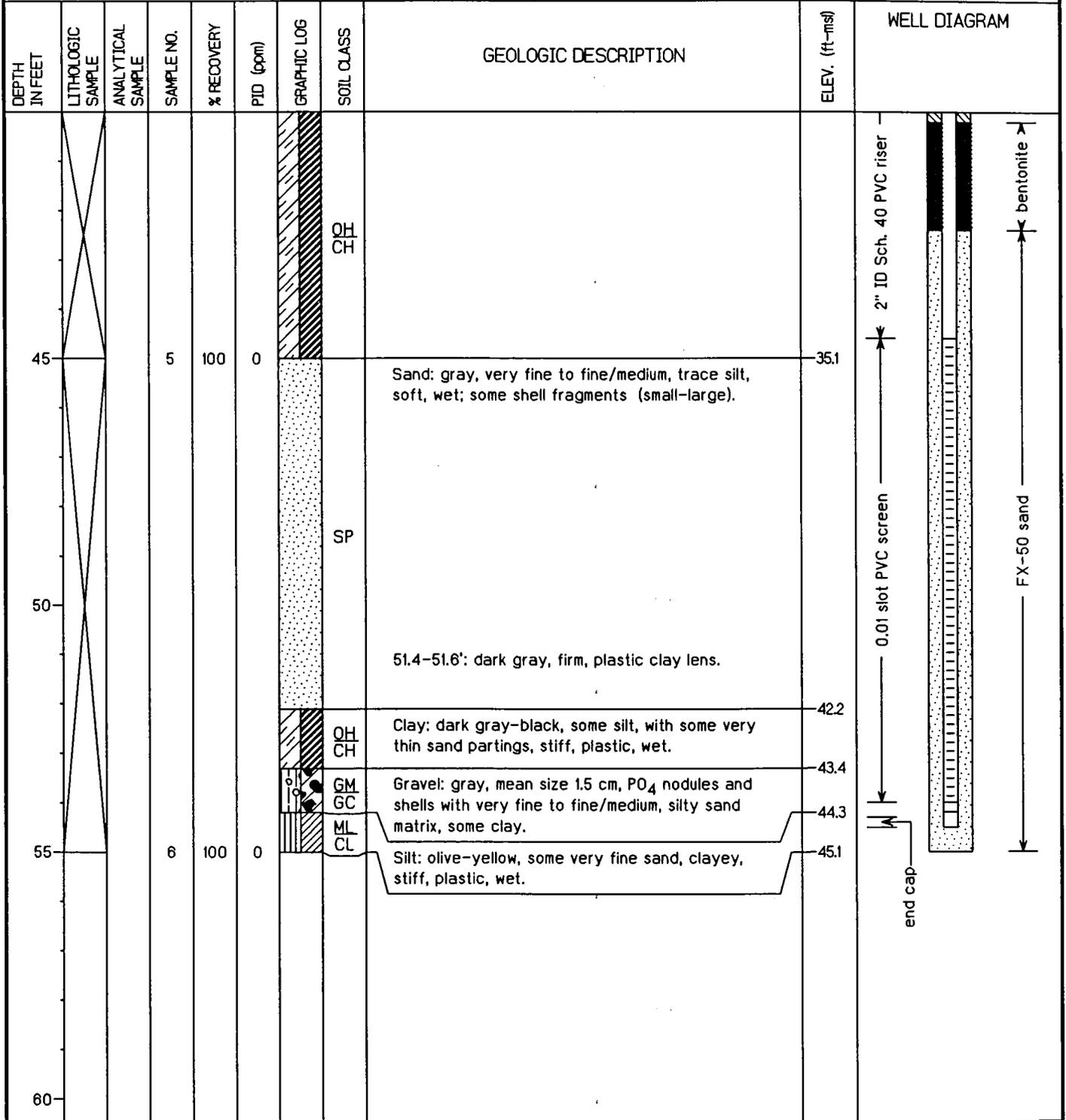
Groundwater Elevation: 1.88 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 54.5 feet bgs

Geologist: P. Bayley

Well Screen: 44.6 to 54.0 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA01D

