164689

SUPPLEMENTAL REMEDIAL INVESTIGATION CONDUCTED AT THE SWOPE OIL AND CHEMICAL COMPANY SITE, PENNSAUKEN TOWNSHIP, CAMDEN COUNTY, NEW JERSEY

Volume III of V

March 1991

Geraghty & Miller, Inc.
Environmental Services
125 East Bethpage Road
Plainview, New York 11803

VOLUME III

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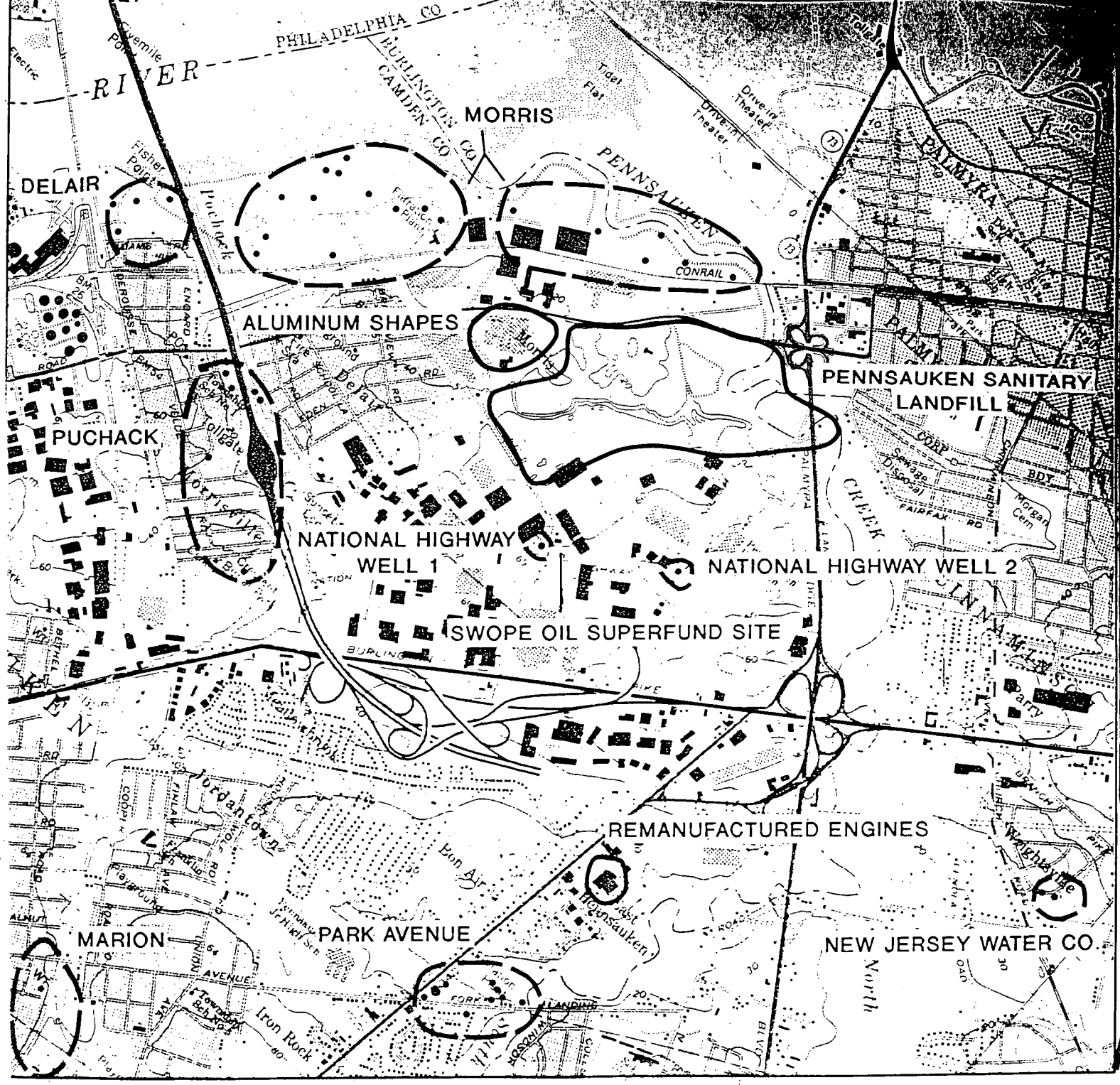
D. Gamma Logs.

E. Laboratory Data Sheets of Ground-Water Samples Collected During the First Sampling Round.



EXPLANATION

Boundary of public-supply well field

Boundary of waste-disposal site

• Public-supply well

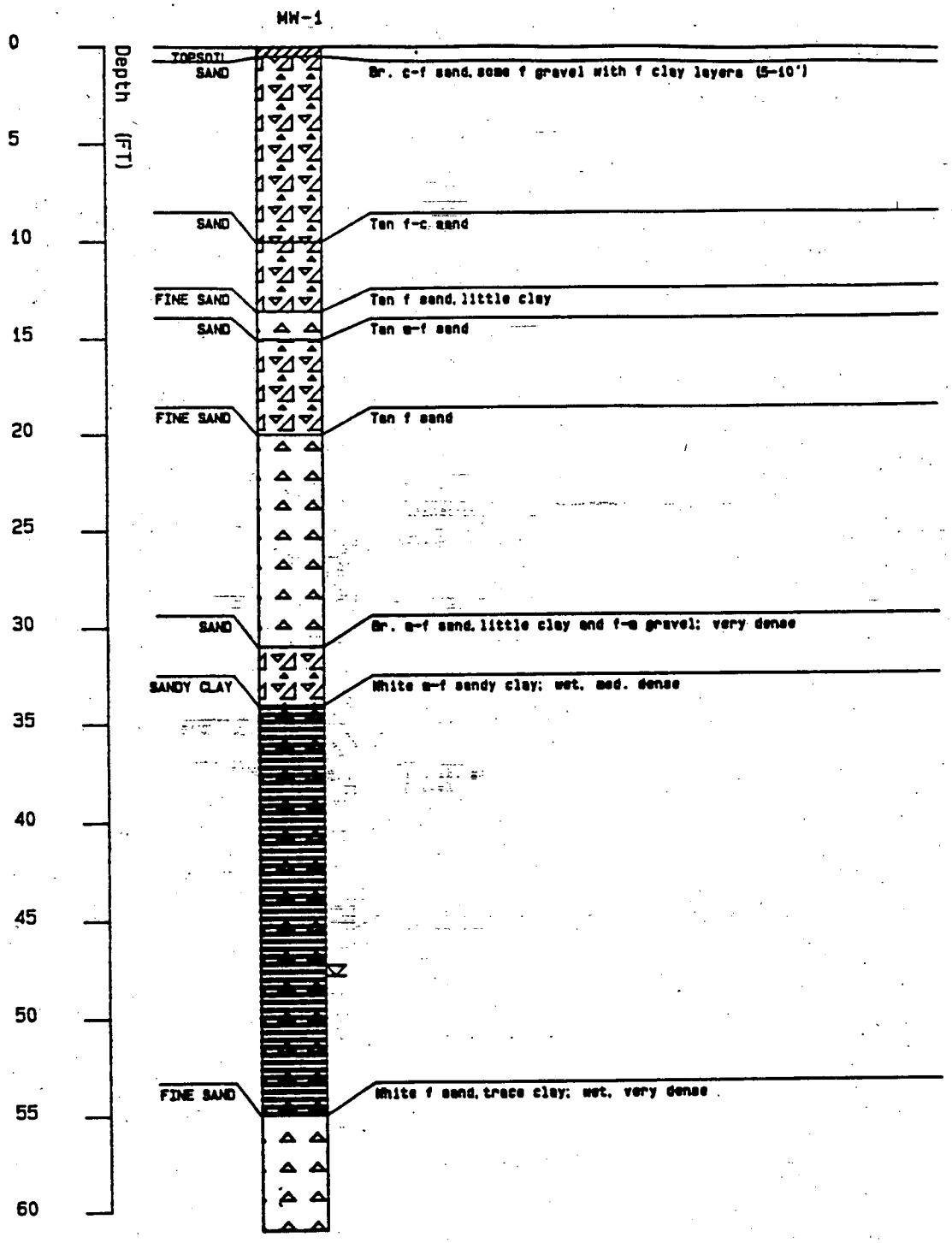
0 1/2 1 MILE

0 .5 1 KILOMETER

1c. Location of public-supply well fields and waste-disposal sites with observation-well networks.

APPENDIX A

Landfill Boring Logs/Well Construction Logs and
Well Construction Logs for MPWC Wells 1 and 2.



LEGEND ▽ Static Water Level

TOPSOIL SANDY CLAY FINE SAND SAND

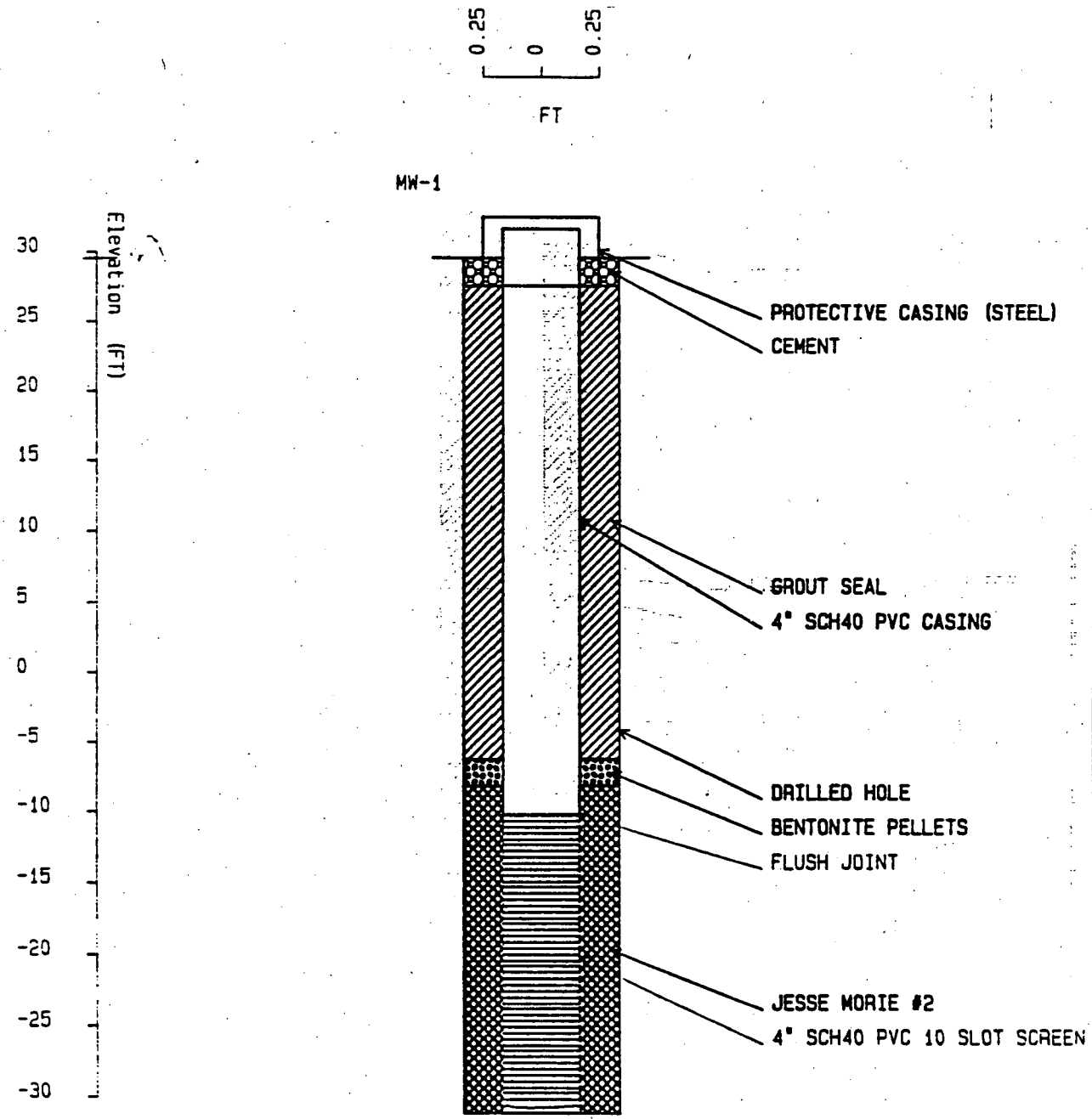
LITHOLOGIC LOG: MW-1

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

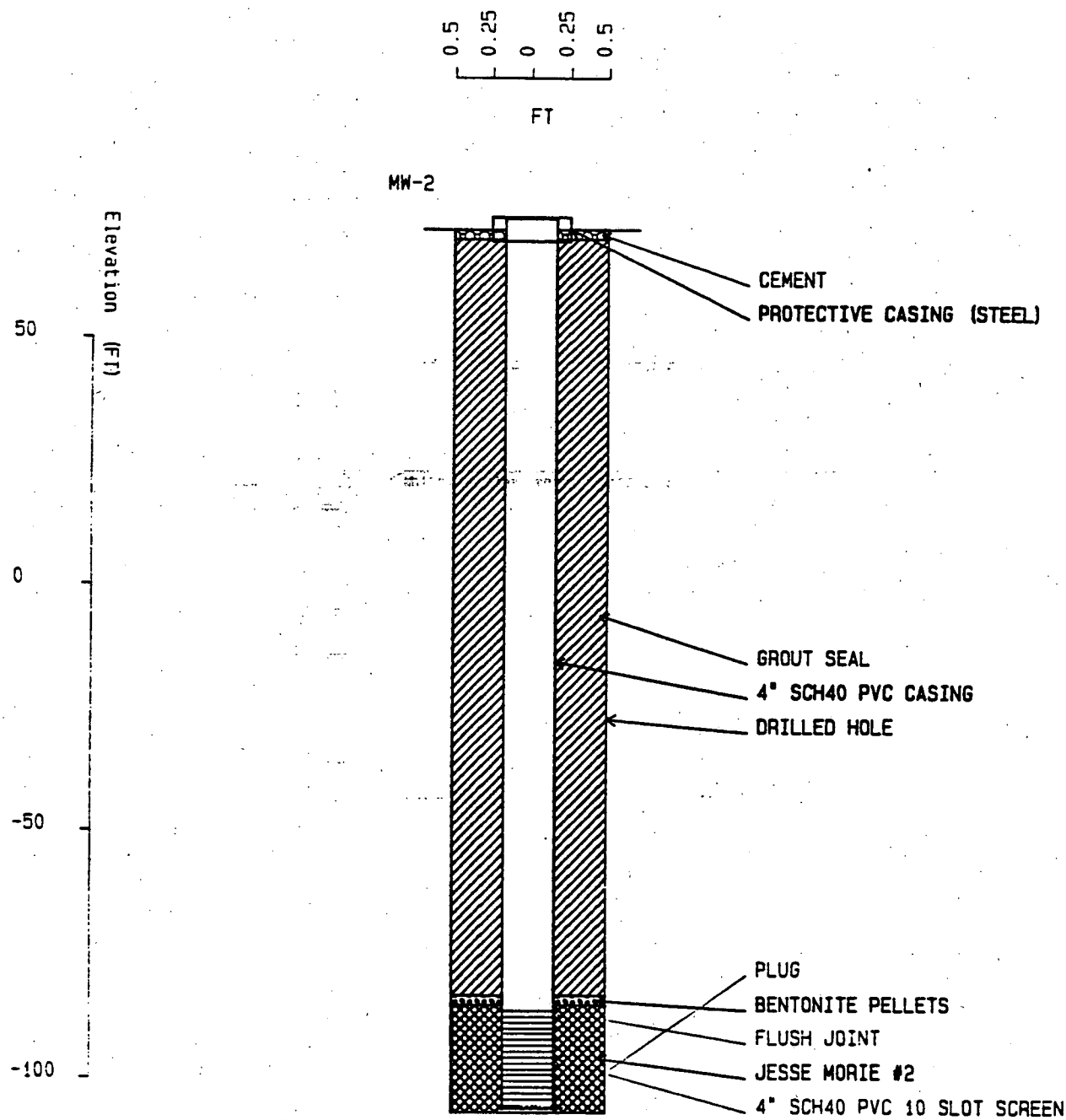
Figure : 1A



MONITORING WELL CONSTRUCTION DETAILS MW-1	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

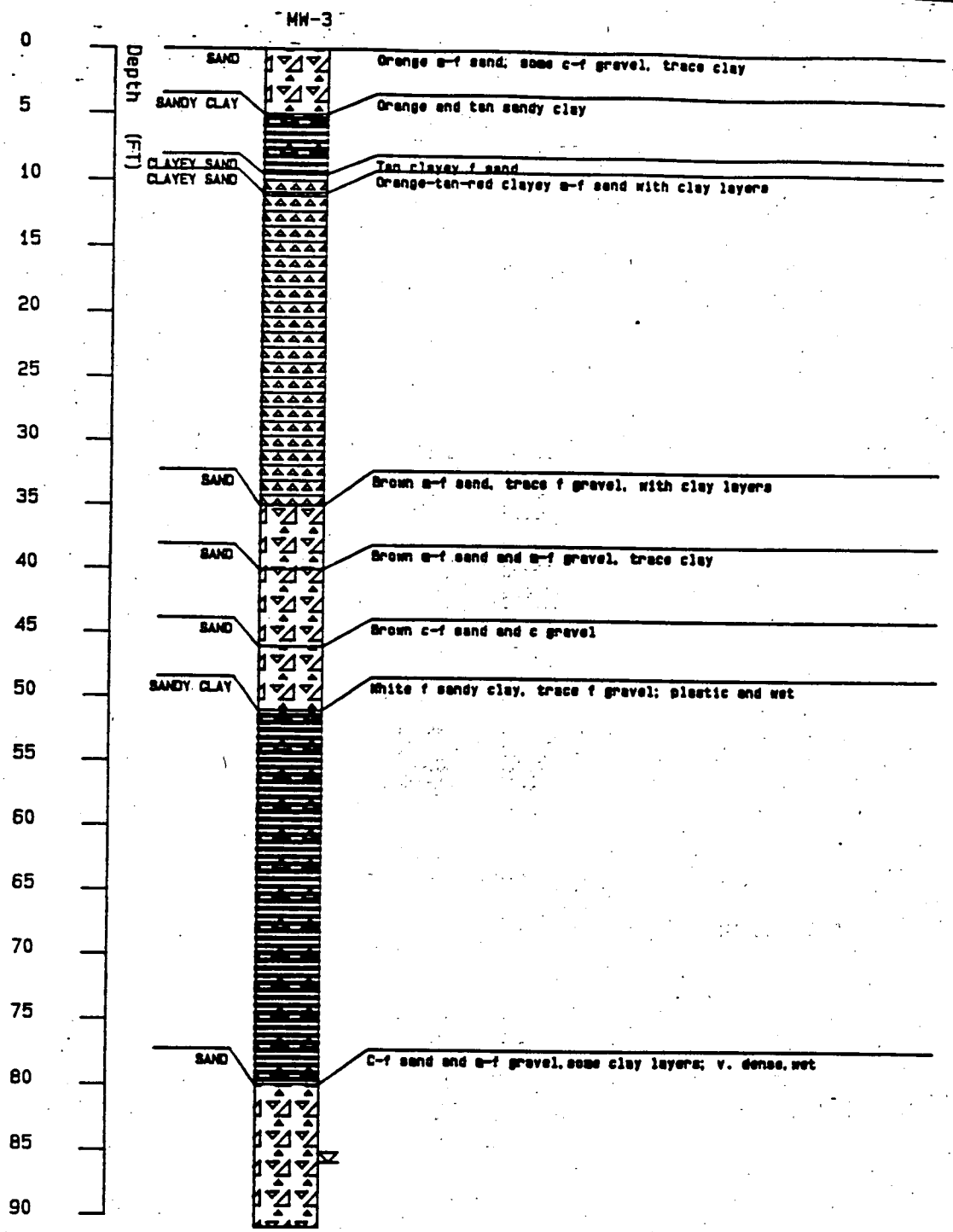
Figure : 1B



MONITORING WELL CONSTRUCTION DETAILS MW-2	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 2



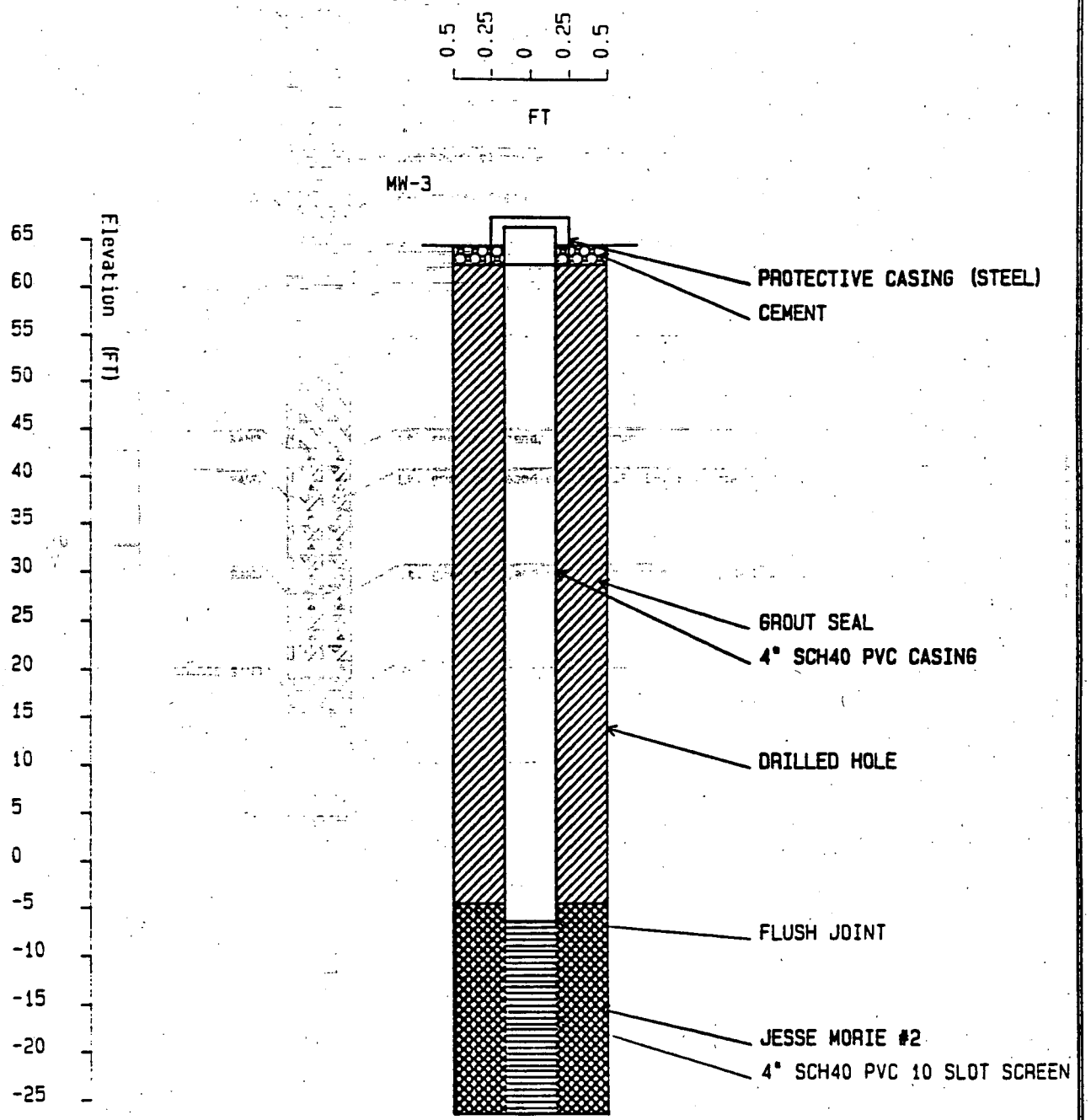
LITHOLOGIC LOG: MW-3

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

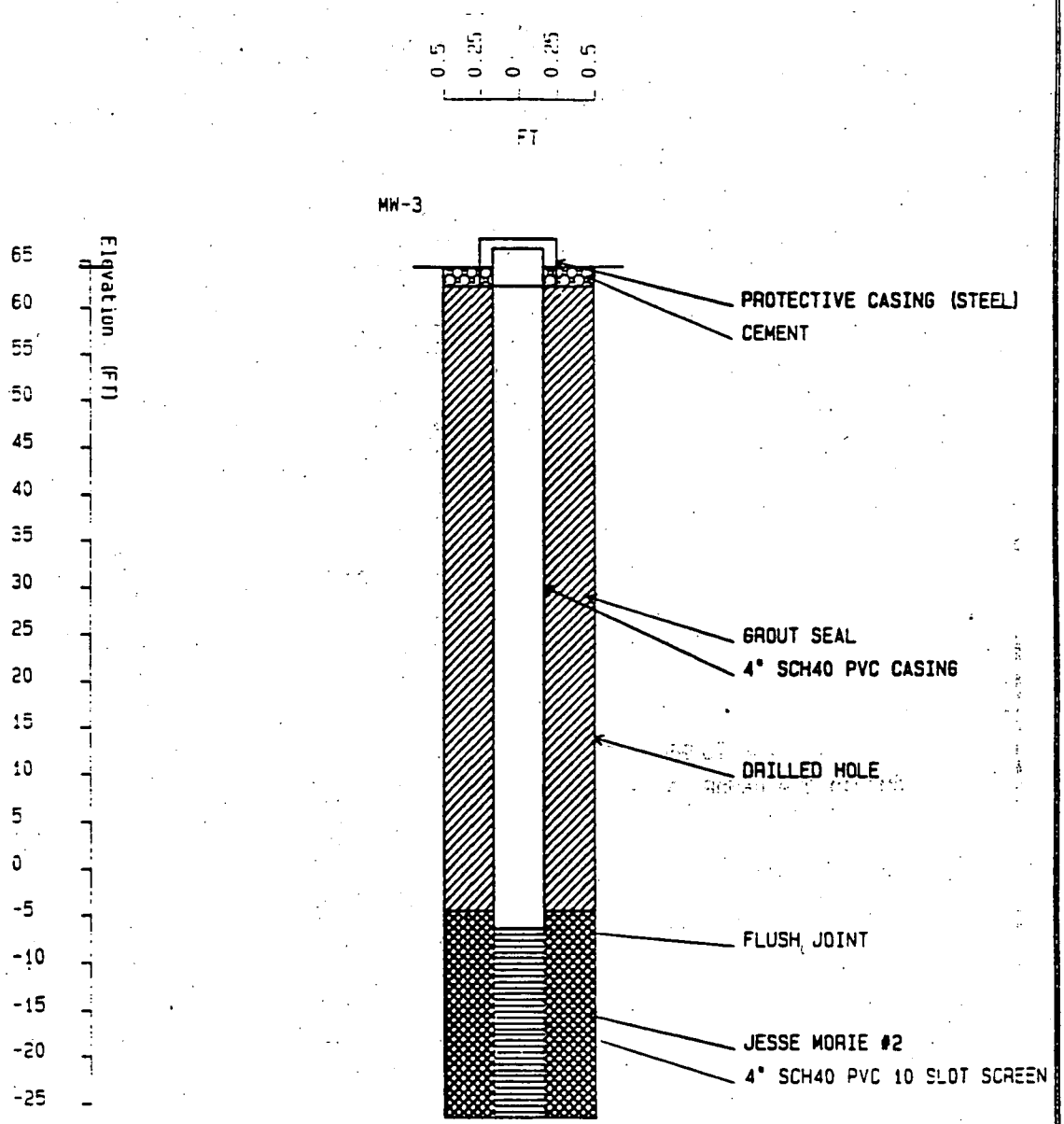
Figure : 3A



MONITORING WELL CONSTRUCTION DETAILS MW-3	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

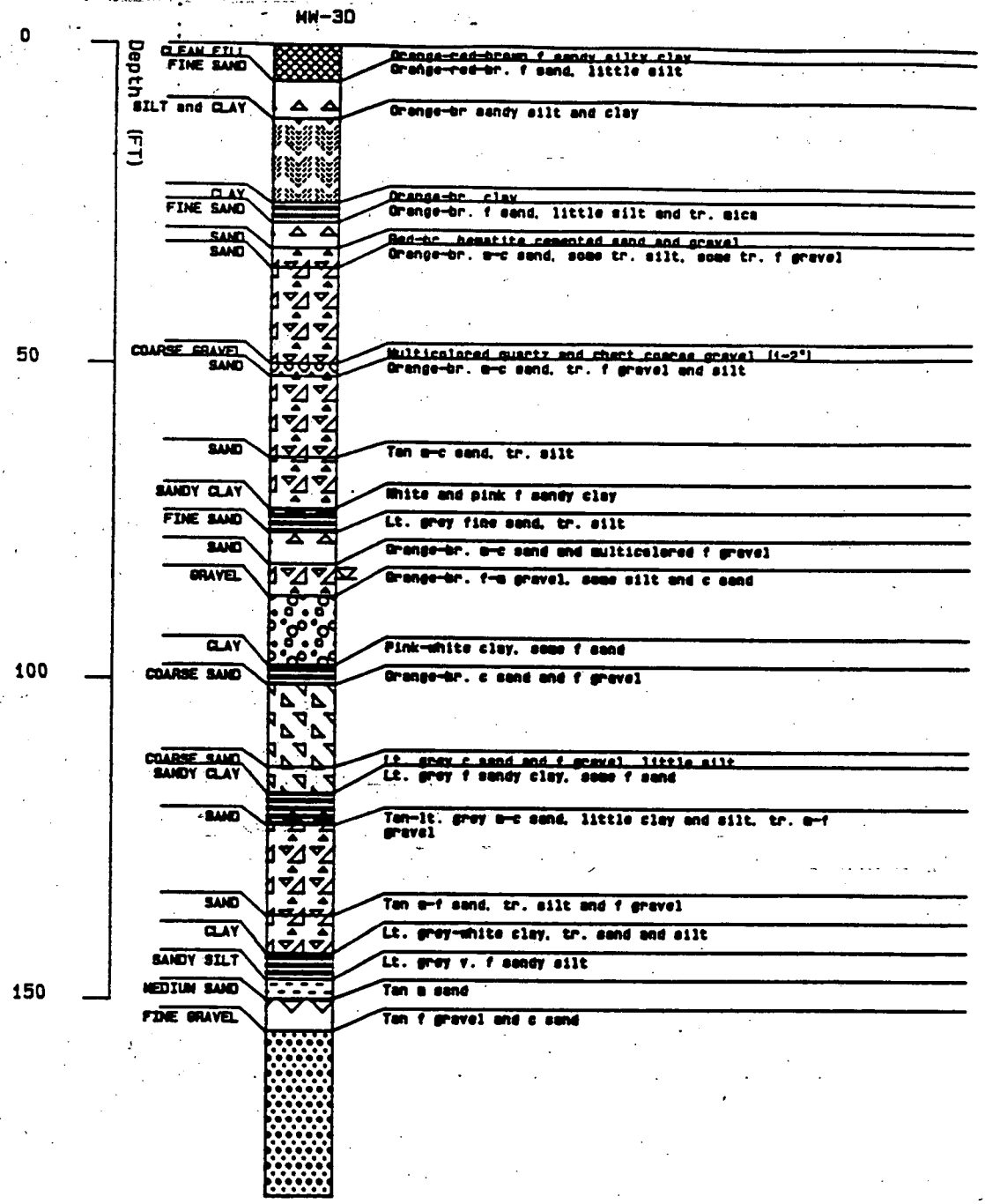
Figure : 3B



MONITORING WELL CONSTRUCTION DETAILS MW-3	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 3B



LEGEND ▽ Static Water Level

CLEAN FILL · SANDY CLAY · SANDY SILT · MEDIUM SAND · SAND · COARSE GRAVEL

CLAY · SILT and CLAY · FINE SAND · COARSE SAND · FINE GRAVEL · GRAVEL

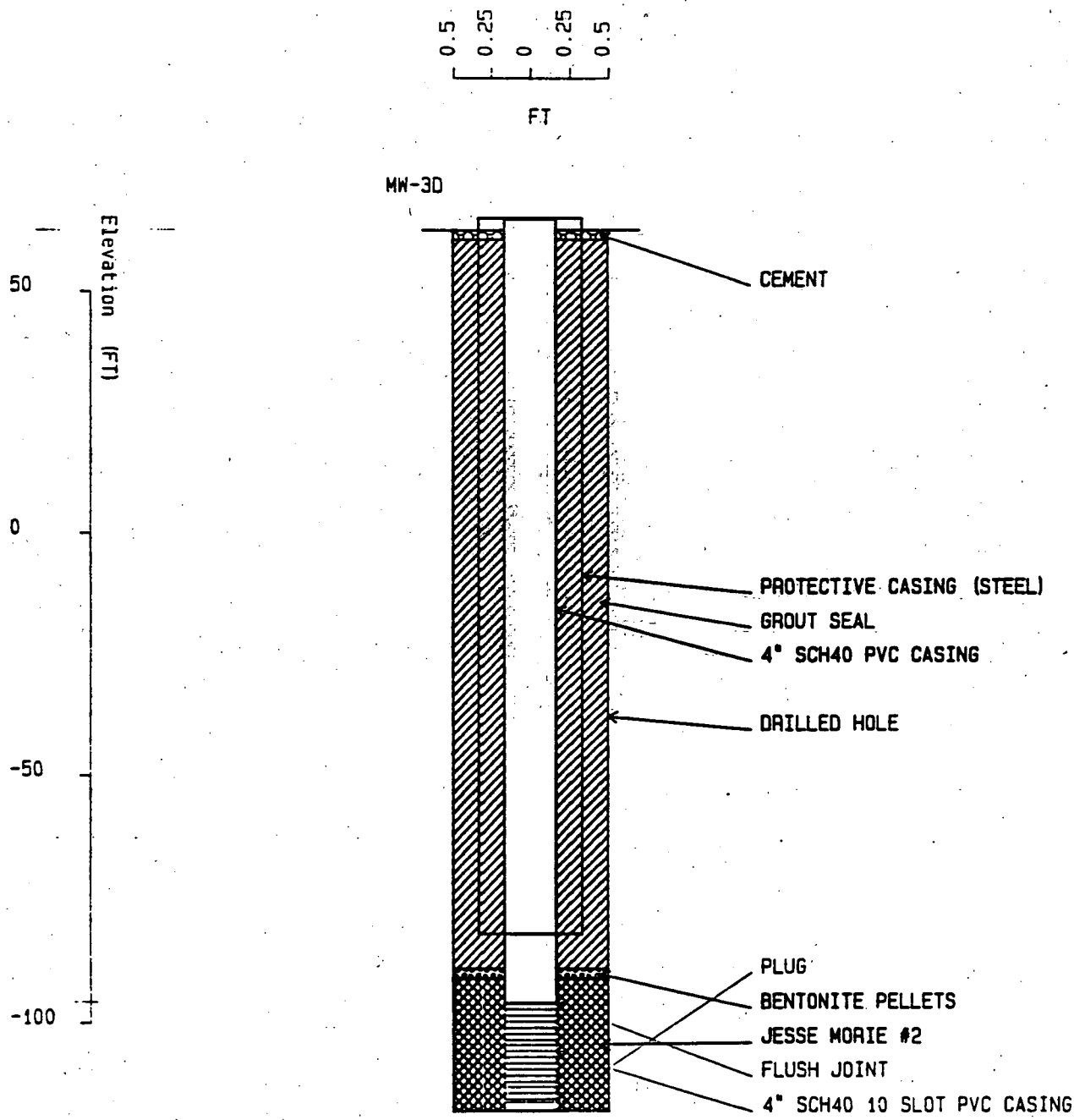
LITHOLOGIC LOG: MW-3D

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

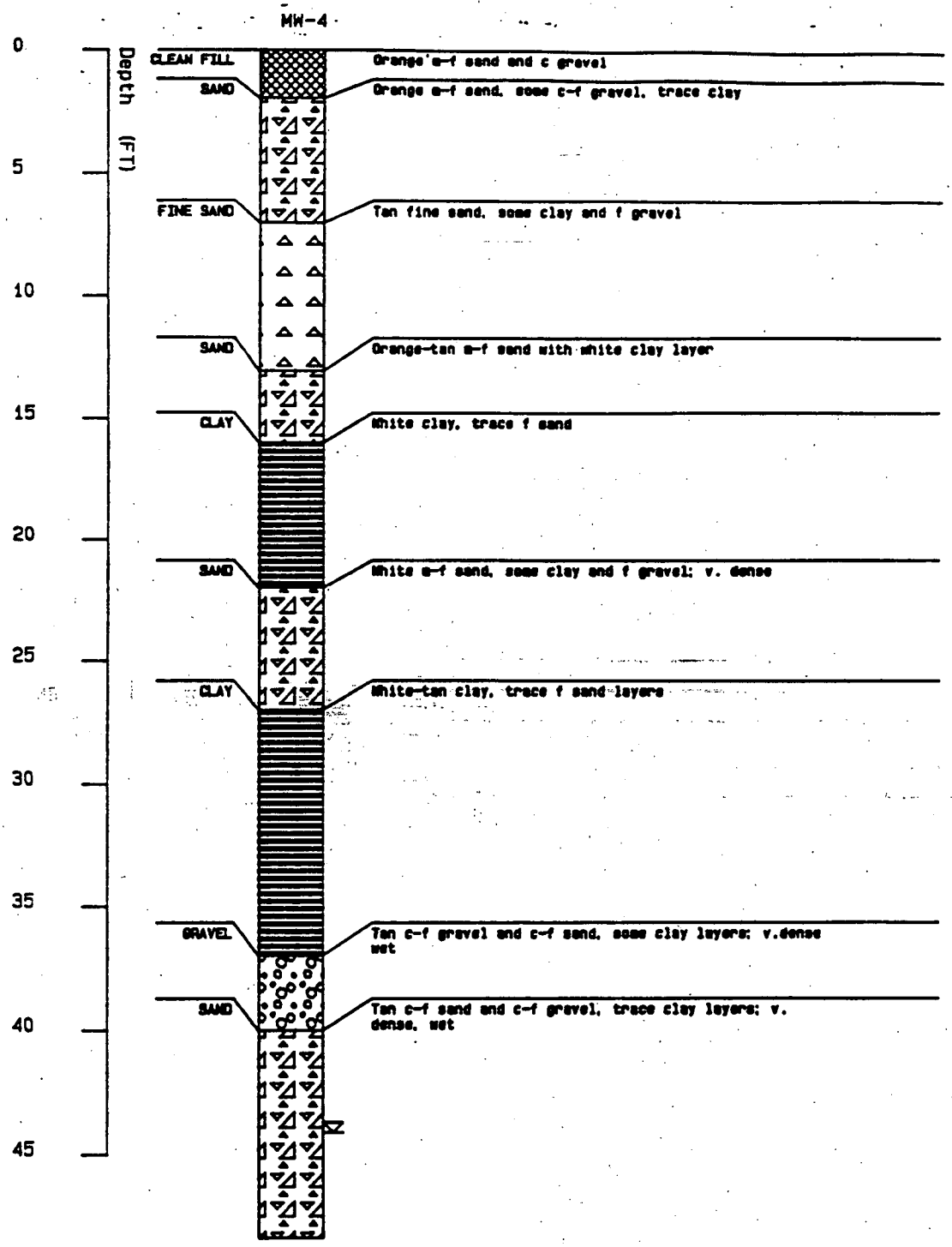
Figure : 4A



MONITORING WELL CONSTRUCTION DETAILS MW-3D	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 4B



LEGEND ▽ Static Water Level

CLEAN FILL | CLAY | FINE SAND | SAND | GRAVEL

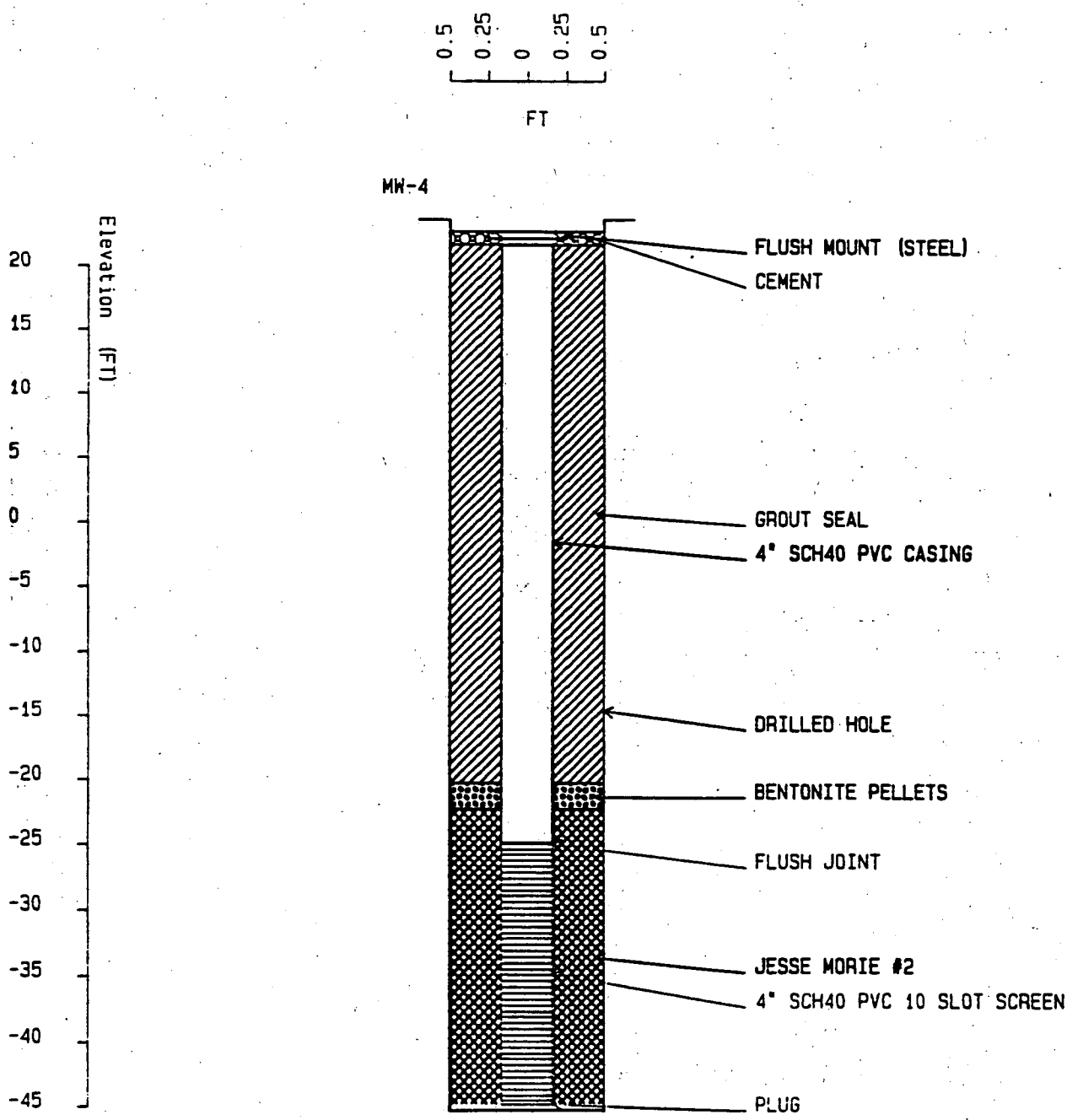
LITHOLOGIC LOG: MW-4

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

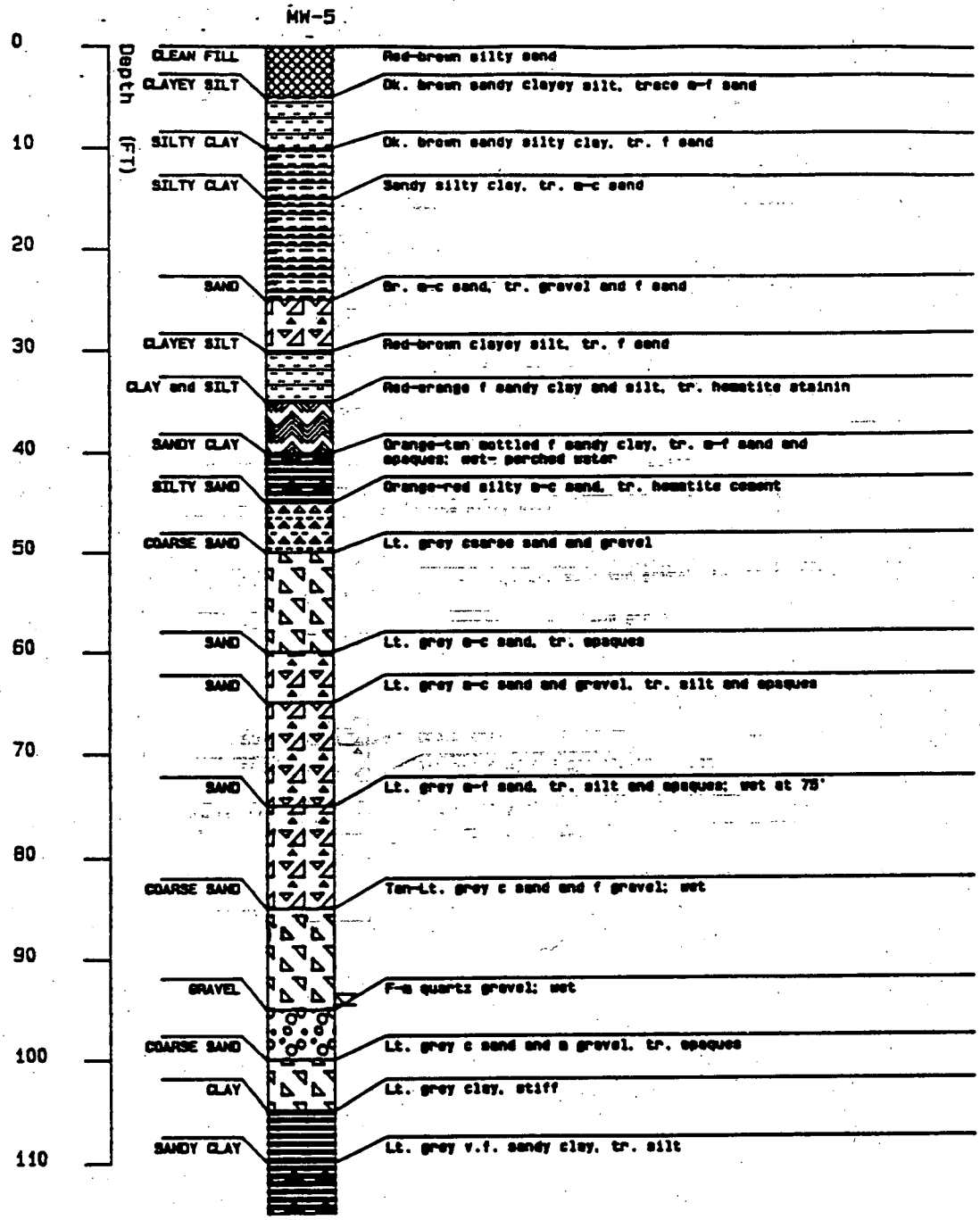
Figure : 5A



MONITORING WELL CONSTRUCTION DETAILS MW-4	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 5B



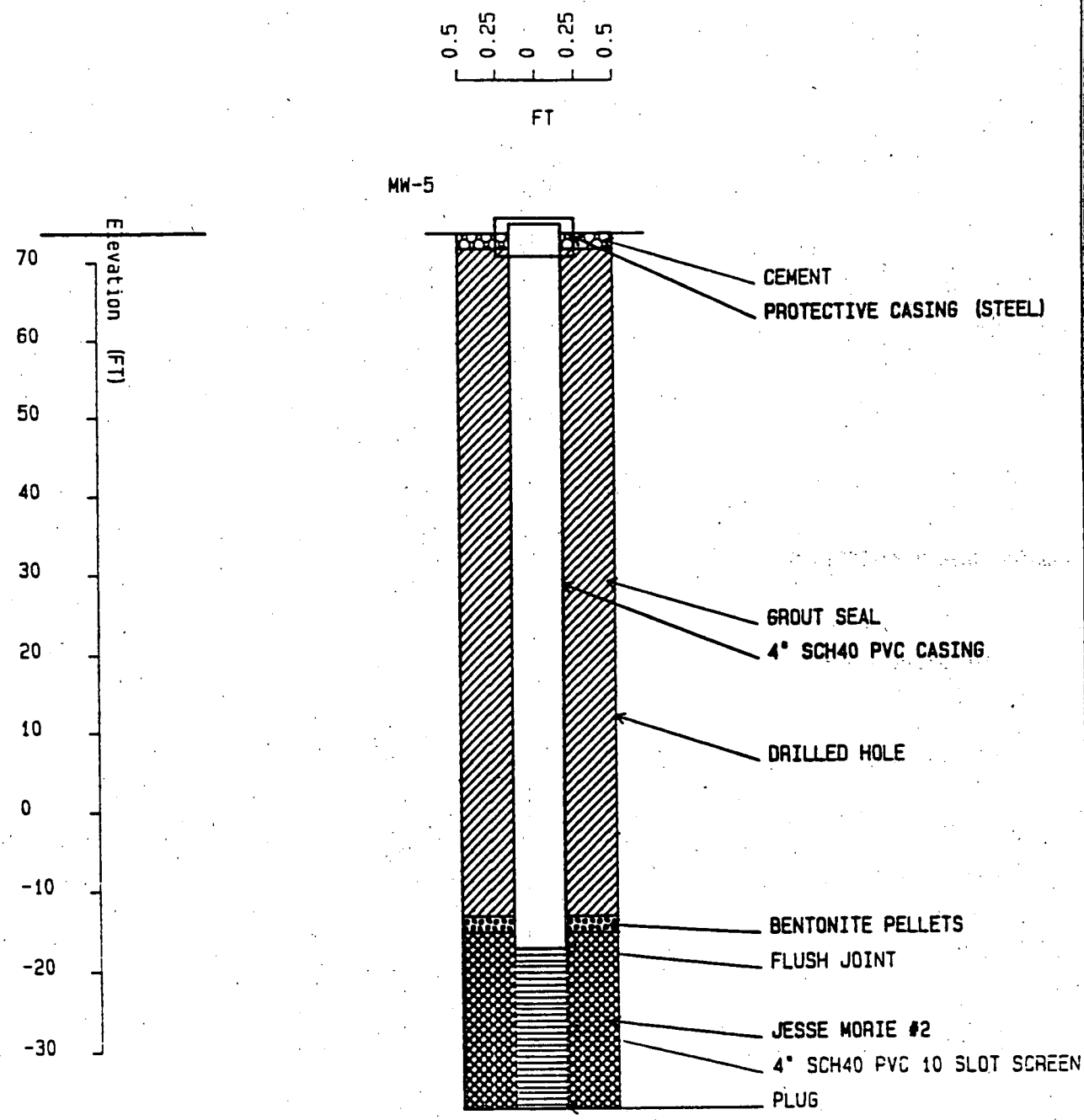
LITHOLOGIC LOG: MW-5

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

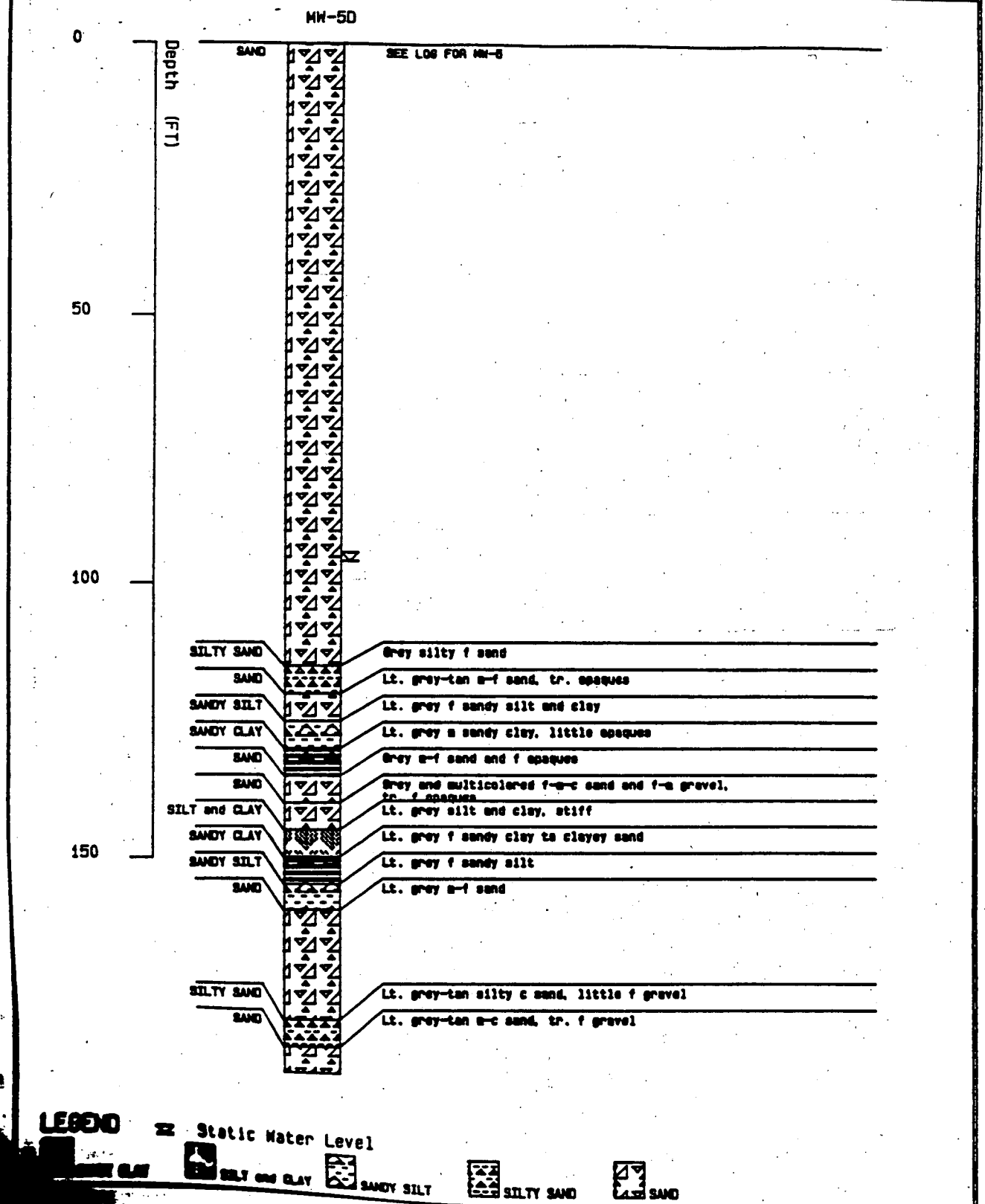
Figure : 6A



MONITORING WELL CONSTRUCTION DETAILS MW-5	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