Project: ZONE A - Naval Base Charleston

Coordinates: 2316595.85 E, 380626.91 N

Location: Charleston, SC

Surface Elevation: 9.0 feet msl

Started at 0950 on 11-15-95

TOC Elevation: 11.33 feet msl

Completed at 1130 on 11-15-95

Depth to Groundwater: 9.65 feet TOC Measured: 1-22-96

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

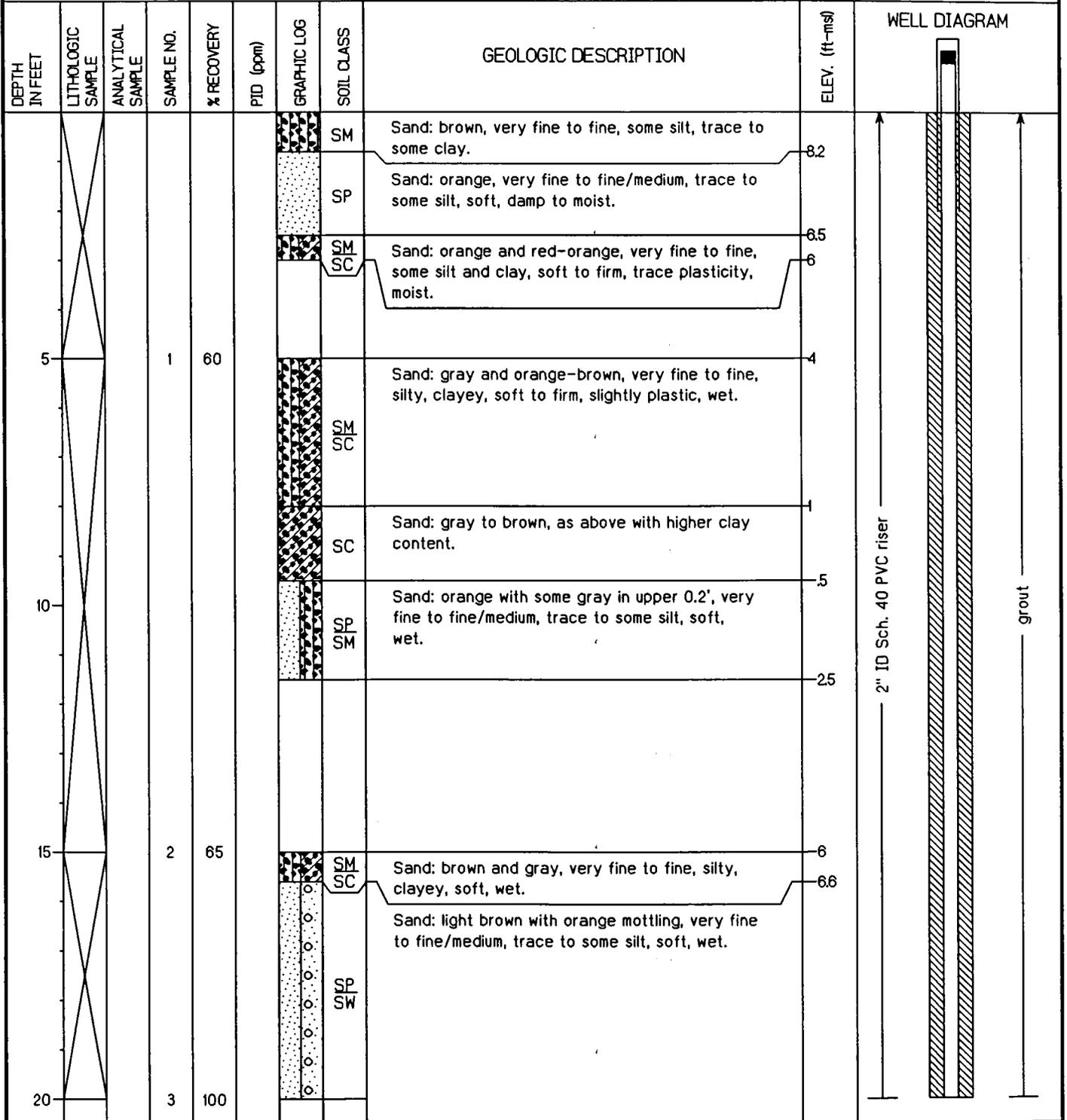
Groundwater Elevation: 168 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 35.5 feet bgs

Geologist: P. Bayley

Well Screen: 25.6 to 35.0 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA01D

Project: ZONE A - Naval Base Charleston

Coordinates: 2316595.85 E, 380626.91 N

Location: Charleston, SC

Surface Elevation: 9.0 feet msl

Started at 0950 on 11-15-95

TOC Elevation: 11.33 feet msl

Completed at 1130 on 11-15-95

Depth to Groundwater: 9.65 feet TOC Measured: 1-22-96

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

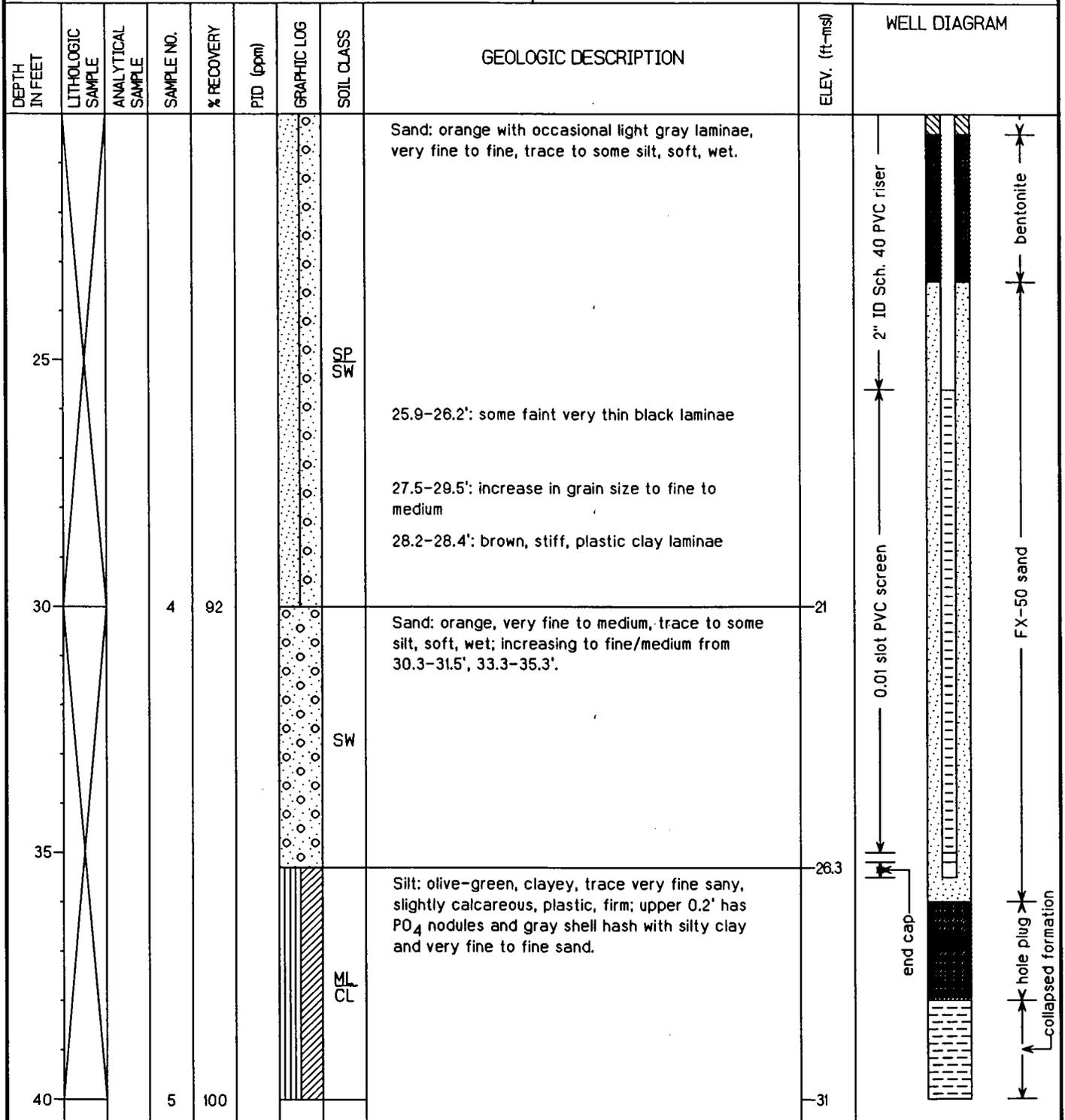
Groundwater Elevation: 1.68 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 35.5 feet bgs

Geologist: P. Bayley

Well Screen: 25.6 to 35.0 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA02D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315781.35 E, 380418.60 N

Location: Charleston, SC

Surface Elevation: 8.76 feet msl

Started at 1320 on 11-17-95

TOC Elevation: 8.53 feet msl

Completed at 1600 on 11-17-95

Depth to Groundwater: 7.78 feet TOC Measured: 1-22-96

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

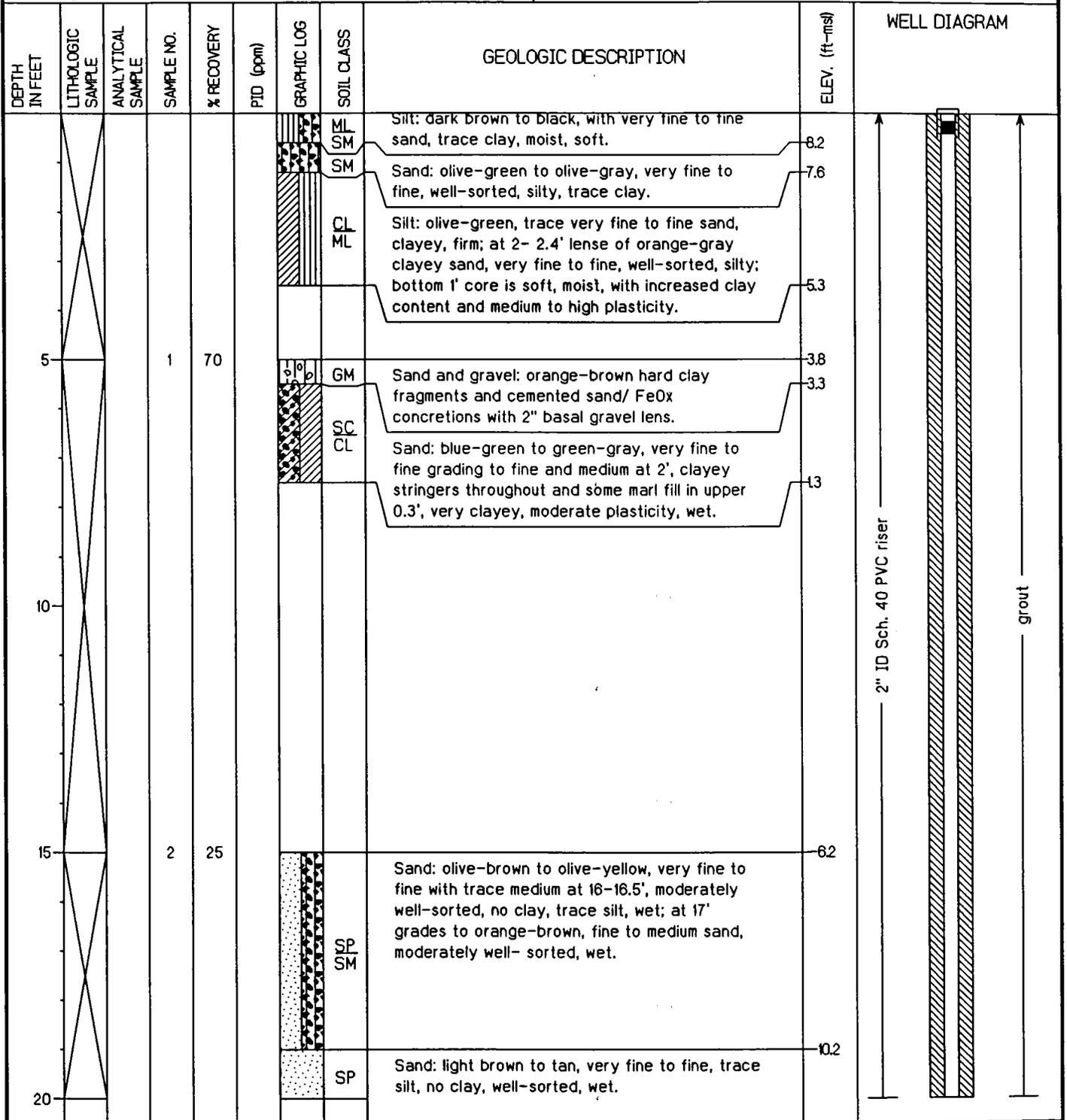
Groundwater Elevation: 1.64 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 49.7 feet bgs

Geologist: T. Kafka

Well Screen: 39.8 to 49.2 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA02D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315781.35 E, 380418.60 N

Location: Charleston, SC

Surface Elevation: 8.76 feet msl

Started at 1320 on 11-17-95

TOC Elevation: 8.53 feet msl

Completed at 1600 on 11-17-95

Depth to Groundwater: 7.78 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 164 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 49.7 feet bgs

Geologist: T. Kafka

Well Screen: 39.8 to 49.2 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	100			SP	Sand: olive-brown, as above, with trace of clay from 32-33'.		<p>2" ID Sch. 40 PVC riser</p> <p>grout</p> <p>bentonite</p>
35			4	90			SM	Sand: orange-brown, very fine to fine, higher silt content than above, saturated.	25.2	
							SM SP	Sand: orange-brown, with black silty pods throughout, very fine to fine, well-sorted, saturated.	26.2	
							SC	Sand: gray, clayey stringer, wet.	27.7 28	
40			5	90			SM SP	Sand: orange-brown, very fine to fine, well-sorted, some silt, no clay, wet.	30.7 31.2	
							SM SP			

EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA02D

Project: ZONE A - Naval Base Charleston

Coordinates: 2315781.35 E, 380418.60 N

Location: Charleston, SC

Surface Elevation: 8.76 feet msl

Started at 1320 on 11-17-95

TOC Elevation: 8.53 feet msl

Completed at 1600 on 11-17-95

Depth to Groundwater: 7.78 feet TOC Measured: 1-22-96

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

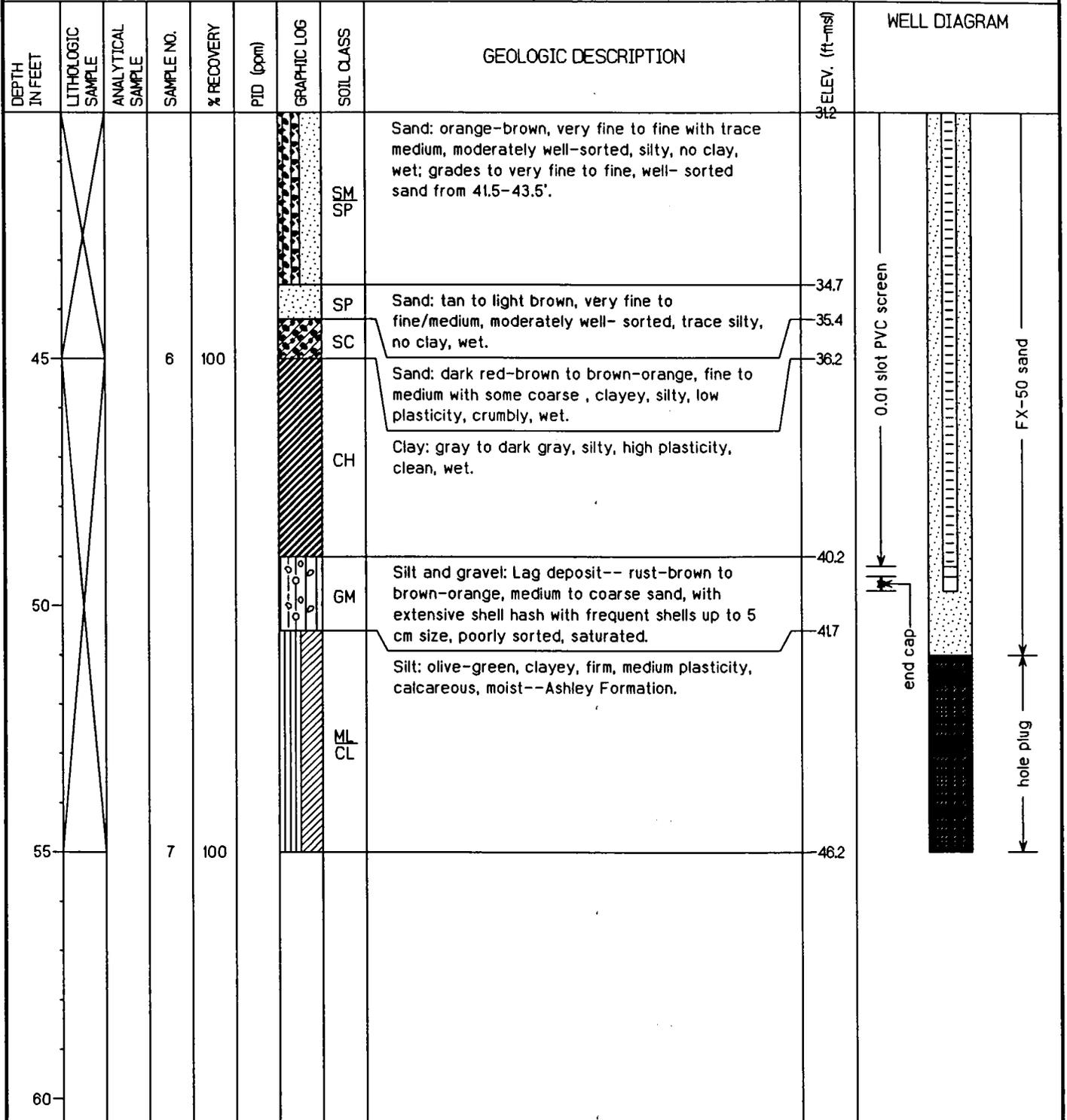
Groundwater Elevation: 1.64 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 49.7 feet bgs

Geologist: T. Kafka

Well Screen: 39.8 to 49.2 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA03D

Project: ZONE A - Naval Base Charleston

Coordinates: 2316794.41 E, 379847.19 N

Location: Charleston, SC

Surface Elevation: 6.3 feet msl

Started at 1410 on 11-14-95

TOC Elevation: 8.77 feet msl

Completed at 1500 on 11-14-95

Depth to Groundwater: 7.78 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 0.99 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 34.4 feet bgs

Geologist: P. Bayley

Well Screen: 24.5 to 33.9 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
						▼▼▼	FILL	ROC: light gray, gravel and silty sand.		
						■	SC	Sand: orange-brown to brown, very fine to fine, some silt, with clay laminations at 1.5-1.9', 2.6-2.9', 3.4-3.6'.	4.8	
5			1	72				Clay: dark gray-black, silty, soft, with occasional vegetation/roots and grass, wet-- marsh clay.	2.7	
						▨	OH	Small 0.4' lens of yellow-brown silt and peat, with very fine sand, some woody pieces, very soft, wet.	1.3	
									6.1	
15			2	84		▨	OH	Clay: marsh clay as above.	8.7	
20			3	100		▨		Woody knots from 19.5-20' and 20-20.5'.		

EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA03D

Project: ZONE A - Naval Base Charleston

Coordinates: 2316794.41 E, 379847.19 N

Location: Charleston, SC

Surface Elevation: 6.3 feet msl

Started at 1410 on 11-14-95

TOC Elevation: 8.77 feet msl

Completed at 1500 on 11-14-95

Depth to Groundwater: 7.78 feet TOC Measured: 1-22-96

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

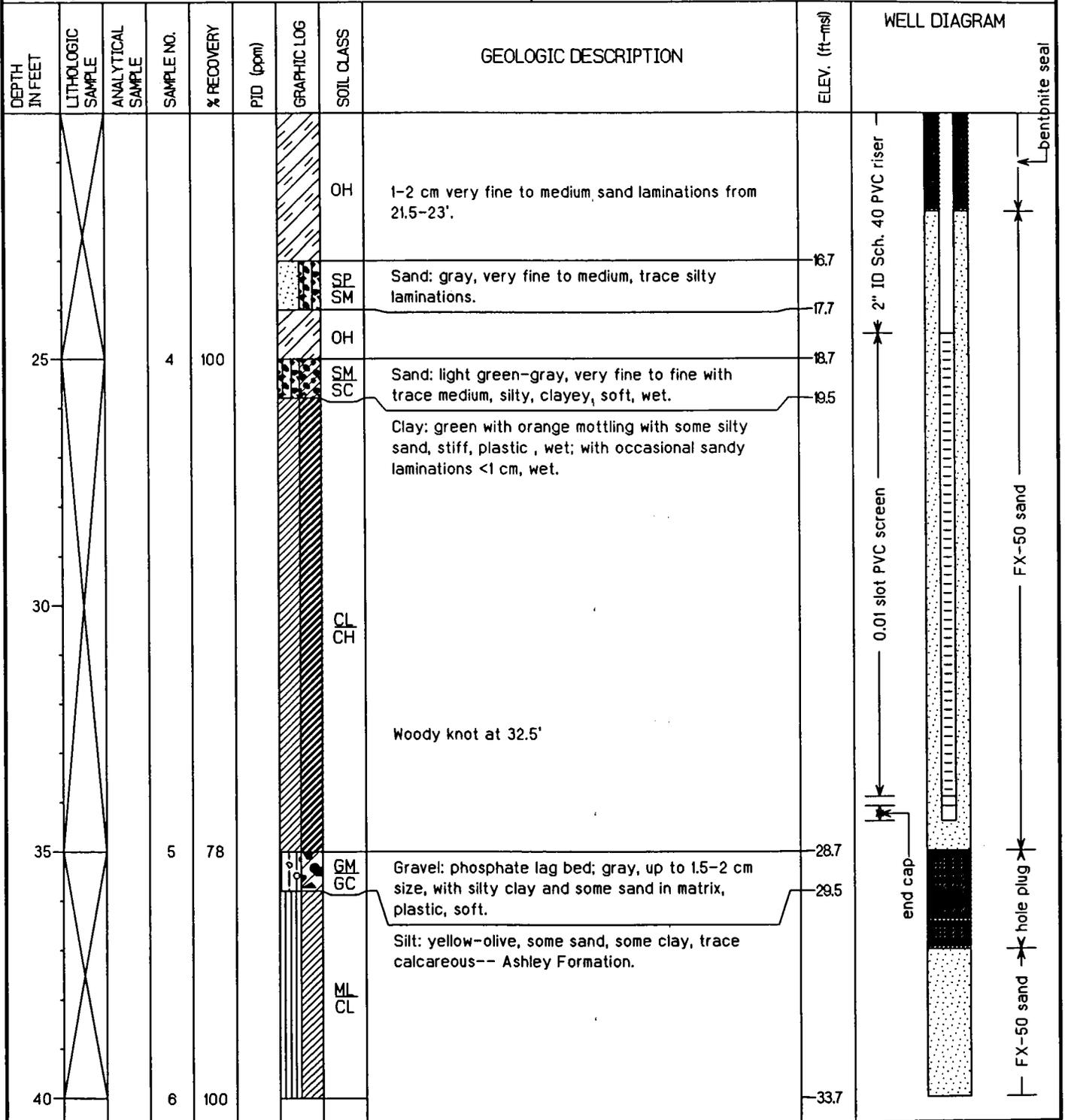
Groundwater Elevation: 0.99 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 34.4 feet bgs

Geologist: P. Bayley

Well Screen: 24.5 to 33.9 feet bgs



EnSafe/Allen & Hoshall

Monitoring Well NBCAGDA03D

Project: ZONE A - Naval Base Charleston

Coordinates: 2316794.41 E, 379847.19 N

Location: Charleston, SC

Surface Elevation: 6.3 feet msl

Started at 1410 on 11-14-95

TOC Elevation: 8.77 feet msl

Completed at 1500 on 11-14-95

Depth to Groundwater: 7.78 feet TOC Measured: 1-22-96

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

Groundwater Elevation: 0.99 feet msl

Drilling Company: Alliance Environmental

Total Well Depth: 34.4 feet bgs

Geologist: P. Bayley

Well Screen: 24.5 to 33.9 feet bgs

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	33.7 ELEV. (ft-msl)	WELL DIAGRAM
45										 FX-50 sand
50										
55										
60										

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\038001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/18/95	45	7.12	999+	0.532	24	0.02	15
10/18/95	55	7.1	999+	0.53	23.2	0.02	15
10/18/95	65	7.09	999+	0.526	23.4	0.02	15
10/18/95	80	7.09	999+	0.53	23.2	0.02	15
10/18/95	90	7.09	475	0.529	23.2	0.02	15
10/18/95	100	7.08	272	0.533	23.2	0.02	15
10/18/95	110	7.12	146	0.532	23	0.02	15

Well Development Completed on: 10/18/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\038002

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/18/95	5	7.02	999+	0.311	22.9	0.01	14
10/18/95	10	7.11	999+	0.317	23.1	0.01	14
10/18/95	40	7.07	573	0.315	23.6	0.01	14
10/18/95	45	7.03	450	0.316	24.1	0.01	14
10/18/95	55	7.03	193	0.316	24	0.01	14
10/18/95	60	7.14	395	0.317	23.9	0.01	14
10/18/95	65	7.09	133	0.316	23.6	0.01	14
10/18/95	67	7.05	43	0.316	23.8	0.01	14
10/18/95	75	7.04	38	0.317	23.8	0.01	14