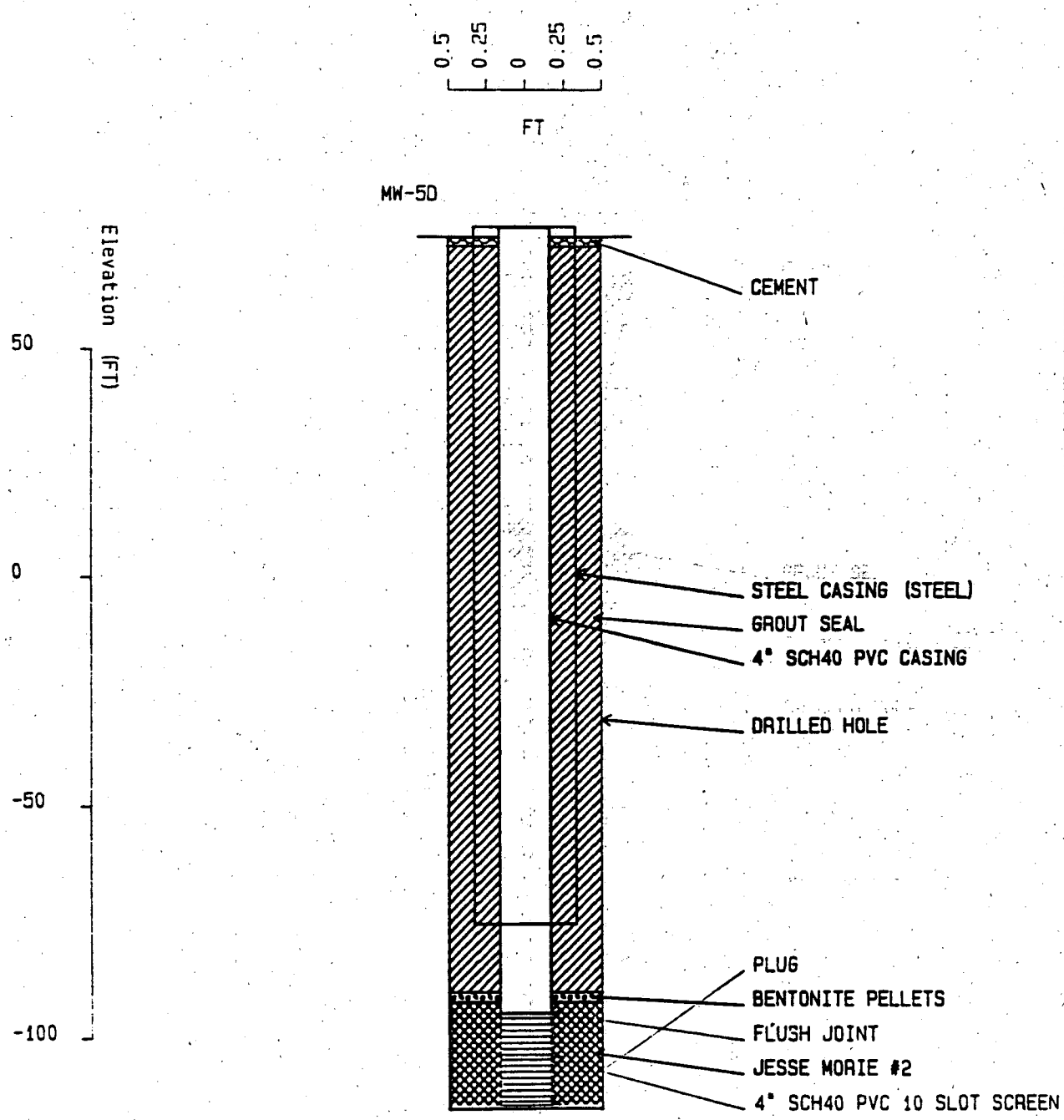
Figure : 6B



PENNSAUKEN SANITARY LANDFILL

ANDERSON ASSOCIATES

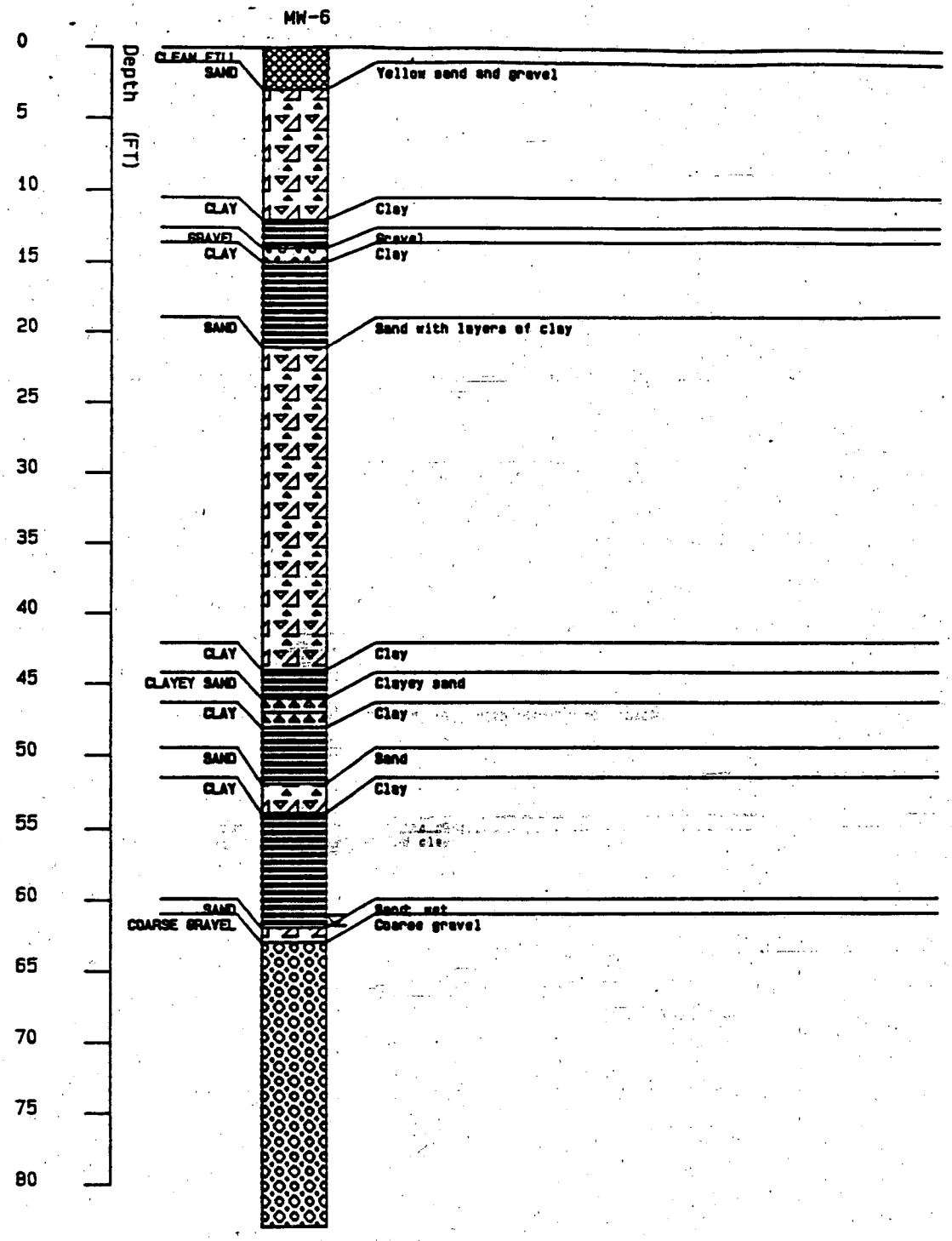
Figure : 7A



MONITORING WELL CONSTRUCTION DETAILS MW-5D	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 7B



LEGEND ⧖ Static Water Level

CLEAN FILL | CLAY | CLAYEY SAND | SAND | COARSE GRAVEL | GRAVEL

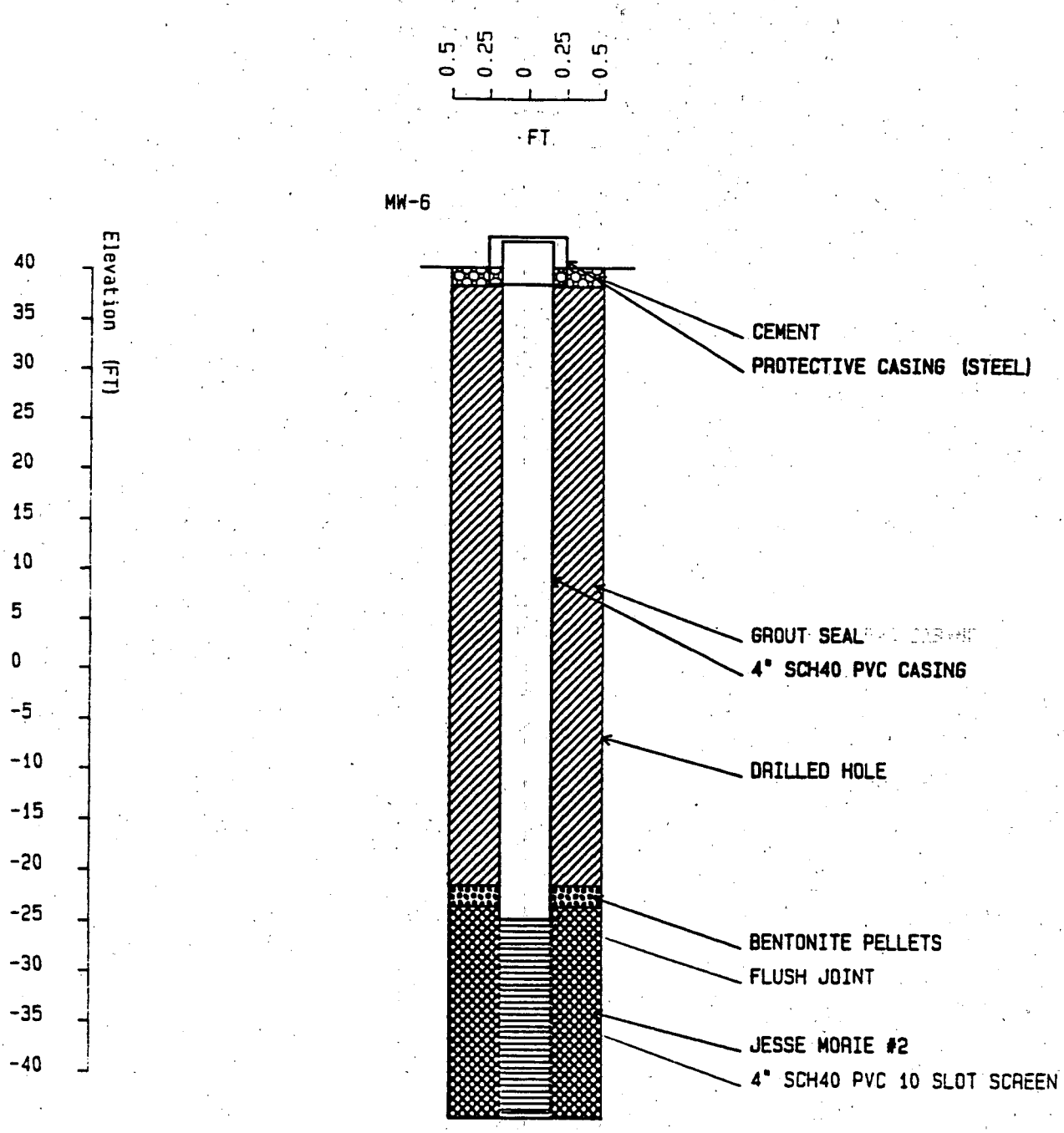
LITHOLOGIC LOG: MW-6

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

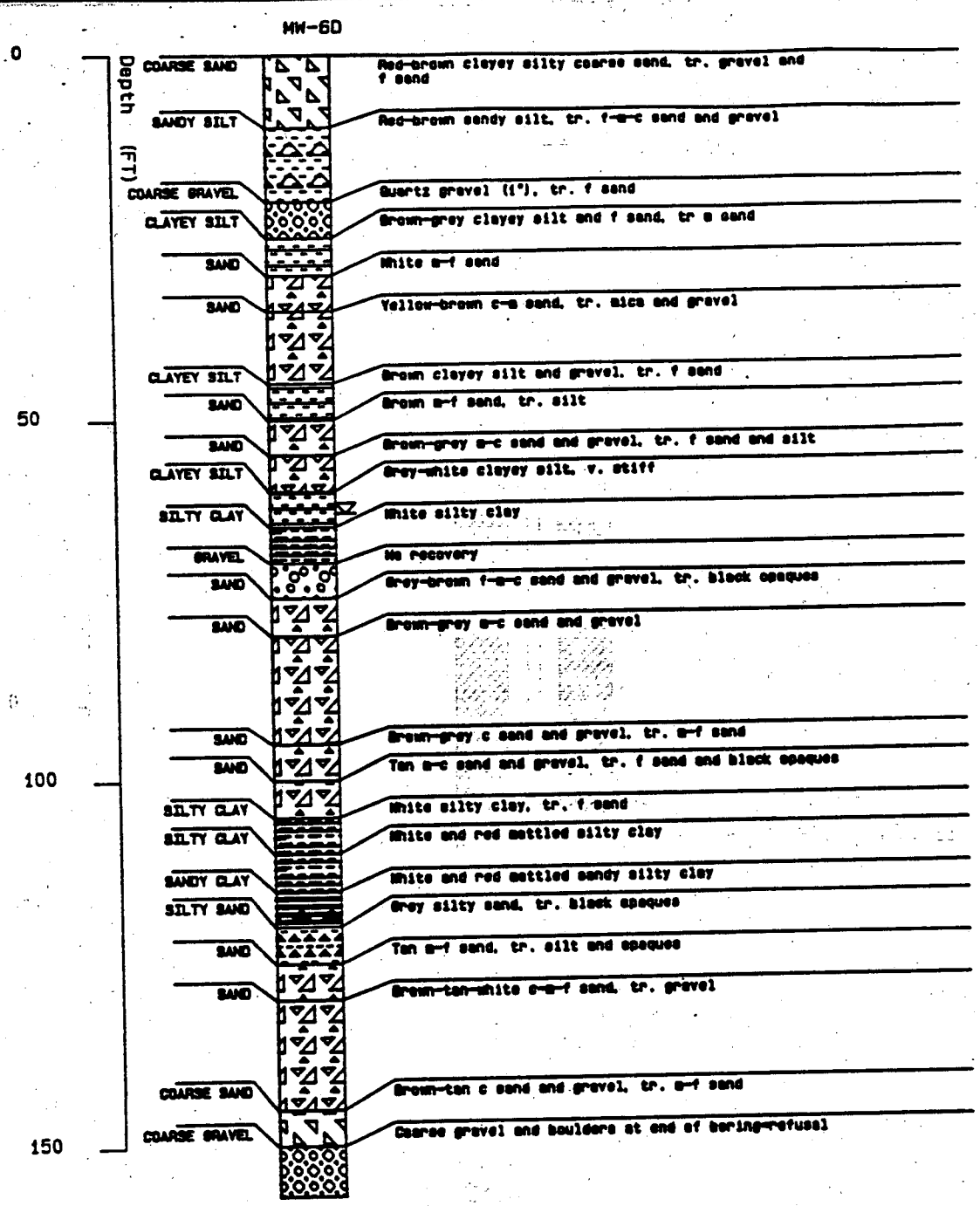
Figure : 8A



MONITORING WELL CONSTRUCTION DETAILS MW-6	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 8B



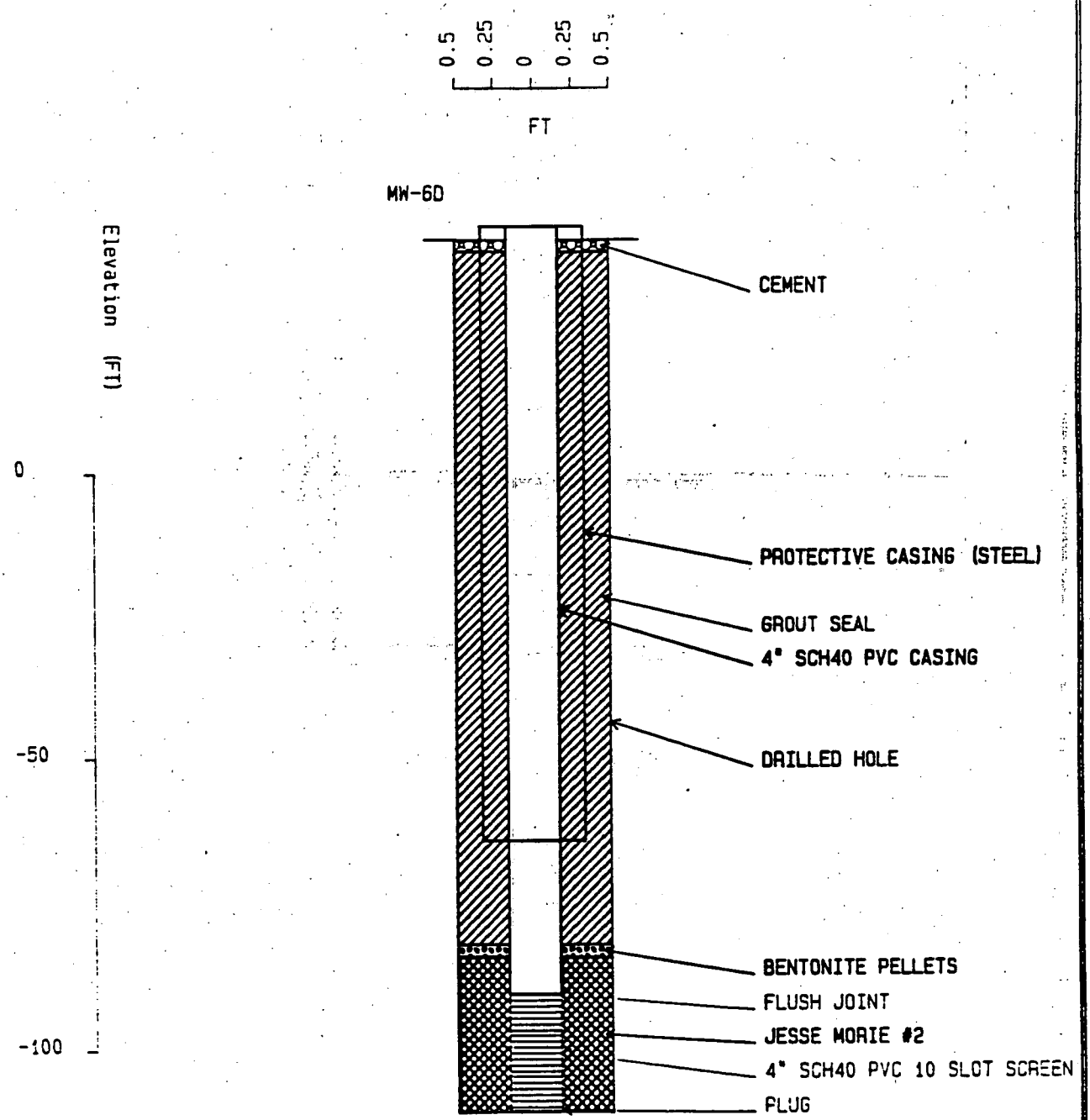
LITHOLOGIC LOG: MW-6D

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

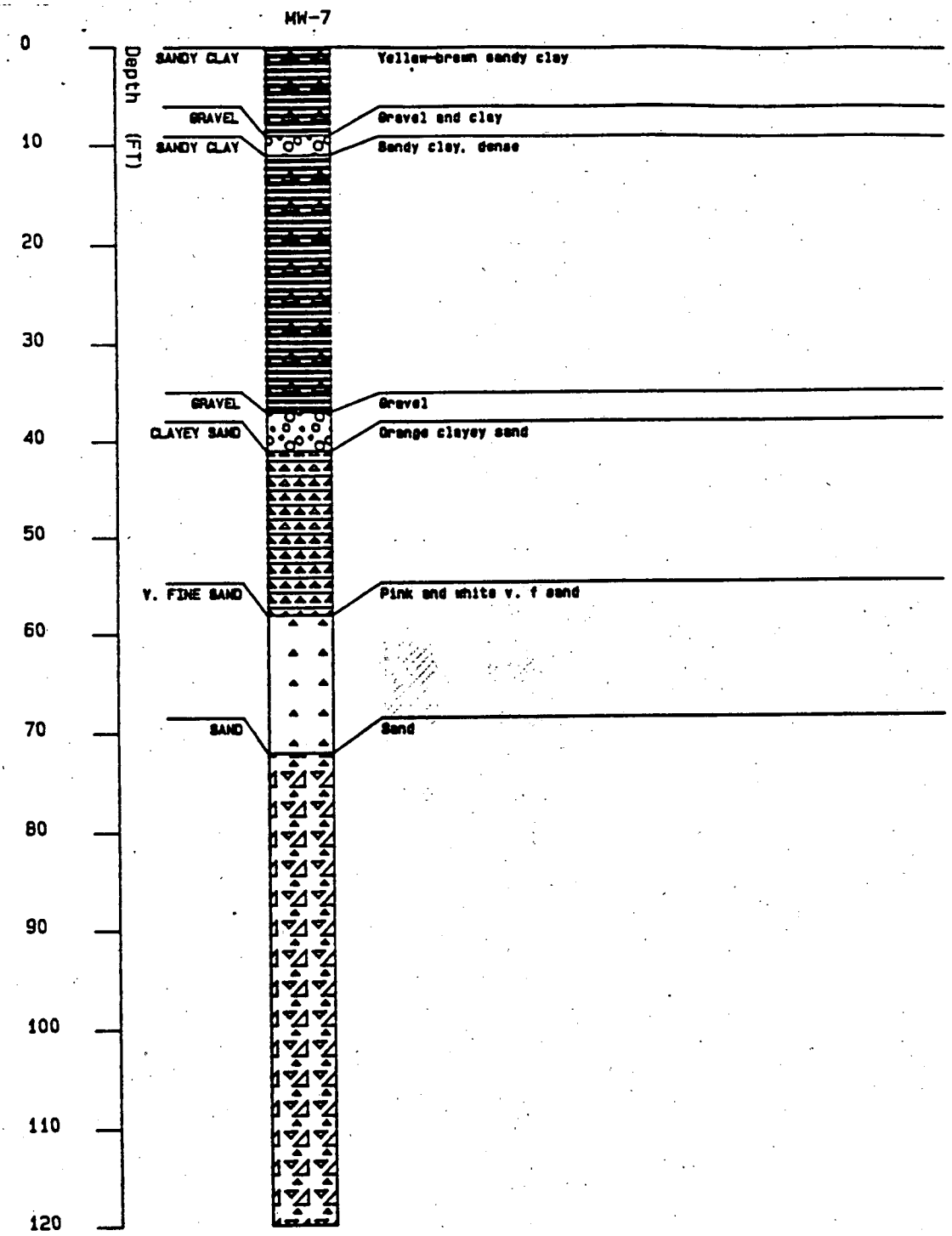
Figure : 9A



MONITORING WELL CONSTRUCTION DETAILS MW-6D	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 9B



LEGEND ▽ Static Water Level

SANDY CLAY | CLAYEY SAND | V. FINE SAND | SAND | GRAVEL

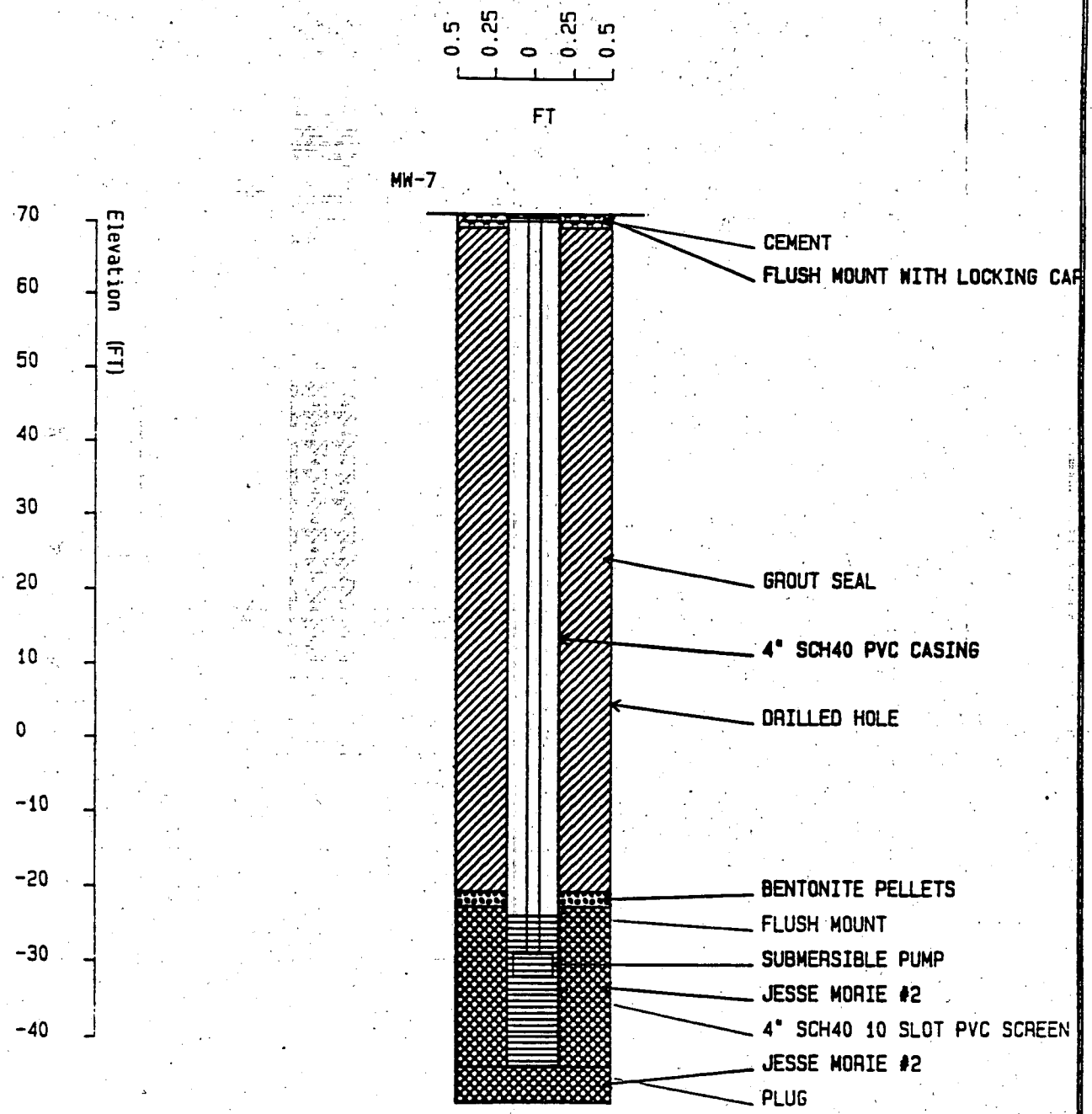
LITHOLOGIC LOG: MW-7

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

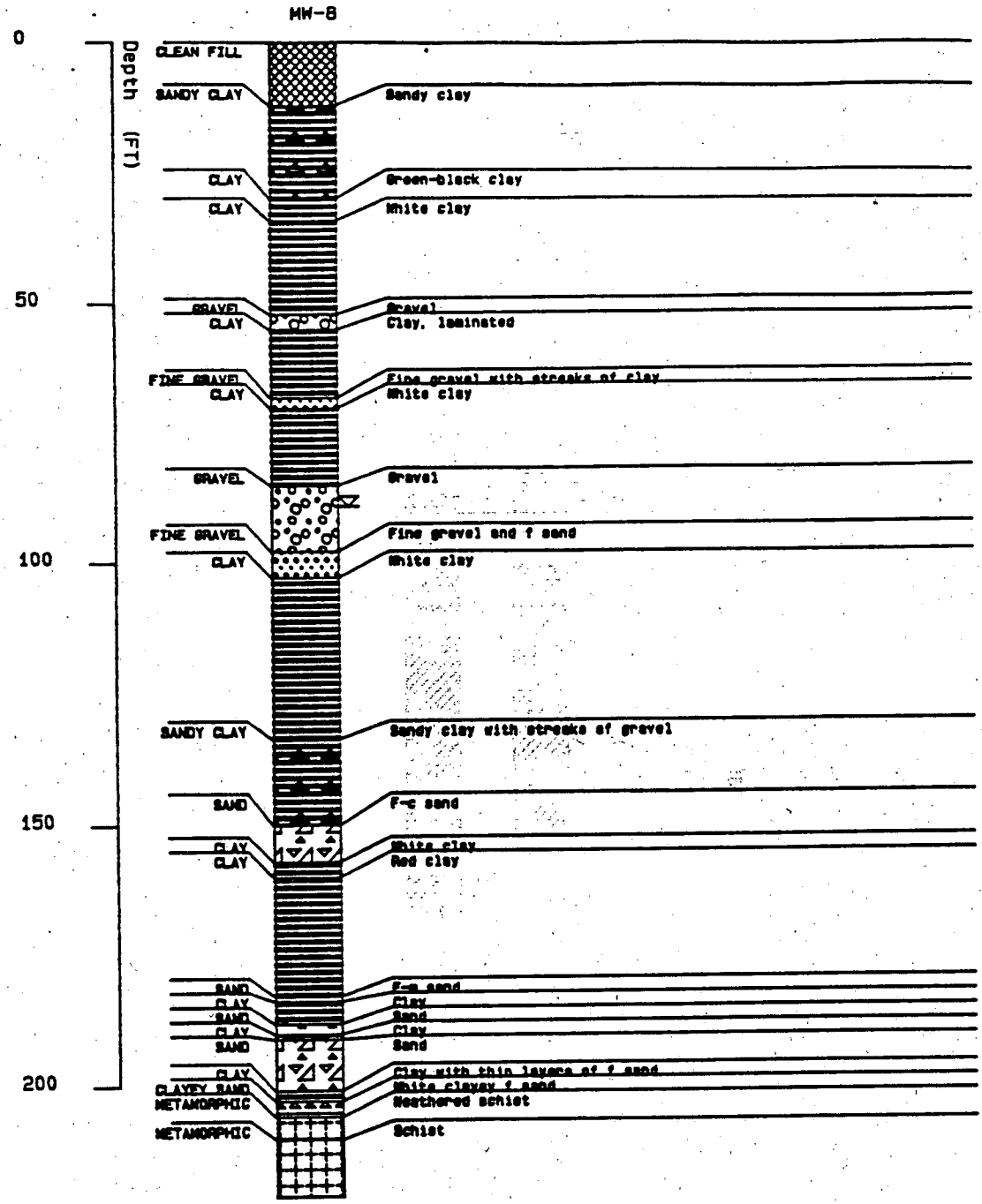
Figure : 10A



MONITORING WELL CONSTRUCTION DETAILS MW-7	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 10B



LEGEND ▽ Static Water Level

CLEAN FILL · SANDY CLAY · SAND · GRAVEL · CLAY · CLAYEY SAND · FINE GRAVEL · METAMORPHIC

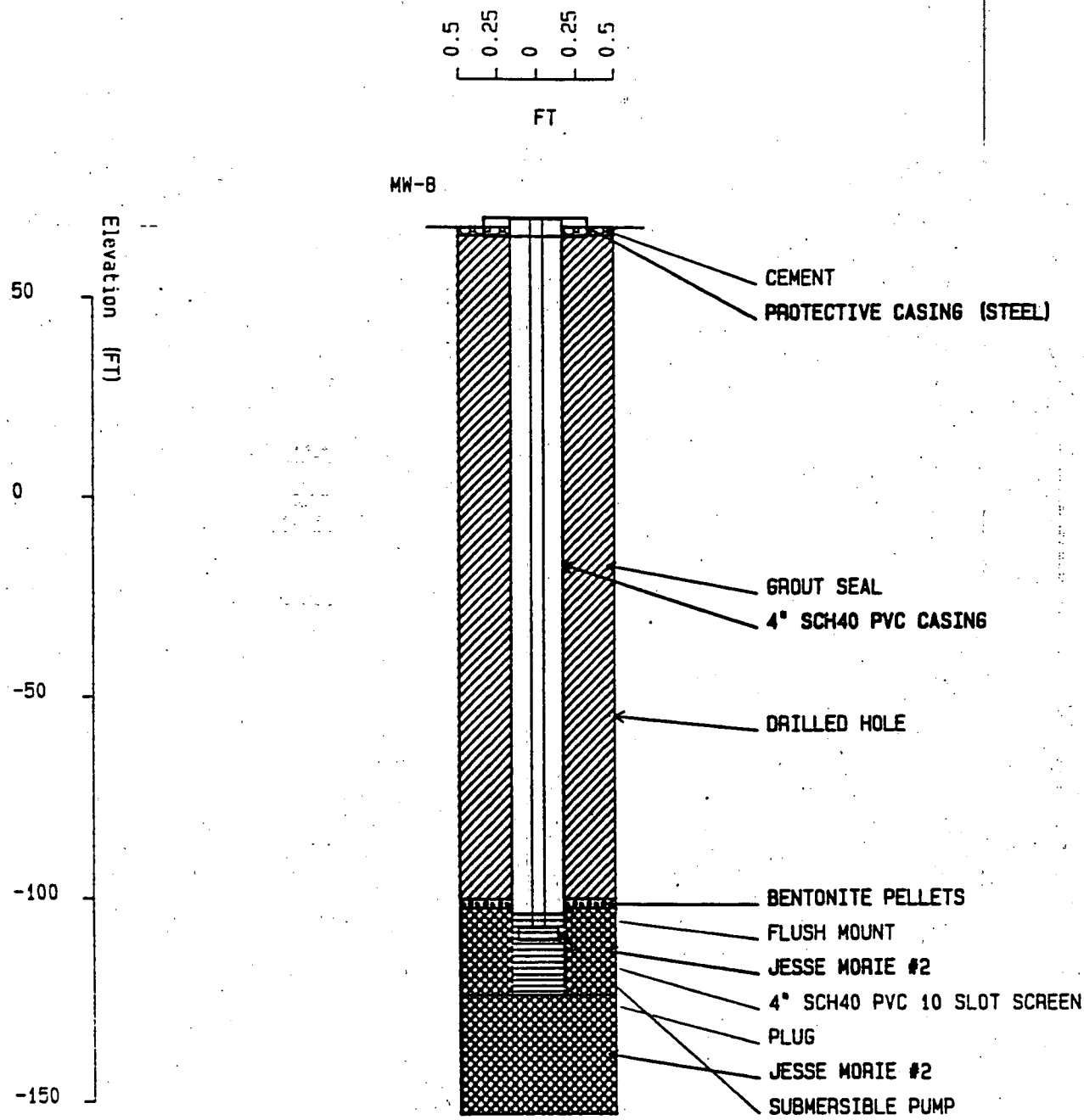
LITHOLOGIC LOG: MW-8

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

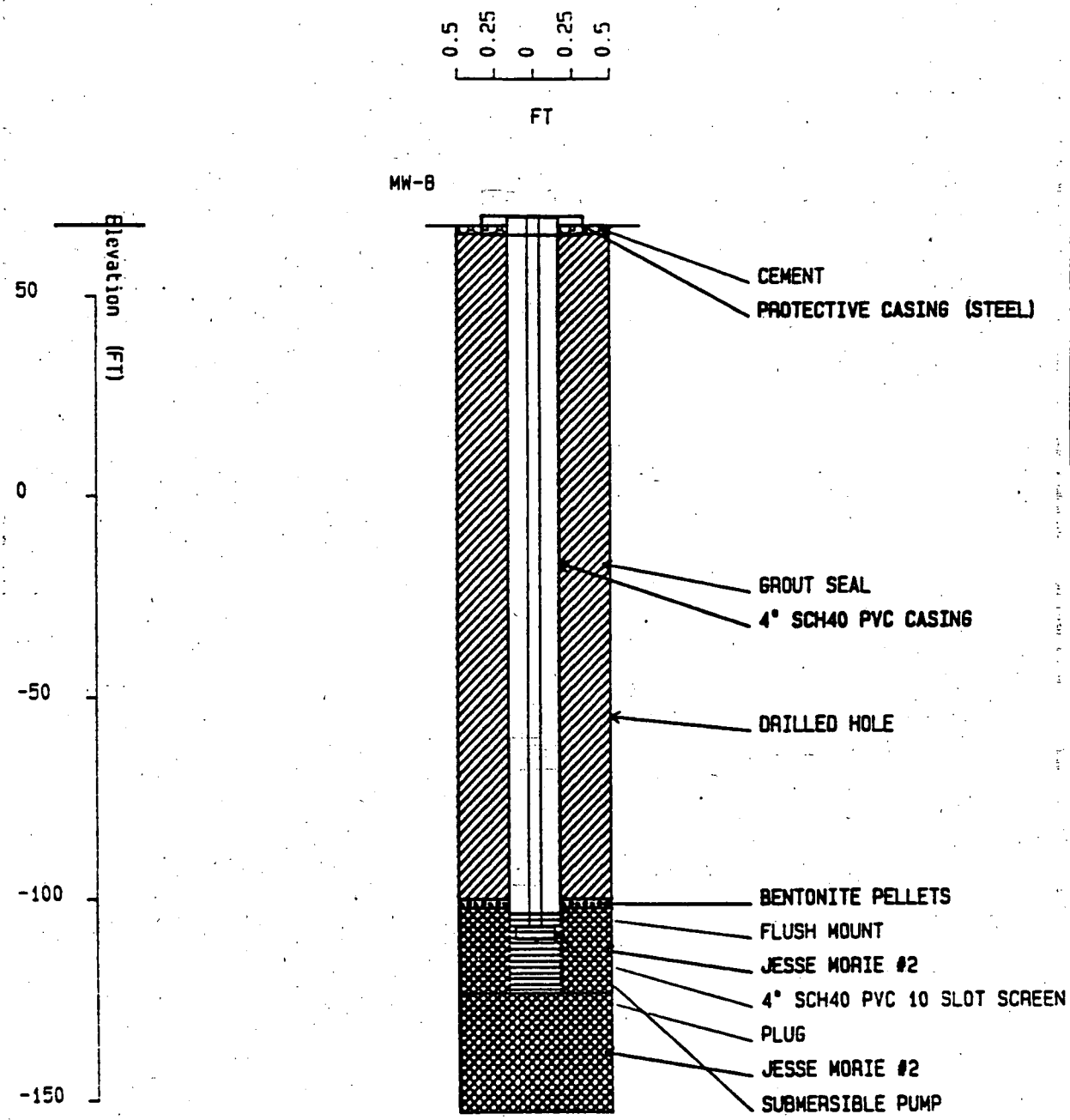
Figure : 11A



MONITORING WELL CONSTRUCTION DETAILS MW-8	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