Well Development Completed on: 10/18/95

COMMENTS: NO VISIBLE TURBIDITY

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\03801D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
11/20/95	10	5.72	999+	0.428	19.8	0.01	51
11/20/95	20	7.5	510	0.364	20.1	0.01	51
11/20/95	30	8.24	364	0.356	20	0.01	51
11/20/95	40	8.29	333	0.36	20.1	0.01	51
11/20/95	50	8.29	260	0.365	19.9	0.01	51
11/20/95	60	8.3	161	0.419	19.9	0.01	51
11/20/95	70	8.29	121	0.43	19.9	0.01	51
11/20/95	80	8.25	92	0.438	20	0.01	51
11/20/95	90	8.21	115	0.448	20.2	0.01	51

Well Development Completed on: 11/20/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\039001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/19/95	35	6.83	306	0.372	25.1	0.02	24
10/19/95	45	6.93	311	0.374	24.1	0.01	24
10/19/95	50	6.91	102	0.375	24.3	0.01	24
10/19/95	60	6.93	70	0.377	24.1	0.01	24
10/19/95	65	6.94	45	0.374	24	0.01	24
10/19/95	70	6.94	36	0.375	24	0.01	24

Well Development Completed on: 10/19/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\039002

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/20/95	10	6.1	999	0.409	22.5	0.01	31
10/20/95	30	6.51	999	0.345	22.5	0.01	31
10/20/95	60	6.94	786	0.336	22.7	0.01	31
10/20/95	100	6.78	393	0.329	23.2	0.01	31
10/20/95	105	6.75	490	0.33	23.1	0.01	31
10/21/95	110	6.42	541	0.379	20.5	0.01	31
10/21/95	135	6.75	242	0.381	21.7	0.01	31
10/21/95	140	6.8	77	0.359	21.2	0.01	31

Well Development Completed on: 10/21/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\039003

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/18/95	10	6.23	999+	0.321	22.7	0.01	13
10/18/95	27	6.99	999+	0.299	25	0.01	13
10/18/95	45	7.03	999+	0.274	25.4	0.01	13
10/18/95	50	7	685	0.273	25.3	0.01	13
10/18/95	55	6.98	184	0.272	25.5	0.01	13
10/18/95	60	6.99	217	0.272	25.4	0.01	13
10/18/95	69	7	29	0.273	25.4	0.01	13
10/18/95	75	7.04	107	0.27	25.1	0.01	13
10/18/95	90	7.01	0	0.271	25.4	0.01	13

Well Development Completed on: 10/18/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\039004

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/20/95	20	6.78	195	0.327	25.3	0.01	32
10/20/95	30	6.79	39	0.344	25.7	0.01	32
10/20/95	55	6.55	9	0.346	25.2	0.01	32

Well Development Completed on: 10/20/95

COMMENTS :

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\039005

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/20/95	7	6.5	999	0.445	24.6	0.01	33
10/20/95	30	6.45	124	0.452	24.4	0.01	33
10/20/95	45	6.41	230	0.456	24.3	0.01	33
10/20/95	60	6.41	330	0.454	24.7	0.01	33
10/20/95	65	6.41	59	0.454	24.6	0.01	33
10/20/95	80	6.41	44	0.455	24.5	0.01	33
10/20/95	90	6.42	16	0.454	24.5	0.01	33

Well Development Completed on: 10/20/95

COMMENTS :

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\03904D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
11/21/95	10	6.83	676	0.247	19.4	0	54
11/21/95	20	8.63	660	0.179	20.2	0	54
11/21/95	30	8.45	350	0.169	20.5	0	54
11/21/95	45	8.62	275	0.186	20.3	0	54
11/21/95	50	8.58	268	0.194	20.8	0	54
11/21/95	60	8.62	275	0.199	20.3	0	54

Well Development Completed on: 11/21/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\042001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/21/95	10	6.03	999+	0.608	23.6	0.02	37
10/21/95	15	6.06	999+	0.597	23.8	0.02	37
10/21/95	25	6.11	999+	0.546	24.1	0.02	37
10/21/95	40	6.02	265	0.518	23.9	0.02	37
10/21/95	50	5.97	163	0.52	23.9	0.02	37
10/21/95	60	5.97	156	0.526	24.1	0.02	37
10/21/95	70	5.96	67	0.529	24.1	0.02	37
10/21/95	75	5.96	26	0.53	24	0.02	37

Well Development Completed on: 10/21/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\042002

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/22/95	40	4.65	412	0.823	22.7	0.03	38
10/22/95	45	4.3	86	0.718	24	0.03	38
10/22/95	50	4.25	29	0.7	24.7	0.03	38
10/22/95	55	4.17	10	0.709	25.5	0.03	38

Well Development Completed on: 10/22/95

COMMENTS :

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\042003

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/21/95	5	5.28	999+	0.528	23	0.02	35
10/21/95	10	5.52	94	0.95	22.5	0.04	35
10/21/95	20	5.43	999+	0.874	25	0.03	35
10/21/95	38	4.78	198	0.949	25.4	0.04	35
10/21/95	45	4.77	131	1.03	25.2	0.04	35
10/21/95	48	4.77	28	1.03	25.4	0.04	35

Well Development Completed on: 10/21/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\505001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/20/95	7	6.43	999+	0.35	24.9	0.01	34
10/20/95	20	6.27	999+	0.332	25.2	0.01	34
10/20/95	25	6.15	99	0.328	25.1	0.01	34
10/20/95	30	6.21	7	0.333	25	0.01	34
10/20/95	40	6.19	3	0.333	25	0.01	34

Well Development Completed on: 10/20/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\506001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/21/95	35	6.27	129	0.734	27.4	0.03	36
10/21/95	40	6.02	67	0.707	26.4	0.03	36
10/21/95	45	6.05	45	0.706	26.4	0.03	36
10/21/95	53	6.17	13	0.706	25.7	0.03	36

Well Development Completed on: 10/21/95

COMMENTS :

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\GDA001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/19/95	7	6.79	999+	0.429	23.1	0.01	16
10/19/95	20	7.17	999+	0.373	23.3	0.01	16
10/21/95	50	6.67	999+	0.368	20.7	0.01	16
10/21/95	60	6.9	662	0.31	20.1	0.01	16
10/21/95	65	6.88	692	0.305	20.9	0.01	16
10/21/95	70	6.95	531	0.302	21.6	0.01	16
10/21/95	90	6.63	122	0.36	20.2	0.01	16
10/21/95	100	7.21	63	0.339	21.5	0.01	16

Well Development Completed on: 10/21/95

COMMENTS: THIS WELL WAS COMPLETED BY BAILING

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\GDA002

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/23/95	5	6.25	999+	0.779	24.5	0.03	41
10/23/95	15	6.63	760	1.14	26	0.05	41
10/23/95	25	6.79	999+	1.35	25	0.05	41
10/25/95	37	6.65	999+	0.897	26.1	0.04	47
10/25/95	39	6.7	257	0.807	25.5	0.03	47

Well Development Completed on: 11/2/95

COMMENTS: THIS WELL WAS COMPLETE WHEN THERE WAS NO VISIBLE
 TURBIDITY OBSERVED. THERE WAS HIGH PETROLEUM ODOR PRESENT
 THROUGHOUT THE DEVELOPMENT. TOTAL VOLUME PURGED WAS 52 GALLONS.

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\GDA003

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
10/19/95	4	6.53	999+	4.51	25	0.23	18
10/23/95	30	5.43	585	4.75	23.2	0.24	45
10/23/95	50	5.67	192	2.75	24.5	0.14	45
10/23/95	70	5.64	82	2.84	25.7	0.14	45
10/23/95	80	5.6	65	2.49	24.2	0.12	45
10/23/95	85	5.49	112	2.84	24.9	0.14	45
10/23/95	90	5.47	59	2.23	25.1	0.11	45
10/24/95	100	6.84	75	3.8	24.9	0.04	44
10/24/95	110	6.84	130	2.74	25.2	0.13	44

Well Development Completed on: 10/24/95

COMMENTS: WELL WAS COMPLETED BY BAILING

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\GDA01D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
11/21/95	10	7.34	638	5.77	20.7	0.07	56
11/21/95	20	7.3	280	4.65	20.9	0.24	56
11/21/95	30	7.2	191	4.44	21	0.22	56
11/21/95	40	7.3	171	4.26	21.2	0.21	56
11/21/95	50	7.19	129	4.25	21.1	0.22	56
11/21/95	60	7	67	4.35	20.7	0.22	56
11/21/95	70	7.04	47	4.58	21	0.23	56
11/21/95	80	6.96	36	4.76	21.6	0.25	56
11/21/95	90	6.89	19	4.94	21.4	0.25	56

Well Development Completed on: 11/21/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\GDA02D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
11/21/95	10	7.3	999	9.61	22.7	0.53	57
11/21/95	20	7.11	529	10.8	22.9	0.61	57
11/21/95	30	7.04	328	12.2	22.5	0.68	57
11/21/95	40	6.99	208	12.7	23	0.72	57
11/21/95	60	7.04	139	13.4	22.5	0.77	57
11/21/95	75	6.9	109	14.1	22.8	0.83	57
11/21/95	80	6.88	84	14.4	22.5	0.85	57
11/21/95	90	6.91	48	15.1	22.5	0.87	57
11/21/95	100	6.88	62	15.4	22.5	0.9	57

Well Development Completed on: 11/21/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\GDA03D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
11/21/95	5	6.16	999+	35.4	21.4	2.25	60
11/21/95	30	6.76	999+	47	22.6	3.07	61
11/21/95	65	6.61	999+	49.1	22	3.21	61
11/21/95	95	6.57	528	50.1	21.6	3.28	61
11/22/95	162	6.41	170	47.6	21.3	3.1	62
11/22/95	180	6.41	231	47.2	21.5	3.08	62
11/22/95	195	6.43	158	47.4	21.5	3.09	62
11/22/95	210	6.41	229	47.7	21.6	3.11	62
11/22/95	220	6.43	359	47.8	21.6	3.12	62

Well Development Completed on: 11/22/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\002001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
9/11/95	10	6.97	730	1.5	24.5	0.06	8
9/11/95	14	6.89	546	1.5	24.2	0.06	8
9/11/95	18	6.86	235	1.49	24	0.06	8
9/11/95	23	6.8	-10	1.5	23.8	0.06	8
9/11/95	28	6.77	243	1.5	23.7	0.06	8
9/11/95	35	6.68	194	1.5	23.8	0.06	8
9/11/95	40	6.62	-10	1.51	23.7	0.07	8
9/11/95	44	6.58	-10	1.51	23.5	0.07	8
9/11/95	50	6.56	-10	1.51	23.5	0.07	8

Well Development Completed on: 9/11/95

COMMENTS: FORMER WELL NUMBER WAS CNSY-02-01

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\002002

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. PG#
9/8/95	3	6.12	835	5.01	24.8	0.26	I 2
9/8/95	10	6.23	355	3.91	24	0.2	I 2
9/8/95	20	6.23	180	3.56	23.9	0.18	I 2
9/8/95	33	6.24	108	3.41	23.9	0.17	I 2
9/8/95	37	6.21	-10	3.19	23.9	0.16	I 2
9/8/95	40	6.22	-10	3.11	23.8	0.15	I 2
9/8/95	45	-	-	-	-	-	I 2

Well Development Completed on: 9/8/96

COMMENTS: FORMER WELL NUMBER WAS CNSY-02-02

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\002003

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
9/11/95	2	6.53	999	0.91	26.2	0.04	7
9/11/95	10	6.44	999	0.629	23.6	0.02	7
9/11/95	28	6.36	880	0.602	23.4	0.02	7
9/11/95	36	6.33	-10	0.6	23.3	0.02	7
9/11/95	40	6.38	654	0.618	23.3	0.02	7
9/11/95	42	6.37	631	0.615	23.2	0.02	7
9/11/95	45	6.33	-10	0.609	23.1	0.02	7
9/11/95	50	6.39	-10	0.618	23.1	0.02	7
9/11/95	52	6.38	-10	0.614	23.1	0.02	7