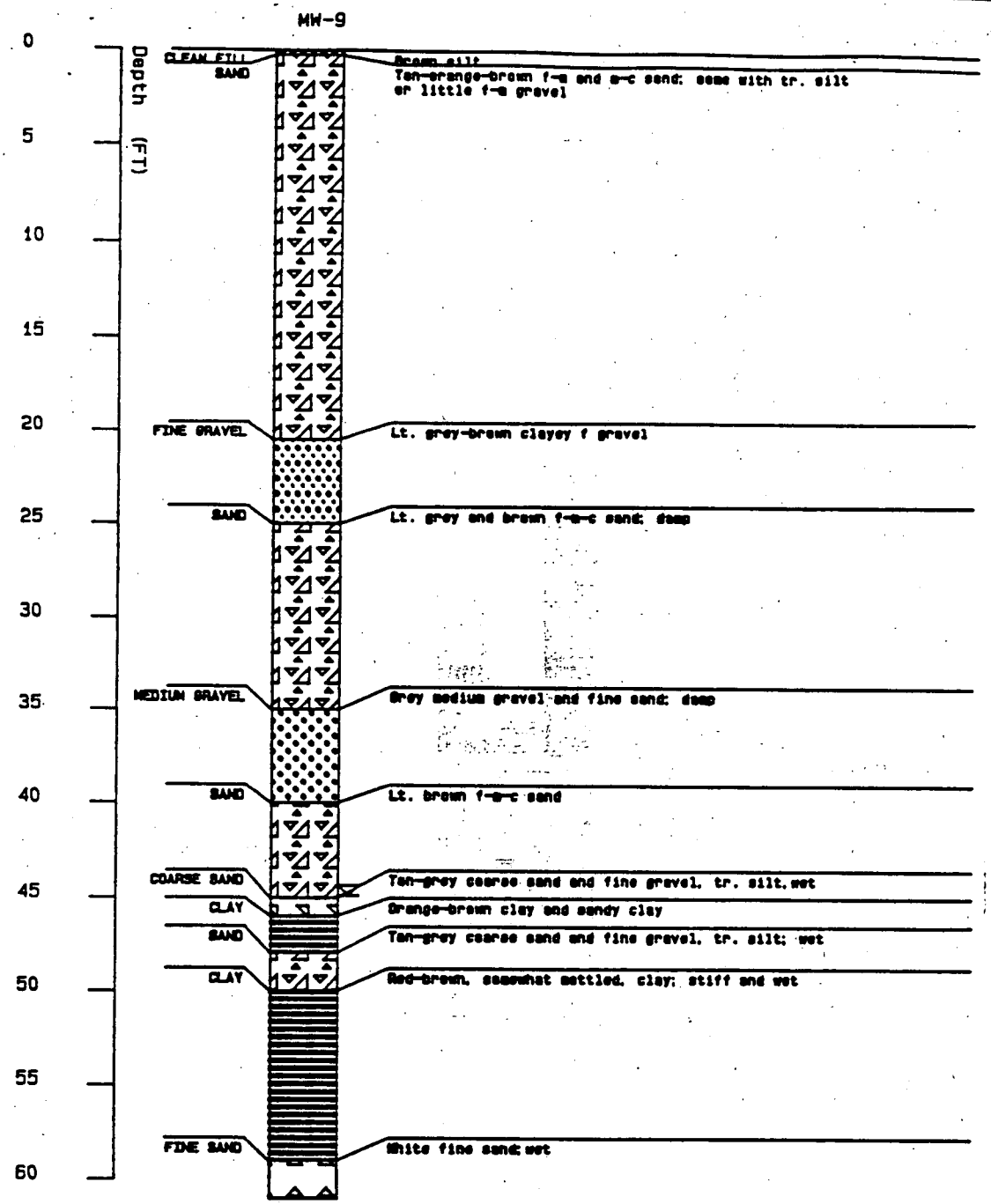
Figure : 11B



MONITORING WELL CONSTRUCTION DETAILS MW-8	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 11B



LEGEND

Static Water Level

CLEAN FILL

FINE SAND

SAND

MEDIUM GRAVEL

CLAY

COARSE SAND

FINE GRAVEL

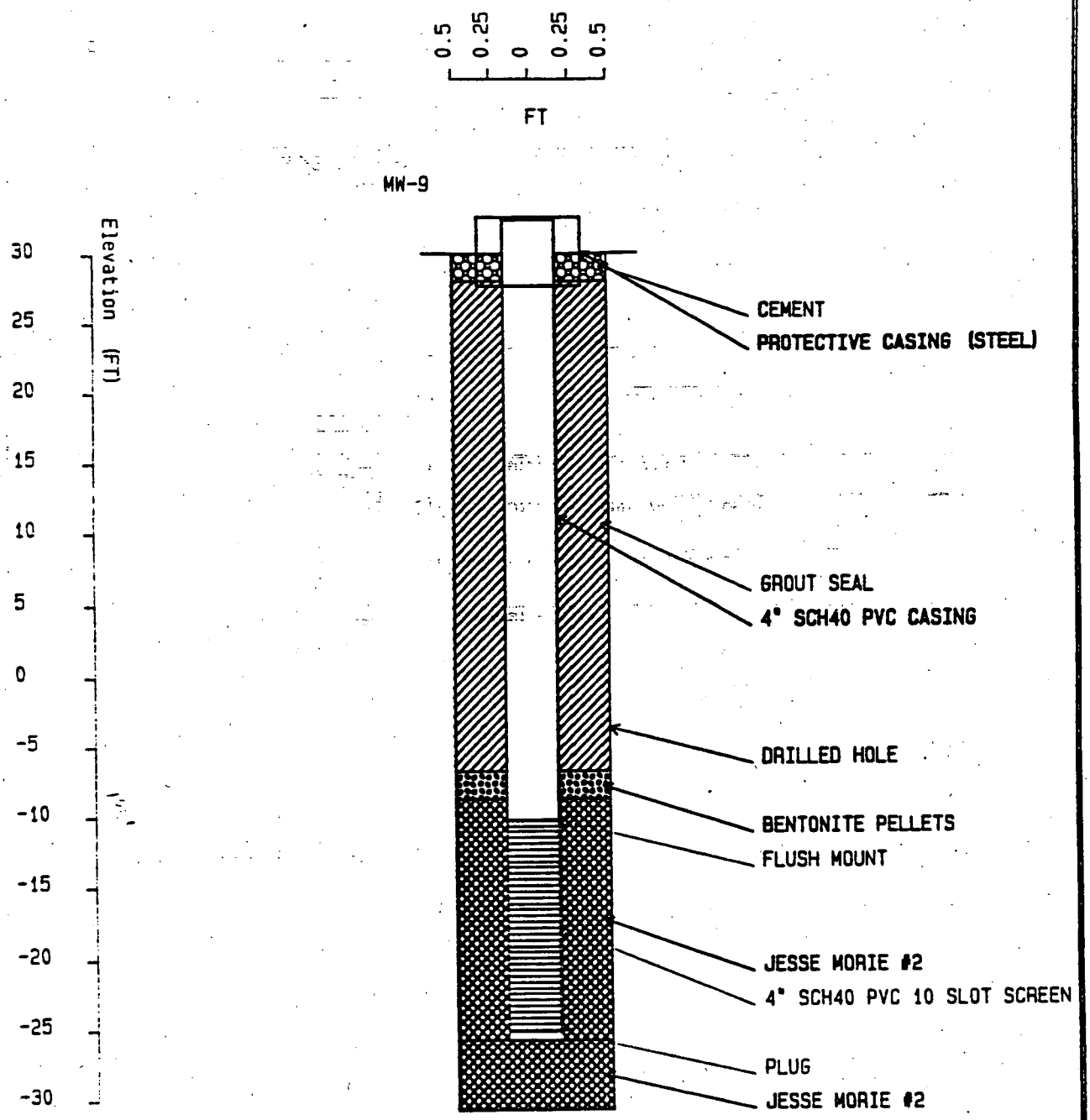
LITHOLOGIC LOG: MW-9

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

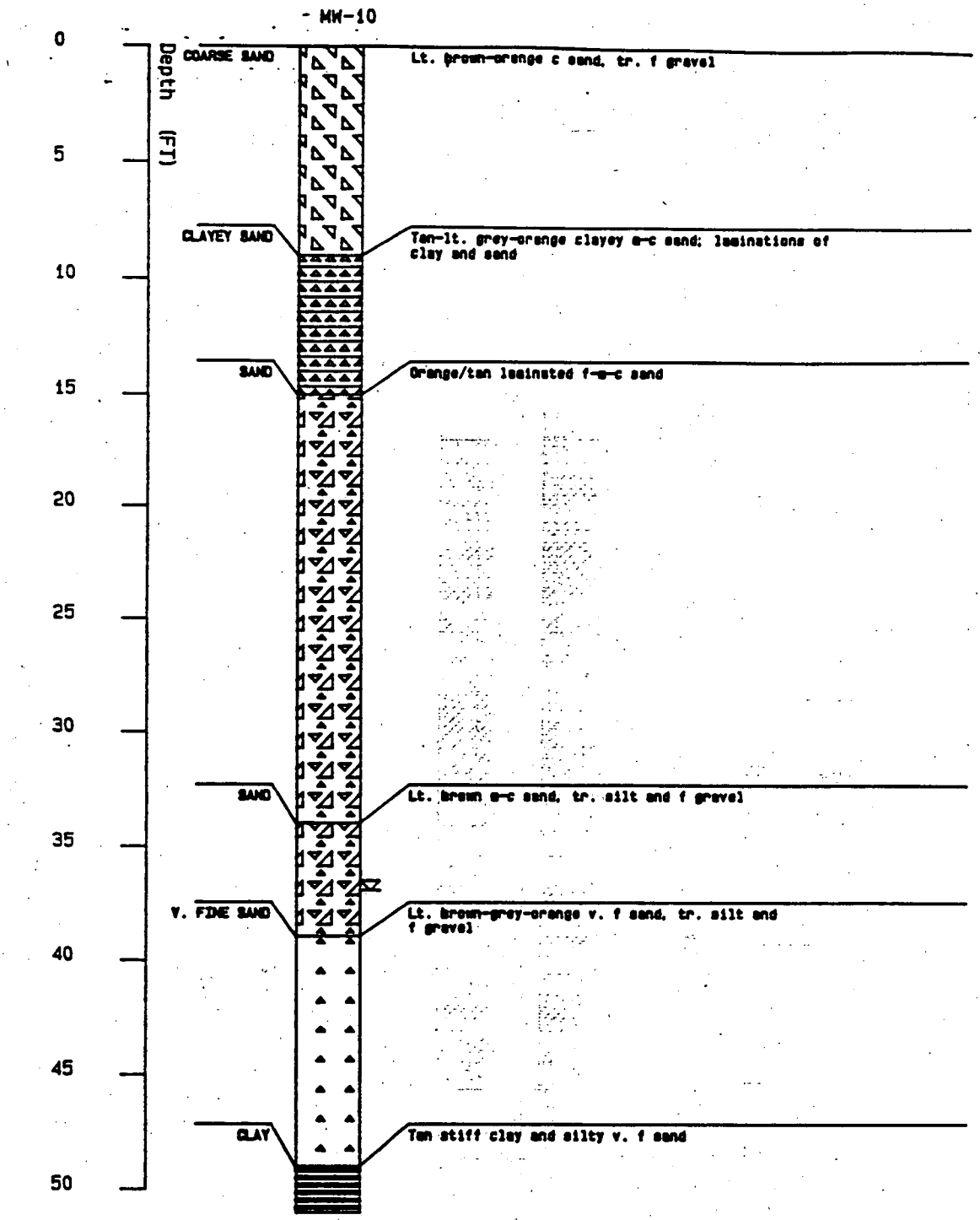
Figure : 12A



MONITORING WELL CONSTRUCTION DETAILS MW-9	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 12B



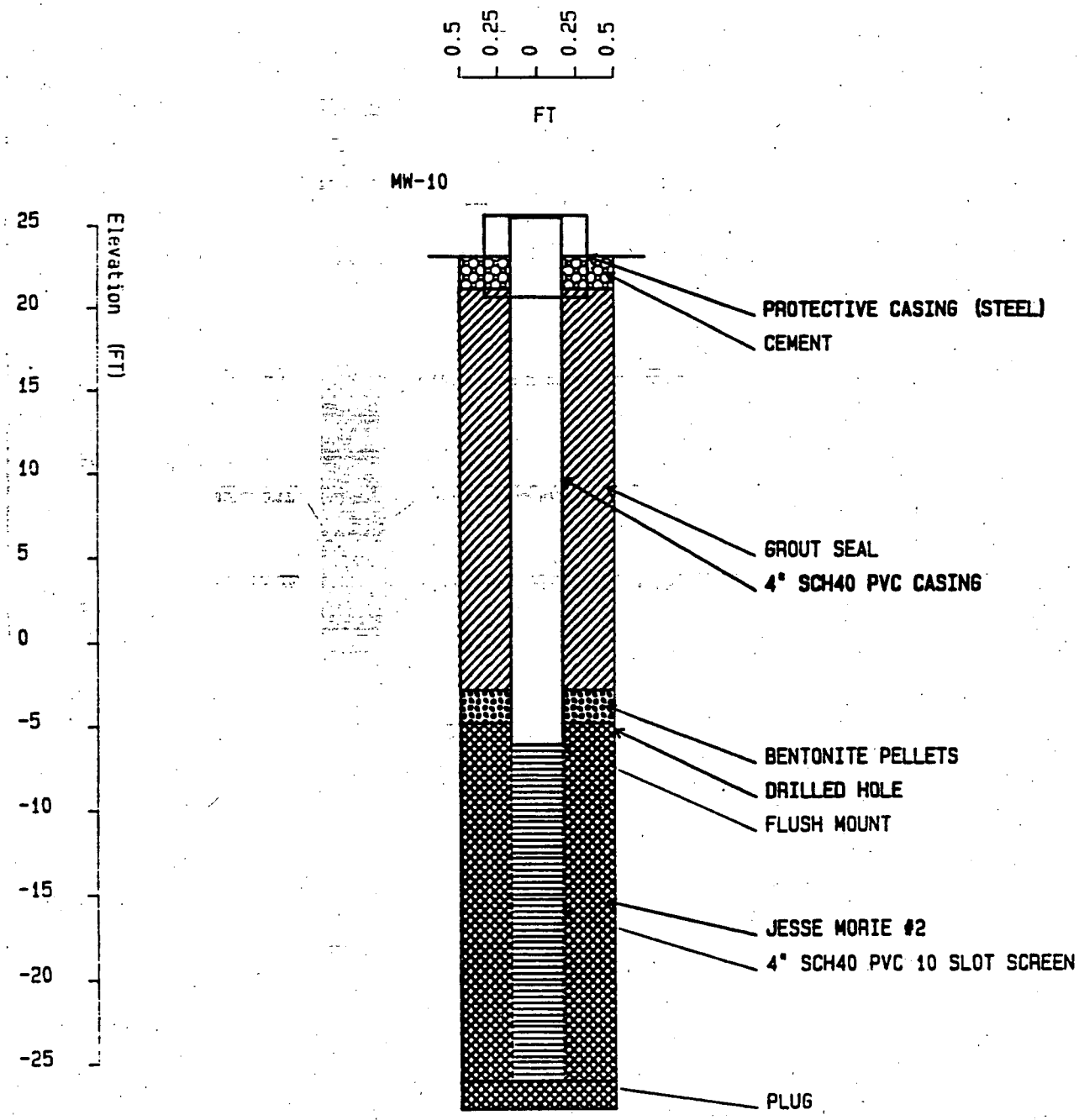
LITHOLOGIC LOG: MW-10

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

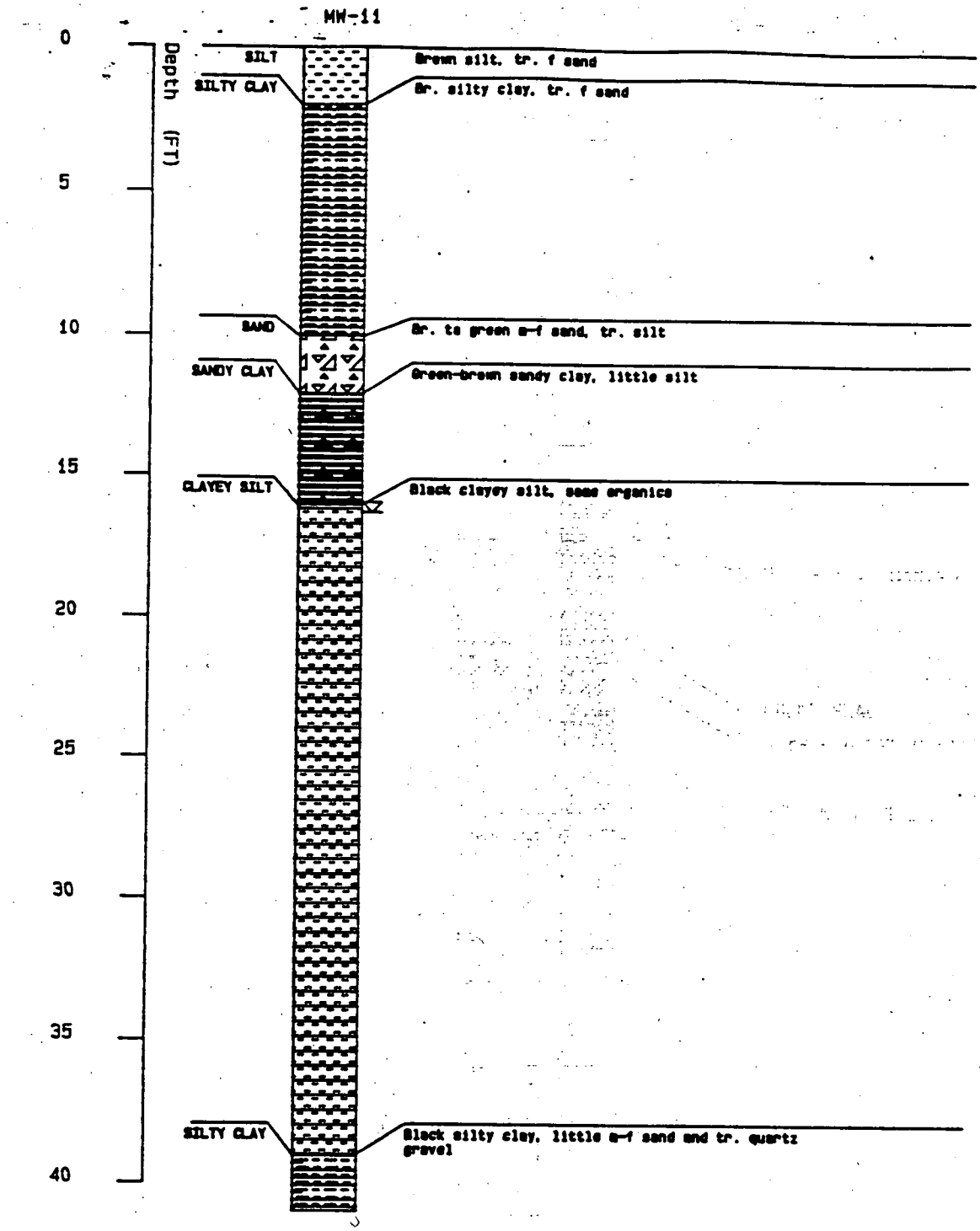
Figure : 13A



MONITORING WELL CONSTRUCTION DETAILS MW-10	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 13B



LEGEND

Static Water Level

SILTY CLAY | SANDY CLAY | CLAYEY SILT | SILT | SAND

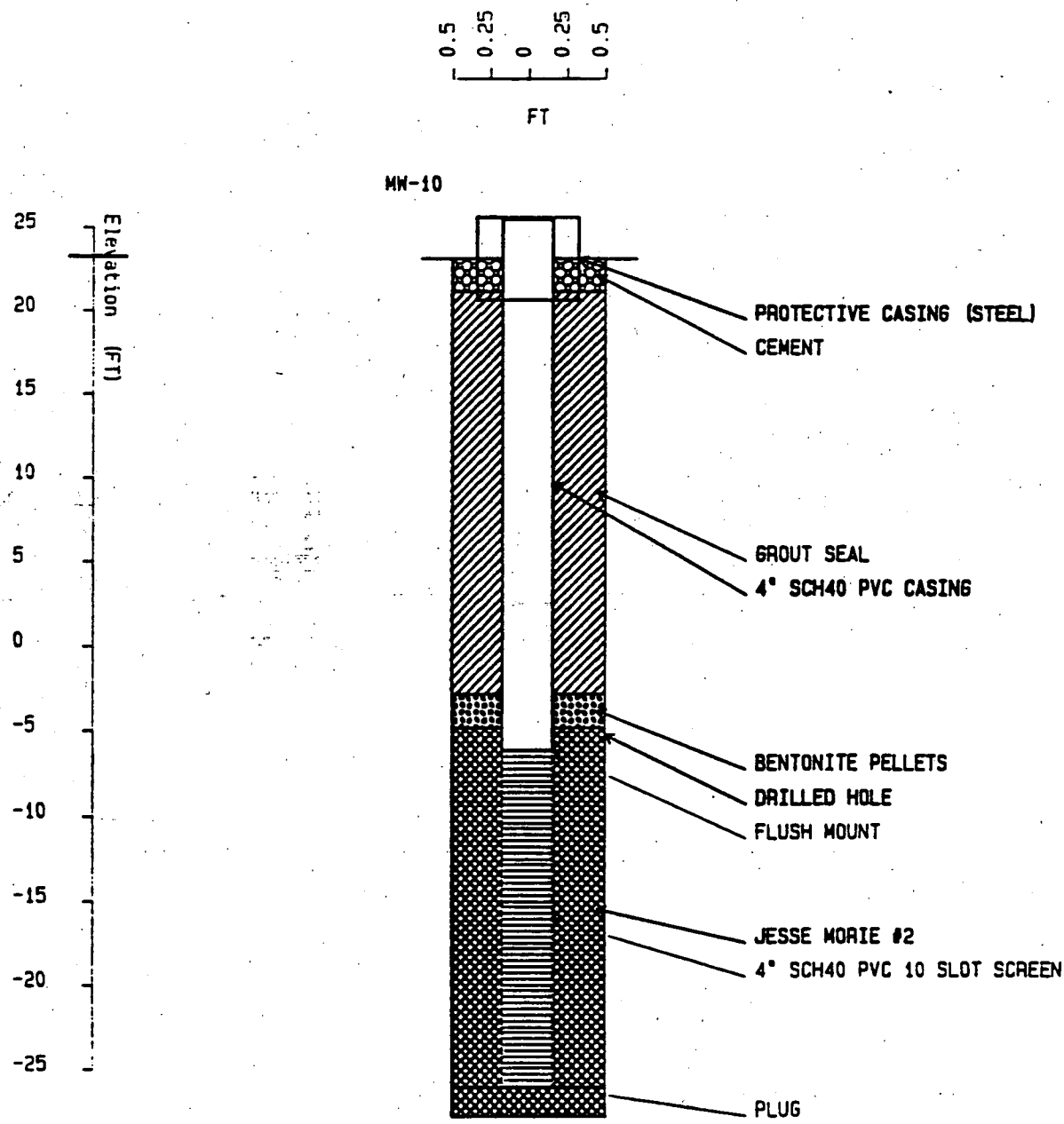
LITHOLOGIC LOG: MW-11

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

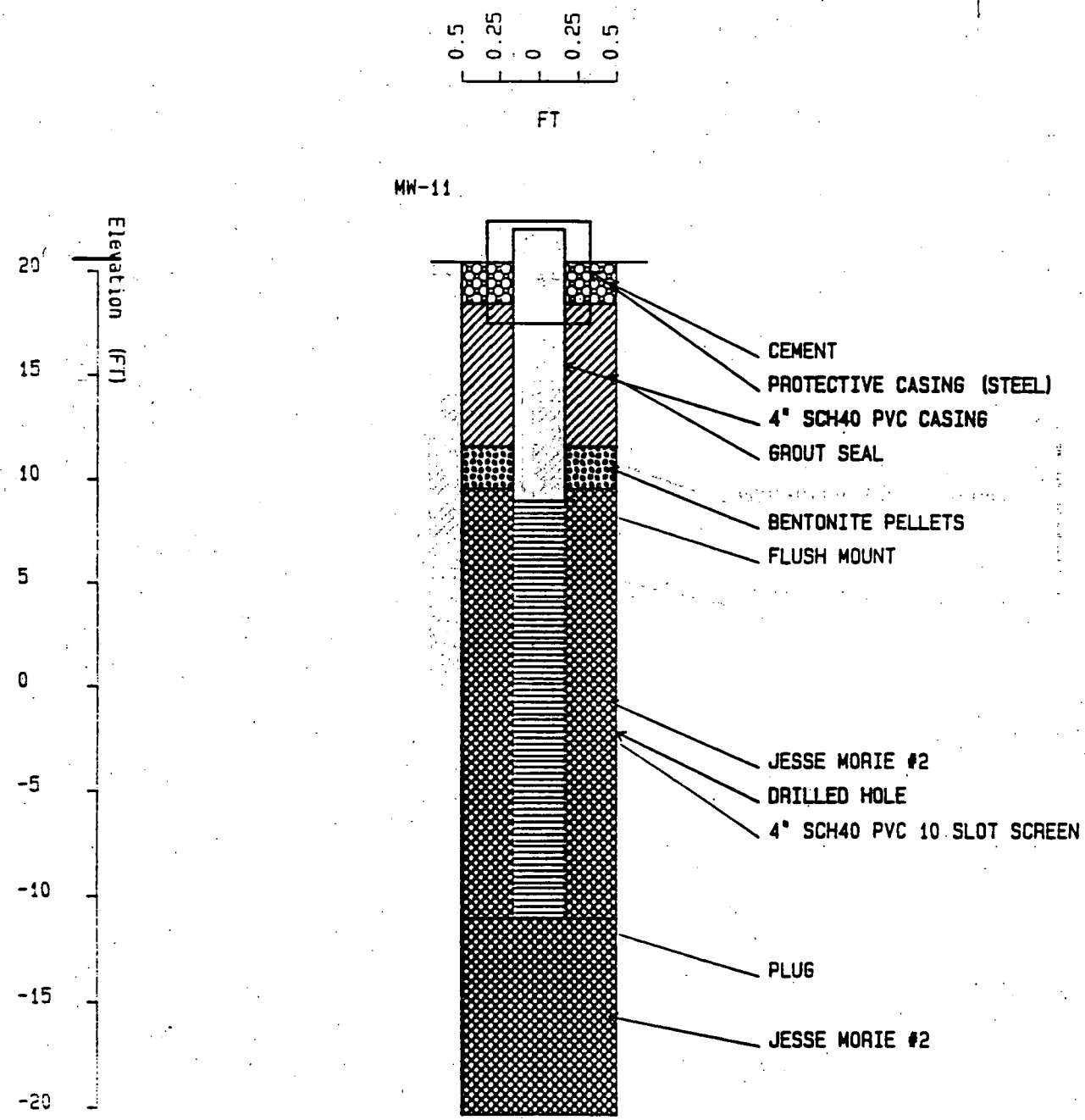
Figure : 14A



MONITORING WELL CONSTRUCTION DETAILS MW-10	PENNSAUKEN SANITARY LANDFILL

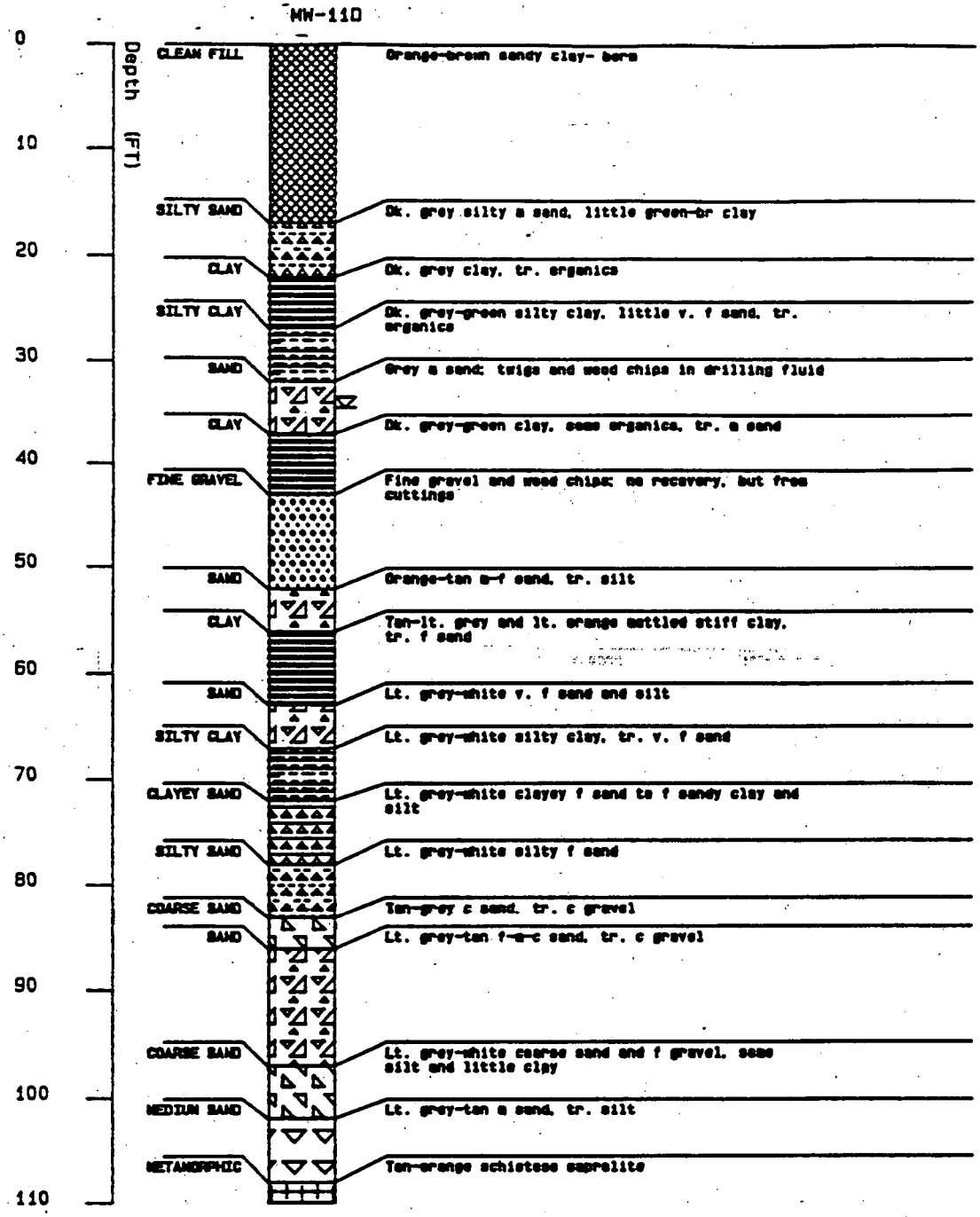
JAMES C ANDERSON ASSOCIATES

Figure : 13B



MONITORING WELL CONSTRUCTION DETAILS MW-11	PENNSAUKEN SANITARY LANDFILL
JAMES C ANDERSON ASSOCIATES	Figure : 14B

11-31



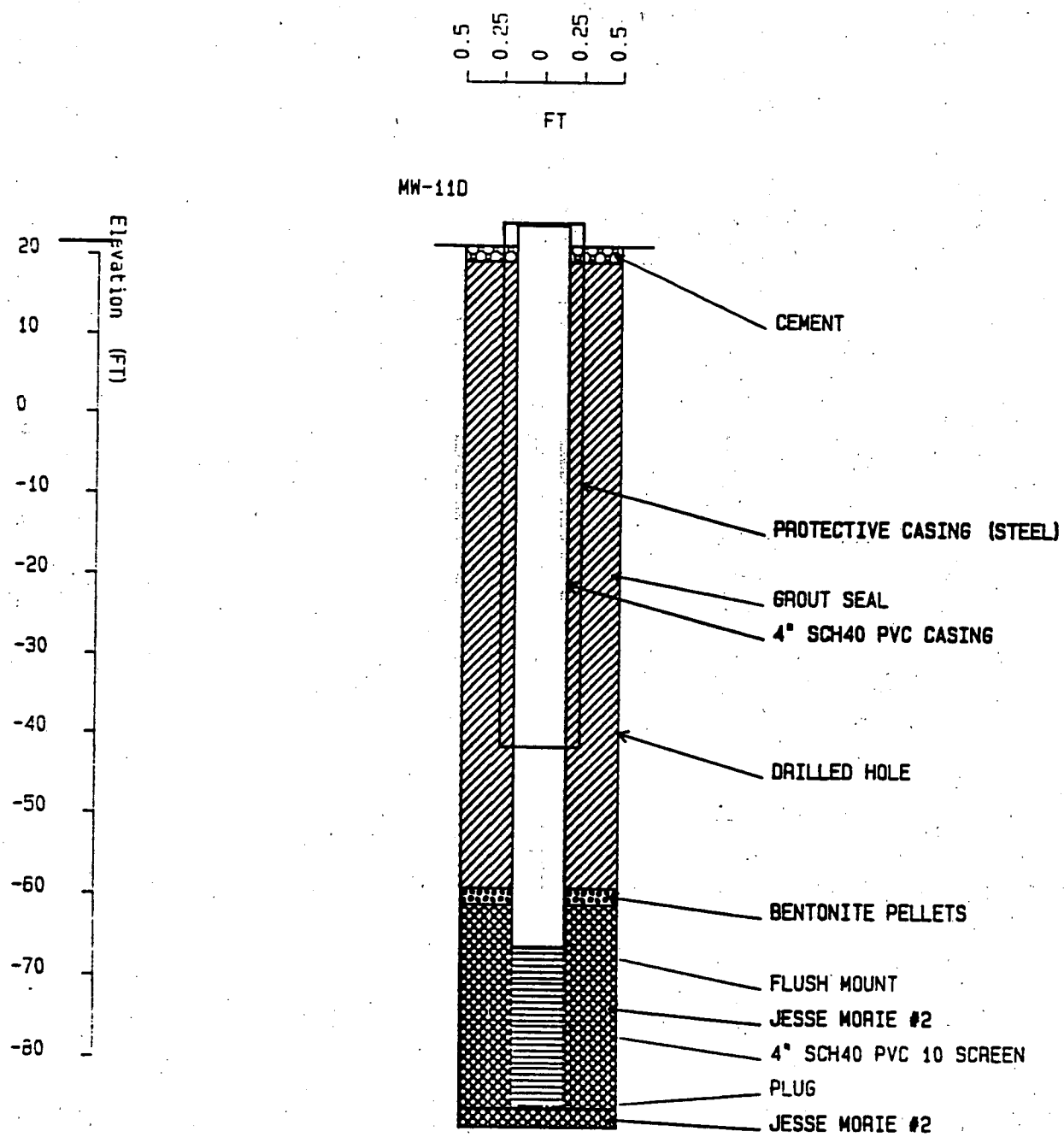
LITHOLOGIC LOG: MW-11D

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

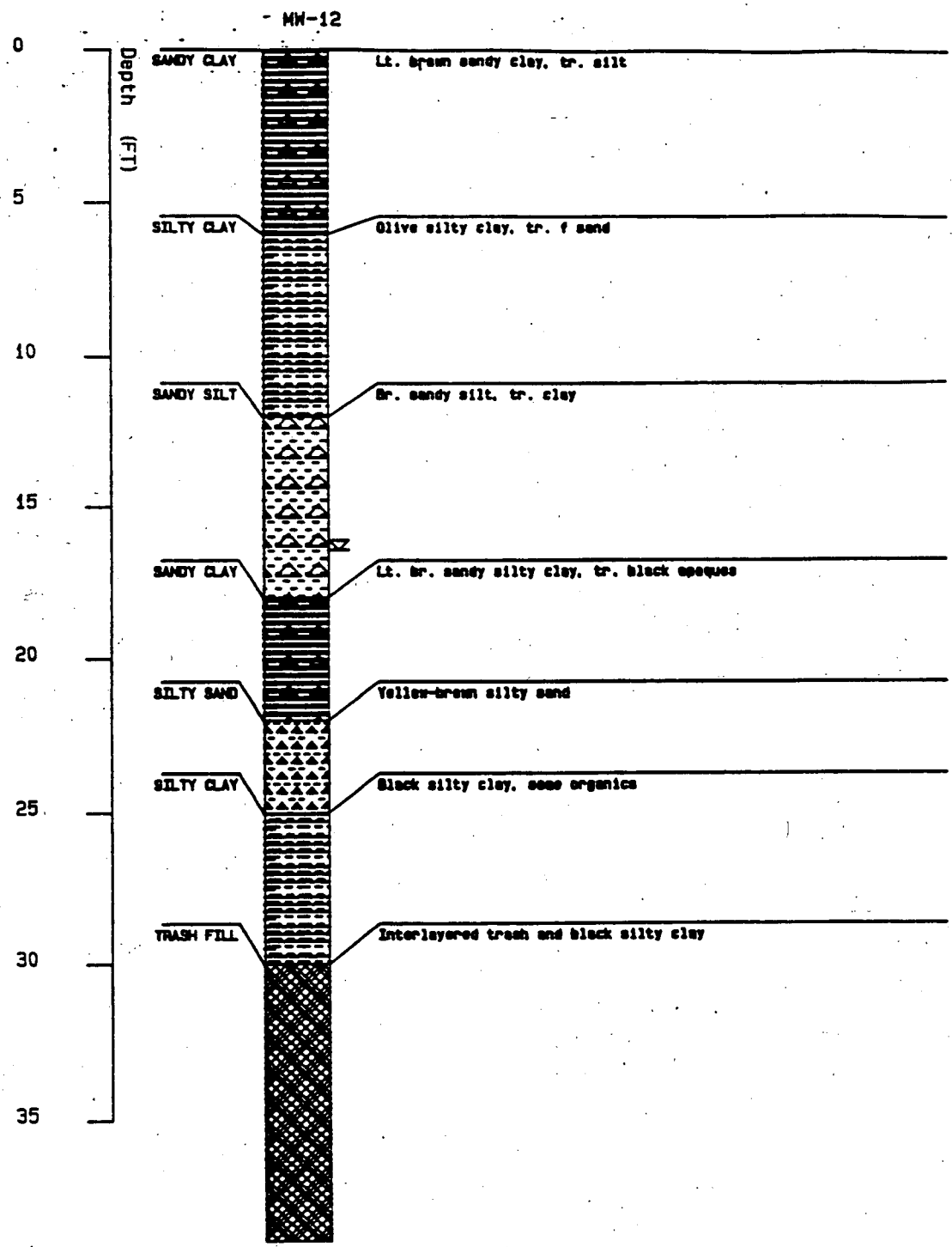
Figure : 15A



MONITORING WELL CONSTRUCTION DETAILS MW-11D	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 15B



LEGEND ▽ Static Water Level

TRASH FILL | SILTY CLAY | SANDY CLAY | SANDY SILT | SILTY SAND

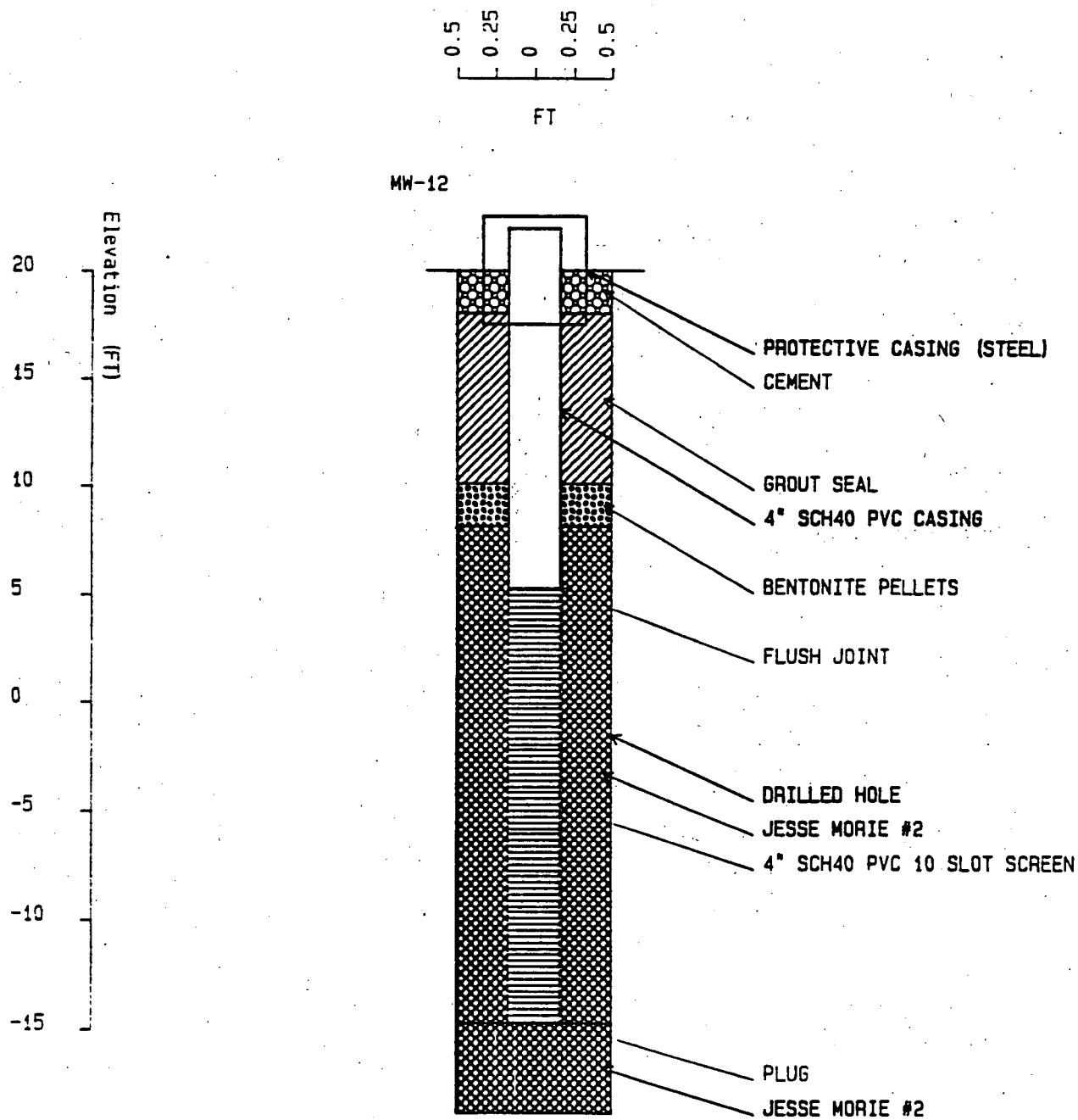
LITHOLOGIC LOG; MW-12

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

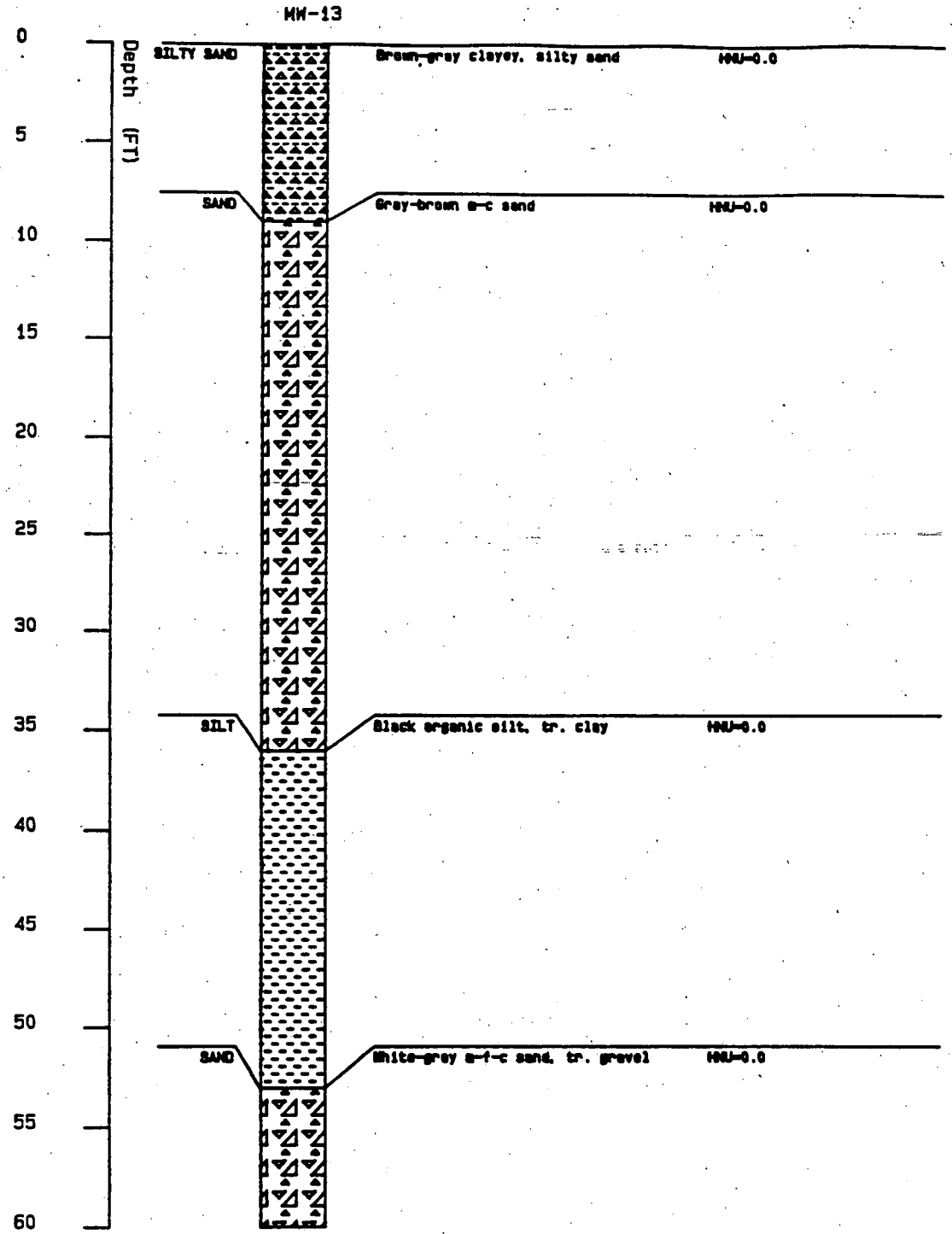
Figure : 16A



MONITORING WELL CONSTRUCTION DETAILS MW-12	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 16B



LEGEND ▽ Static Water Level

SILT SILTY SAND SAND

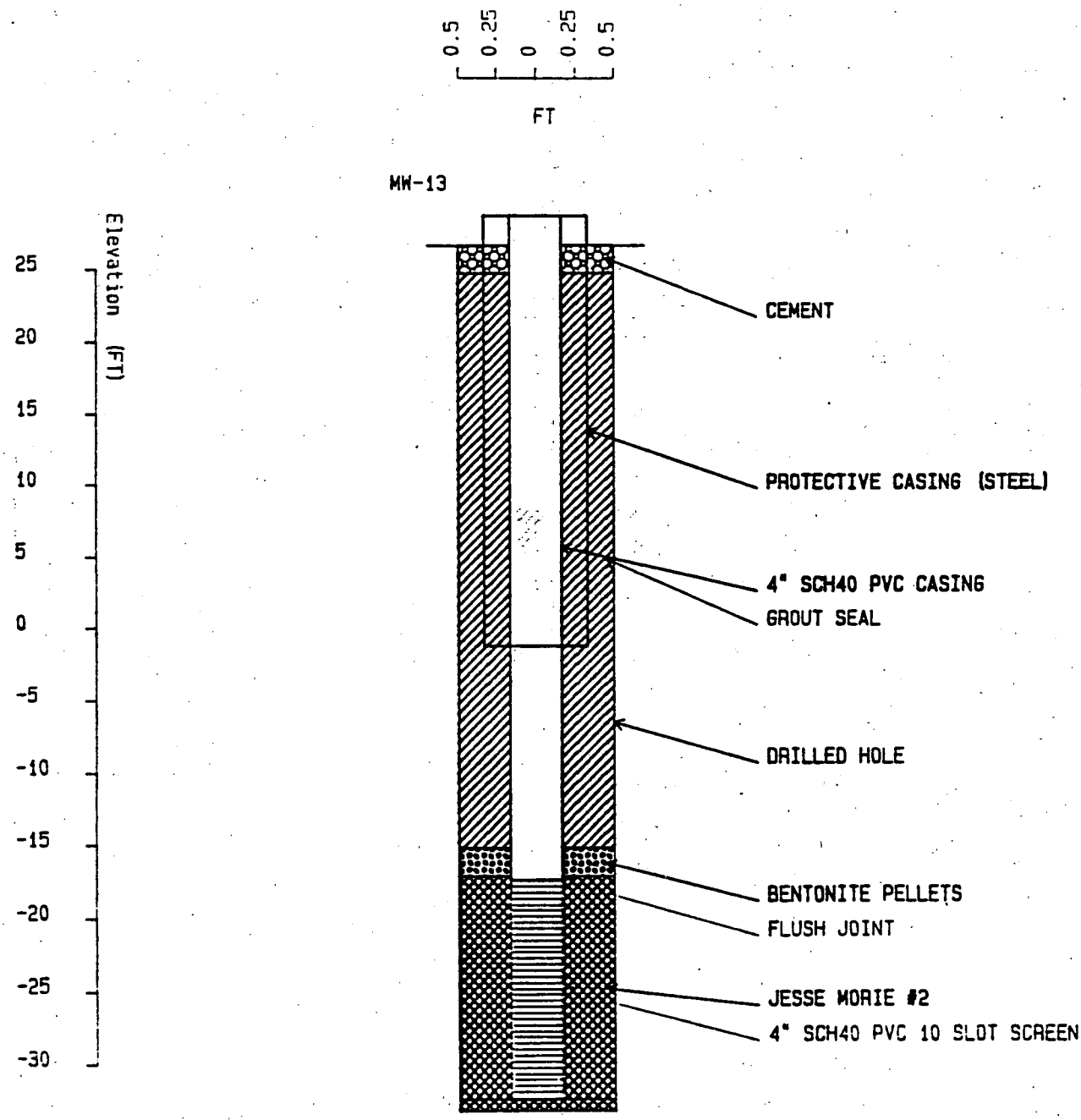
LITHOLOGIC LOG: MW-13

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

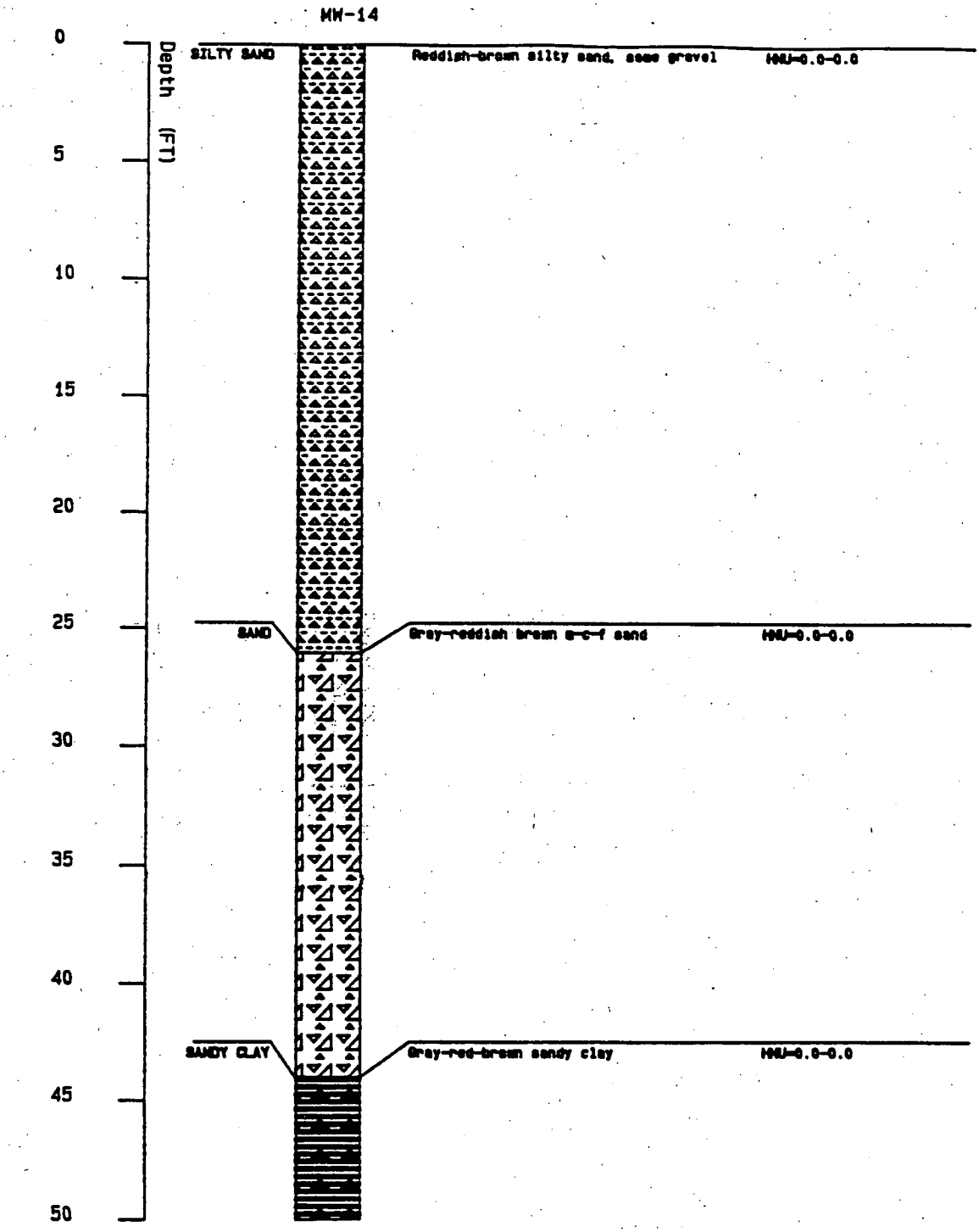
Figure : 17A



MONITORING WELL CONSTRUCTION DETAILS MW-13	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 17B



LEGEND ▽ Static Water Level

SANDY CLAY SILTY SAND SAND

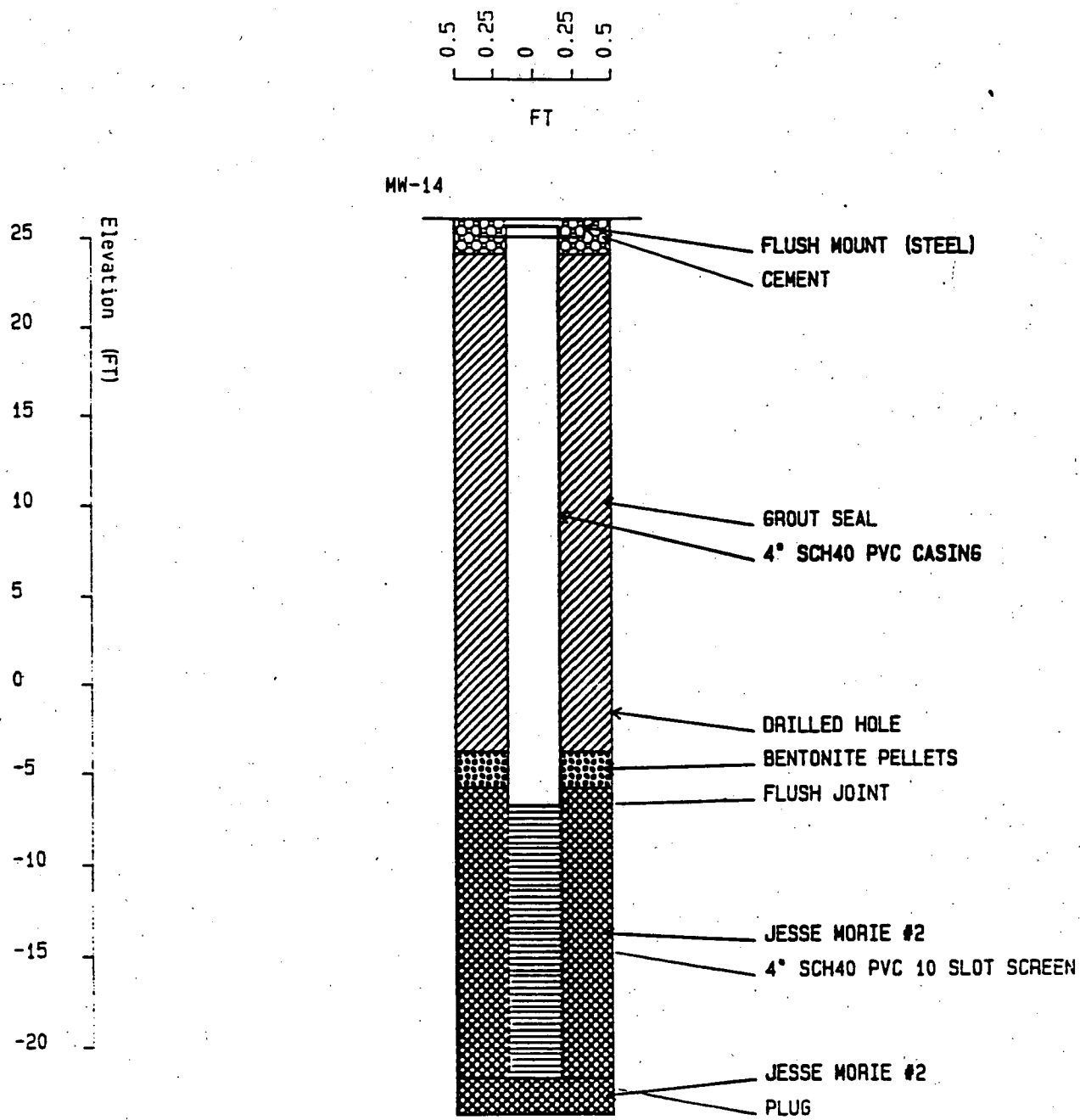
LITHOLOGIC LOG: MW-14

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

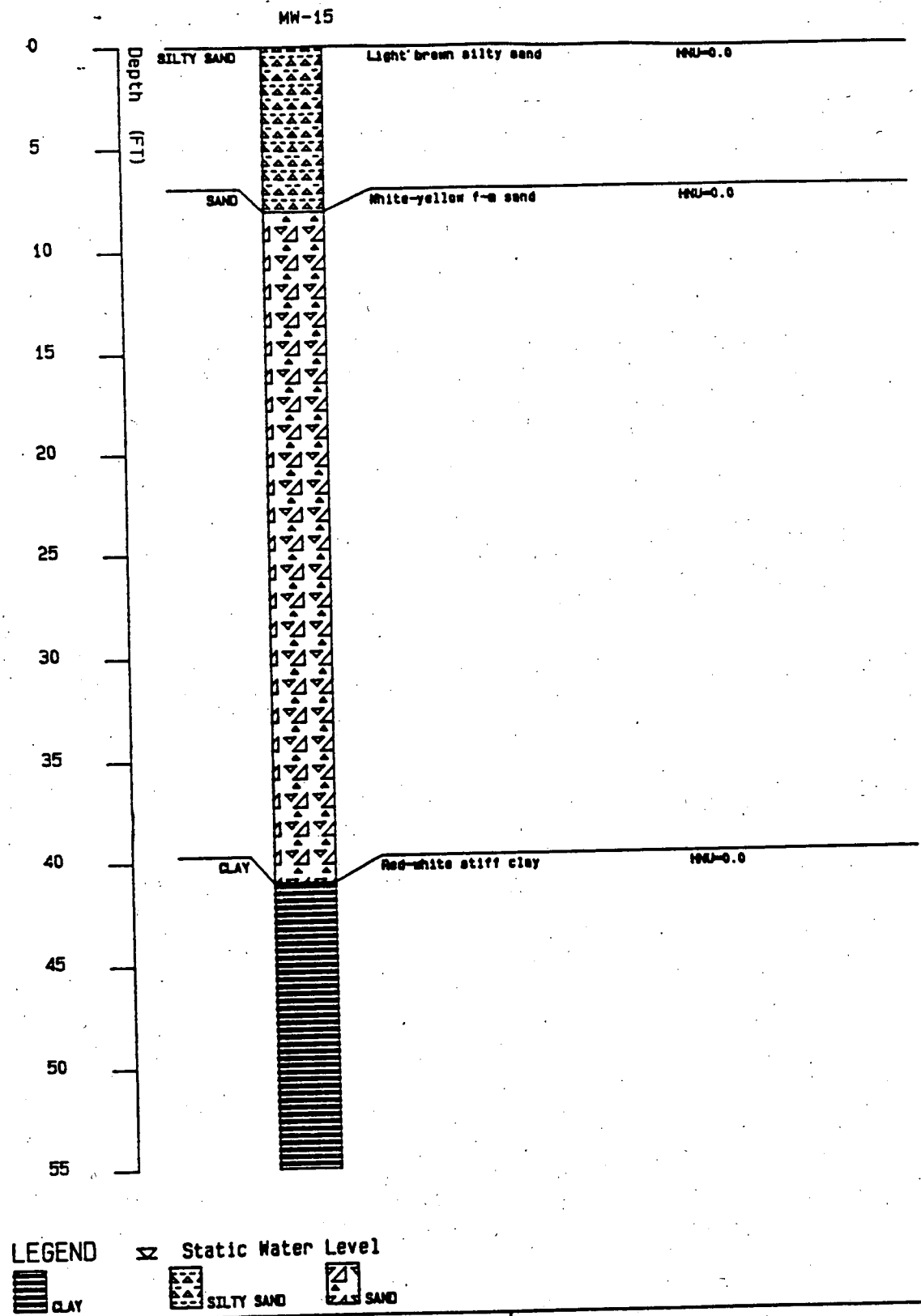
Figure : 18A



MONITORING WELL CONSTRUCTION DETAILS MW-14	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 18B



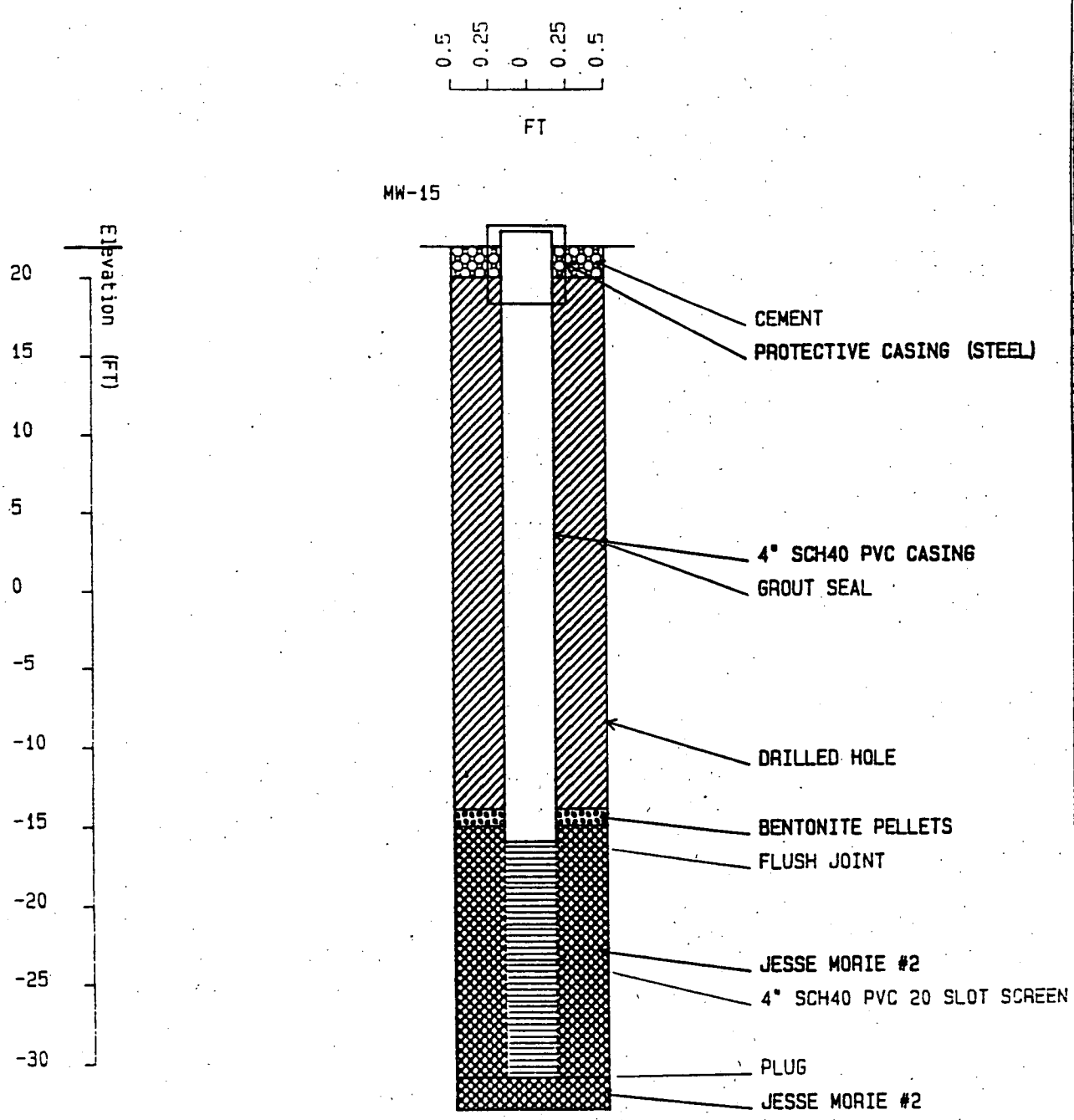
LITHOLOGIC LOG: MW-15

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 19A

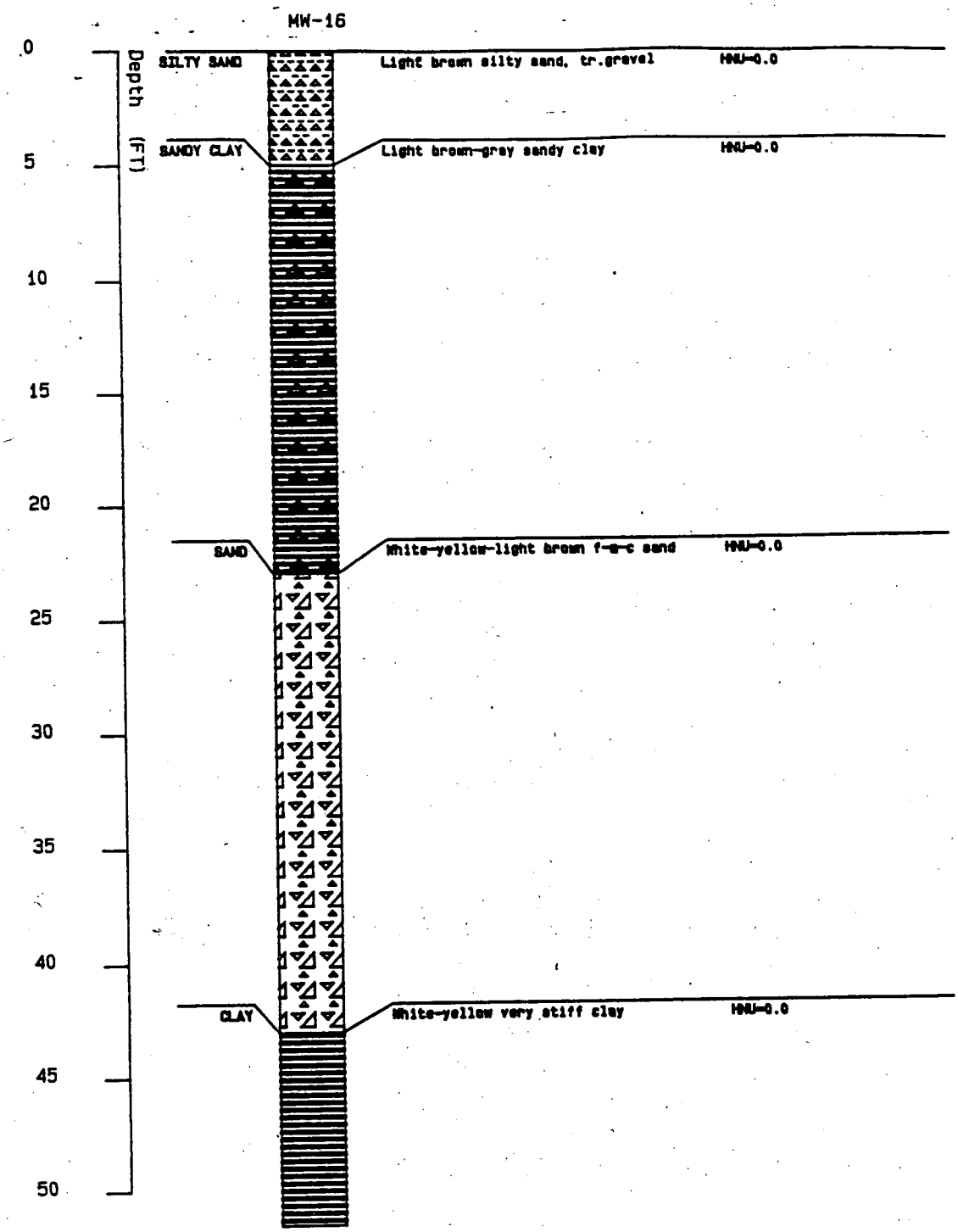


MONITORING WELL CONSTRUCTION DETAILS
MW-15

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 19B



LEGEND ▽ Static Water Level

CLAY SANDY CLAY SILTY SAND SAND

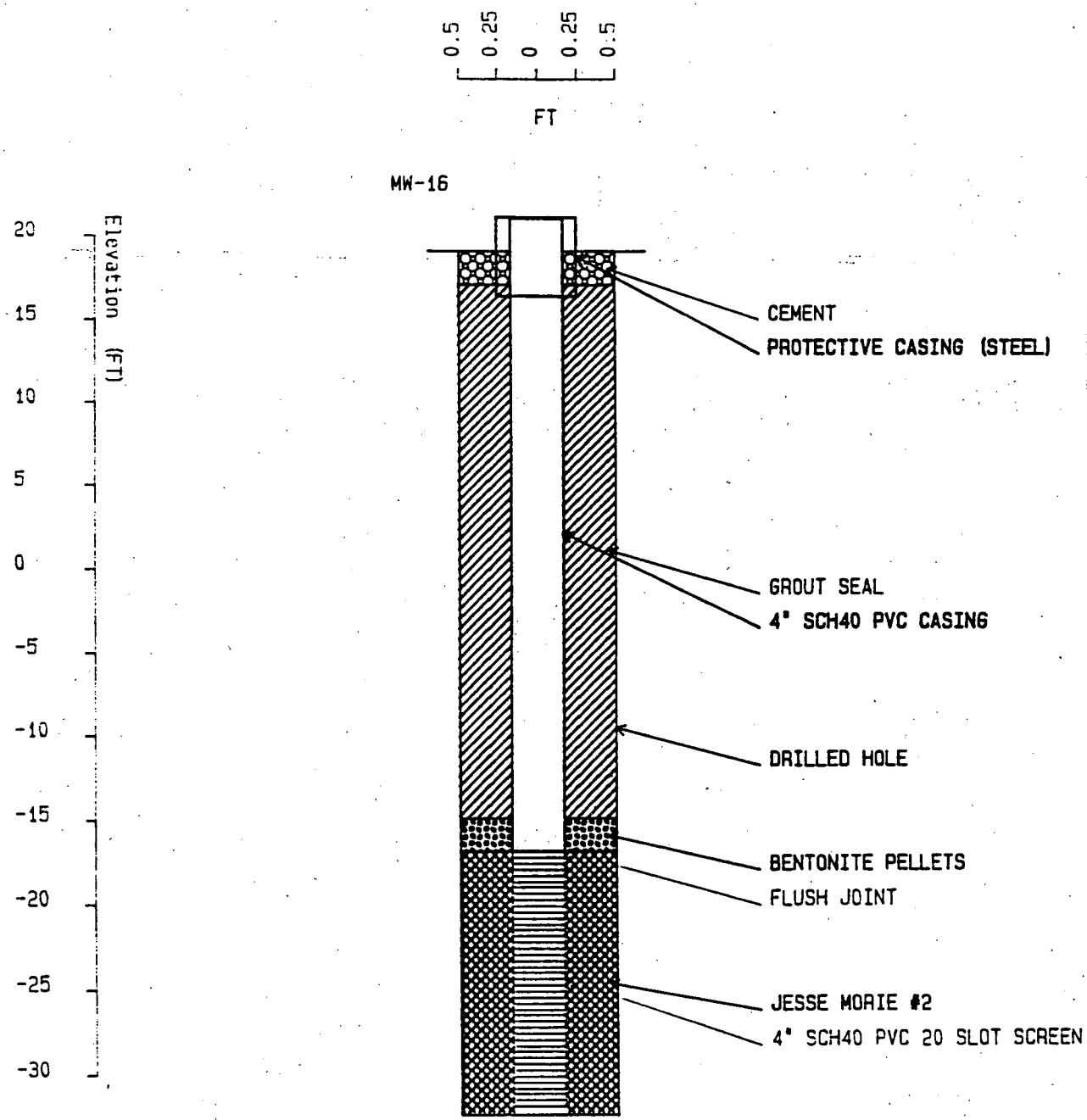
LITHOLOGIC LOG: MW-16

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

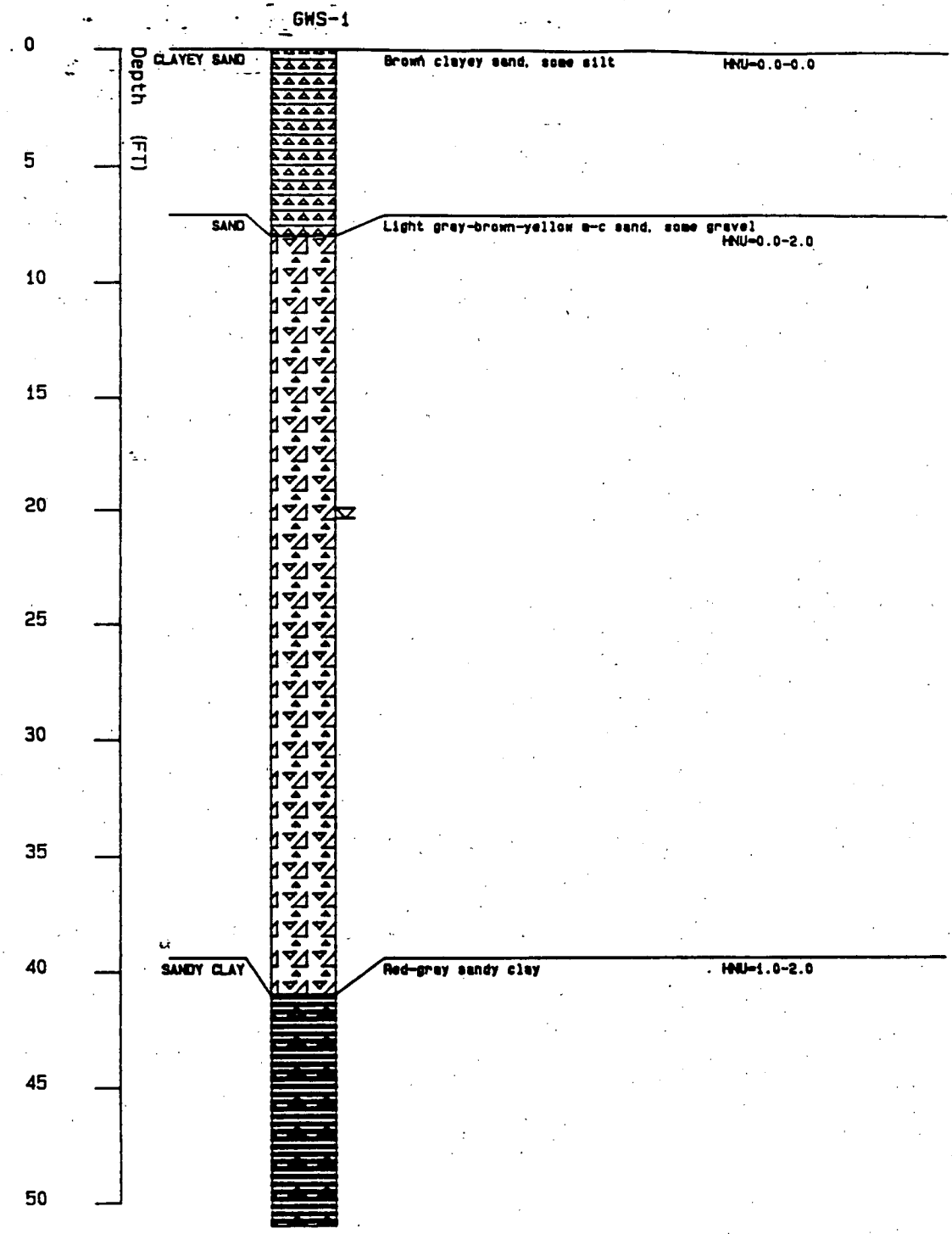
Figure : 20A



MONITORING WELL CONSTRUCTION DETAILS MW-16	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 20B



LEGEND Static Water Level

SANDY CLAY CLAYEY SAND SAND

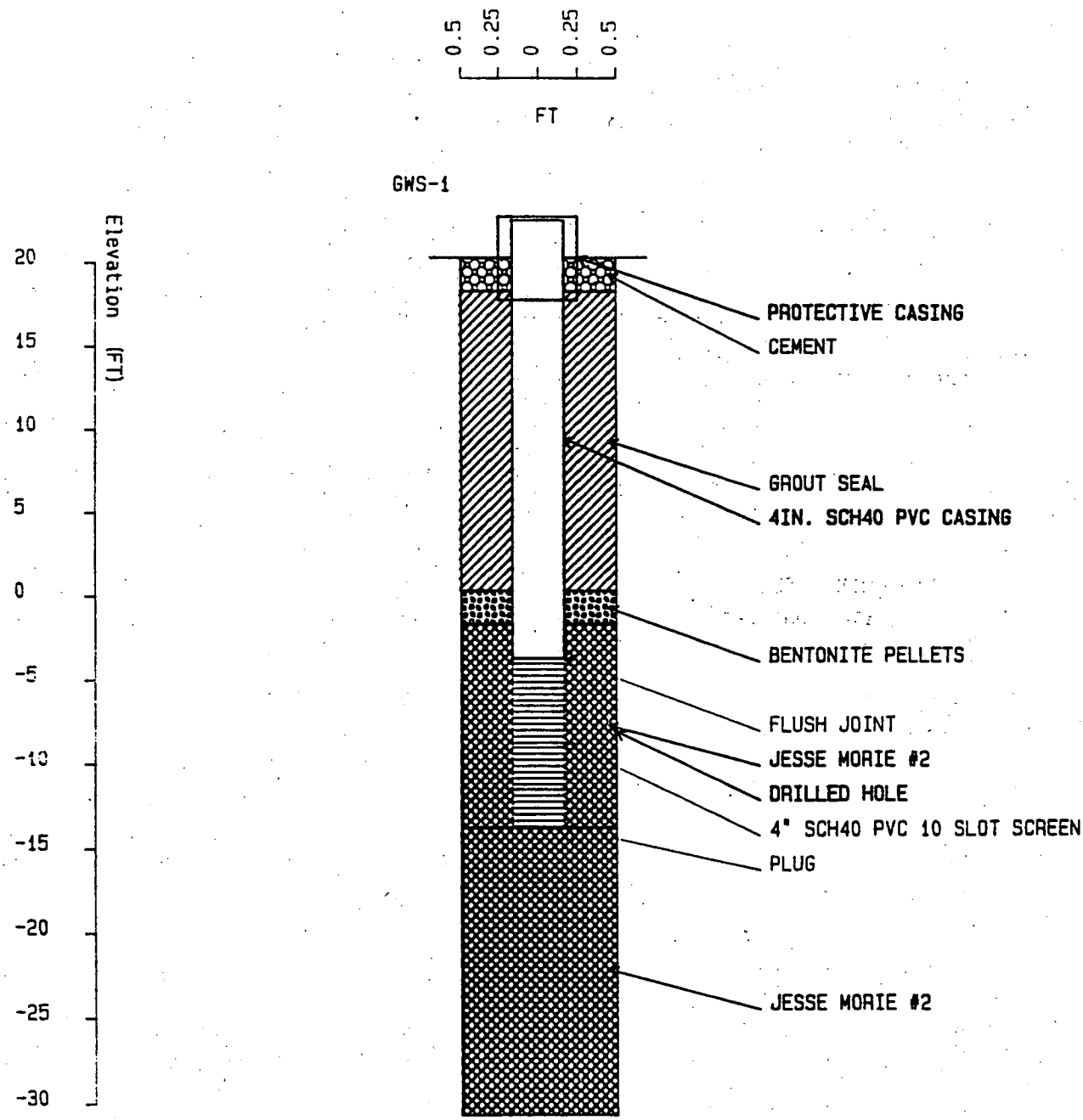
LITHOLOGIC LOG: GWS-1

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

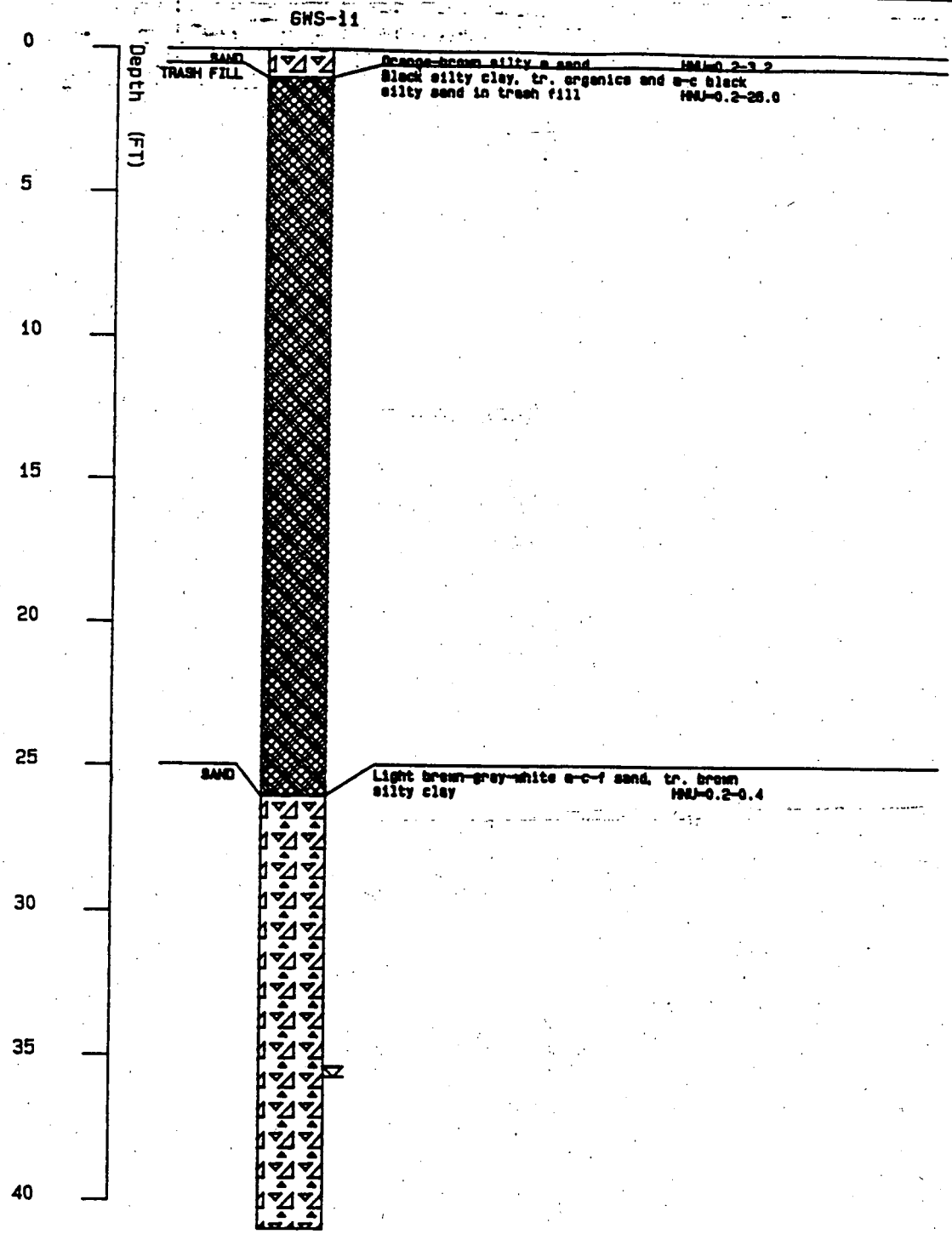
Figure : 21A



MONITORING WELL CONSTRUCTION DETAILS GWS-1	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 21B



LEGEND

Static Water Level

TRASH FILL

SAND

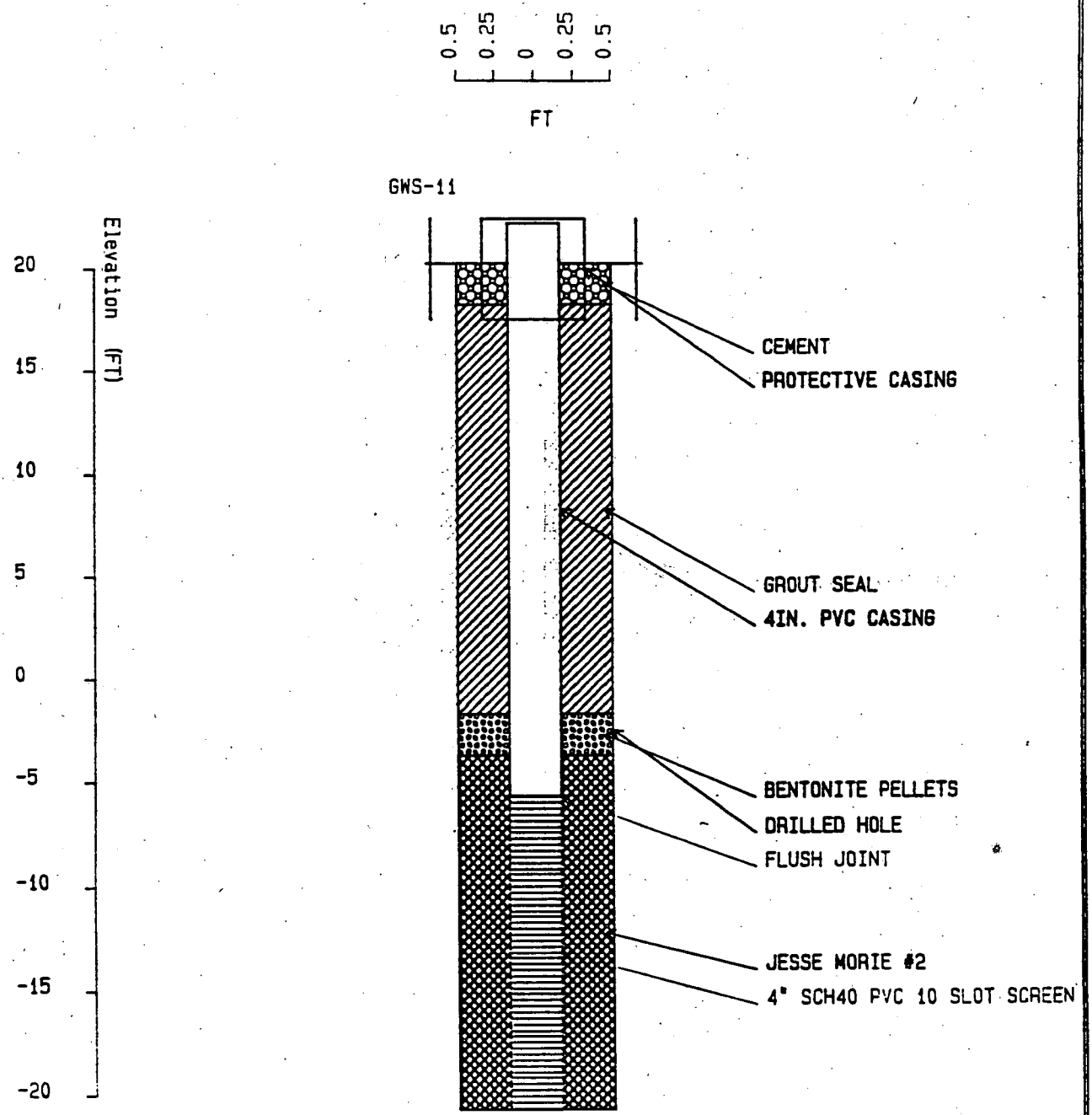
LITHOLOGIC LOG: GWS-11

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

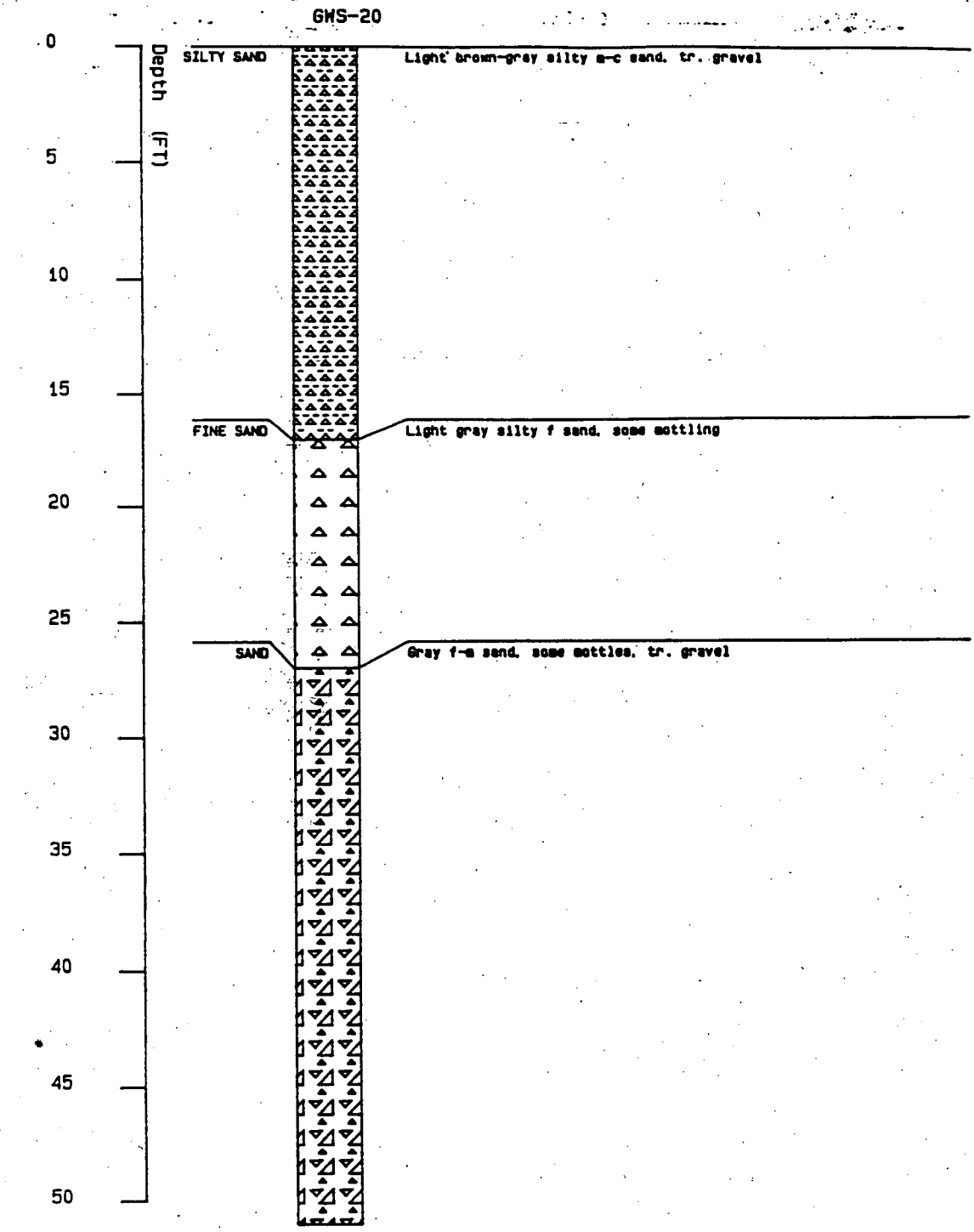
Figure : 22A



MONITORING WELL CONSTRUCTION DETAILS GWS-11	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 22B



LEGEND ▽ Static Water Level

SILTY SAND FINE SAND SAND

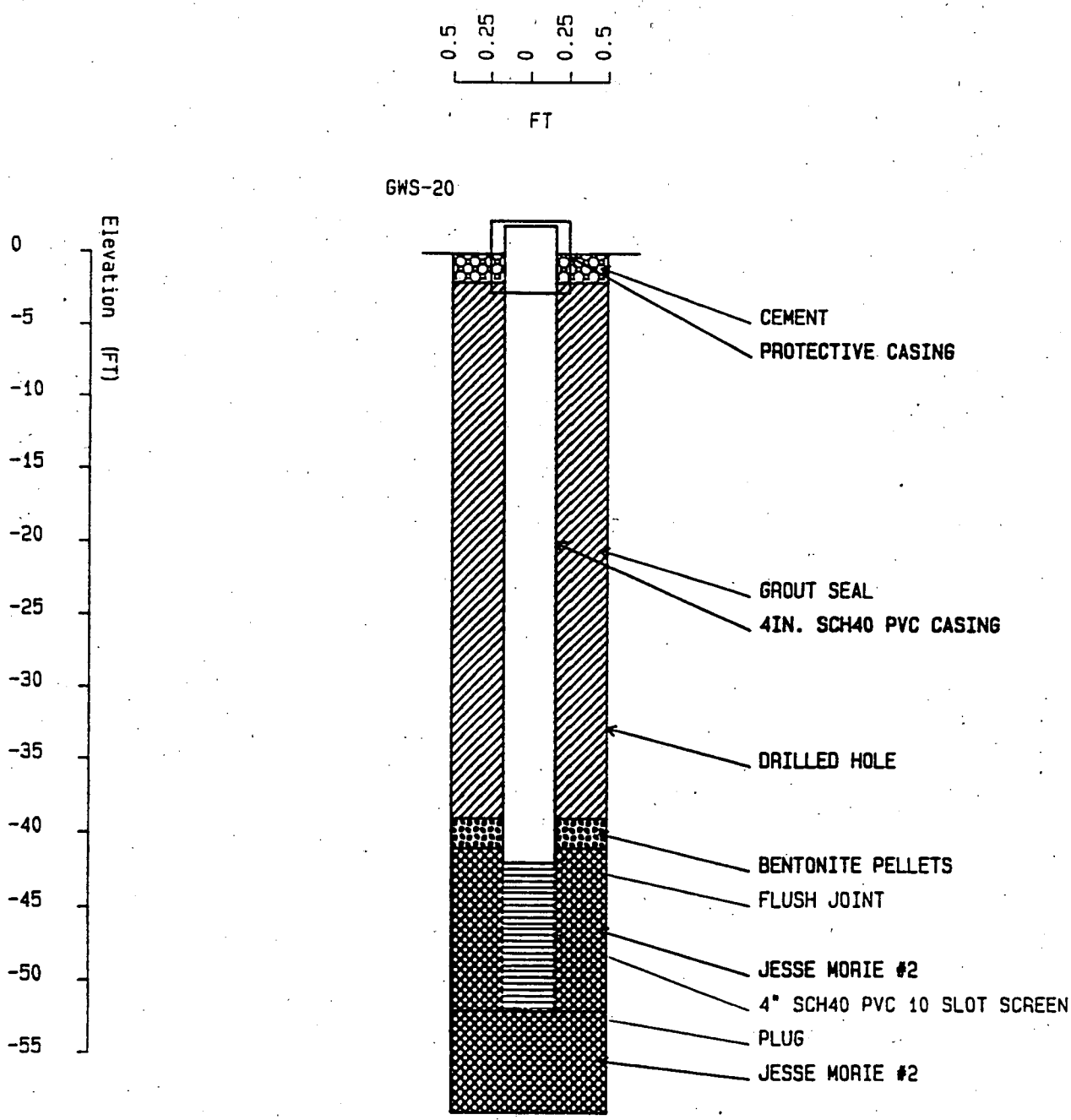
LITHOLOGIC LOG: GWS-20

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

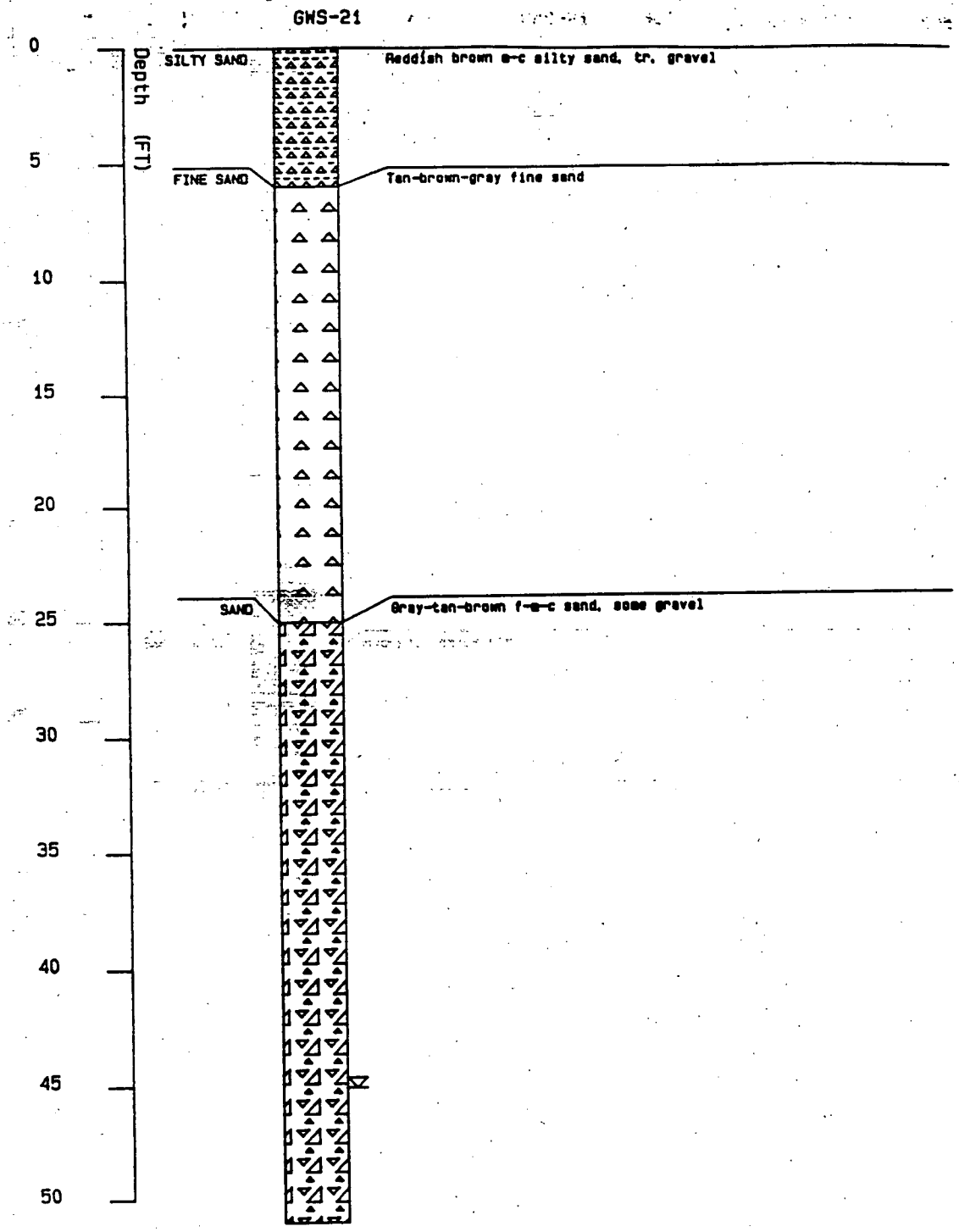
Figure : 23A



MONITORING WELL CONSTRUCTION DETAILS GWS-20	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 23B



LEGEND

Static Water Level

SILTY SAND

FINE SAND

SAND

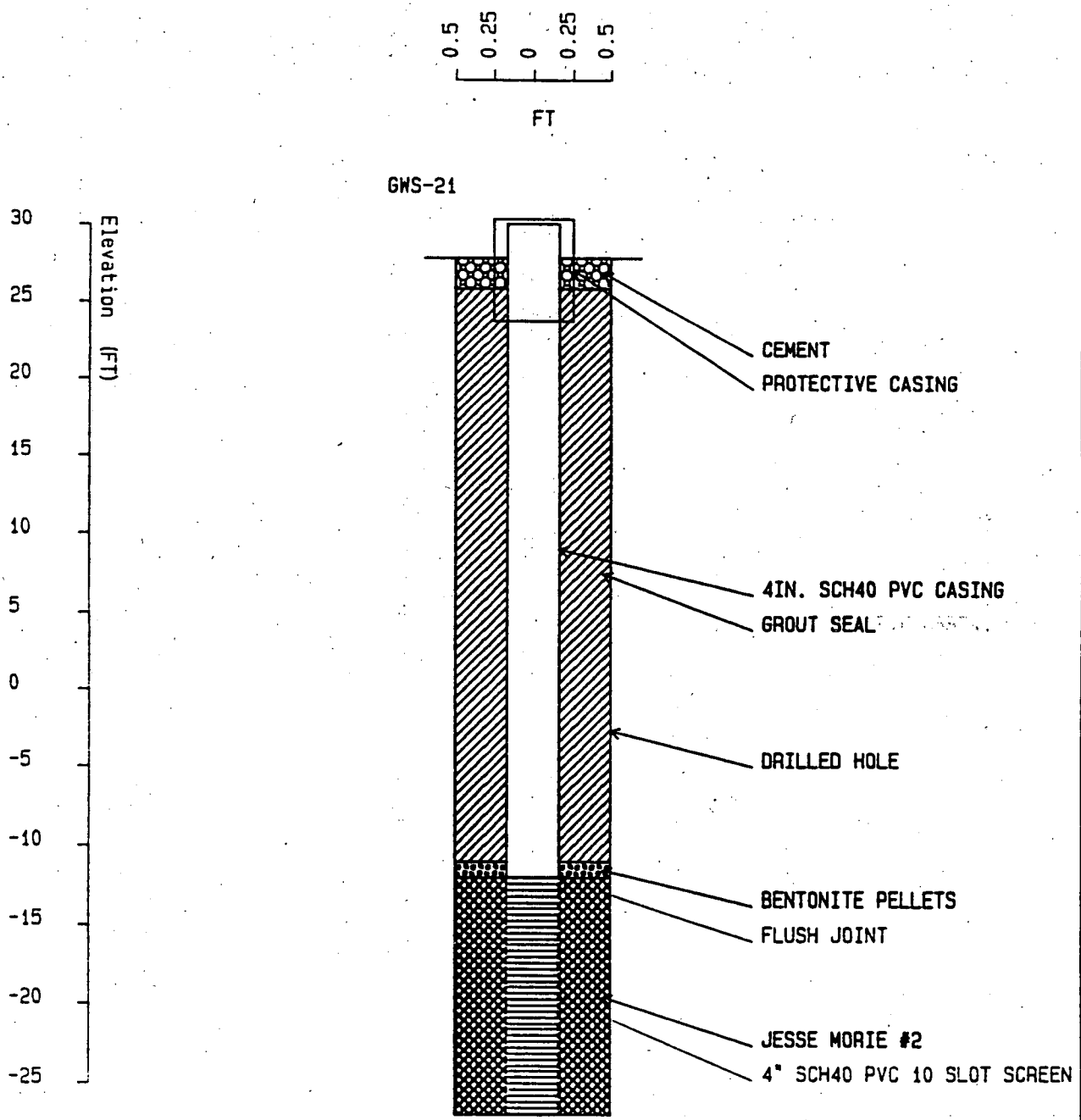
LITHOLOGIC LOG: GWS-21

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

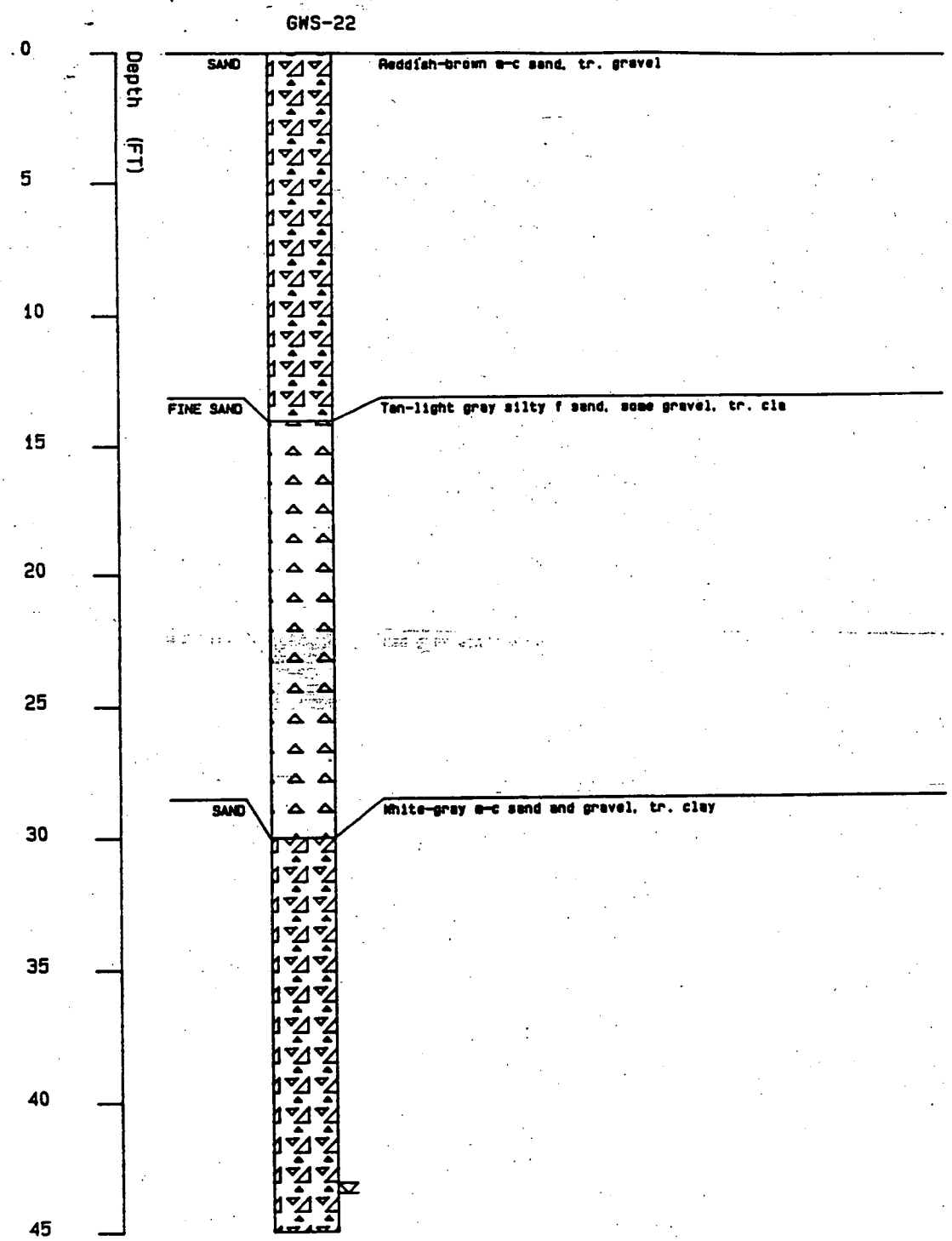
Figure : 24A



MONITORING WELL CONSTRUCTION DETAILS GWS-21	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 24B



LEGEND ▽ Static Water Level

FINE SAND SAND

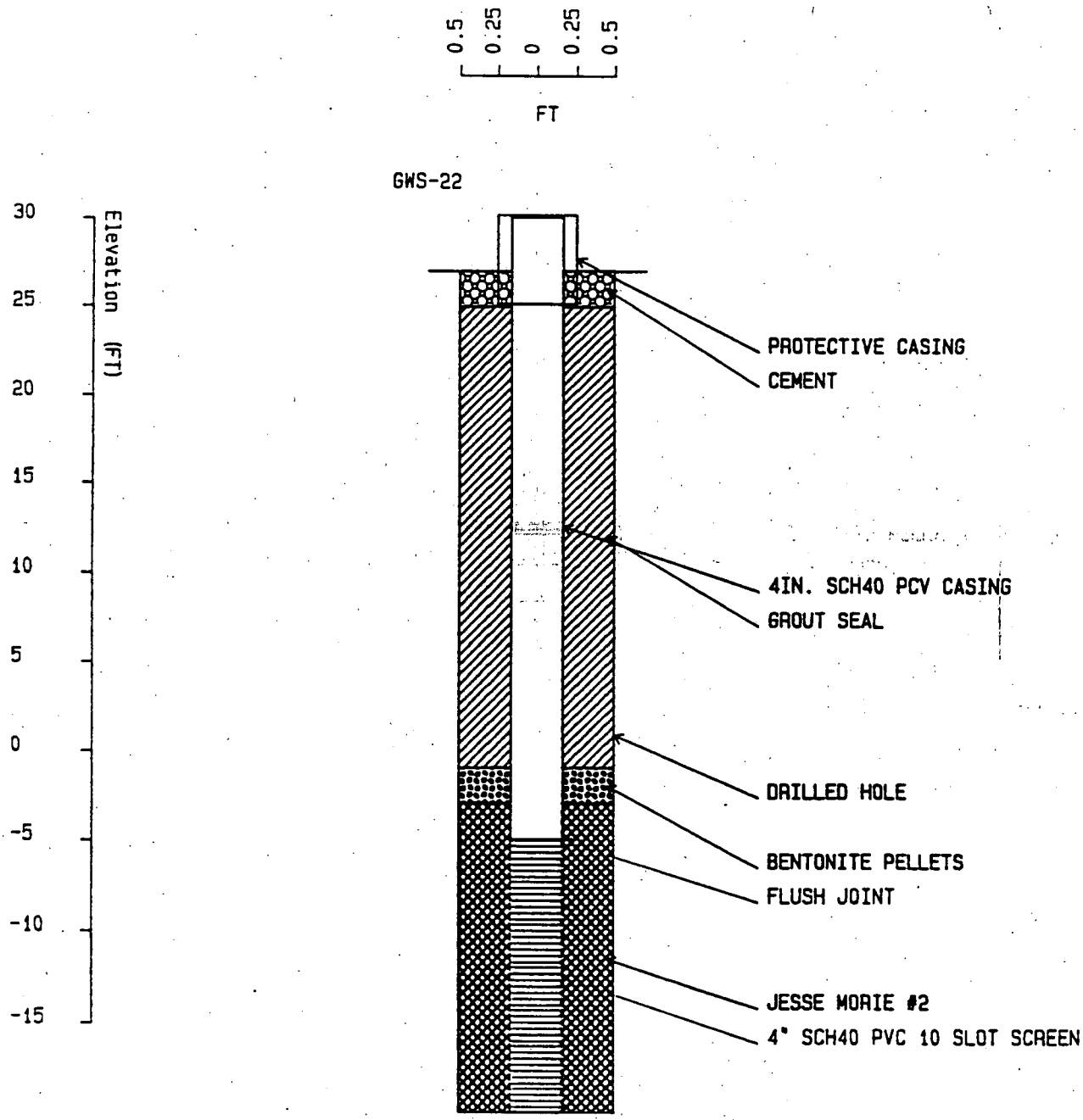
LITHOLOGIC LOG: GWS-22

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 25A

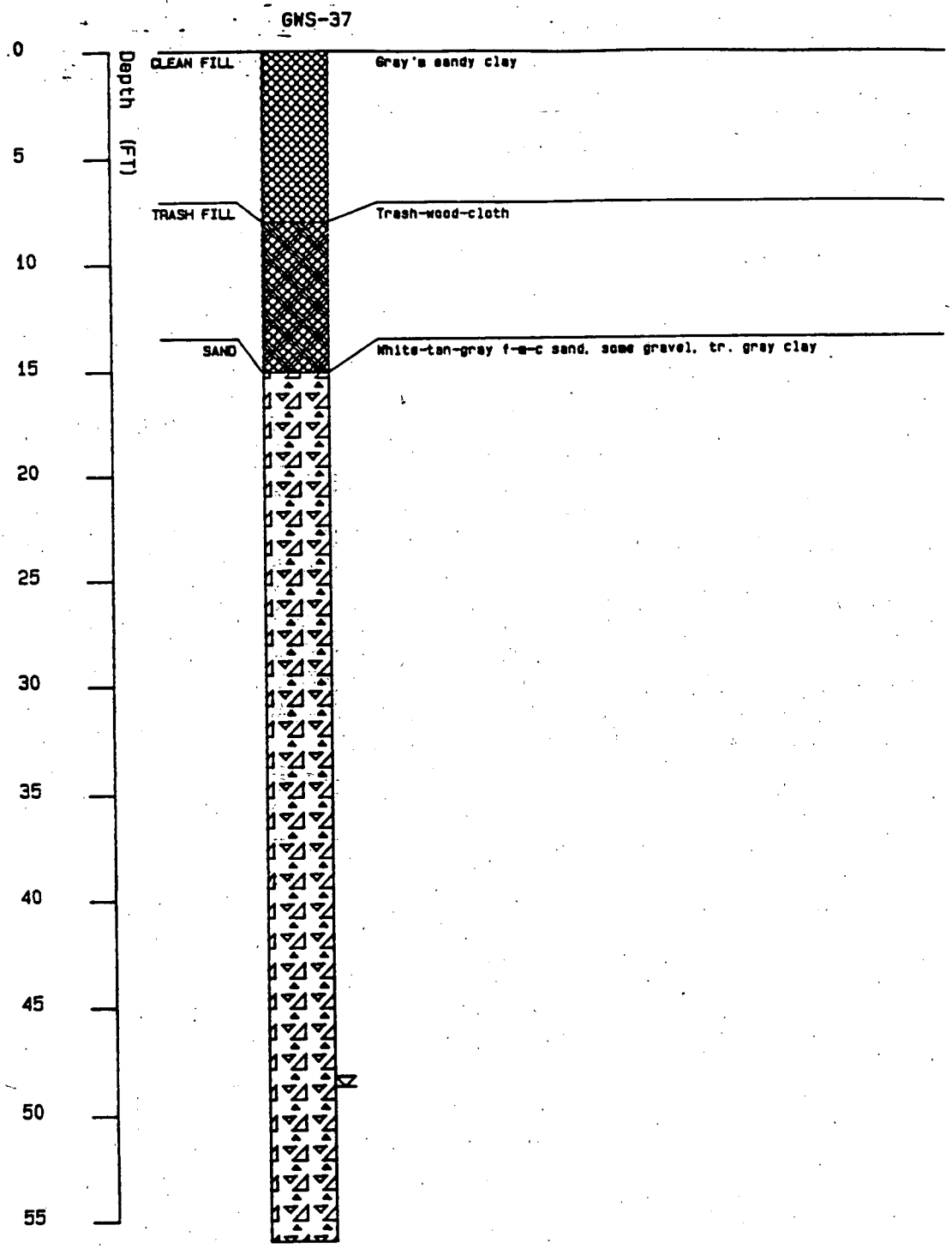


MONITORING WELL CONSTRUCTION DETAILS
GWS-22

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 25B



LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL SAND

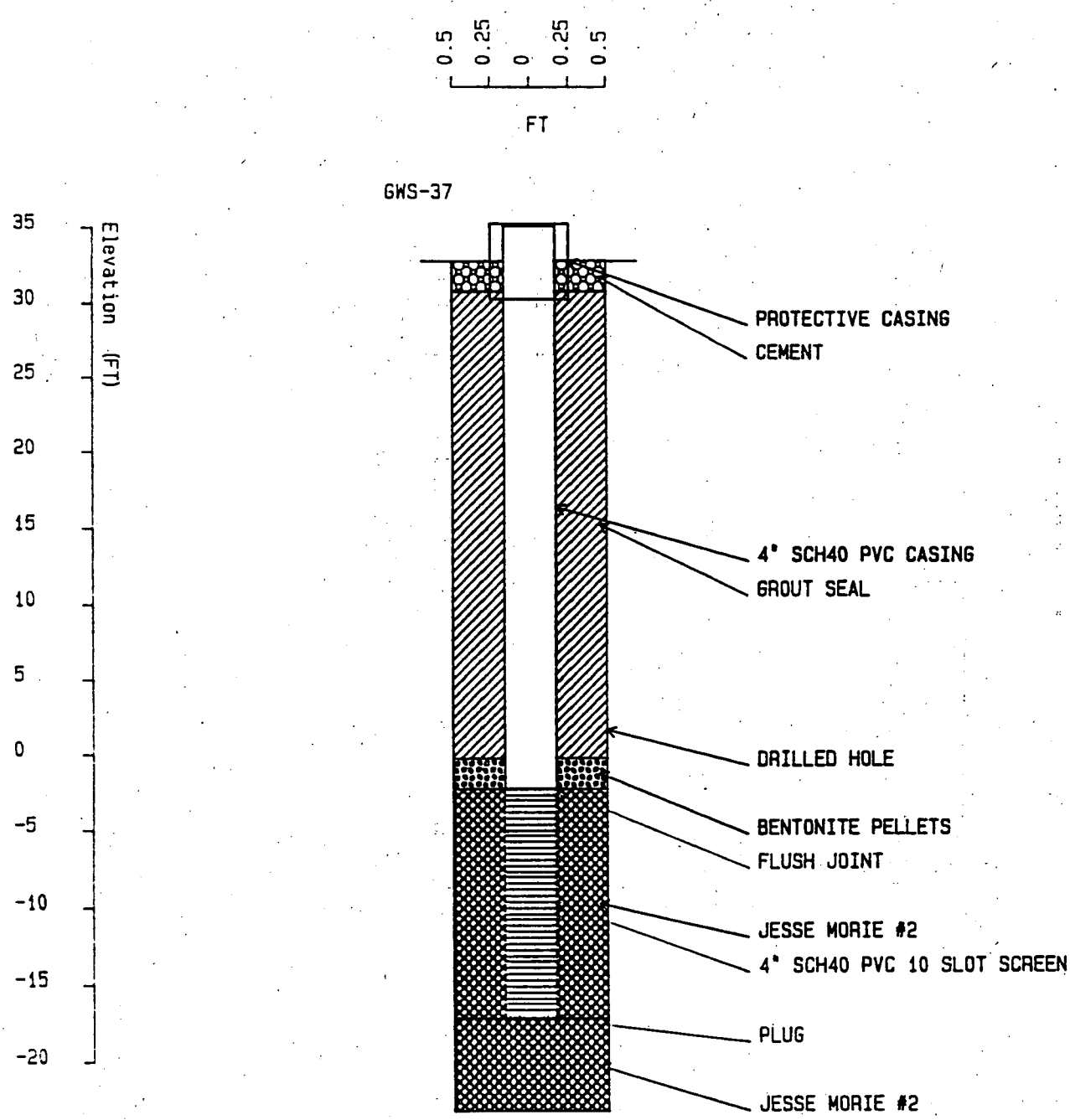
LITHOLOGIC LOG; GWS-37

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

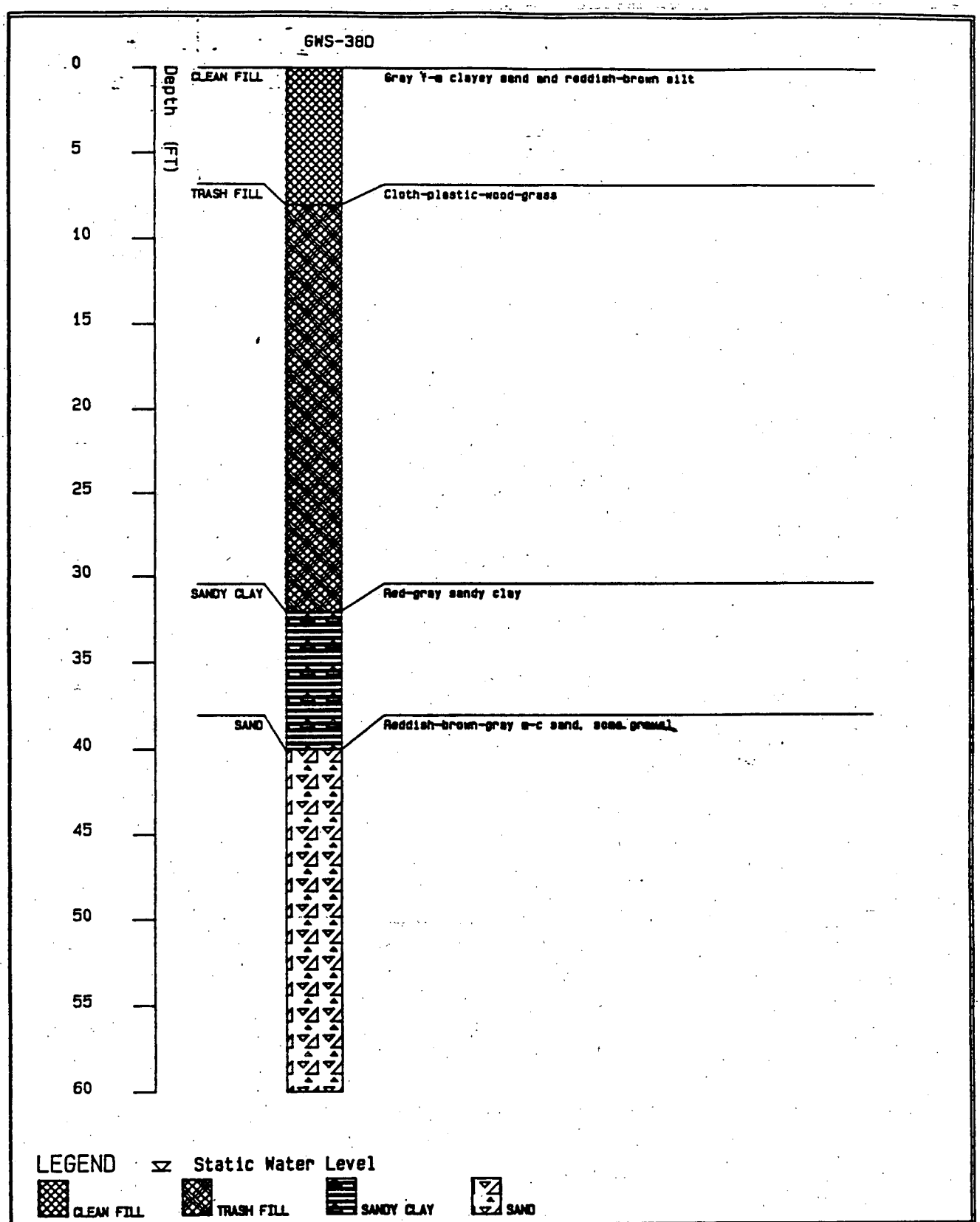
Figure : 26A



MONITORING WELL CONSTRUCTION DETAILS GWS-37	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 26B

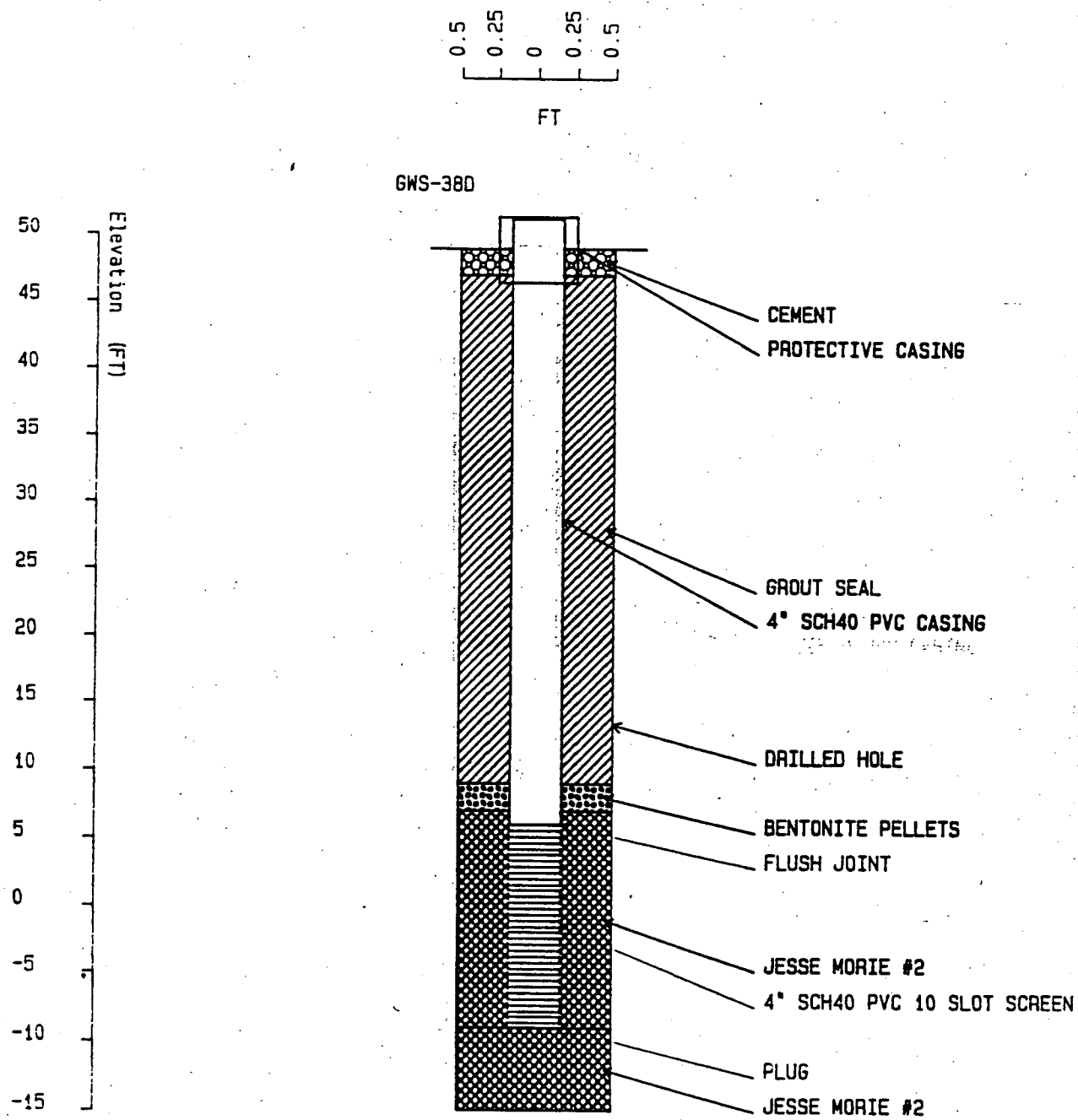


LITHOLOGIC LOG: GWS-38D
STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

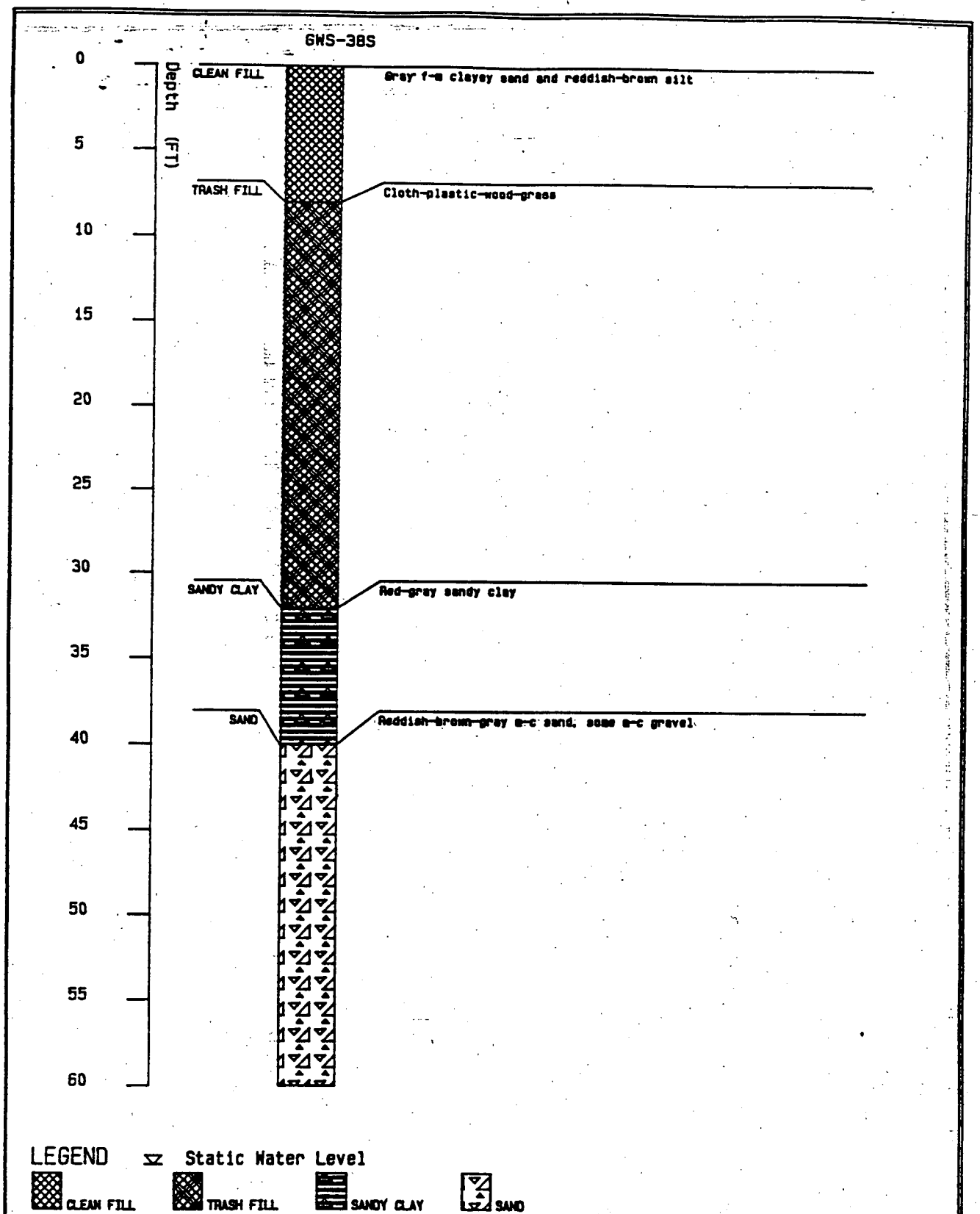
Figure : 27A



MONITORING WELL CONSTRUCTION DETAILS GWS-38D	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 27B



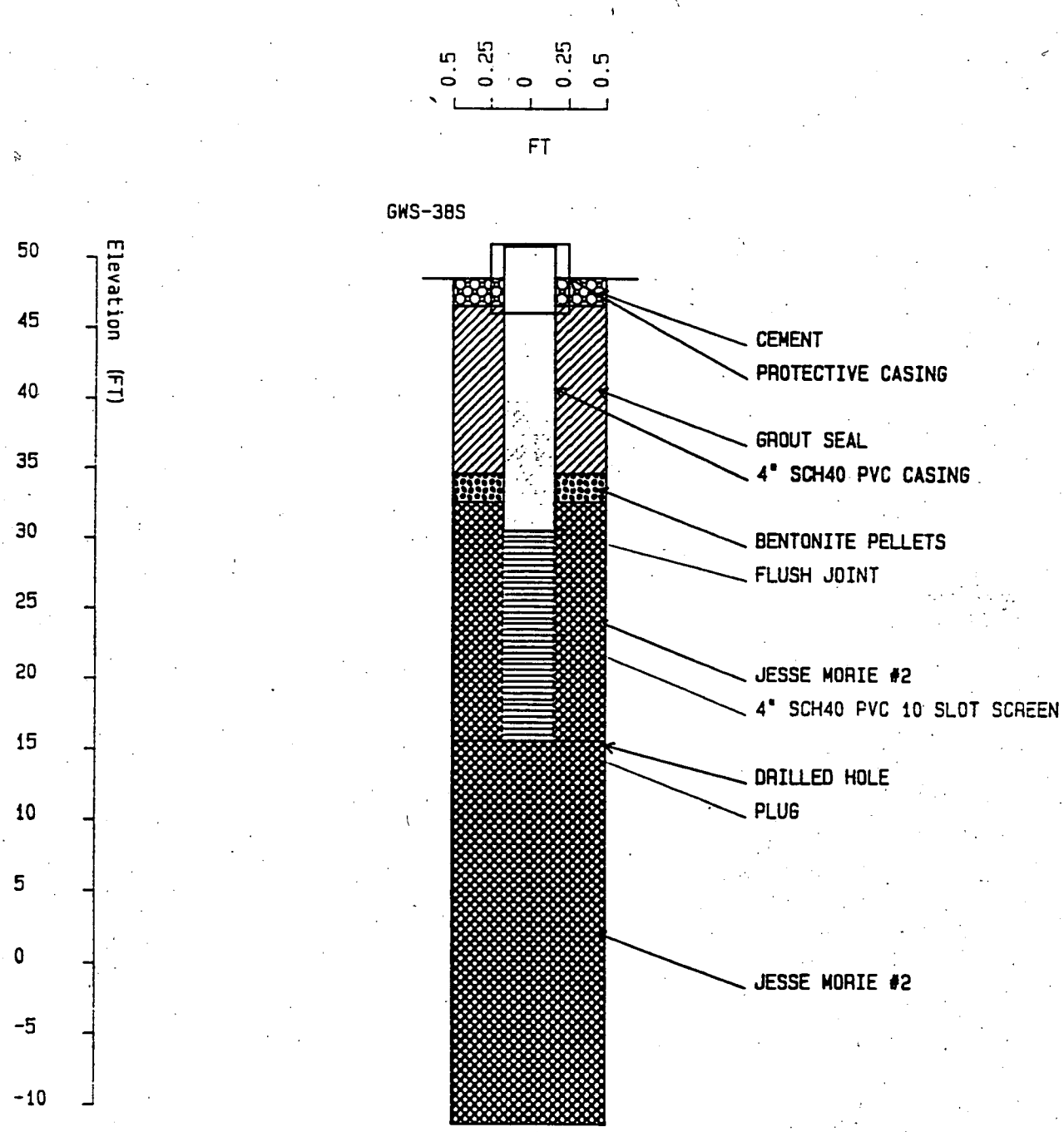
LITHOLOGIC LOG; GWS-38S

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

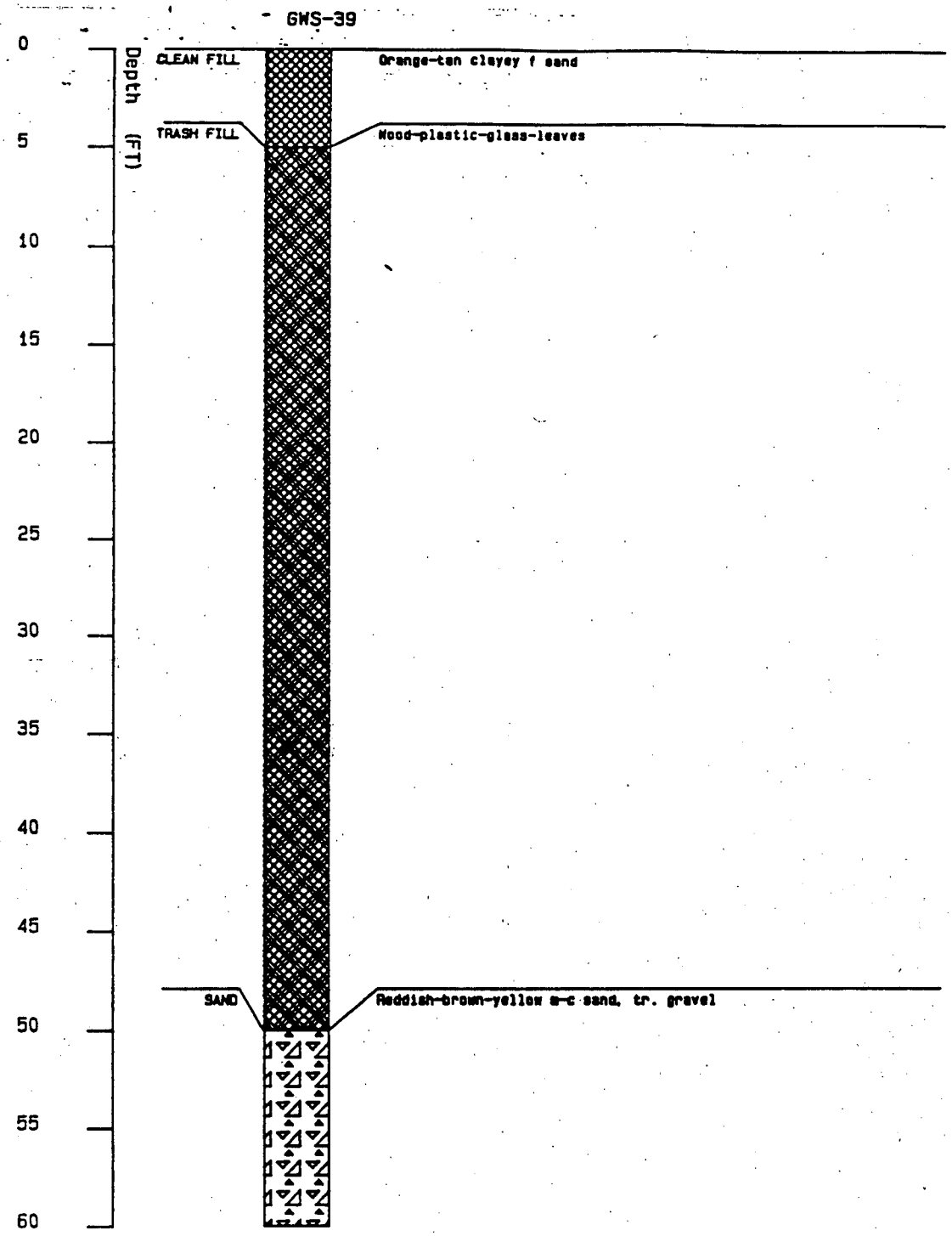
Figure : 28A



MONITORING WELL CONSTRUCTION DETAILS GWS-38S	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 28B



LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL SAND

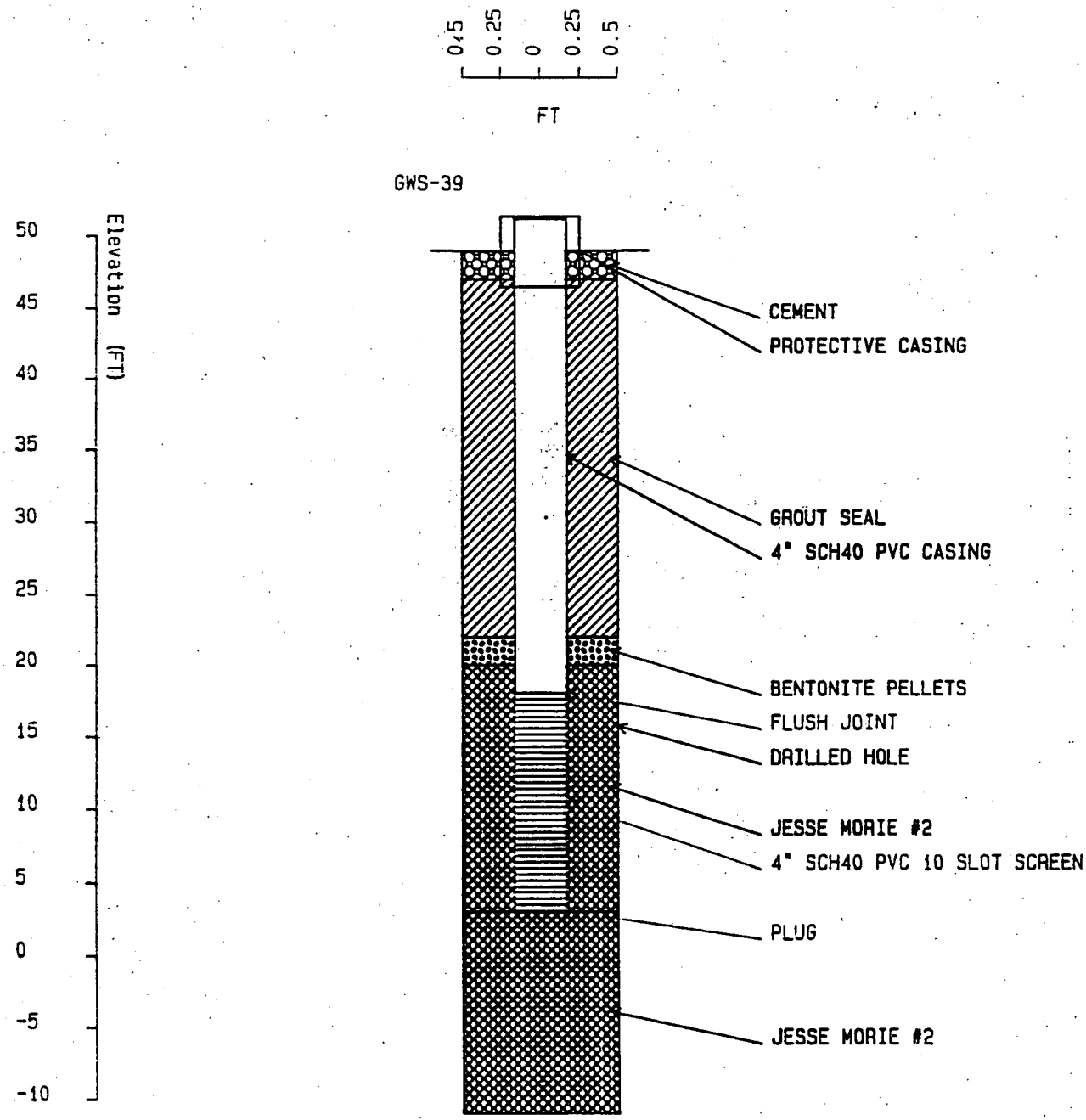
LITHOLOGIC LOG: GWS-39

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

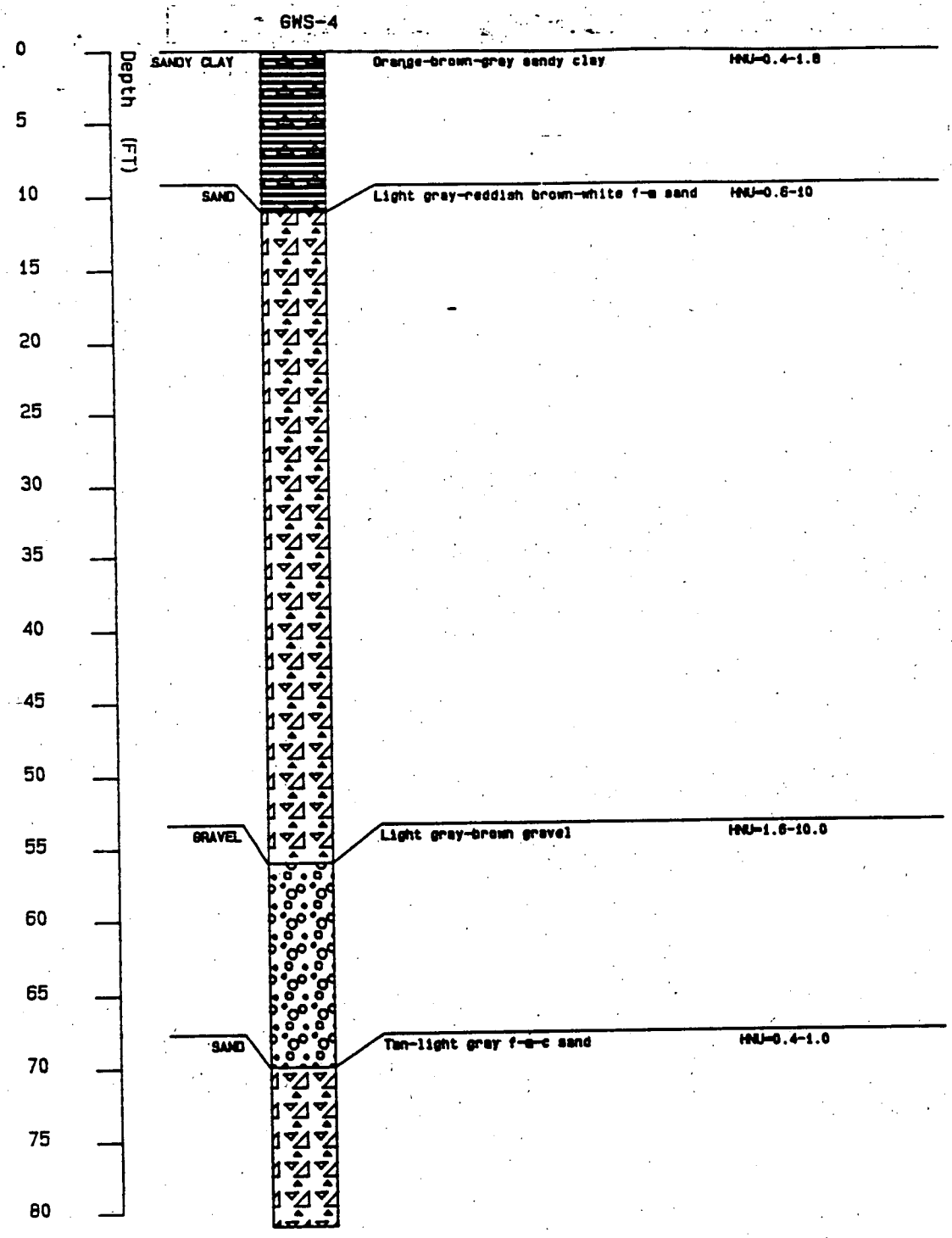
Figure : 29A



MONITORING WELL CONSTRUCTION DETAILS GWS-39	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 29B



LEGEND ▽ Static Water Level

SANDY CLAY SAND GRAVEL

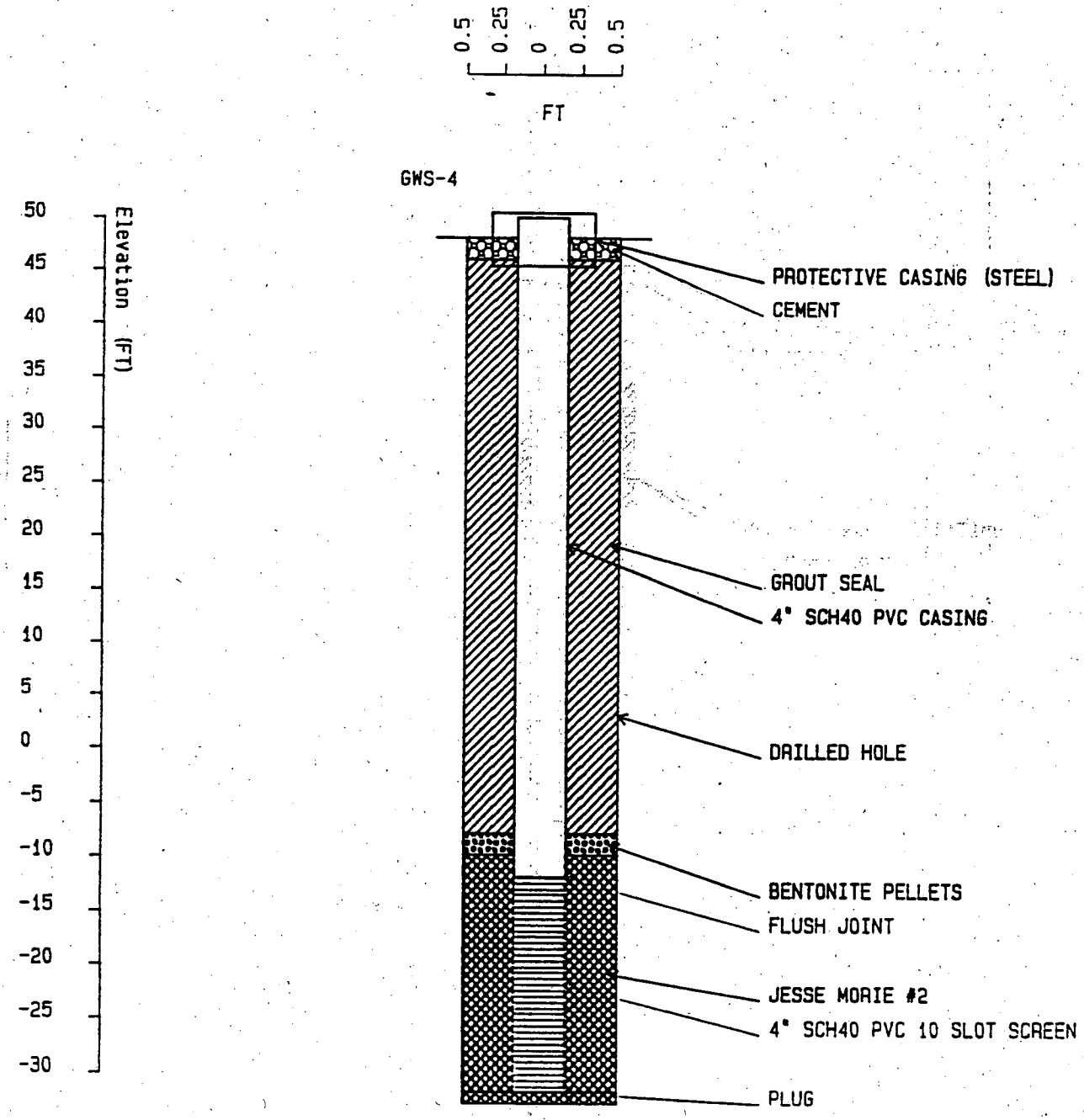
LITHOLOGIC LOG; GWS-4

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

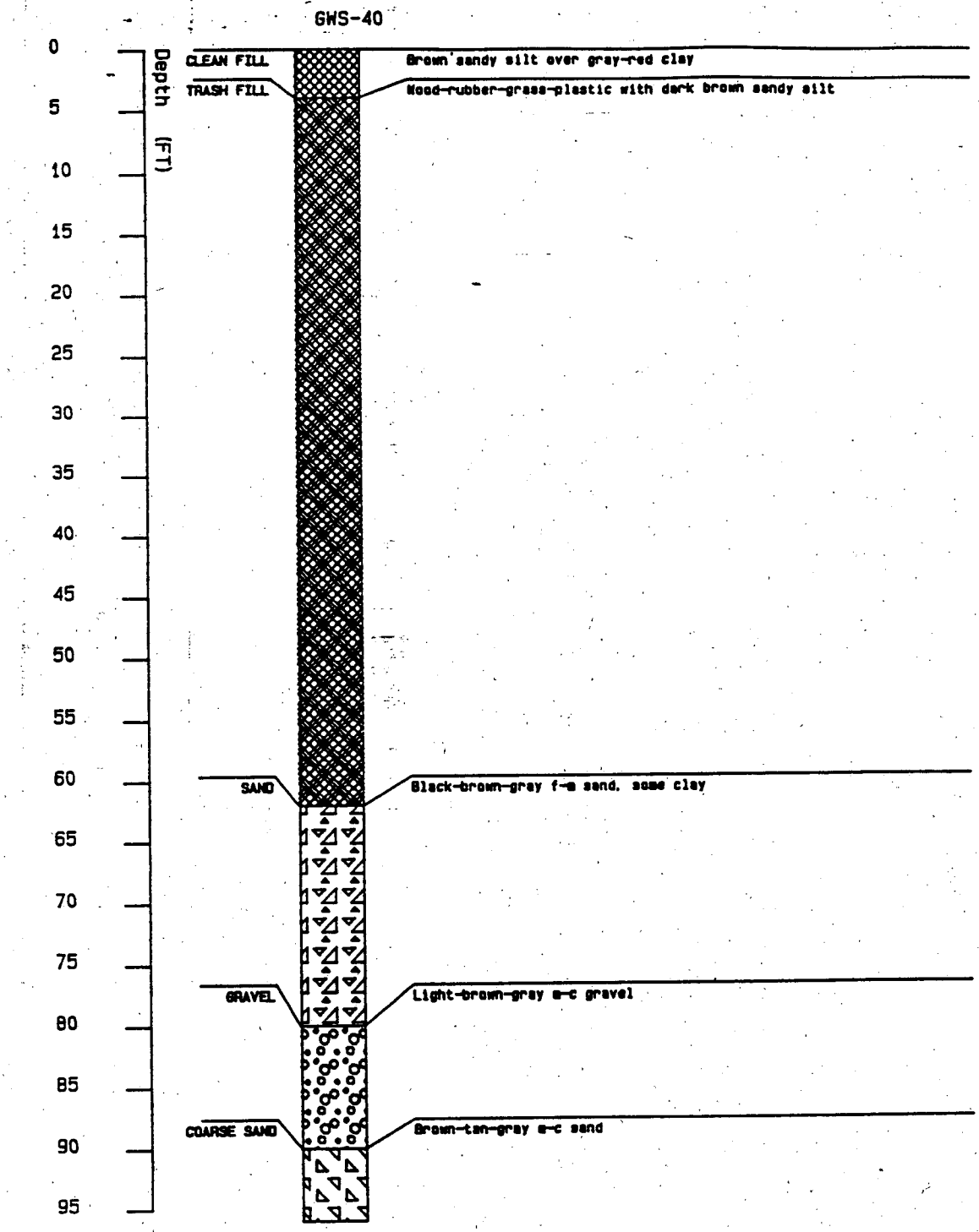
Figure : 30A



MONITORING WELL CONSTRUCTION DETAILS GWS-4	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 30B



LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL COARSE SAND SAND GRAVEL

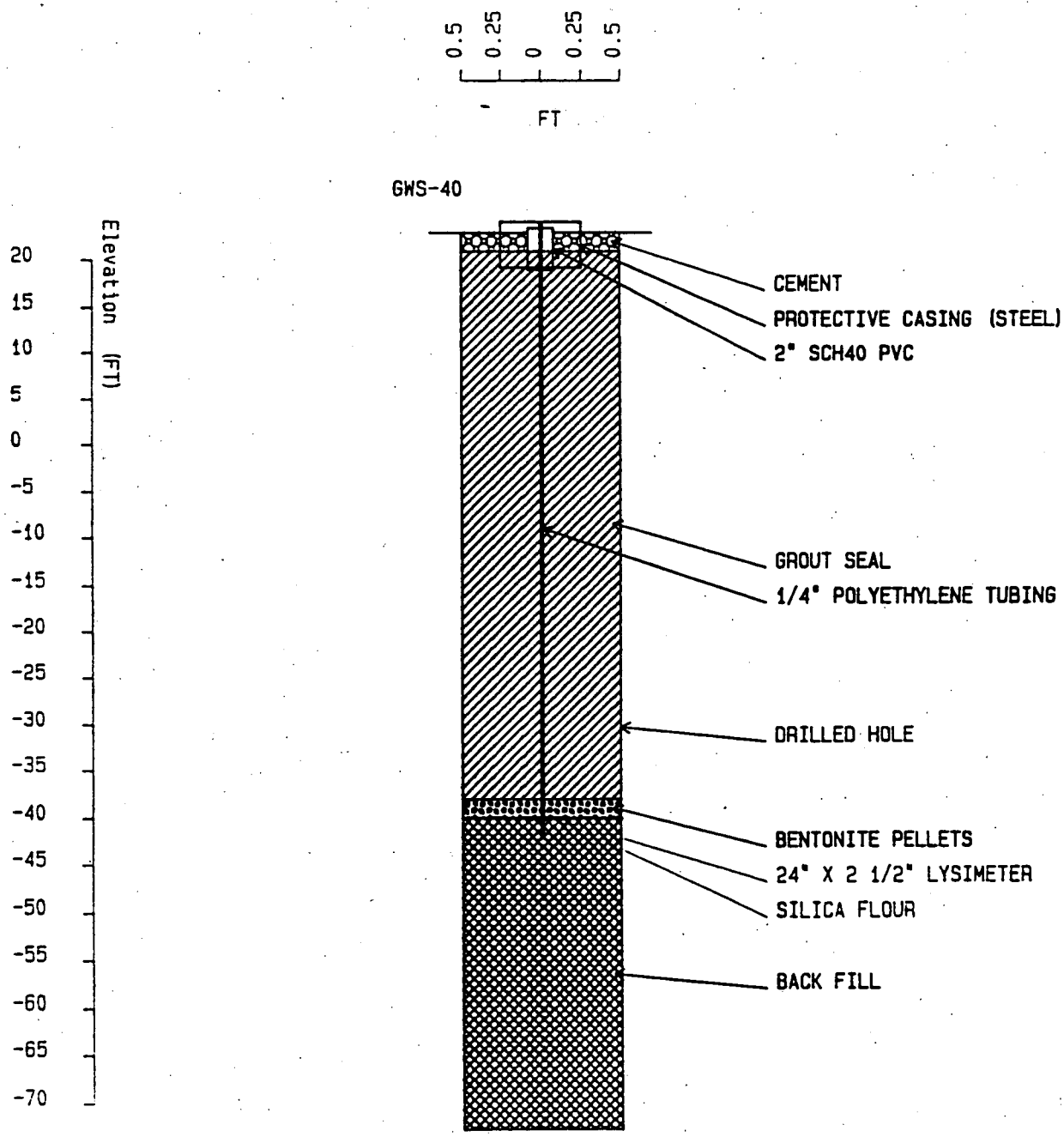
LITHOLOGIC LOG: GWS-40

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

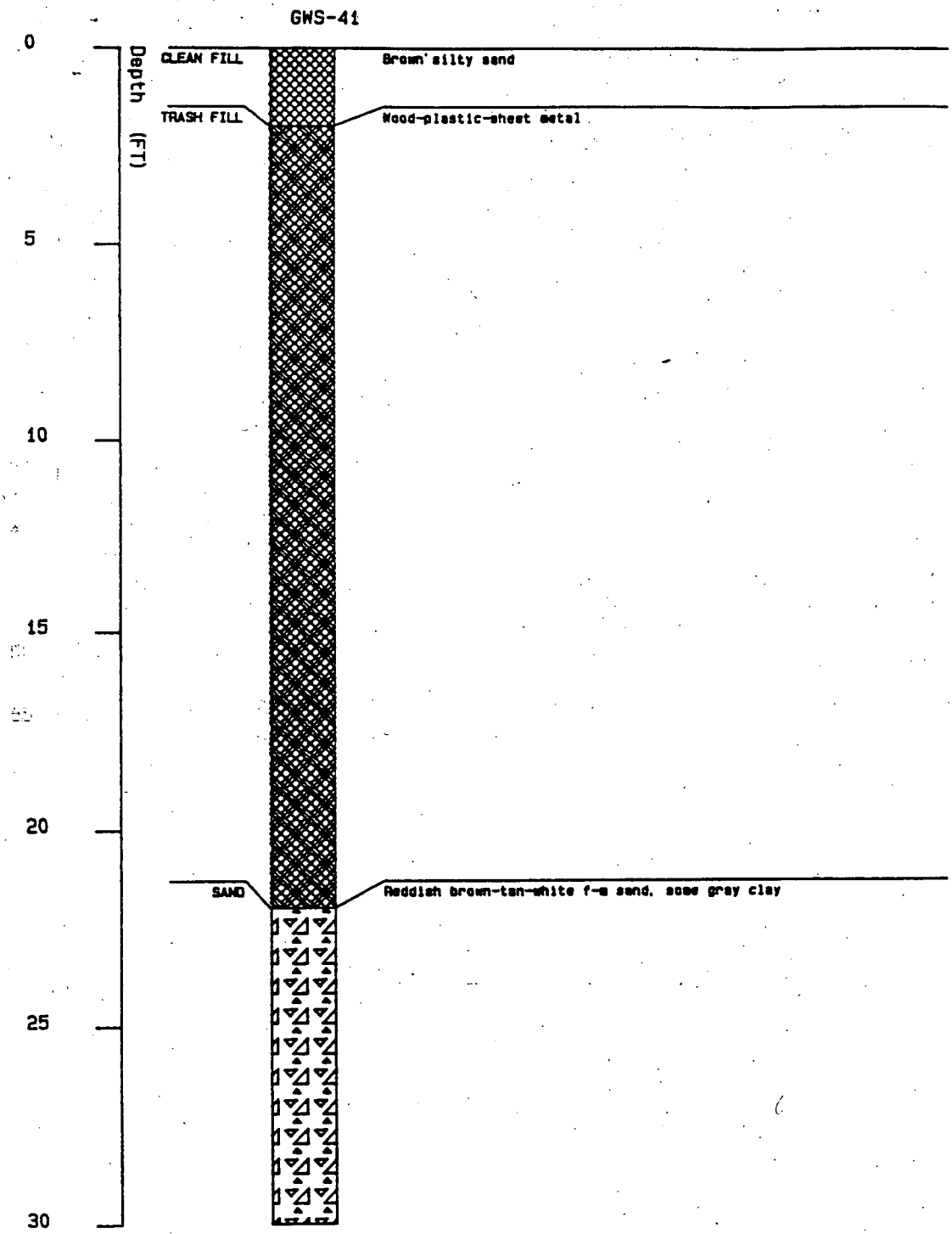
Figure : 31A



MONITORING WELL CONSTRUCTION DETAILS GWS-40	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 31B



LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL SAND

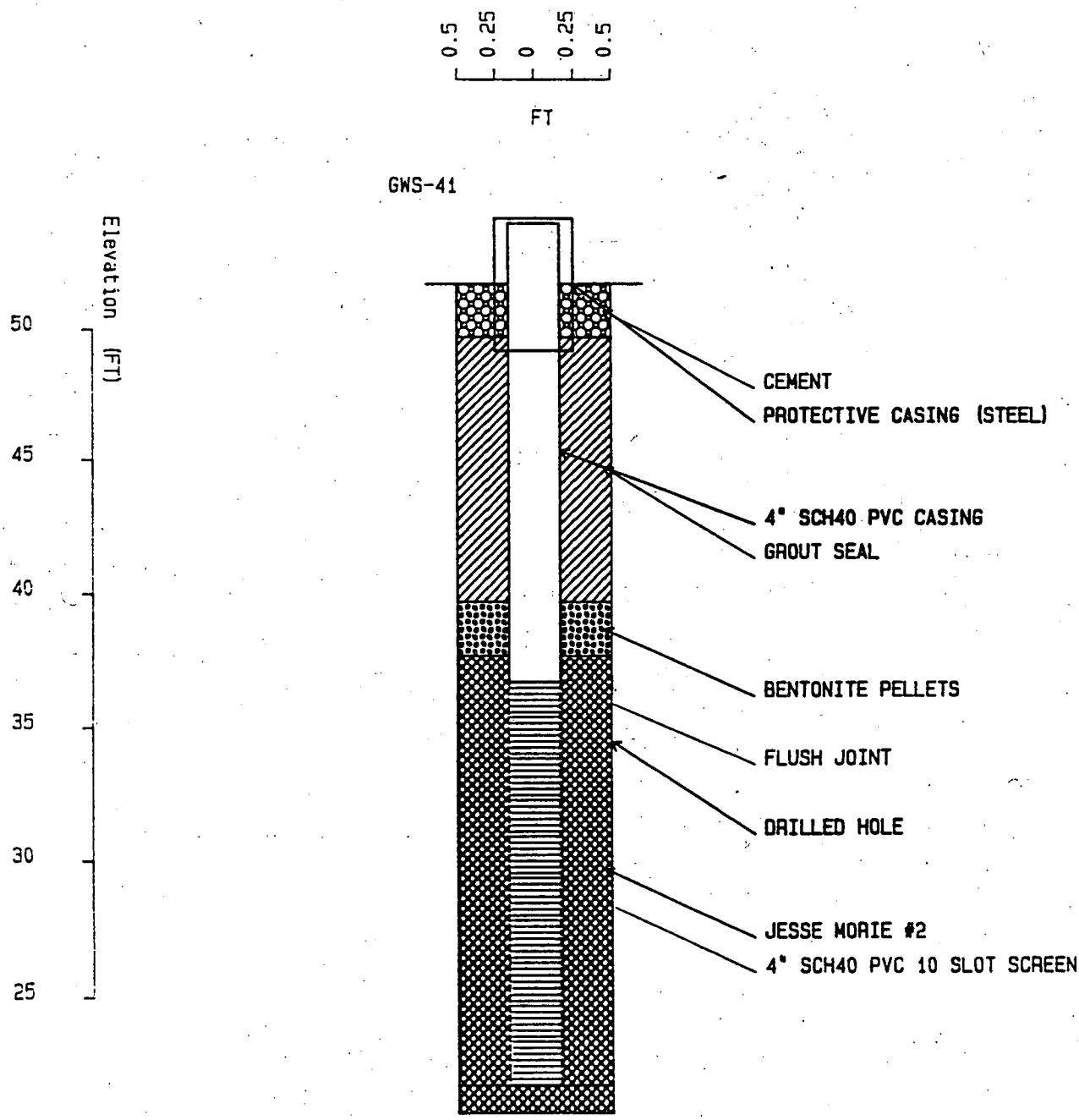
LITHOLOGIC LOG: GWS-41

STATIC WATER MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

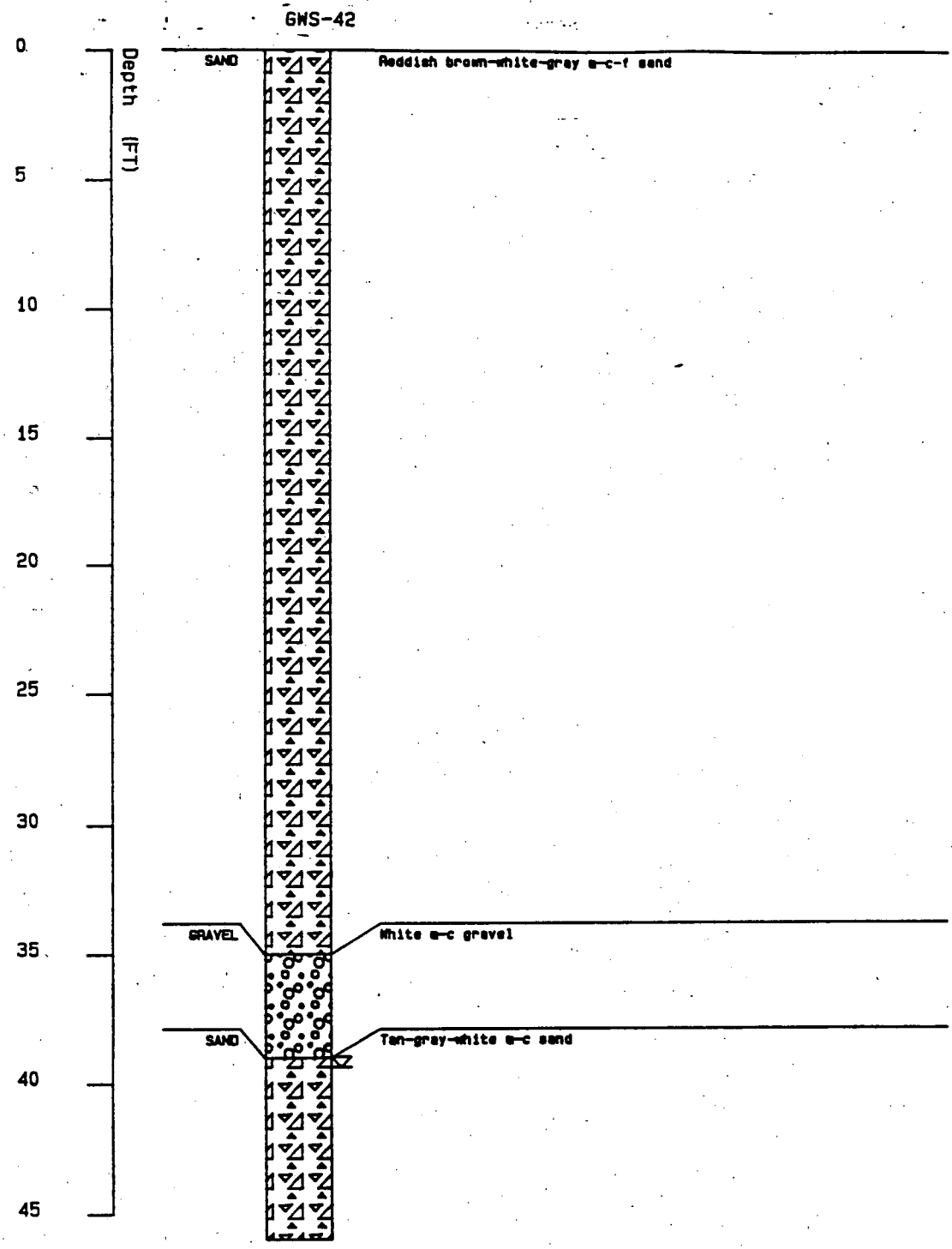
Figure : 32A



MONITORING WELL CONSTRUCTION DETAILS GWS-41	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 32B



LEGEND

Static Water Level

SAND

GRAVEL

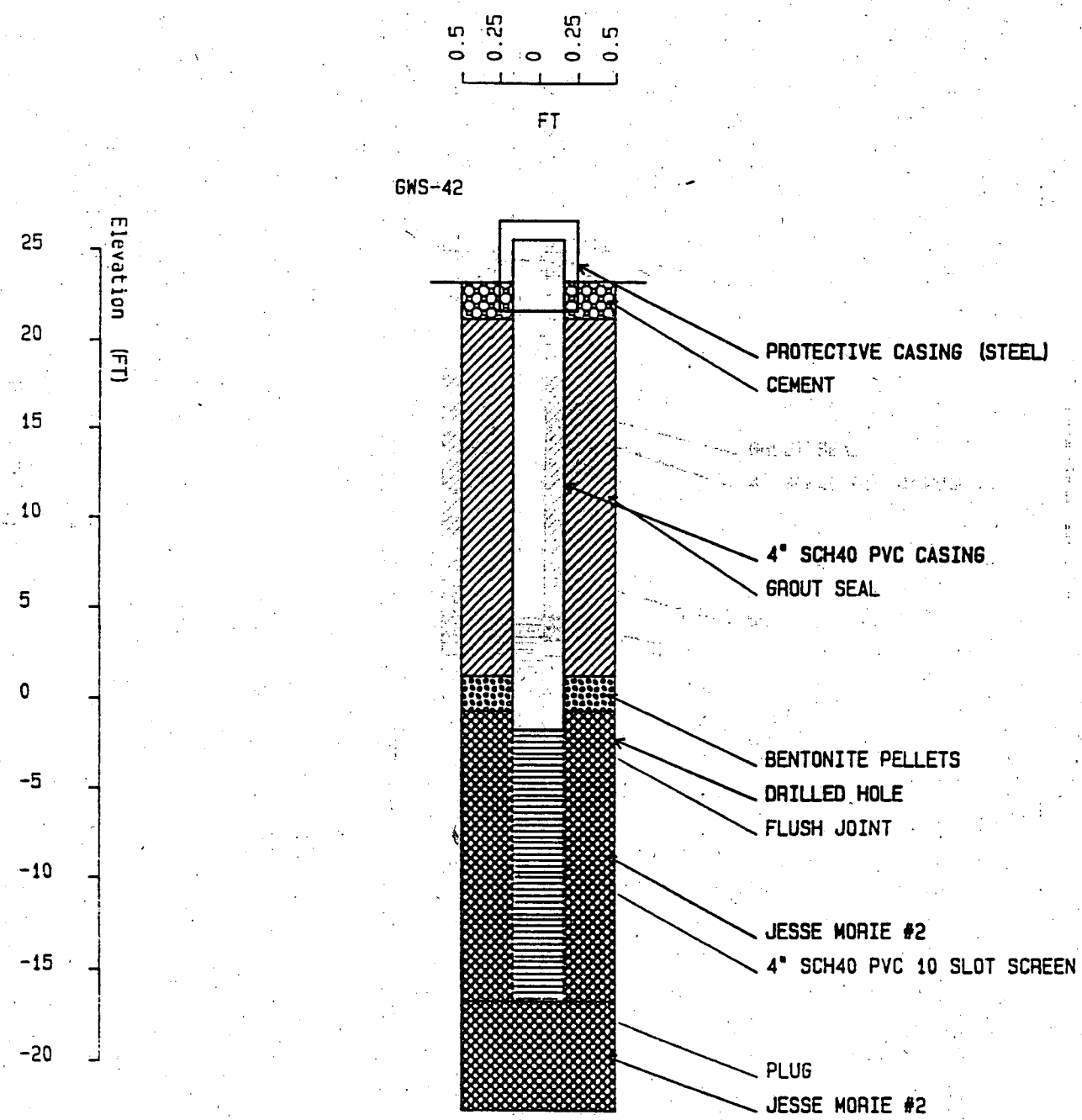
LITHOLOGIC LOG; GWS-42

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

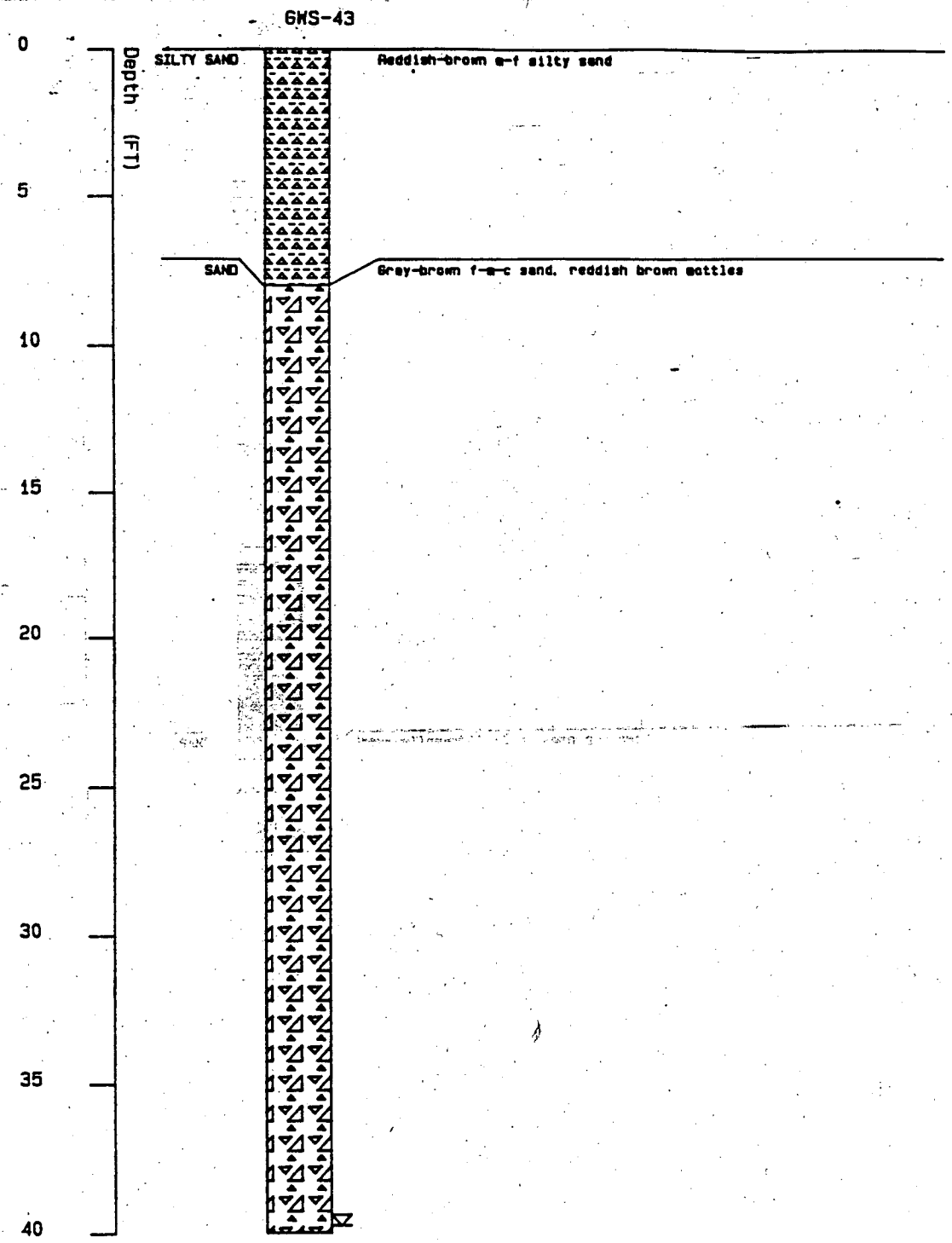
Figure : 33A



MONITORING WELL CONSTRUCTION DETAILS GWS-42	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 33B



LEGEND ▽ Static Water Level

SILTY SAND SAND

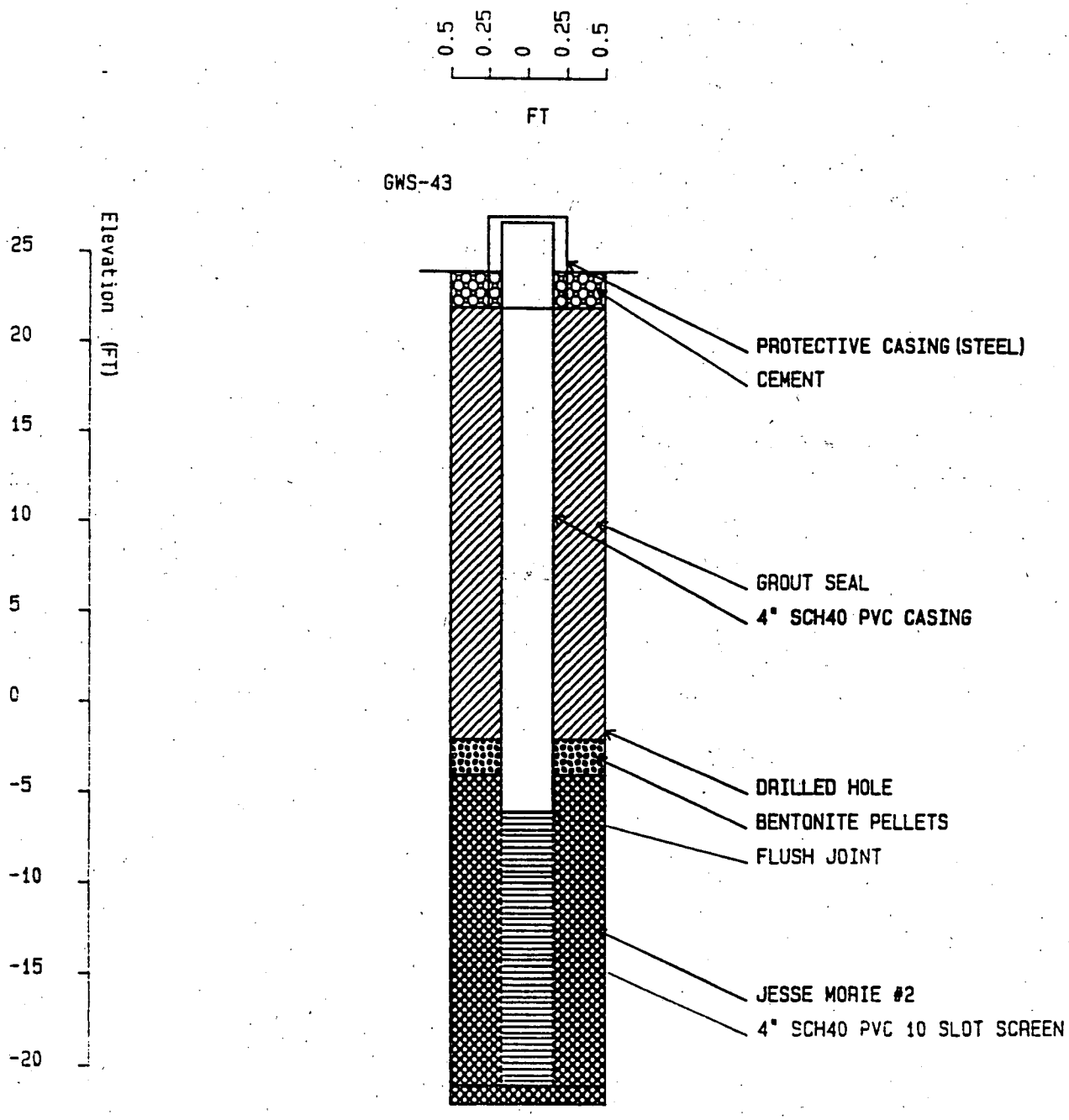
LITHOLOGIC LOG: GMS-43

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

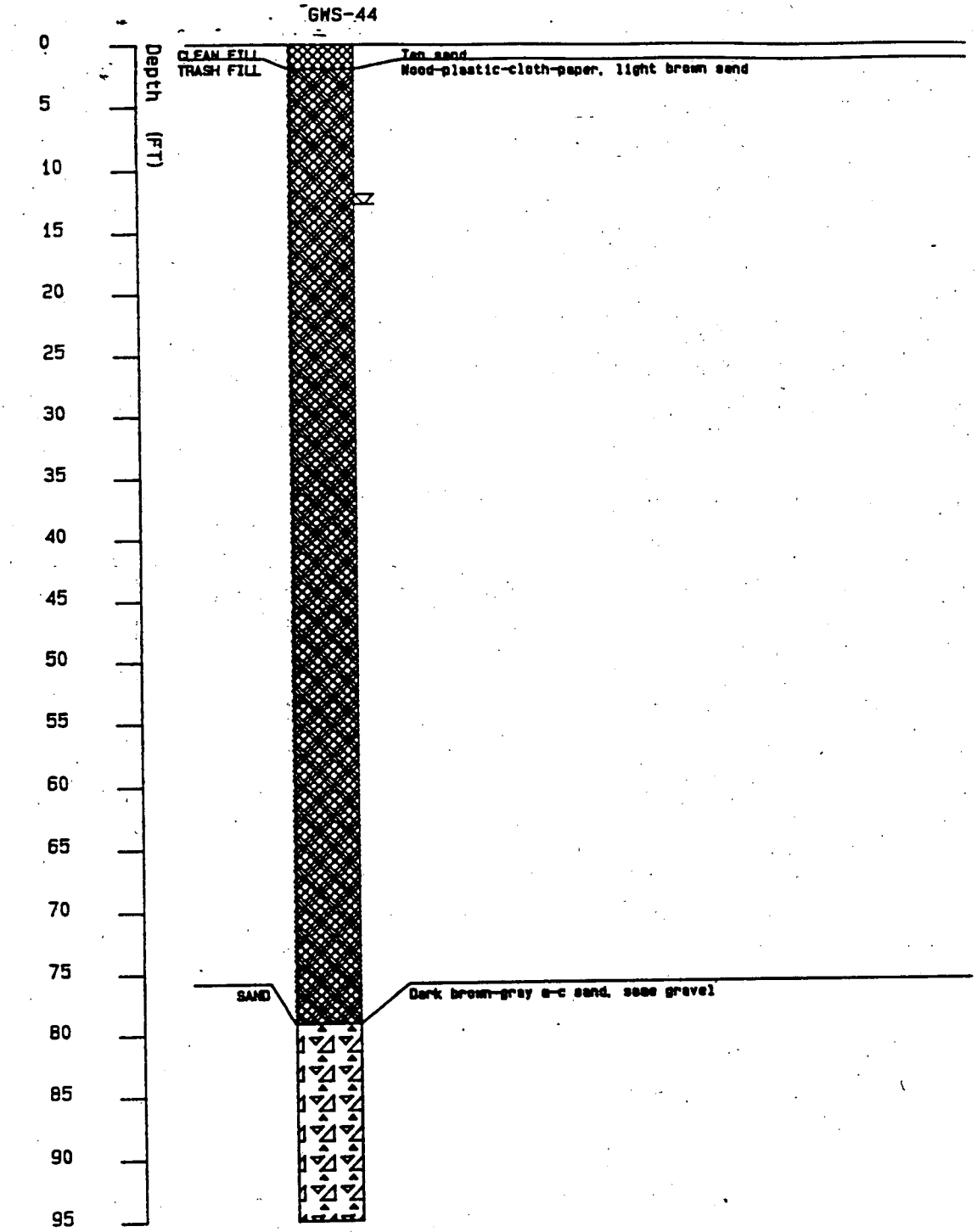
Figure : 34A



MONITORING WELL CONSTRUCTION DETAILS GWS-43	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 34B



LEGEND

Static Water Level

CLEAN FILL

TRASH FILL

SAND

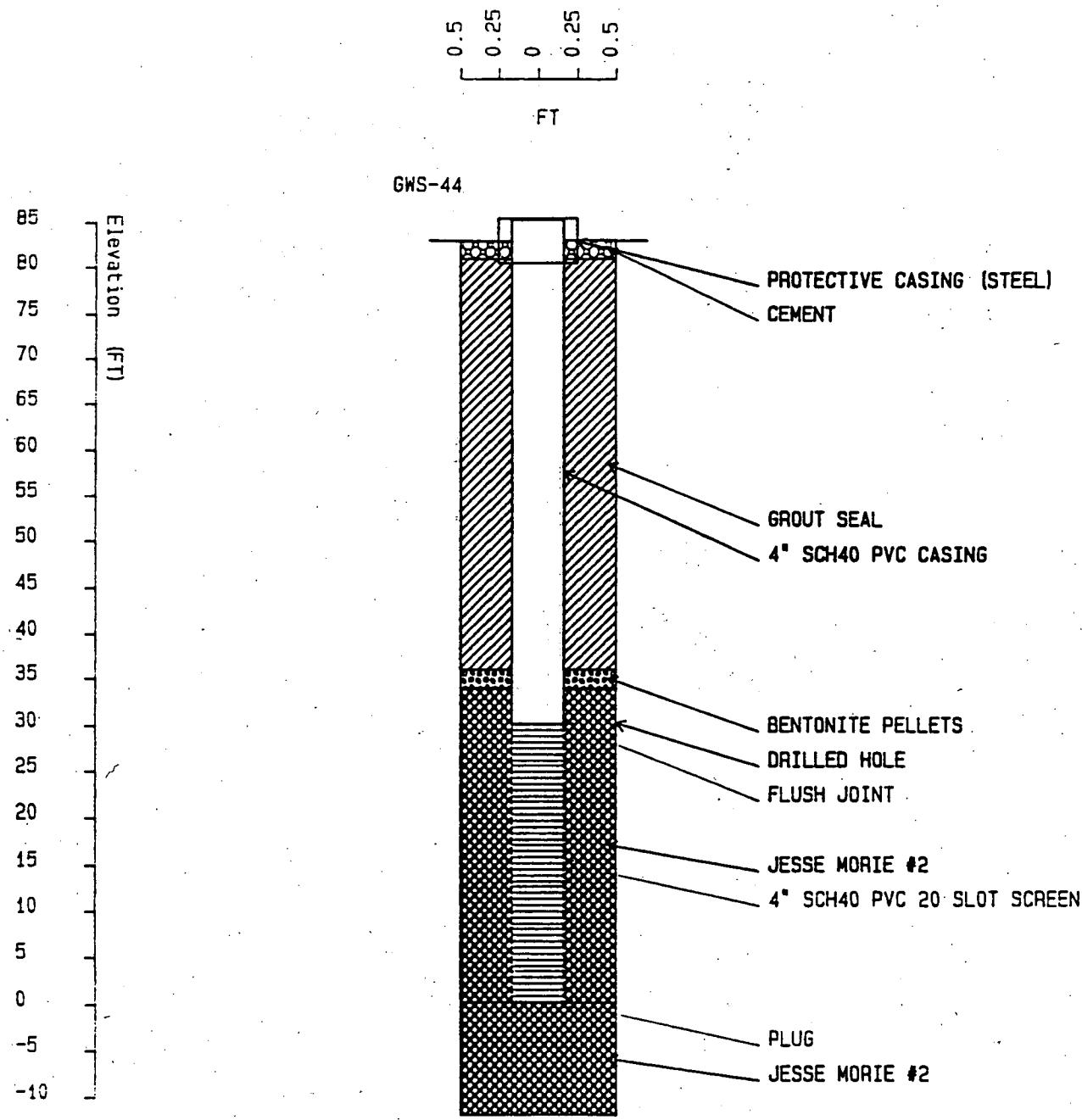
LITHOLOGIC LOG: GWS-44

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

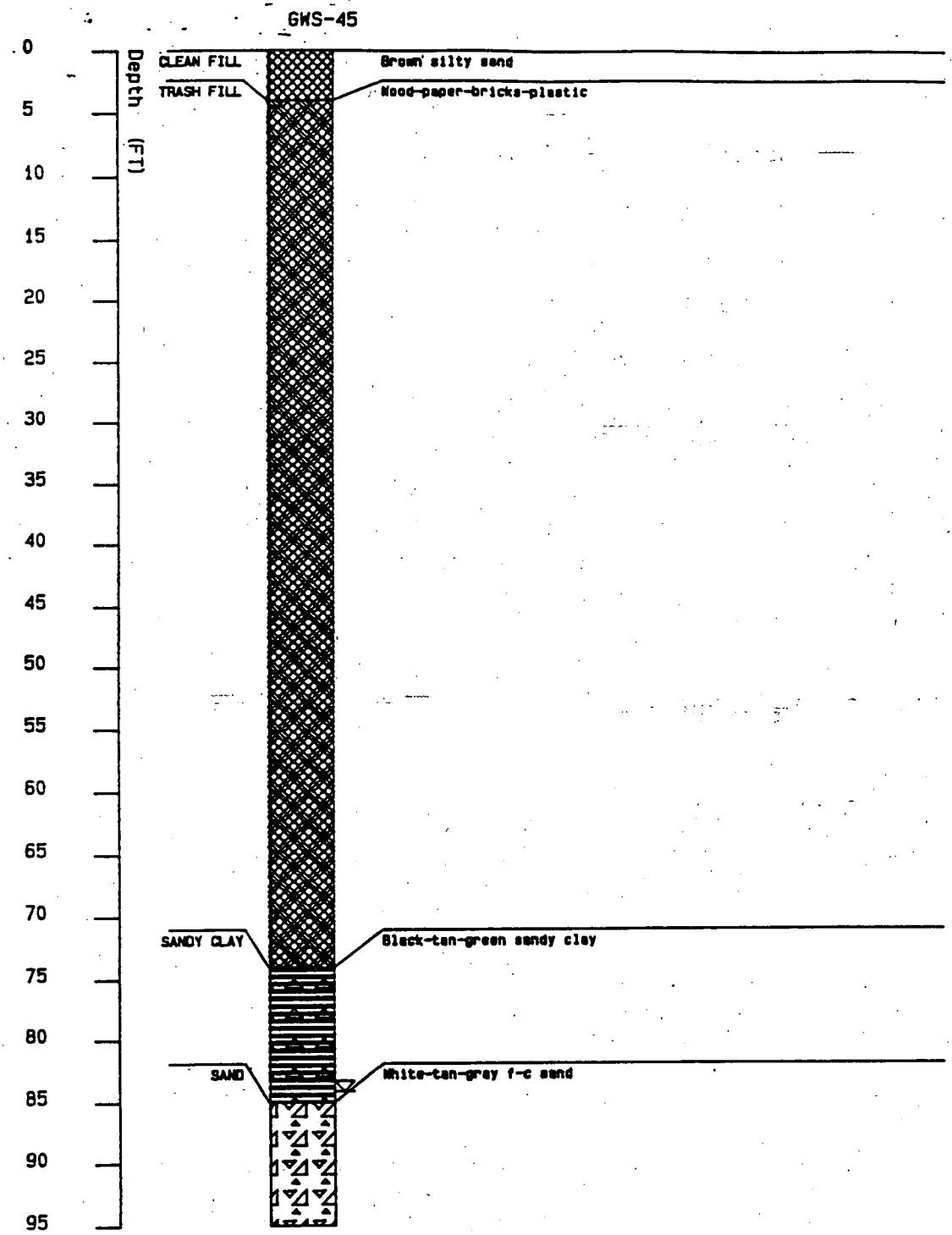
Figure : 35A



MONITORING WELL CONSTRUCTION DETAILS GWS-44	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 358



LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL SANDY CLAY SAND

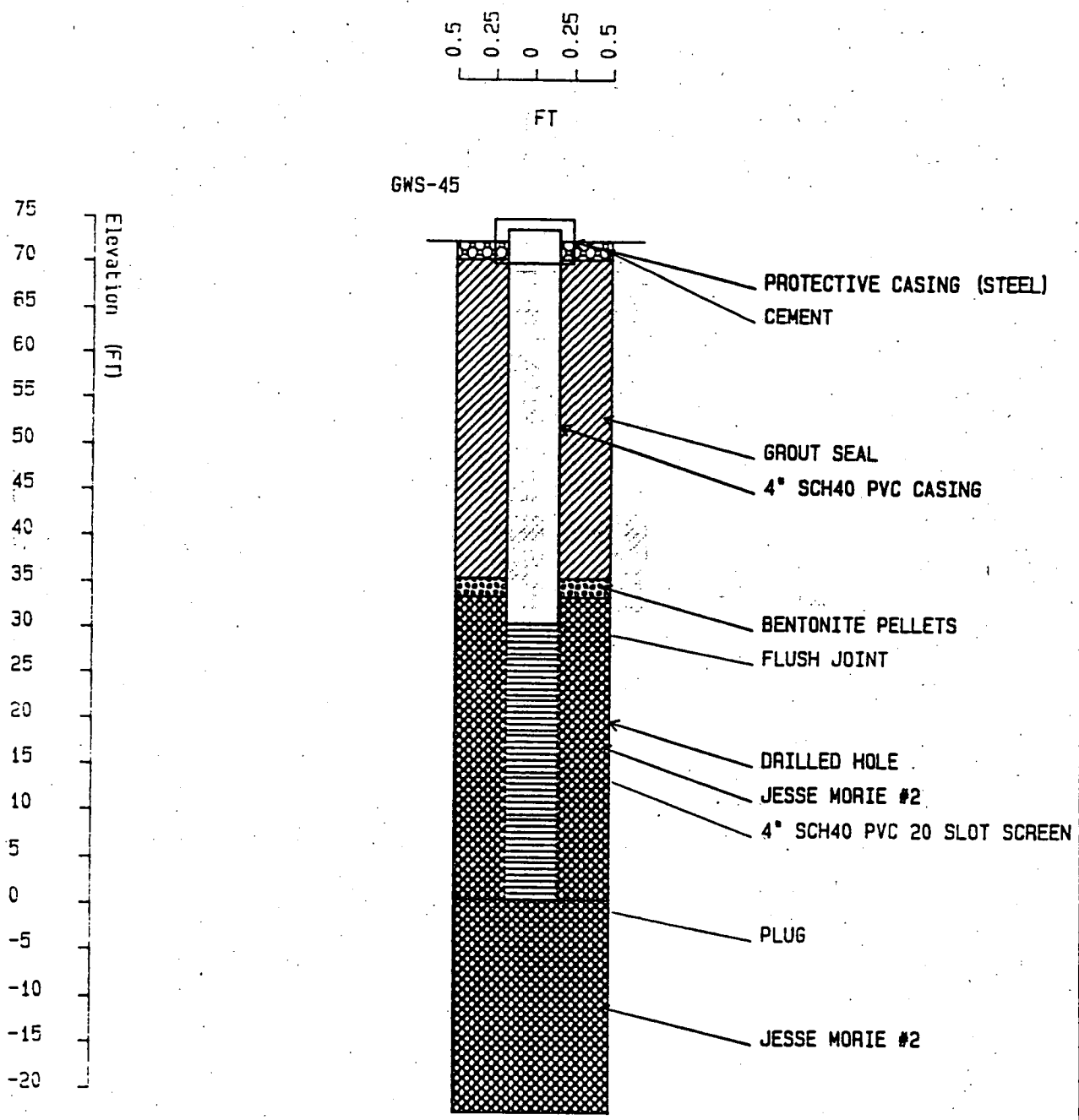
LITHOLOGIC LOG: GWS-45

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

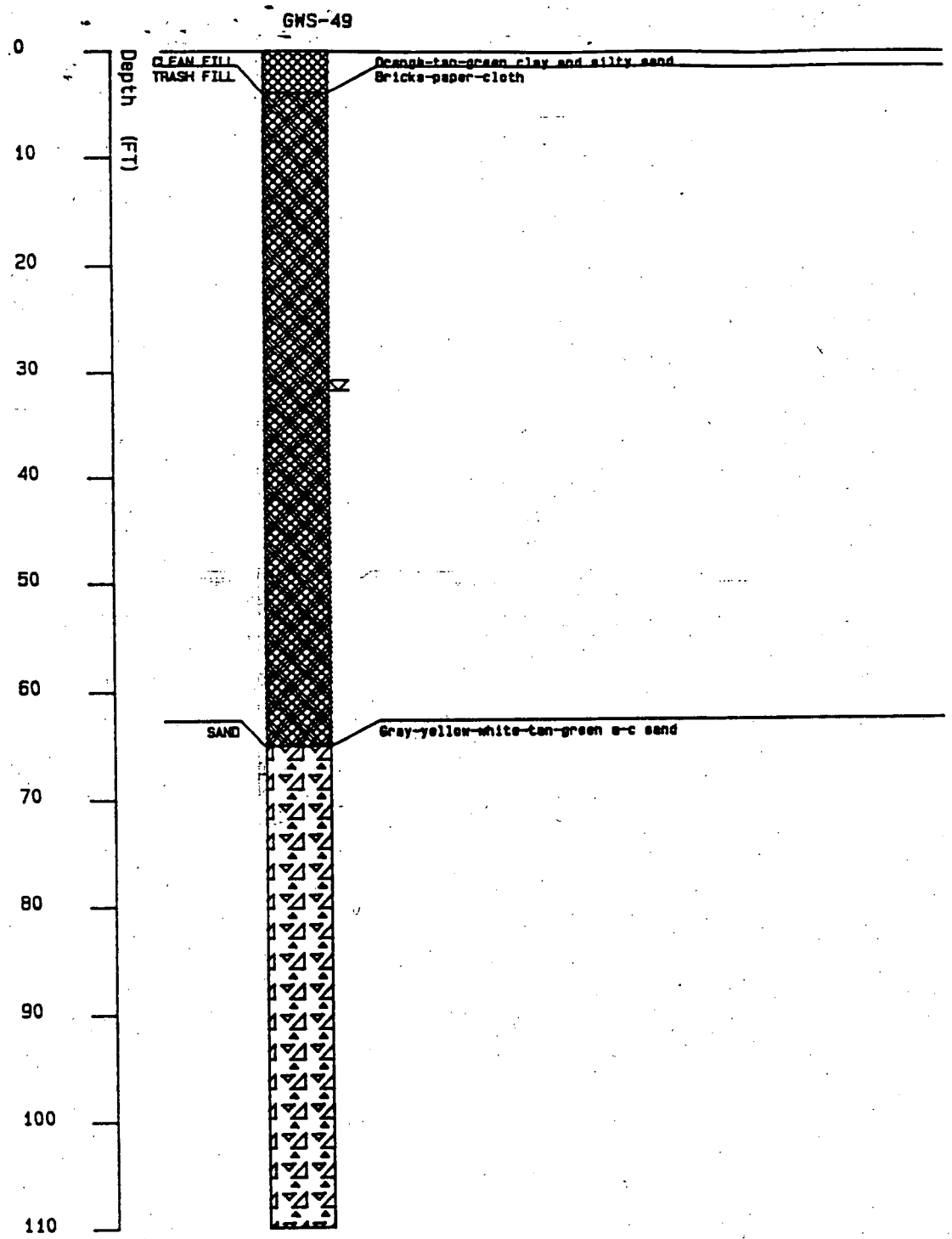
Figure : 36A



MONITORING WELL CONSTRUCTION DETAILS GWS-45	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 36B



LEGEND

Static Water Level

CLEAN FILL

TRASH FILL

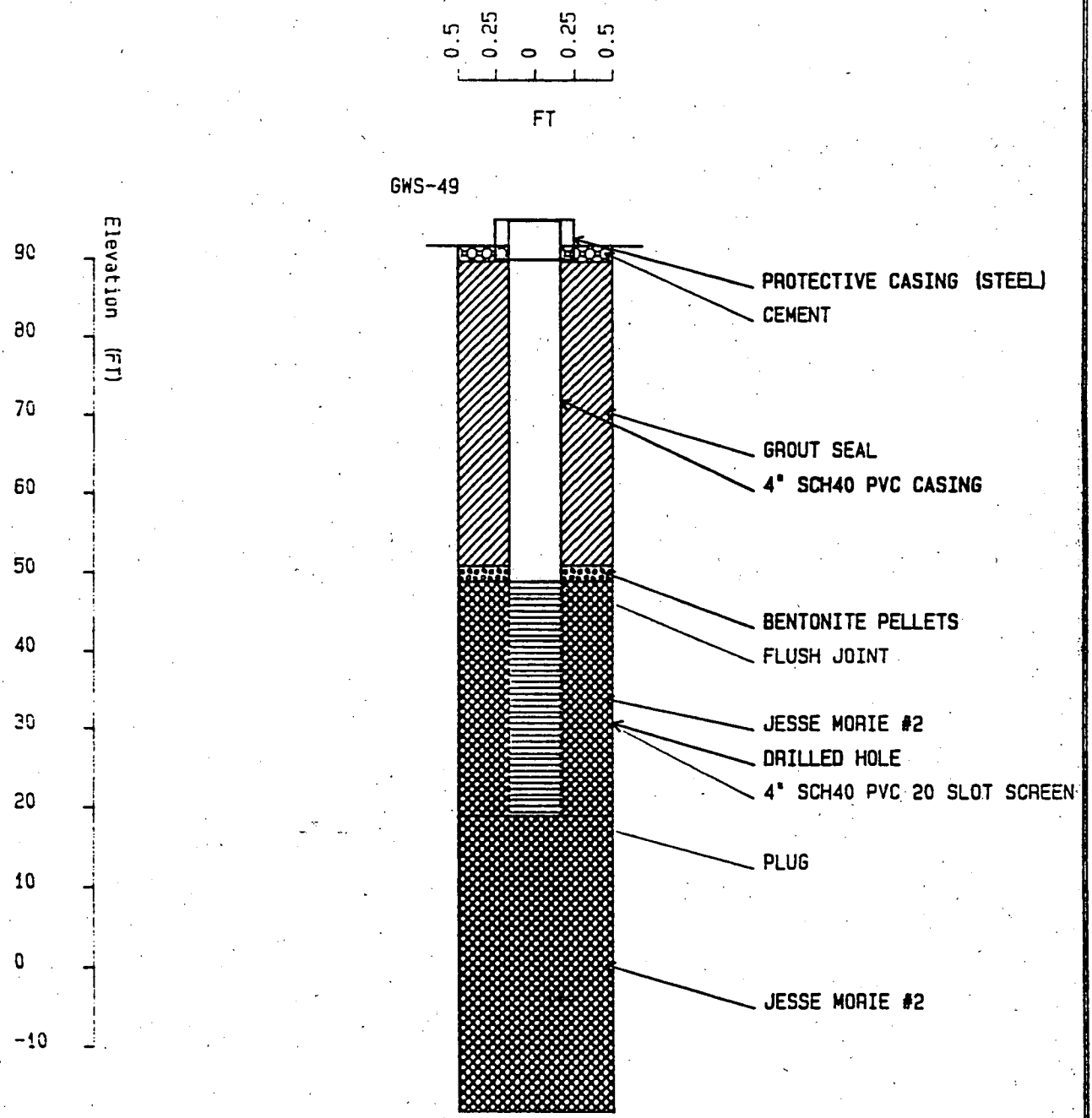
SAND

LITHOLOGIC LOG: GWS-49

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

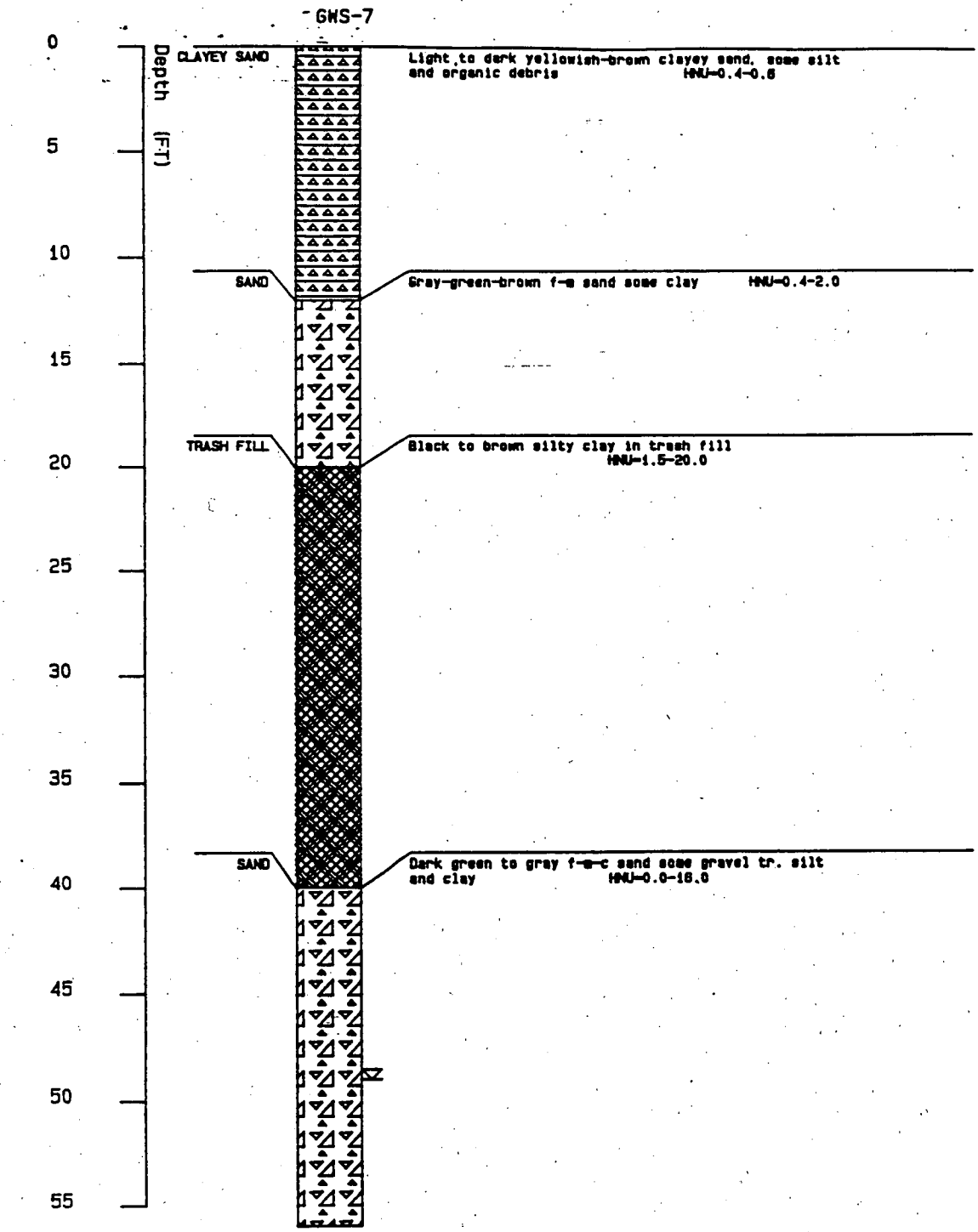
Figure : 37A



MONITORING WELL CONSTRUCTION DETAILS GWS-49	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 37B



LEGEND

Static Water Level

TRASH FILL

CLAYEY SAND

SAND

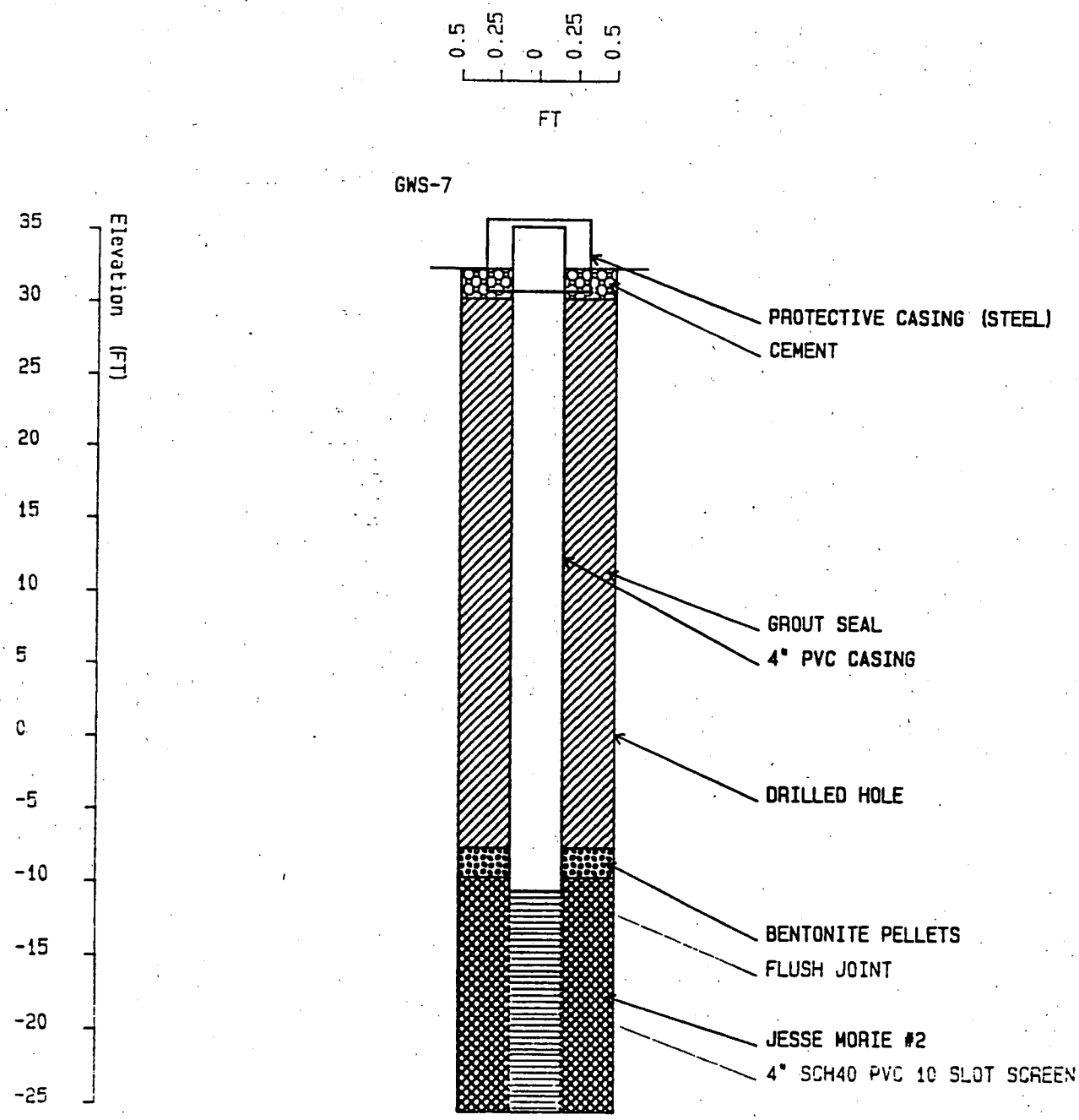
LITHOLOGIC LOG: GWS-7

STATIC WATER LEVEL MEASURED 9/12/88

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

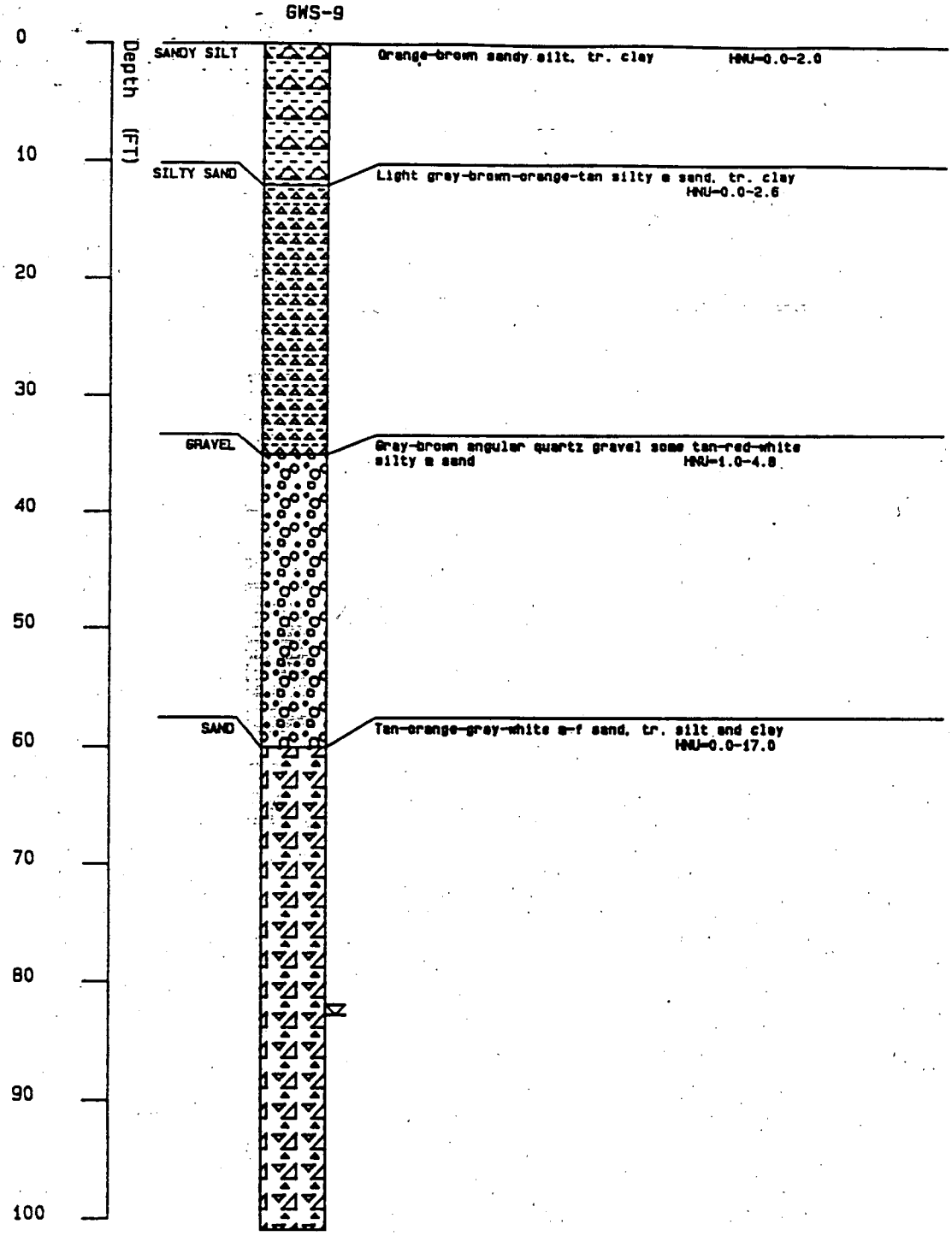
Figure : 38A



MONITORING WELL CONSTRUCTION DETAILS GWS-7	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 3B8



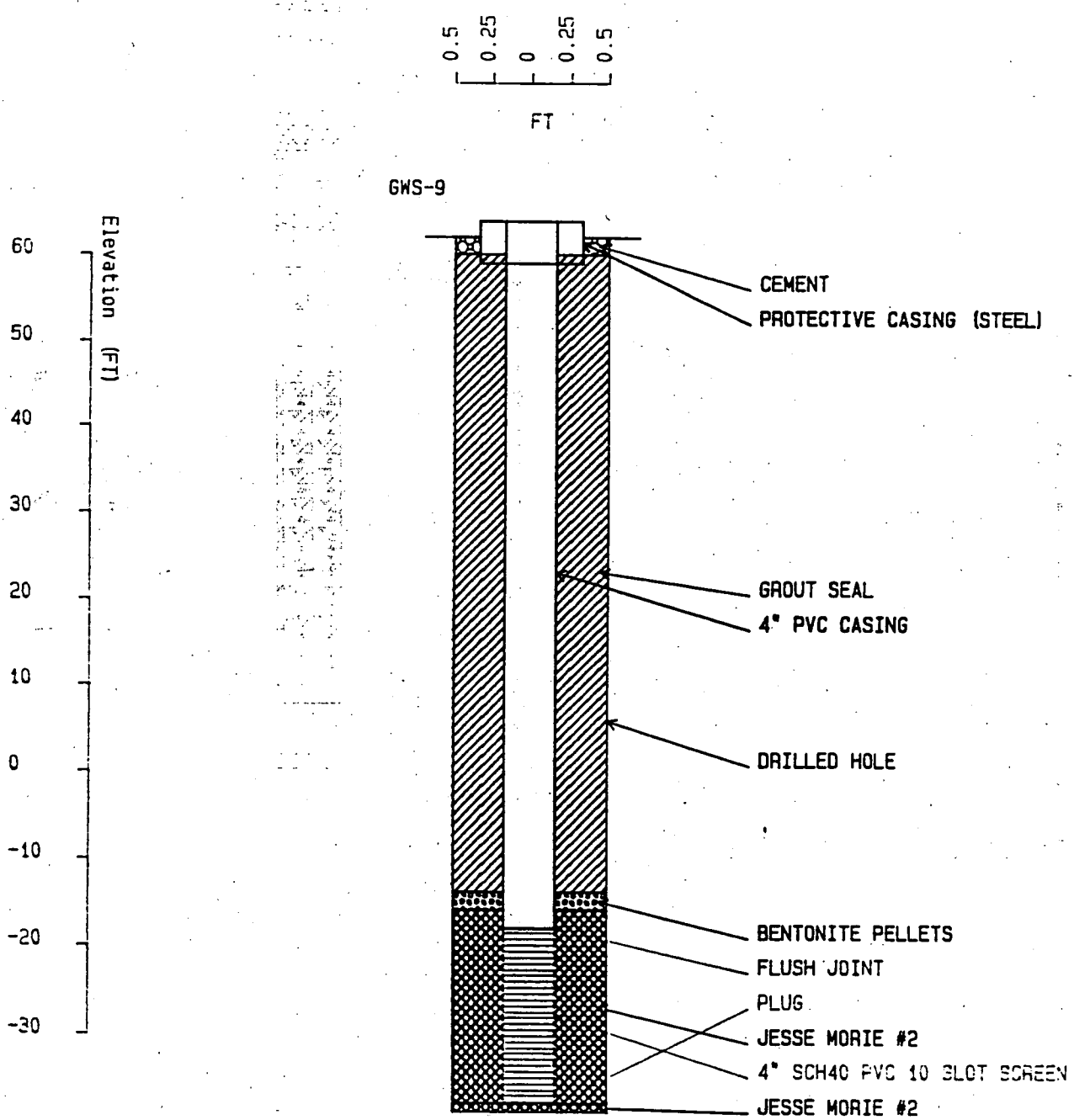
LEGEND ▽ Static Water Level

SANDY SILT SILTY SAND SAND GRAVEL

LITHOLOGIC LOG: GWS-9	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

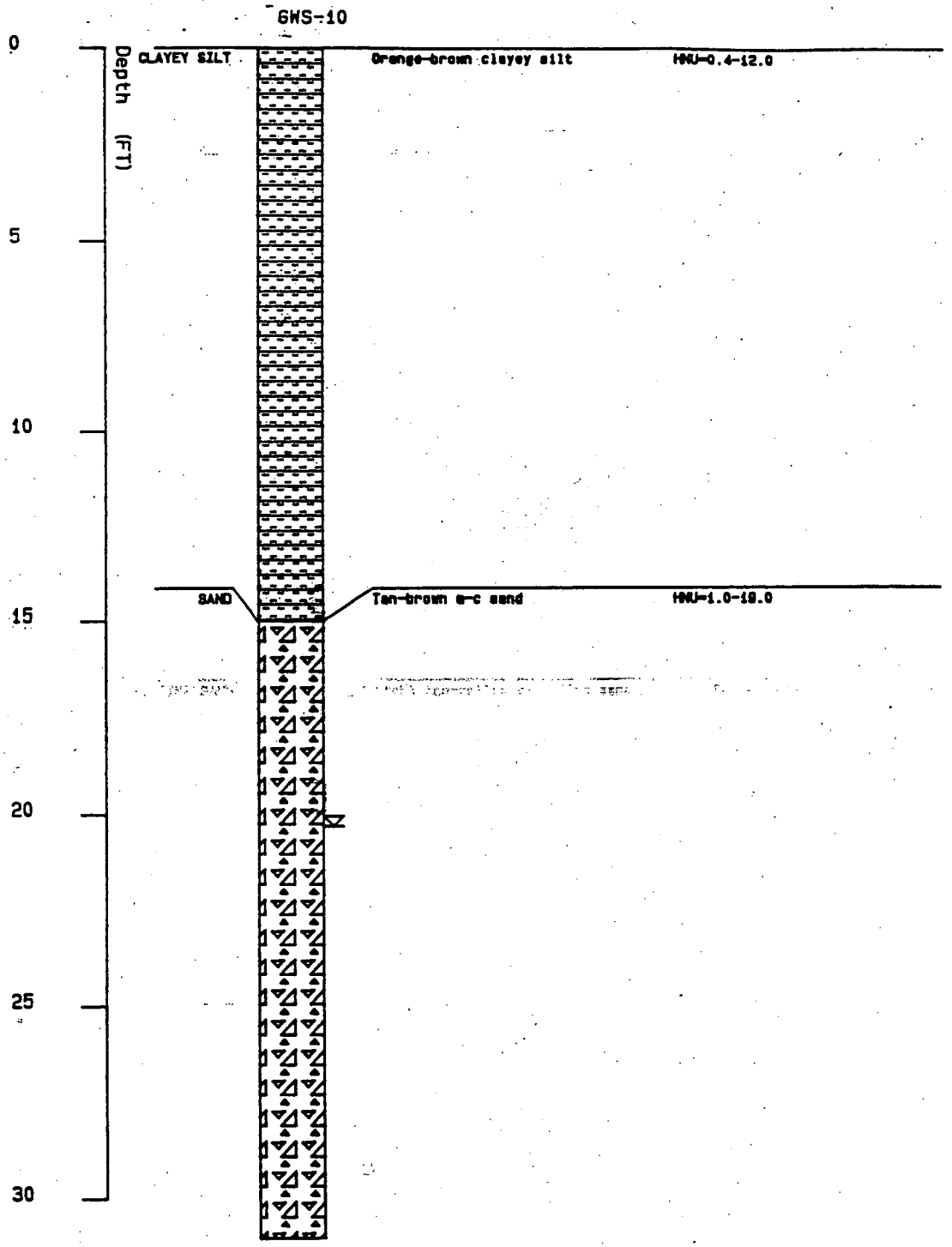
Figure : 39A



MONITORING WELL CONSTRUCTION DETAILS GWS-9	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 39B



LEGEND

Static Water Level

CLAYEY SILT

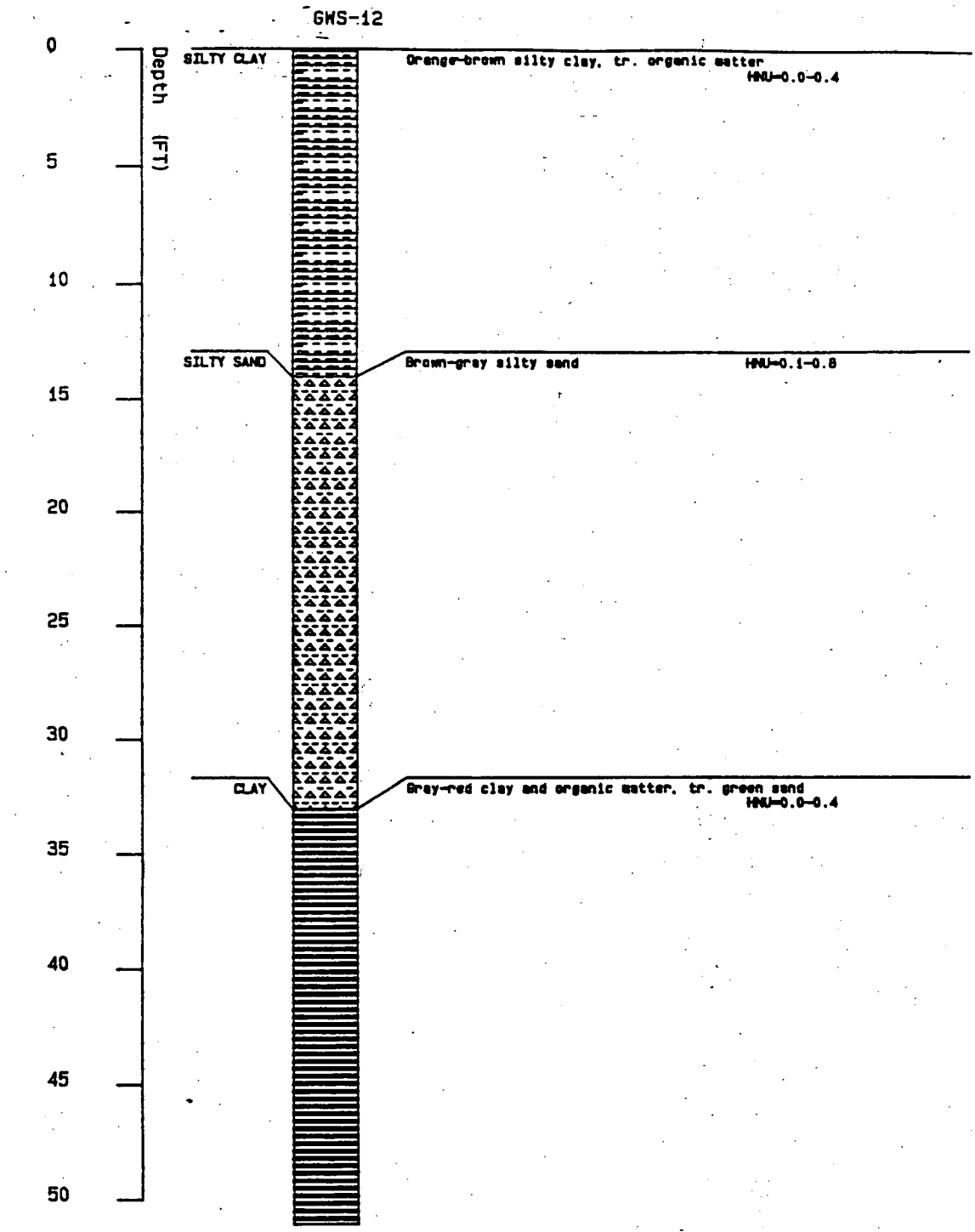
SAND

LITHOLOGIC LOG: GWS-10

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 40



LEGEND ▽ Static Water Level

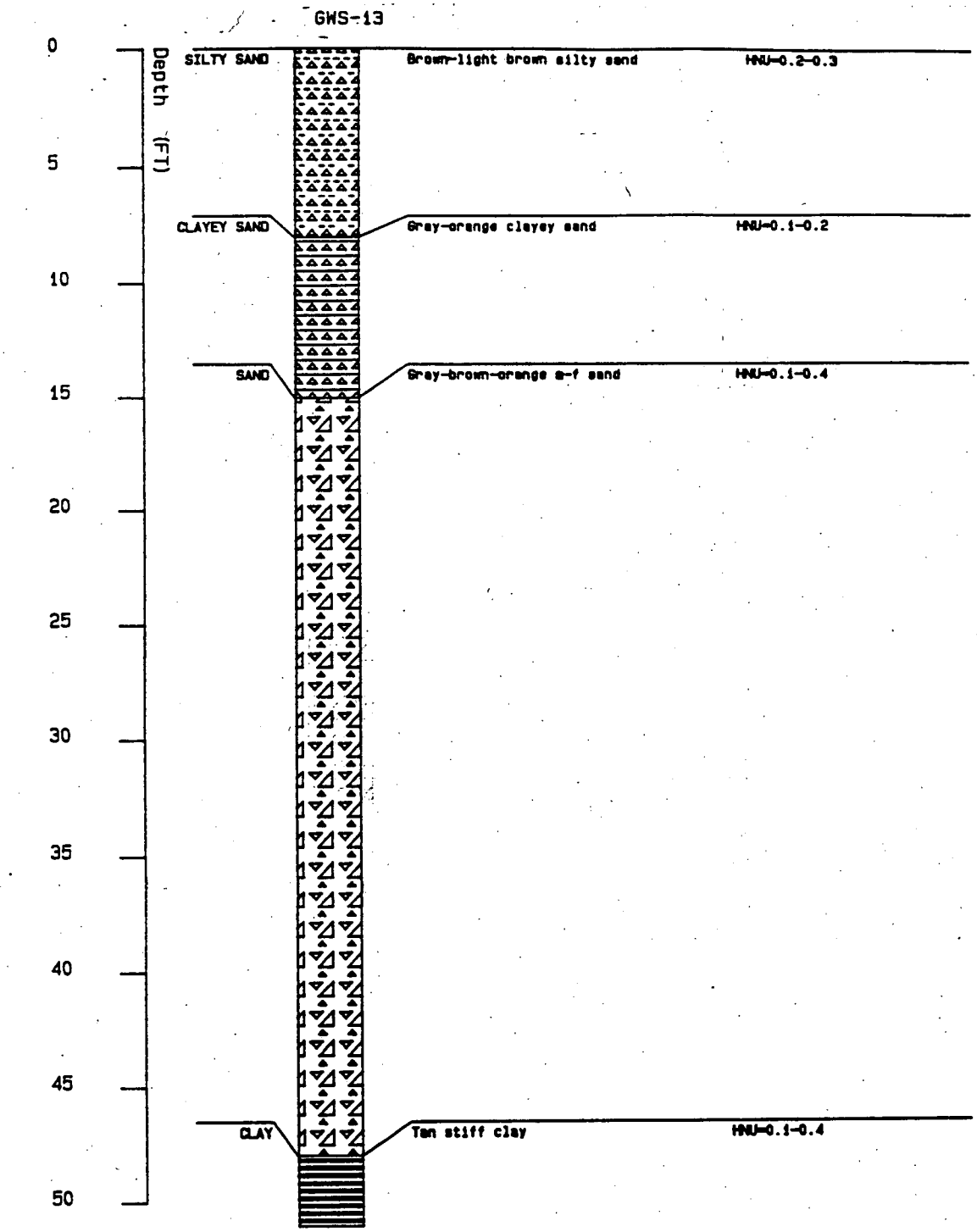
CLAY SILTY CLAY SILTY SAND

LITHOLOGIC LOG; GWS-12

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 41



LEGEND

Static Water Level

CLAY

CLAYEY SAND

SILTY SAND

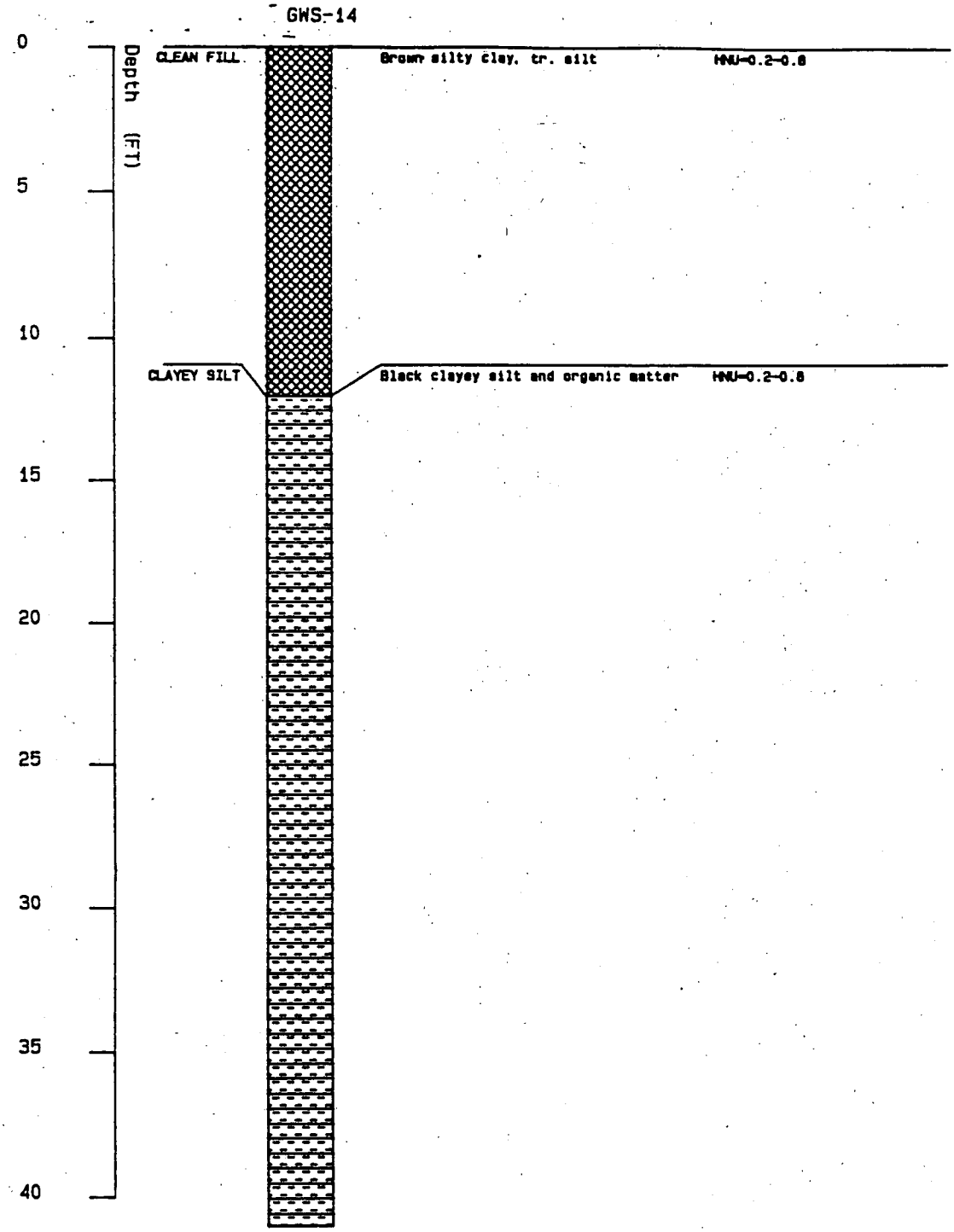
SAND

LITHOLOGIC LOG; GWS-13

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 42



LEGEND ▽ Static Water Level

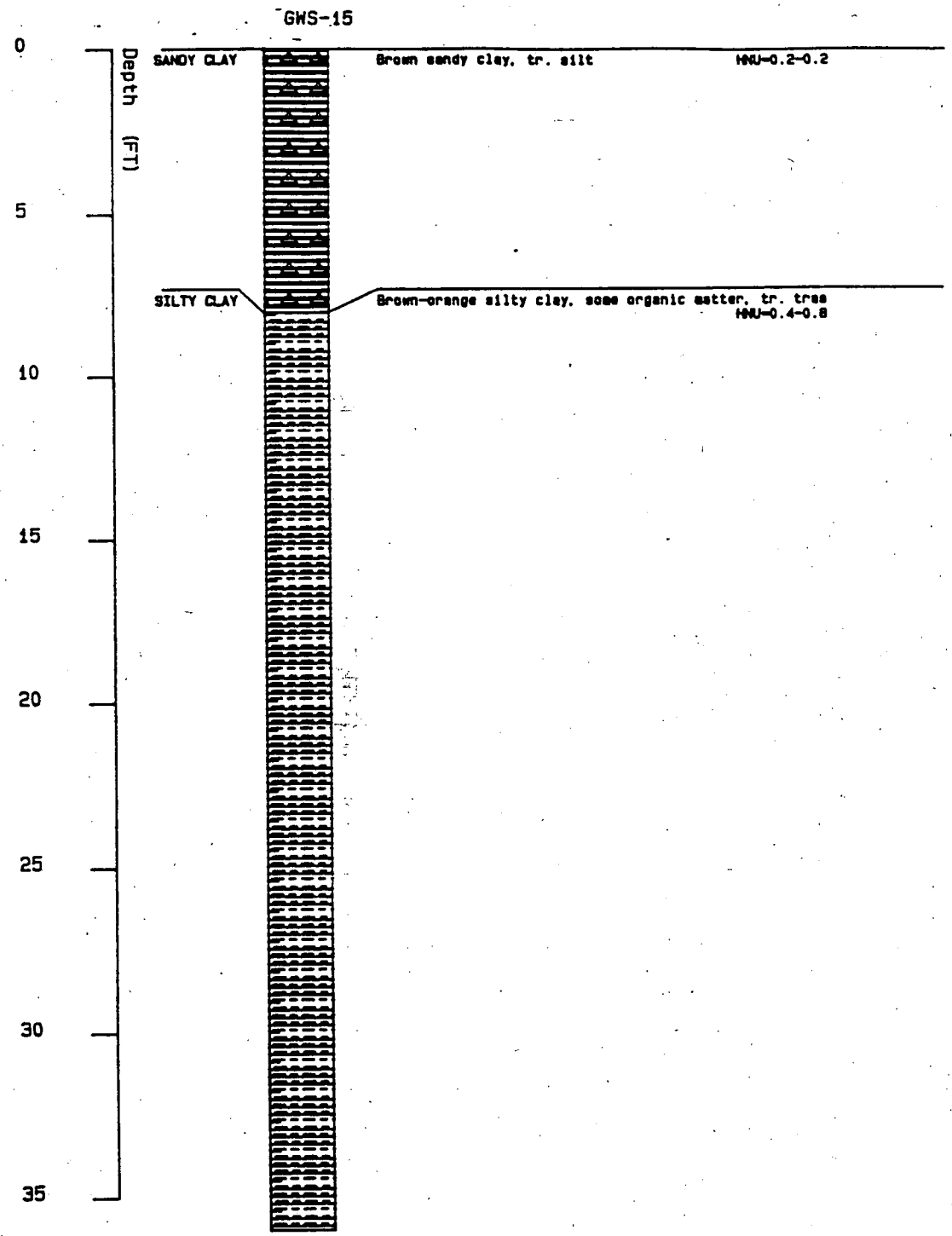
CLEAN FILL CLAYEY SILT

LITHOLOGIC LOG: GWS-14

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 43



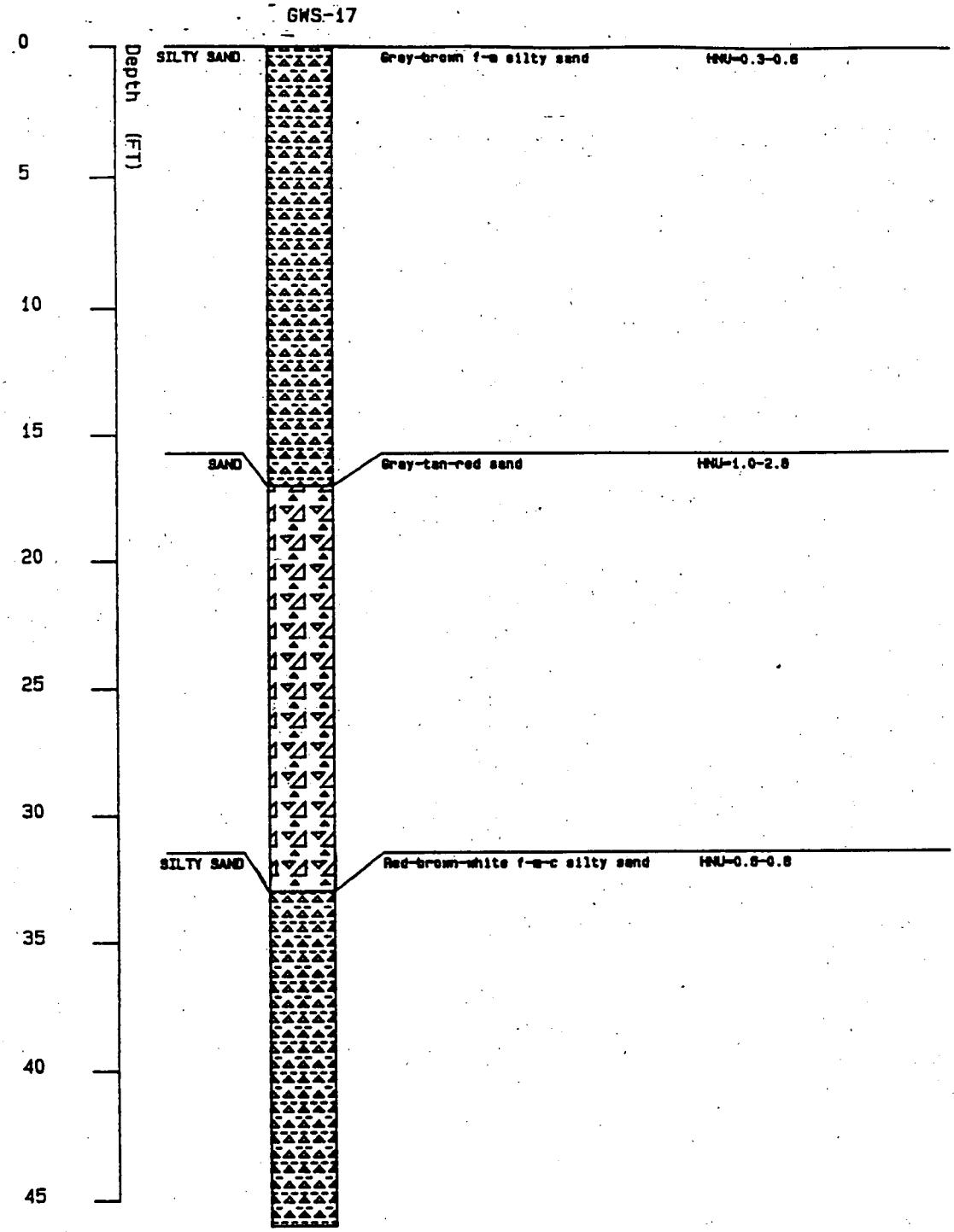
LEGEND ⊠ Static Water Level

SILTY CLAY SANDY CLAY

LITHOLOGIC LOG: GWS-15	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 44



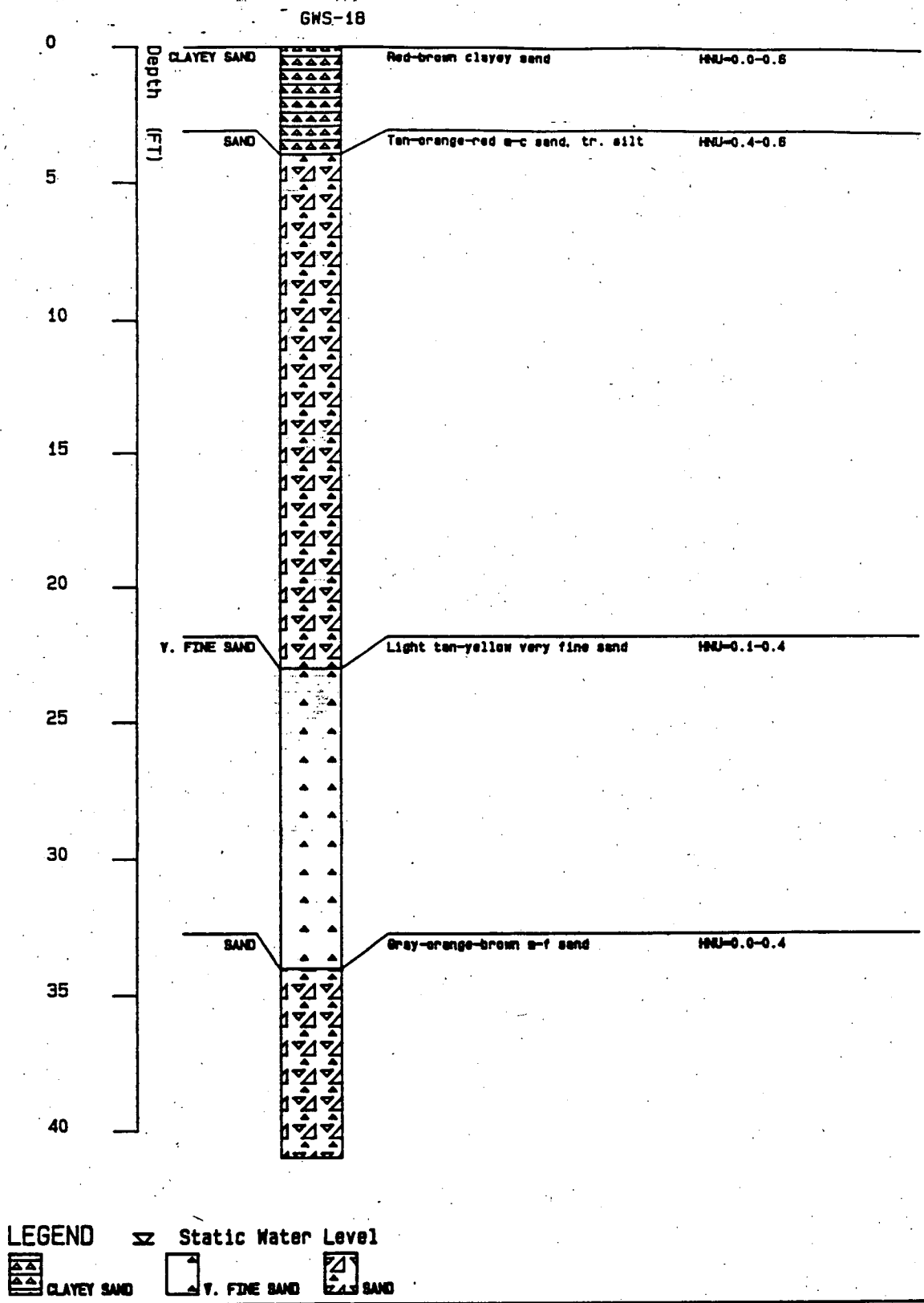
LEGEND ▽ Static Water Level

SILTY SAND SAND

LITHOLOGIC LOG: GWS-17	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 45

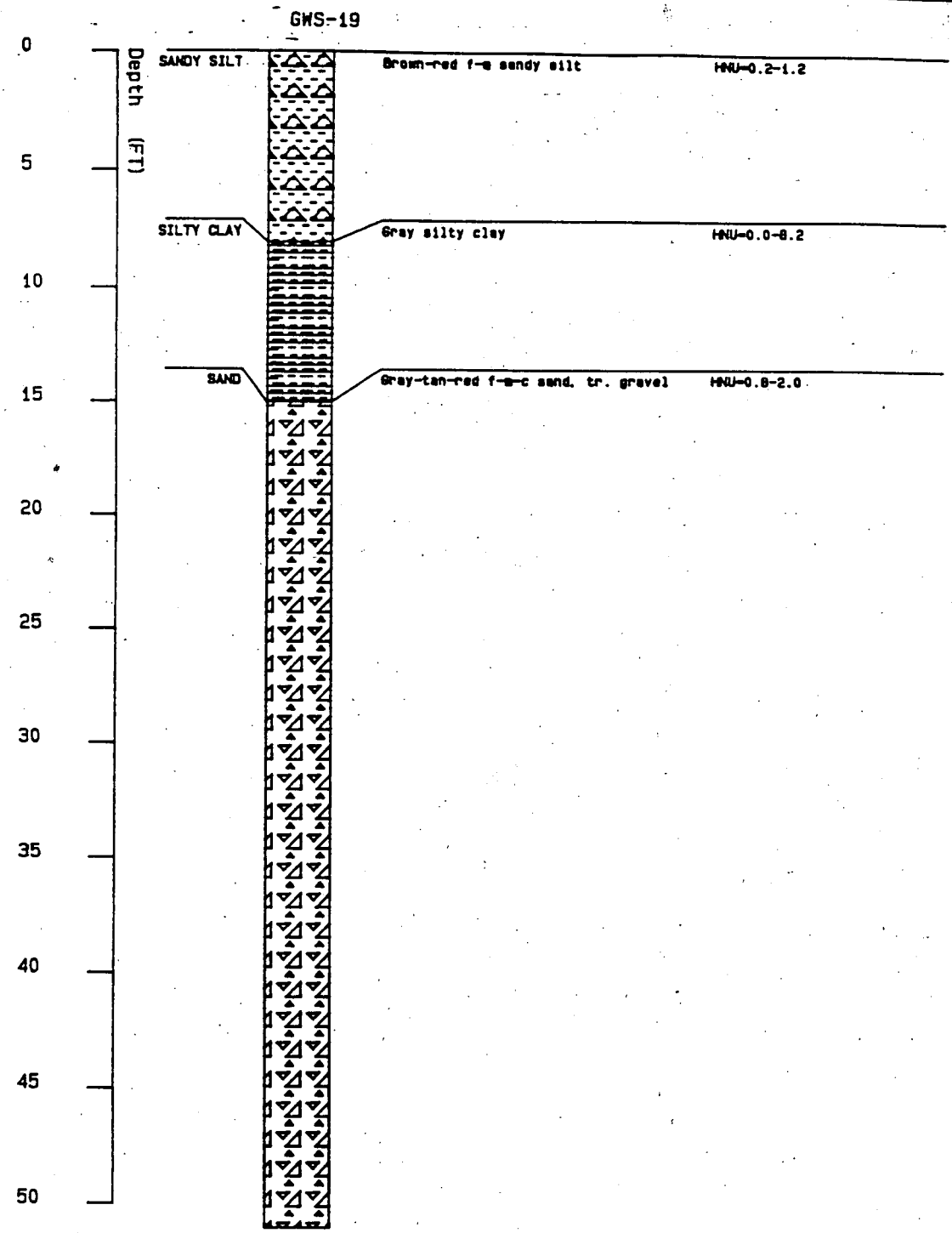


LITHOLOGIC LOG; GWS-18

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 46



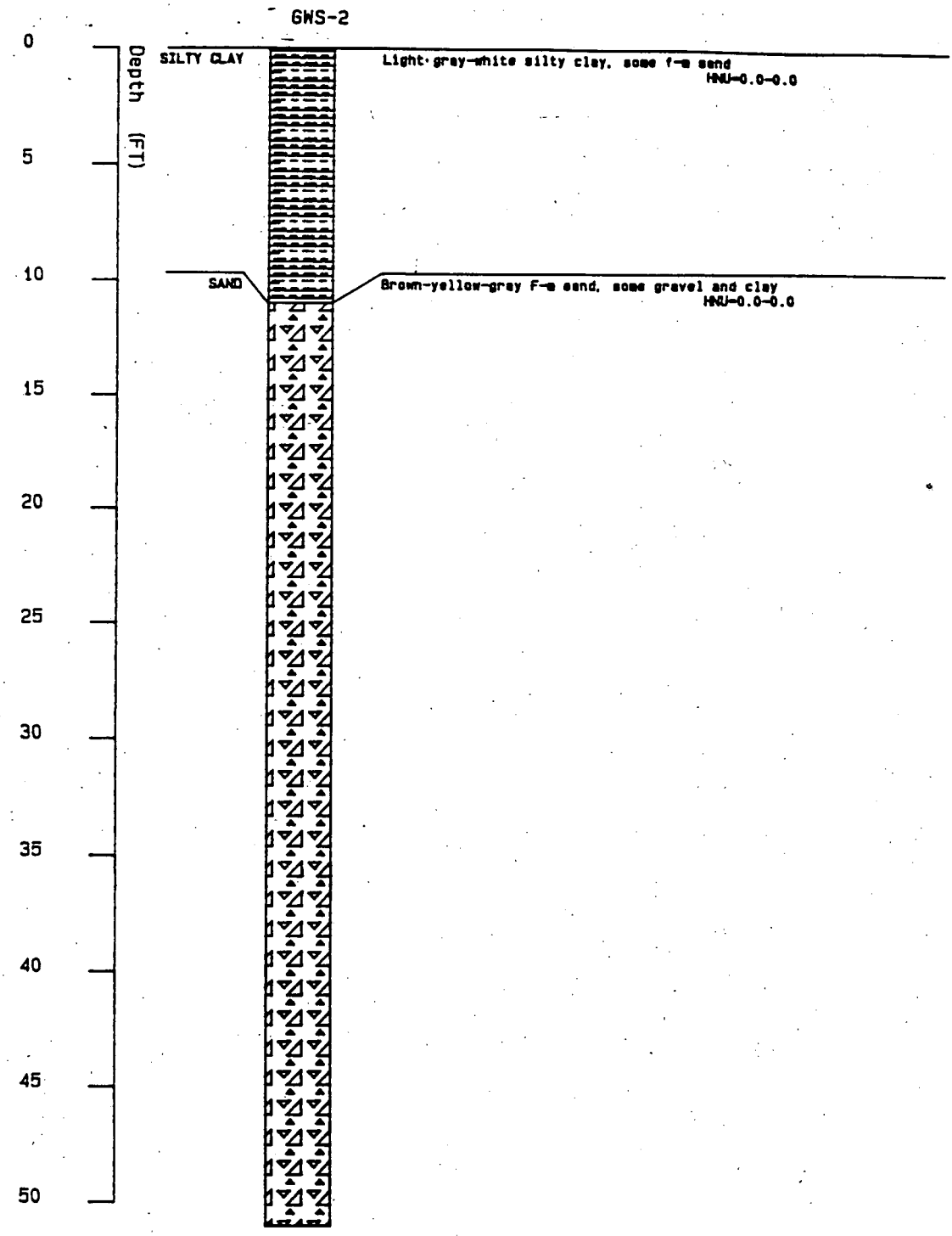
LEGEND ▽ Static Water Level

SILTY CLAY SANDY SILT SAND

LITHOLOGIC LOG: GWS-19	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 47



LEGEND ▽ Static Water Level

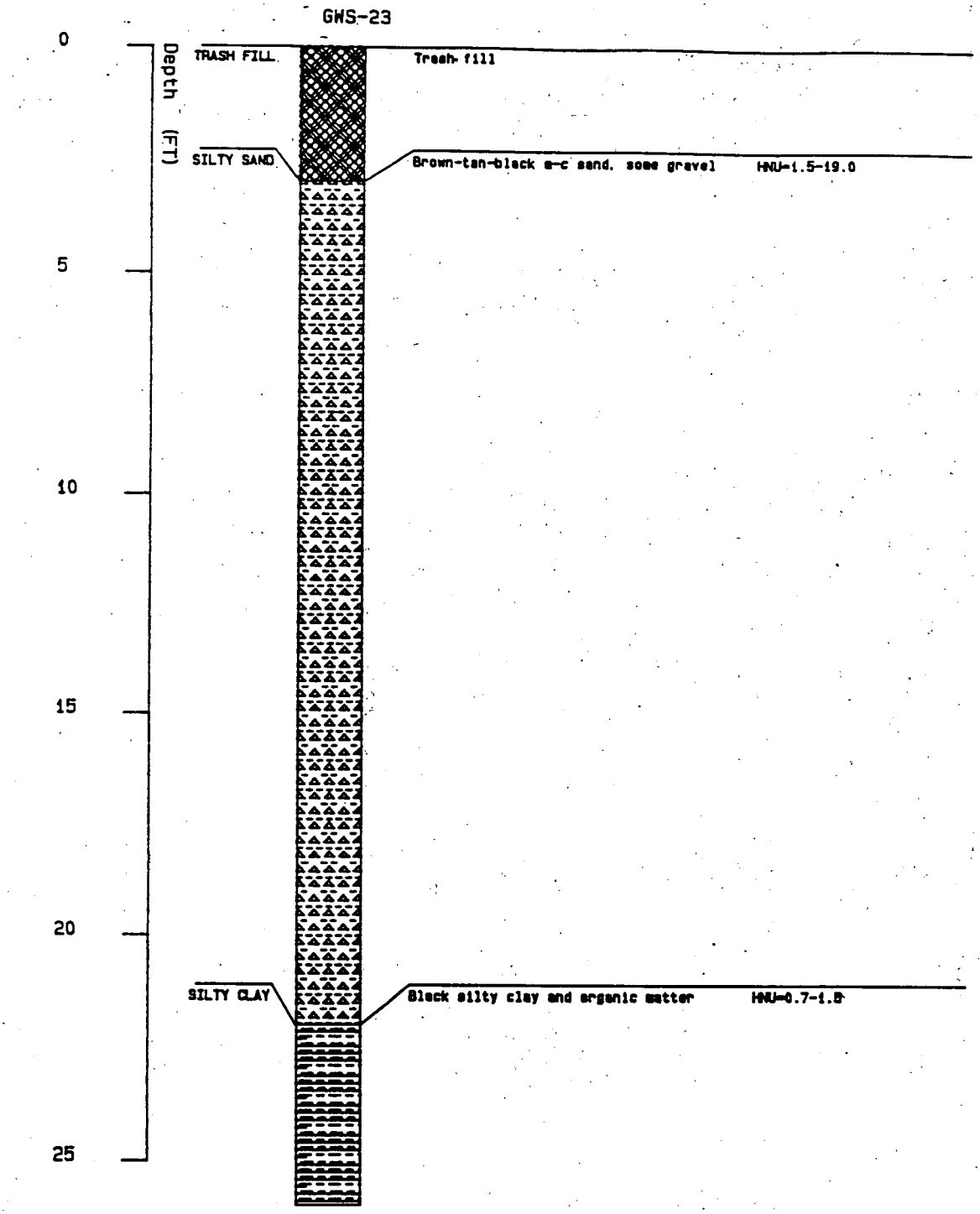
SILTY CLAY SAND

LITHOLOGIC LOG; GWS-2

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 4B



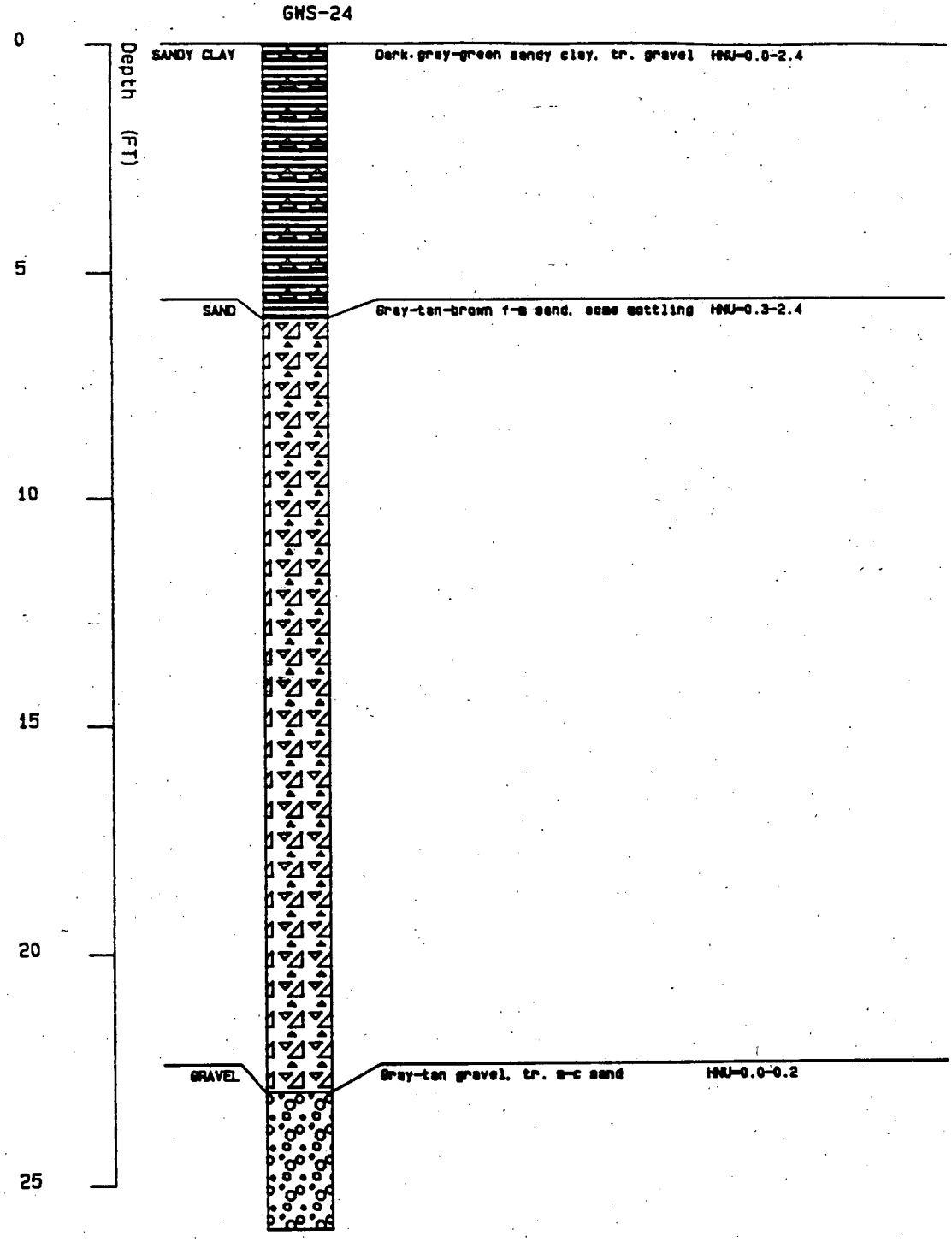
LEGEND ▽ Static Water Level

TRASH FILL SILTY CLAY SILTY SAND

LITHOLOGIC LOG: GWS-23	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 49



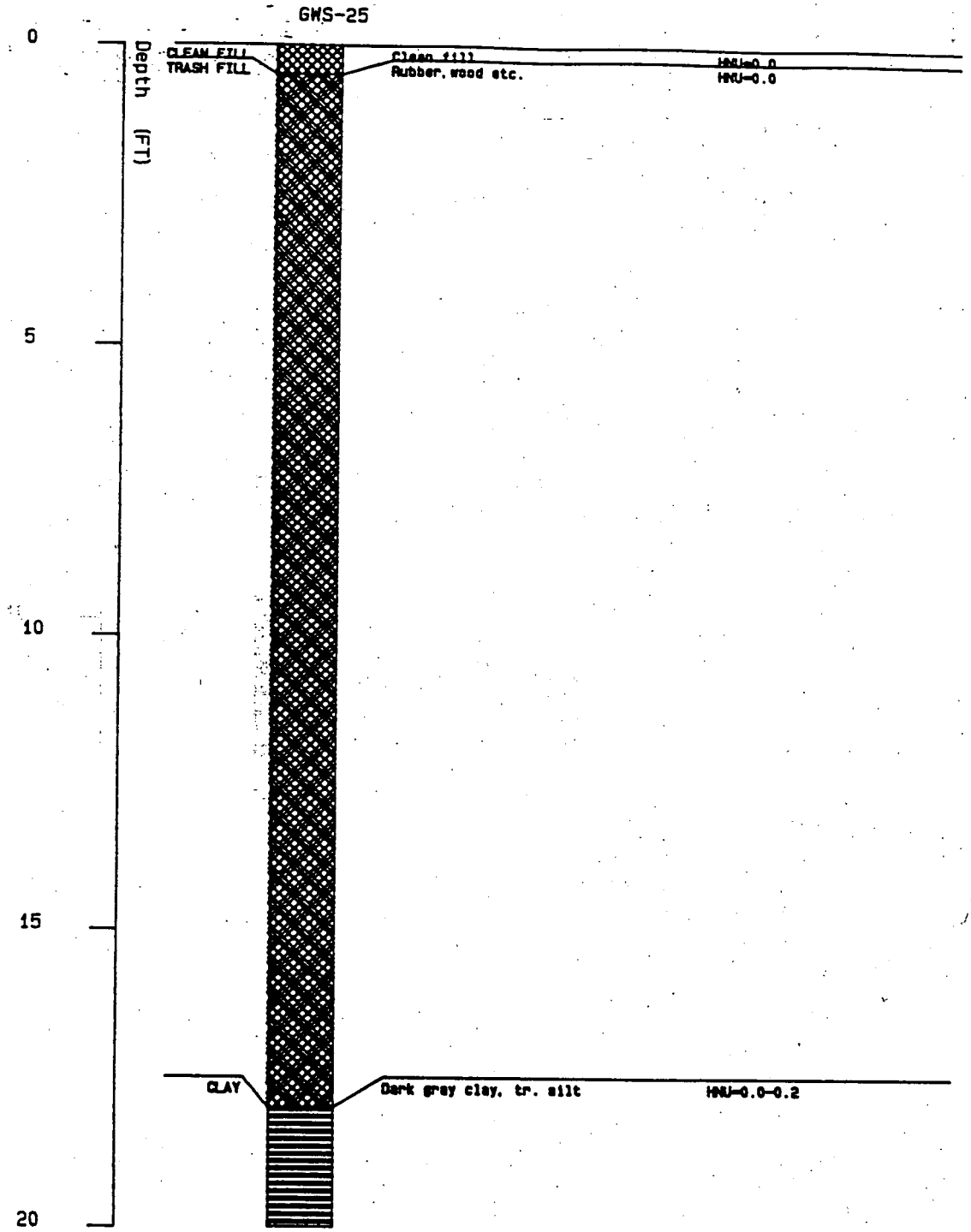
LEGEND ⊻ Static Water Level

SANDY CLAY SAND GRAVEL

LITHOLOGIC LOG: GWS-24	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 50

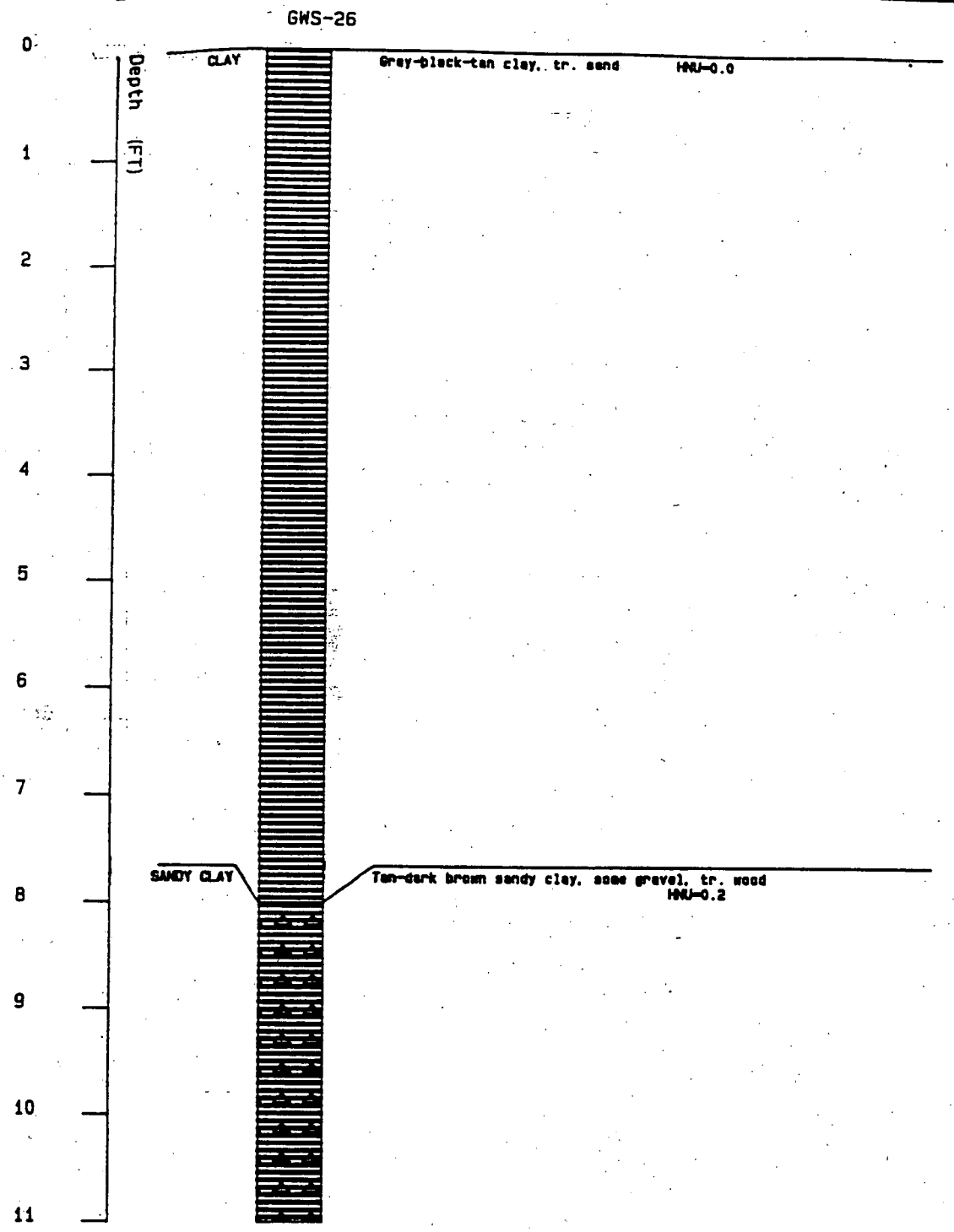


LITHOLOGIC LOG: GWS-25

PENNSAUKEN SANITARY LANDFILL

JAMES C. ANDERSON ASSOCIATES

Figure : 51



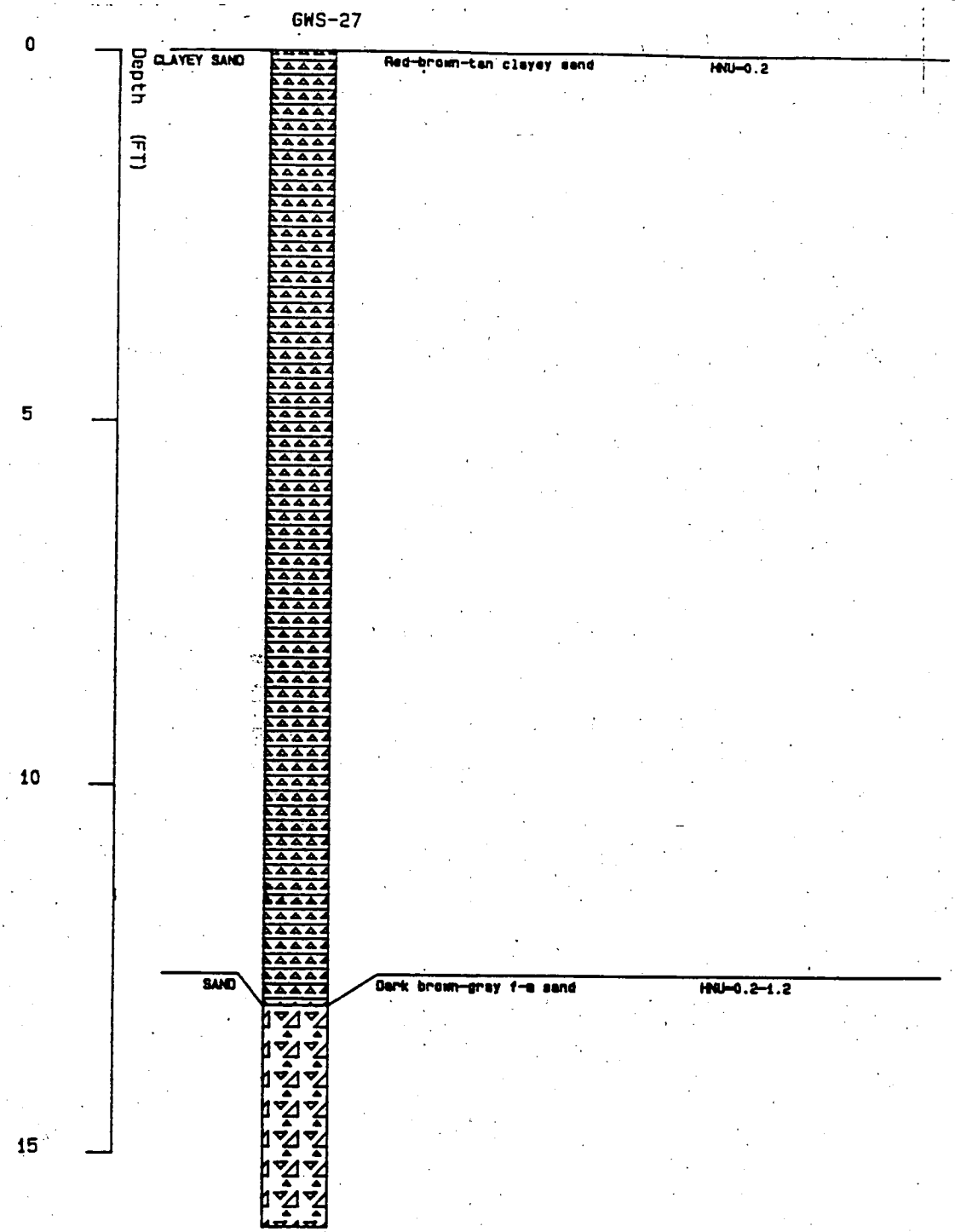
LEGEND ▽ Static Water Level

CLAY SANDY CLAY

LITHOLOGIC LOG: GWS-26	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 52



LEGEND

Static Water Level

CLAYEY SAND

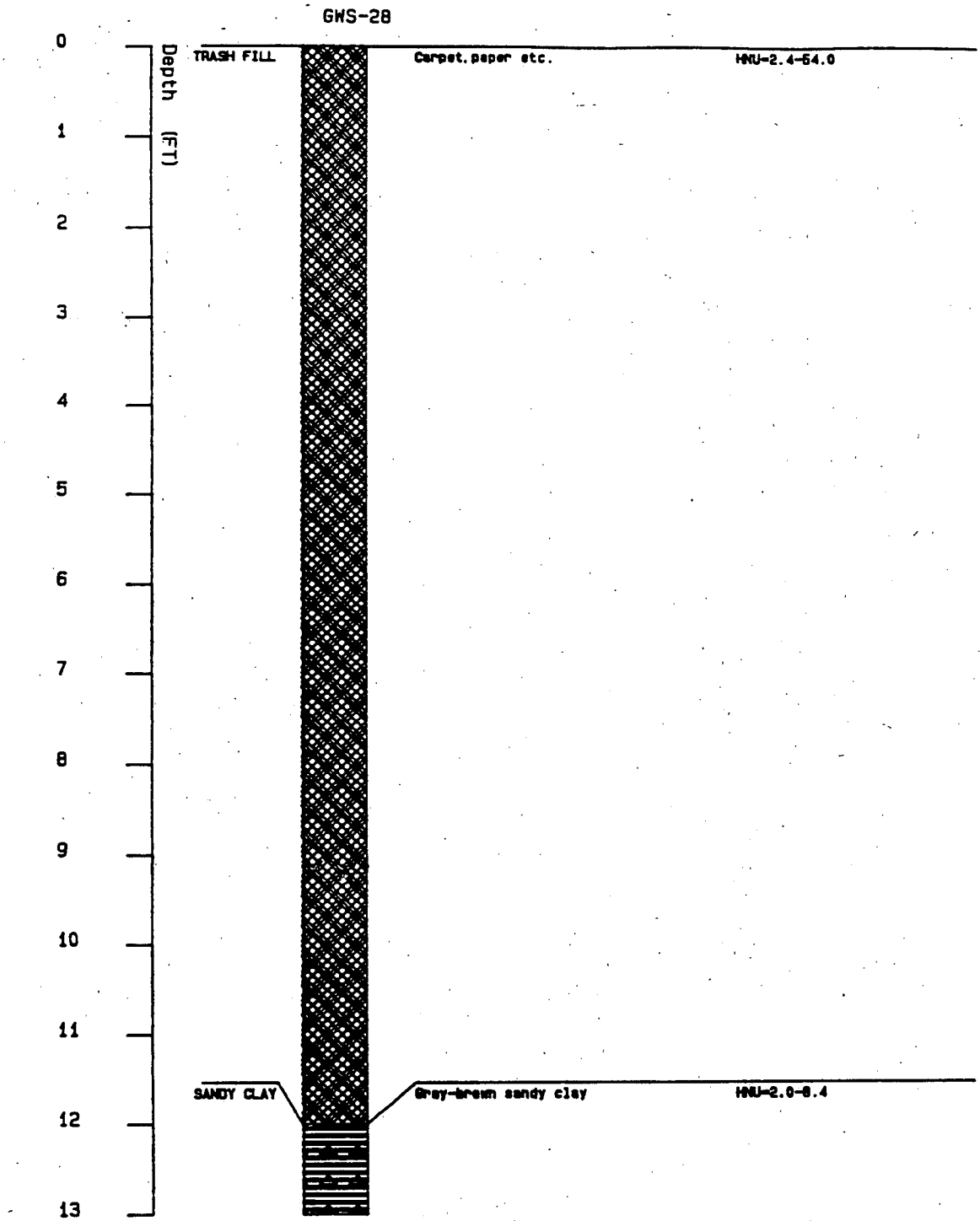
SAND

LITHOLOGIC LOG; GWS-27

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 53



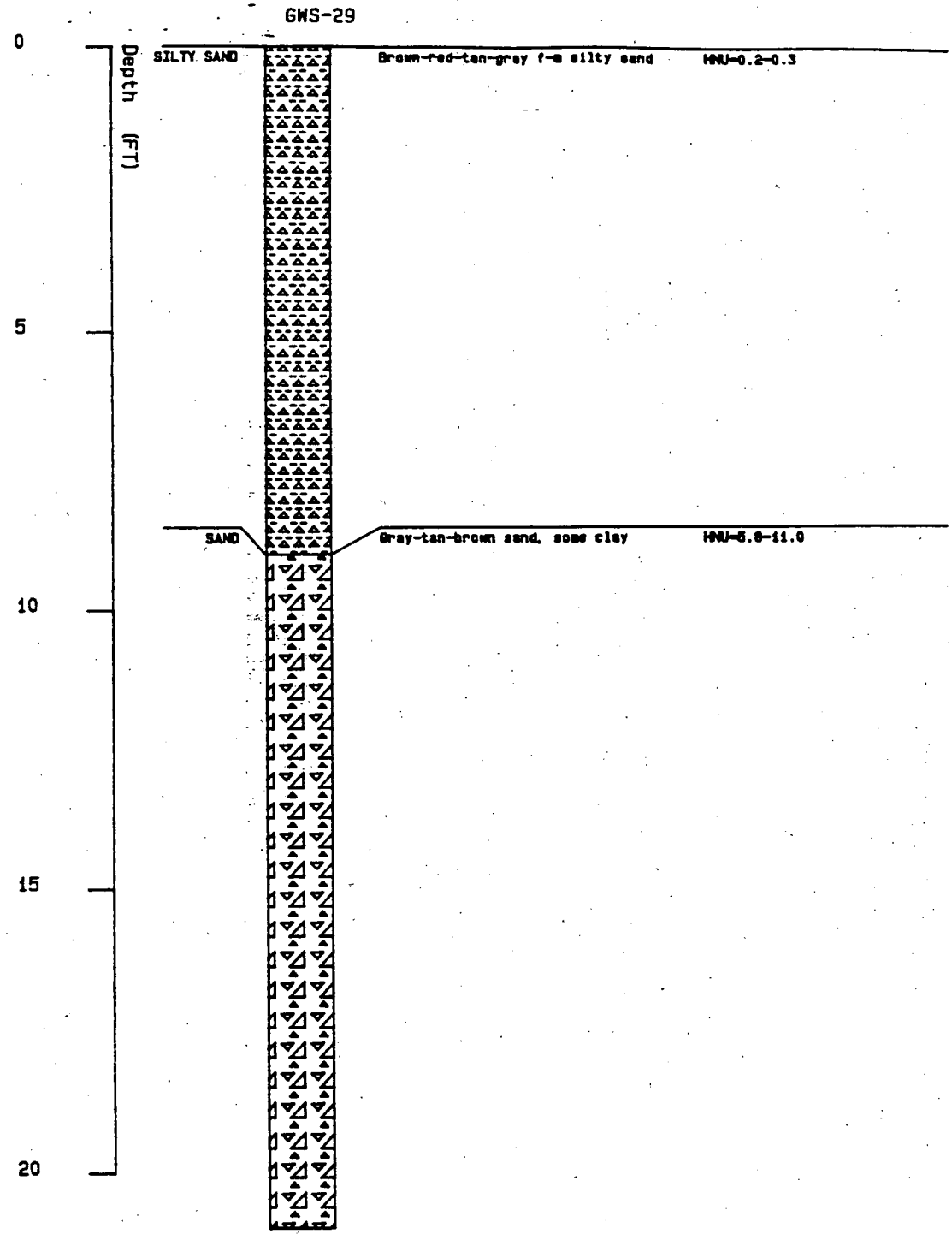
LEGEND ▽ Static Water Level

TRASH FILL SANDY CLAY

LITHOLOGIC LOG: GWS-28	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 54



LEGEND

Static Water Level

SILTY SAND

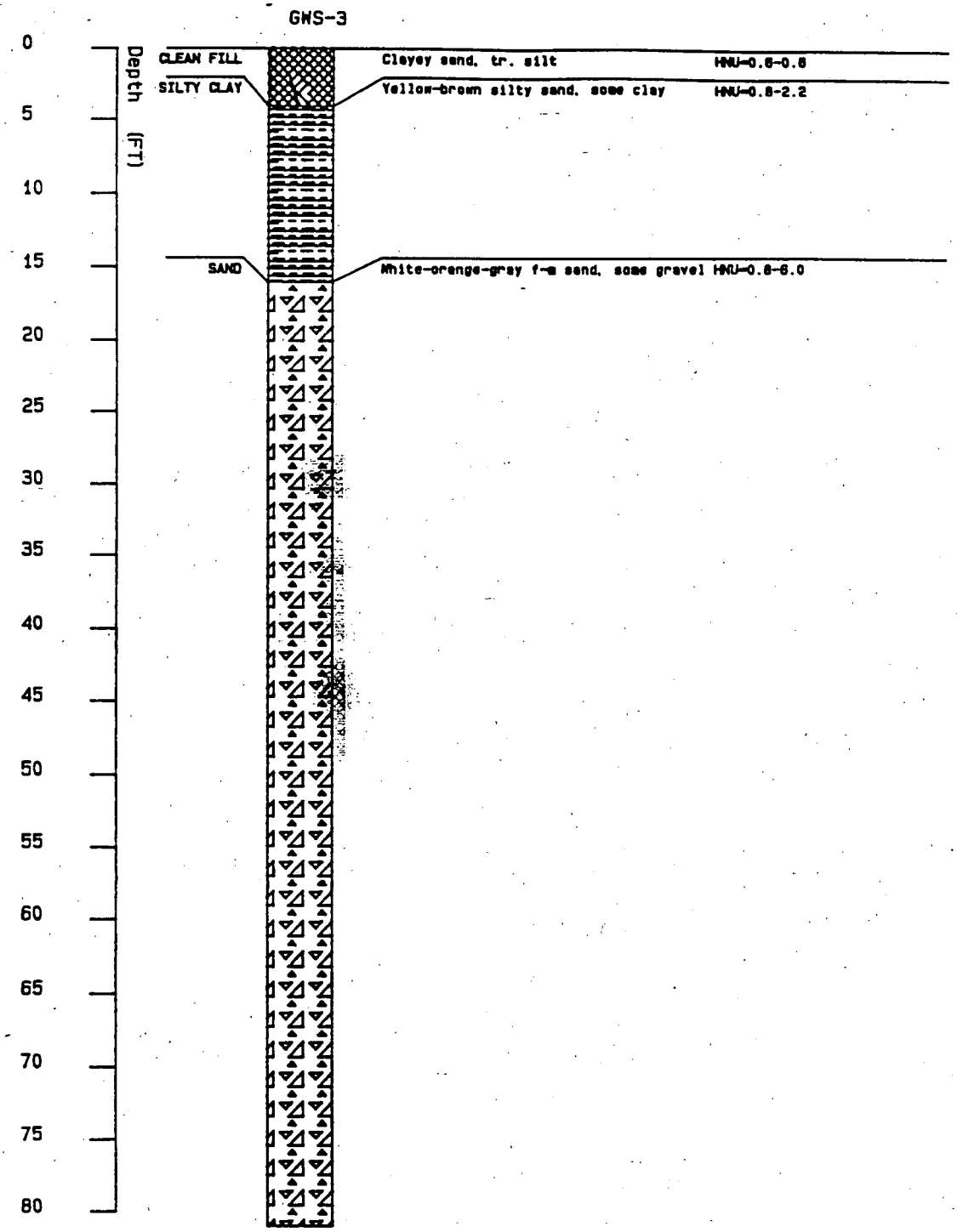
SAND

LITHOLOGIC LOG: GWS-29

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 55



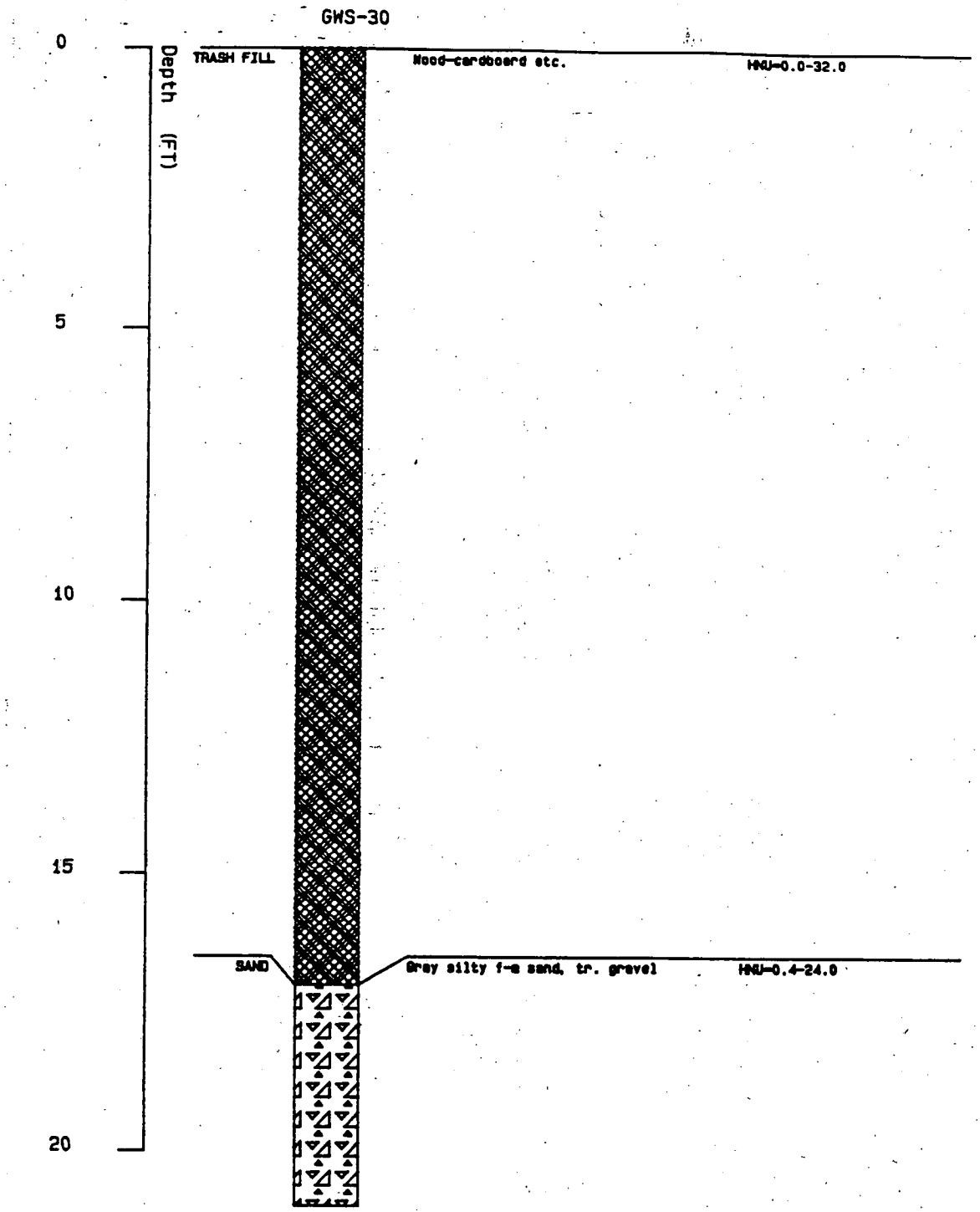
LEGEND ▽ Static Water Level

CLEAN FILL SILTY CLAY SAND

LITHOLOGIC LOG: GWS-3	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 56



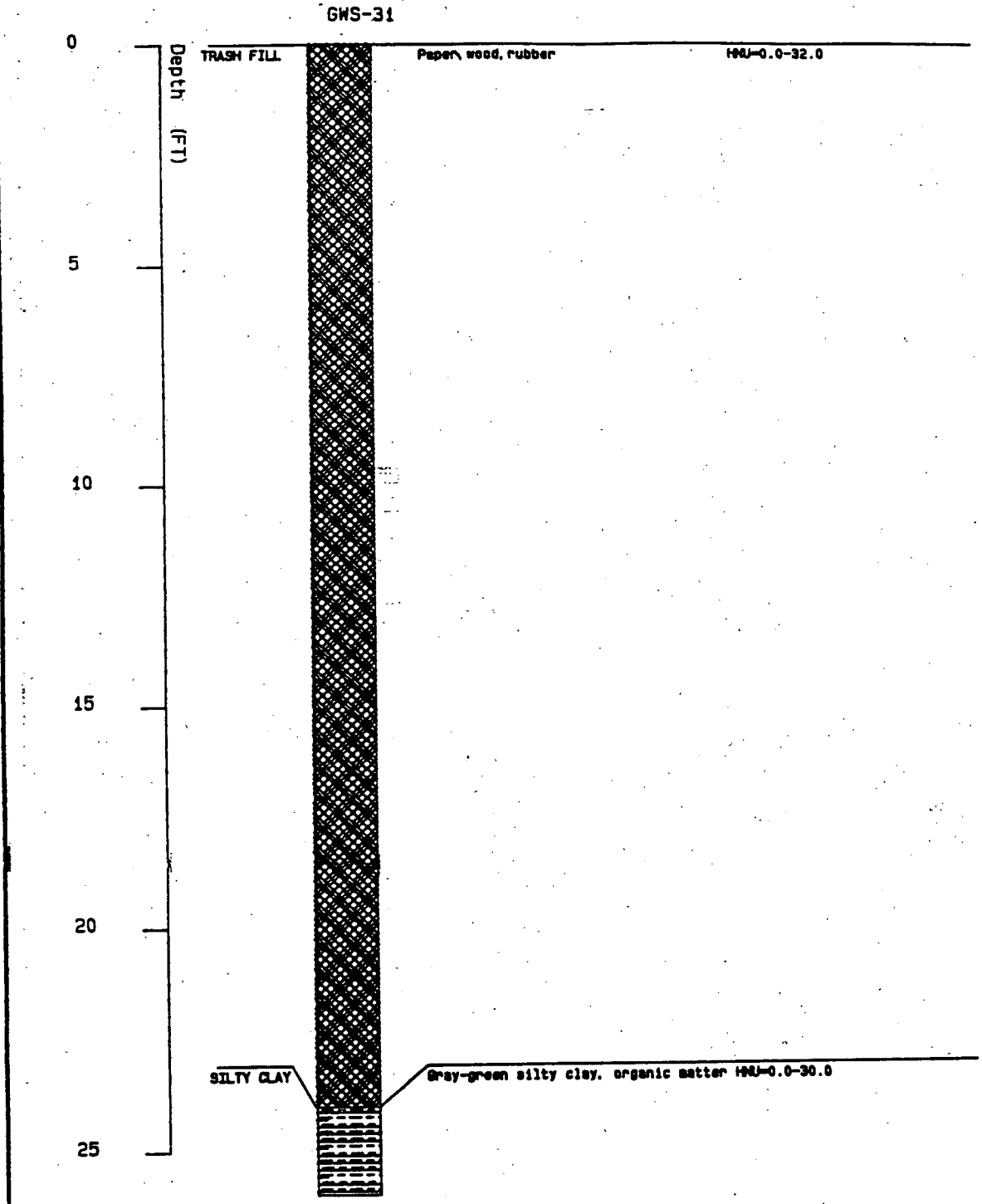
LEGEND ⊠ Static Water Level

TRASH FILL SAND

LITHOLOGIC LOG: GWS-30	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 57



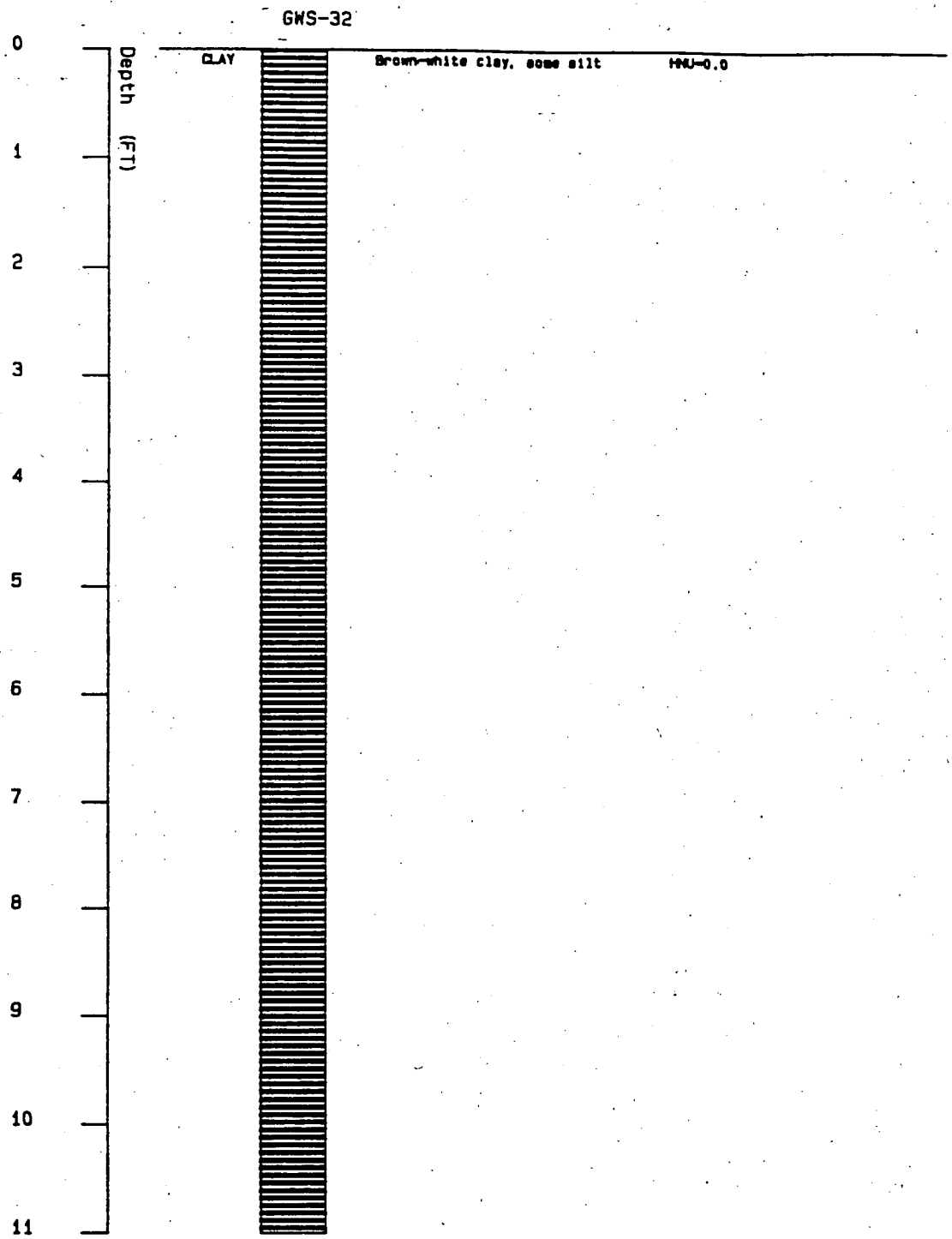
LEGEND ▽ Static Water Level

TRASH FILL SILTY CLAY

LITHOLOGIC LOG: GWS-31	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 58



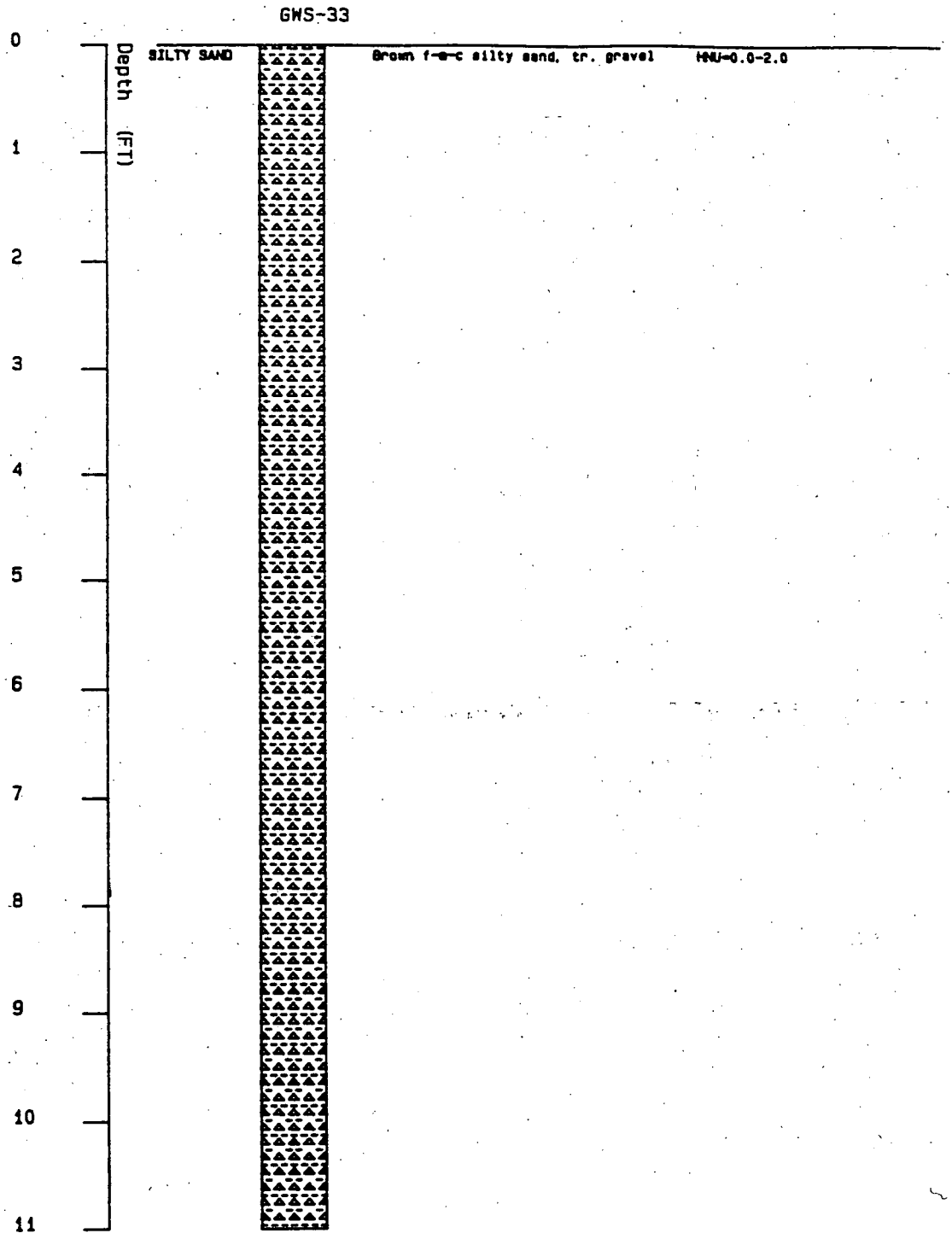
LEGEND ▽ Static Water Level

CLAY

LITHOLOGIC LOG: GWS-32	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 59



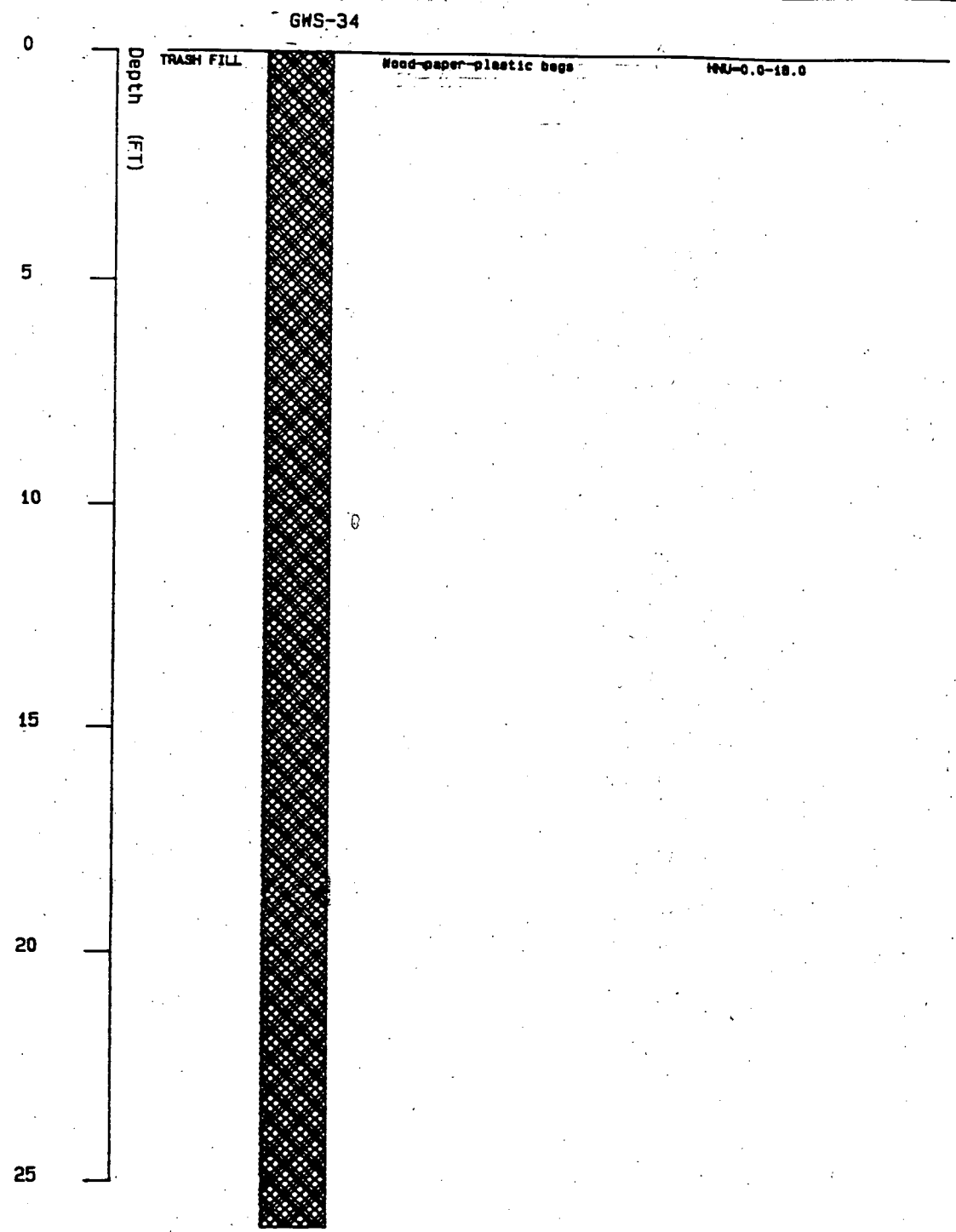
LEGEND ▽ Static Water Level

SILTY SAND

LITHOLOGIC LOG: GWS-33	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 60



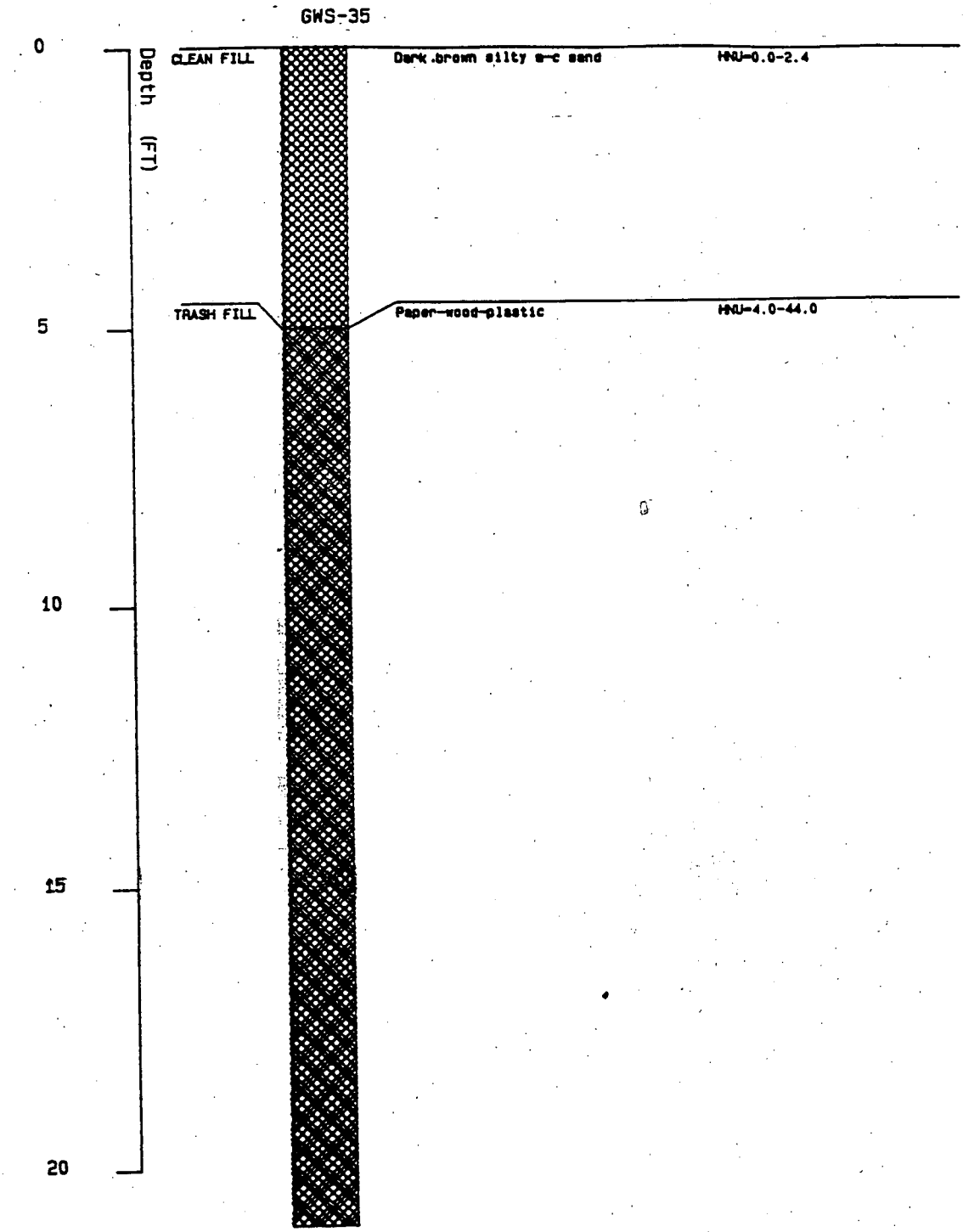
LEGEND ▽ Static Water Level

TRASH FILL

LITHOLOGIC LOG; GWS-34	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 61



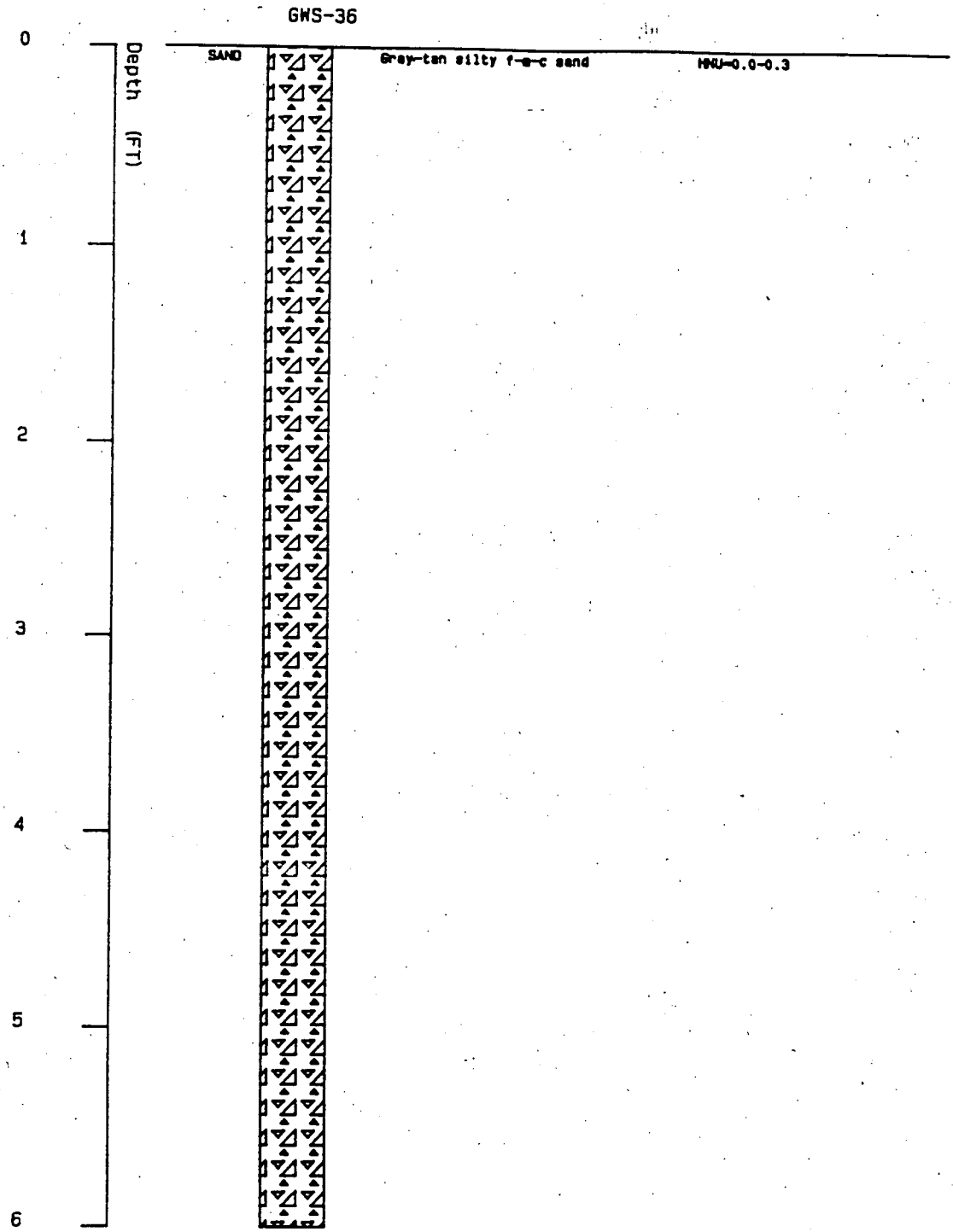
LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL

LITHOLOGIC LOG: GWS-35	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 62



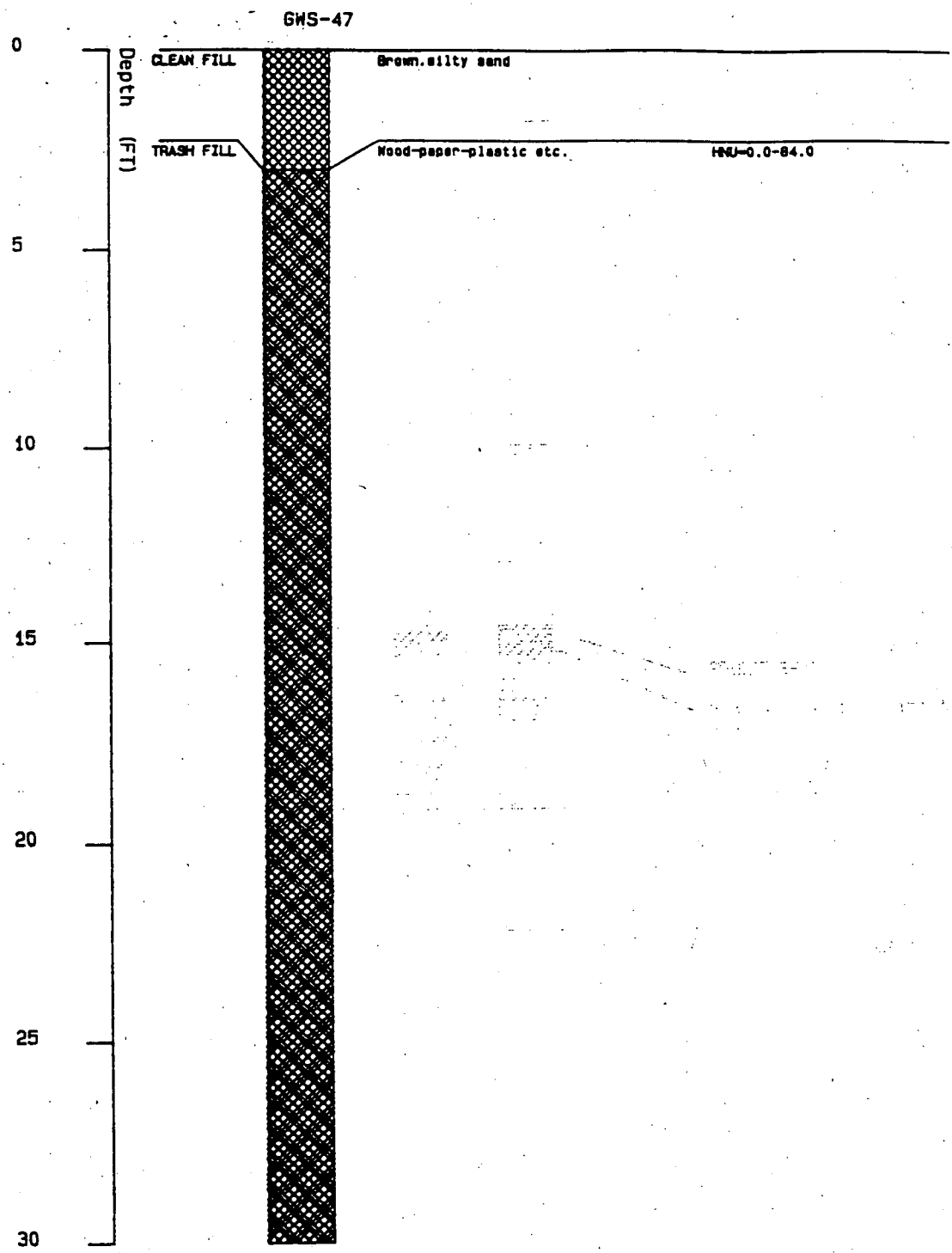
LEGEND ▽ Static Water Level

SAND

LITHOLOGIC LOG; GWS-36	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 63



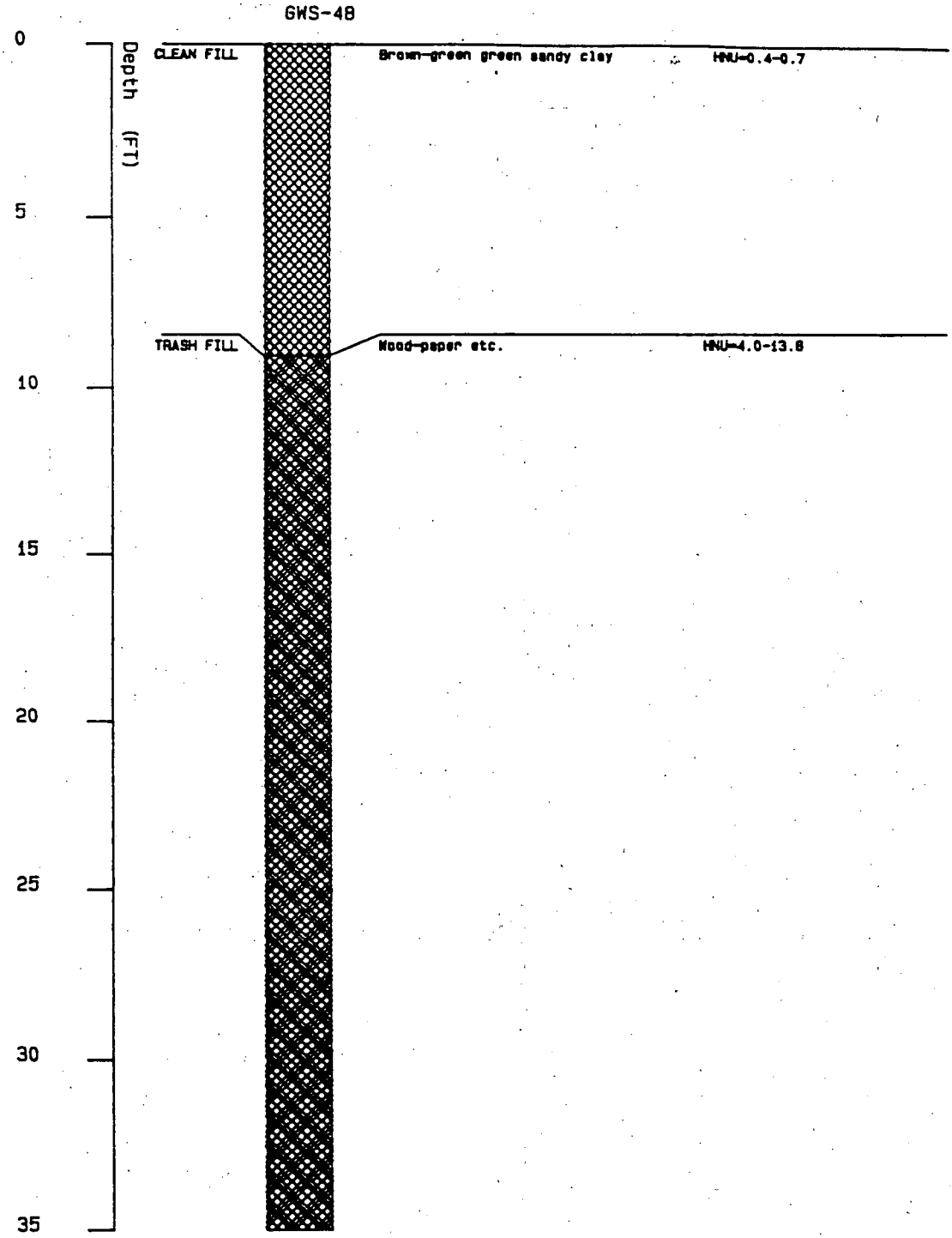
LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL

LITHOLOGIC LOG: GWS-47	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 64



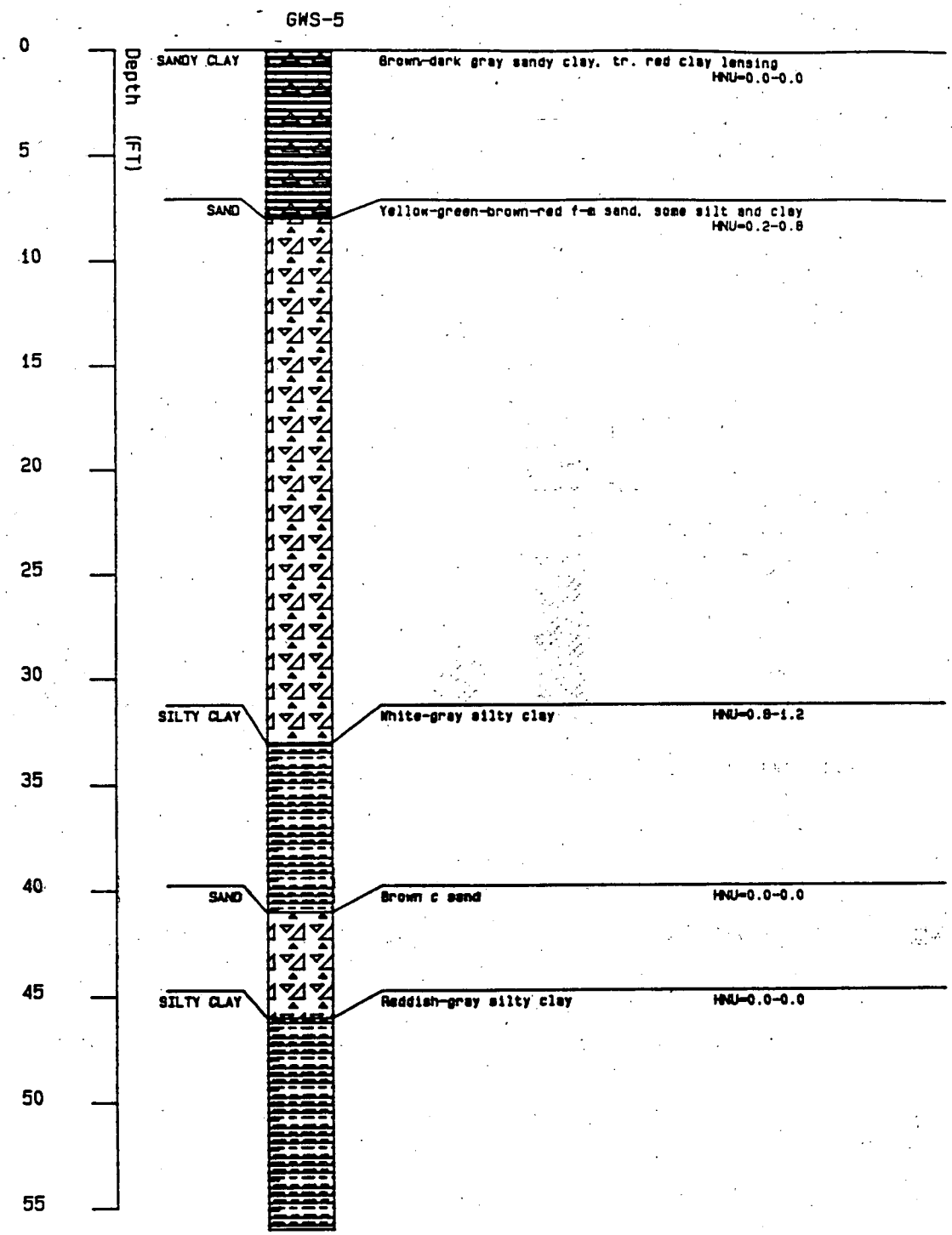
LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL

LITHOLOGIC LOG: GWS-48	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 65



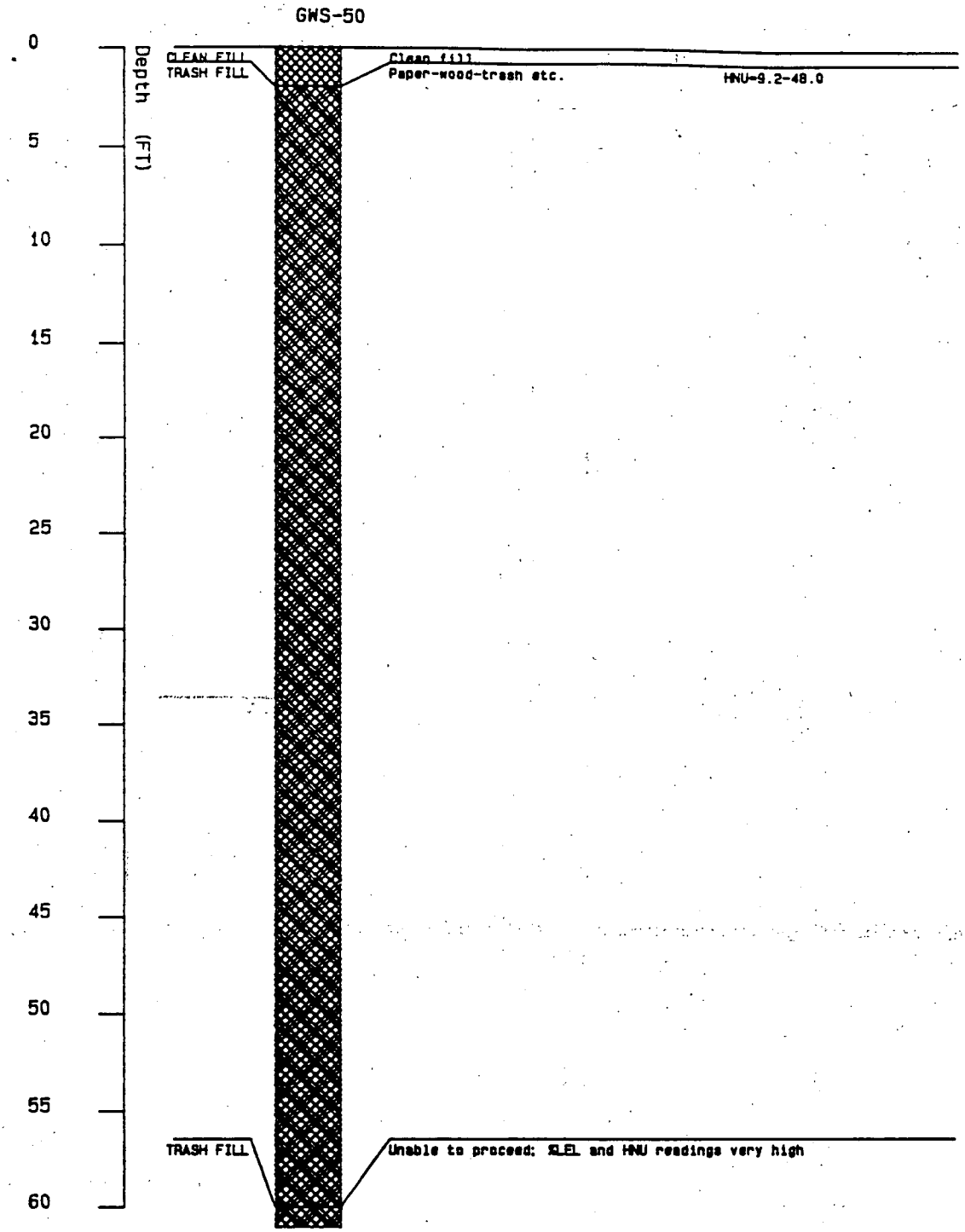
LEGEND ⊻ Static Water Level

SILTY CLAY SANDY CLAY SAND

LITHOLOGIC LOG: GWS-5	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 66



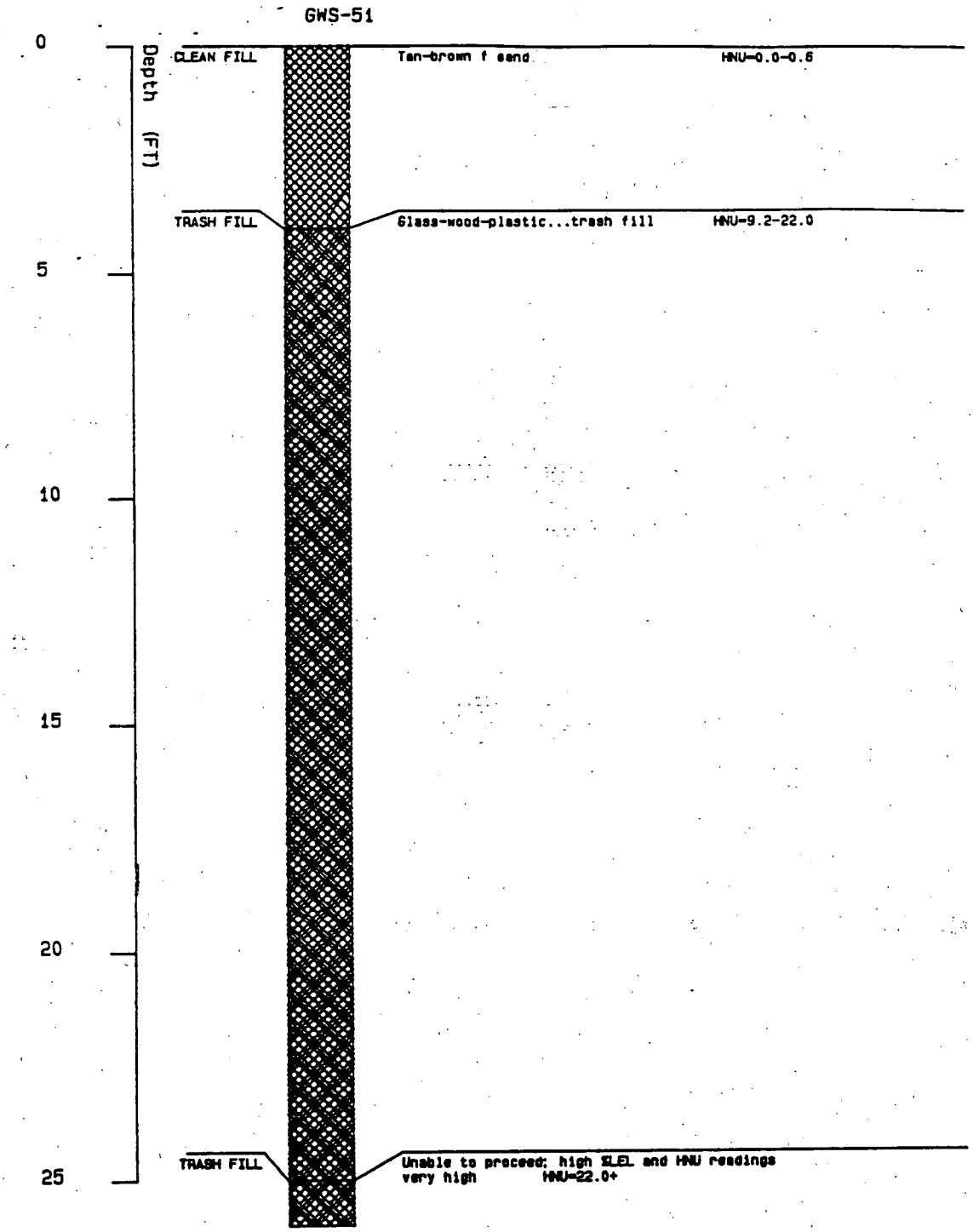
LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL

LITHOLOGIC LOG: GWS-50	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 67