Well Development Completed on: 9/11/95

COMMENTS: FORMER WELL NUMBER WAS CNSY-02-03

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\002004

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
9/11/95	12	7.05	999	1.46	26.2	0.06	8
9/11/95	18	7.12	555	1.37	26.3	0.06	8
9/11/95	22	7.24	345	1.32	26.3	0.06	8
9/11/95	24	7.26	302	1.28	26.3	0.05	8
9/11/95	30	7.17	96	1.23	26.3	0.05	8
9/11/95	33	7.2	30	0.898	26.4	0.03	8
9/11/95	35	7.17	-10	0.885	26.3	0.03	8
9/11/95	37	7.2	-10	0.862	26.2	0.03	8
9/11/95	41	7.27	-10	0.843	26.2	0.03	8

Well Development Completed on: 9/11/95

COMMENTS: FORMER WELL NUMBER WAS CNSY-02-04

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\002005

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
9/11/95	2	6.85	106	4	23.3	0.2	5,10-12
9/11/95	8	7.87	756	4.74	22.9	0.24	5,10-12
9/11/95	12	8.13	999+	4.64	23.8	0.24	5,10-12
9/11/95	12.25	8.38	999+	4.56	24.5	0.23	5,10-12

Well Development Completed on: 9/19/95

COMMENTS: THIS WELL HAD A HIGH H2S ODOR. IT WAS RETURNED TO SEVERAL TIMES AND BAILED. THE COMPLETION WAS BASED ON LOW VISIBLE TUBIDITY.

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

WELL DEVELOPMENT SUMMARY

Well:NBCA\002006

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
9/11/95	3	5.69	999	0.115	26.6	0	9
9/11/95	10	5.72	-10	0.098	25.5	0	9
9/11/95	15	5.63	340	0.094	26.2	0	9
9/11/95	20	5.18	384	0.093	26.4	0	9
9/11/95	23	5.24	-10	0.093	26.2	0	9
9/11/95	25	5.27	-10	0.092	26.4	0	9
9/11/95	27	5.24	-10	0.091	26.3	0	9
9/11/95	31	5.15	-10	0.091	26.3	0	9

Well Development Completed on: 9/11/95

COMMENTS: FORMER WELL NUMBER WAS CNSY-02-06

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

WELL DEVELOPMENT SUMMARY

Well: NCB\GDB001

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/24/95	6.5	7.03	477	21.1	21.1	0.36	42
10/25/95	7	7.03	102	7.15	22.1	0.38	46
10/27/95	9	6.63	177	30.3	23.3	1.89	48
10/27/95	10.5	6.89	314	29.6	22.6	1.85	48
11/1/95	-	-	-	-	-	-	50

Well Development Completed on: 11/1/95

COMMENTS: WELL WAS COMPLETE ON THE FACT THAT THERE WAS NO VISIBLE
 TUBIDITY AFTER BAILING 25 GALLONS FROM THIS WELL.

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

WELL DEVELOPMENT SUMMARY

Well: NBCB\GDB002

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/19/95	20	7.27	999+	9.88	22	0.55	20
10/19/95	25	7.33	597	9.85	22.4	0.61	20
10/19/95	30	7.59	714	10.4	22.1	0.58	20
10/19/95	40	7.79	989	9.3	22.4	0.52	20
10/19/95	50	7.41	676	10	21.8	0.56	20
10/19/95	70	7.42	156	10.6	22.5	0.59	20
10/19/95	72	7.57	59	10.6	22.4	0.59	20
10/19/95	75	7.31	33	10.6	22.7	0.59	20
10/19/95	80	7.39	17	10.6	21.9	0.59	20

Well Development Completed on: 10/19/95

COMMENTS: THE LAST TWO ENTRIES OF THIS LOG HAD FLUCTUATING READINGS ON CONDUCTIVITY, THE READINGS RANGED FROM 2.9 TO 10.6

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

WELL DEVELOPMENT SUMMARY

Well: NBCB\GDB003

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/19/95	22	7.17	705	5.55	22	0.29	25
10/21/95	33	7.2	263	9.04	21.3	0.49	25
10/21/95	35	7.24	560	4.24	21	0.51	25
10/22/95	60	7.05	211	2.47	21.1	0.59	25
10/22/95	75	5.69	999	13.4	21.7	0.77	26

Well Development Completed on: 10/23/95

COMMENTS: WELL WAS RESURGED ON 2/22/95. WELL DEVELOPMENT COMPLETED ON 10/23/95 BY B. BLYTHE.

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

WELL DEVELOPMENT SUMMARY

Well: NBCA\GDB004

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
10/19/95	5	5.89	999+	0.201	23.3	0	23
10/19/95	15	5.44	575	0.198	22.3	0	23
10/19/95	45	5.3	395	0.2	22	0	23
10/19/95	60	5.4	264	0.2	22	0	23
10/19/95	75	5.37	199	0.2	22.1	0	23
10/19/95	90	5.33	218	0.2	22.1	0	23
10/19/95	110	5.35	41	0.2	21.9	0	23

Well Development Completed on: 10/19/95

COMMENTS:

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

WELL DEVELOPMENT SUMMARY

Well: NBCB\GDB01D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL.I PG#
11/20/95	10	7.02	999+	8.38	19.8	0.46	52
11/20/95	35	7.06	999+	-	20.1	0.18	52
11/20/95	40	7	451	-	19.8	0.23	52
11/22/95	50	6.55	7	-	18.2	0.93	52

Well Development Completed on: 11/22/95

COMMENTS: THE CONDUCTIVITY ON THIS WELL VARIED DURING READINGS

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

WELL DEVELOPMENT SUMMARY

Well: NBCB\GDB04D

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

DATE	VOLUME Gallons	pH	Turb NTU	Cond mS/cm	Temp Celsius	Sal %	Log VOL. I PG#
11/22/95	10	8.9	999+	0.521	21.8	0.02	58
11/22/95	20	8.43	549	0.391	21.1	0.01	58
11/22/95	30	8.48	999+	0.363	20.8	0.01	58
11/22/95	40	8.28	581	0.402	20.8	0.01	58
11/22/95	60	8.24	280	0.409	20.6	0.01	58
11/22/95	65	8.24	198	0.411	20.4	0.01	58
11/22/95	70	8.17	76	0.415	20.6	0.01	58
11/22/95	90	8.17	11	0.418	20.2	0.01	58
11/22/95	100	8.14	10	0.419	20.2	0.01	58

Well Development Completed on: 11/22/95

COMMENTS: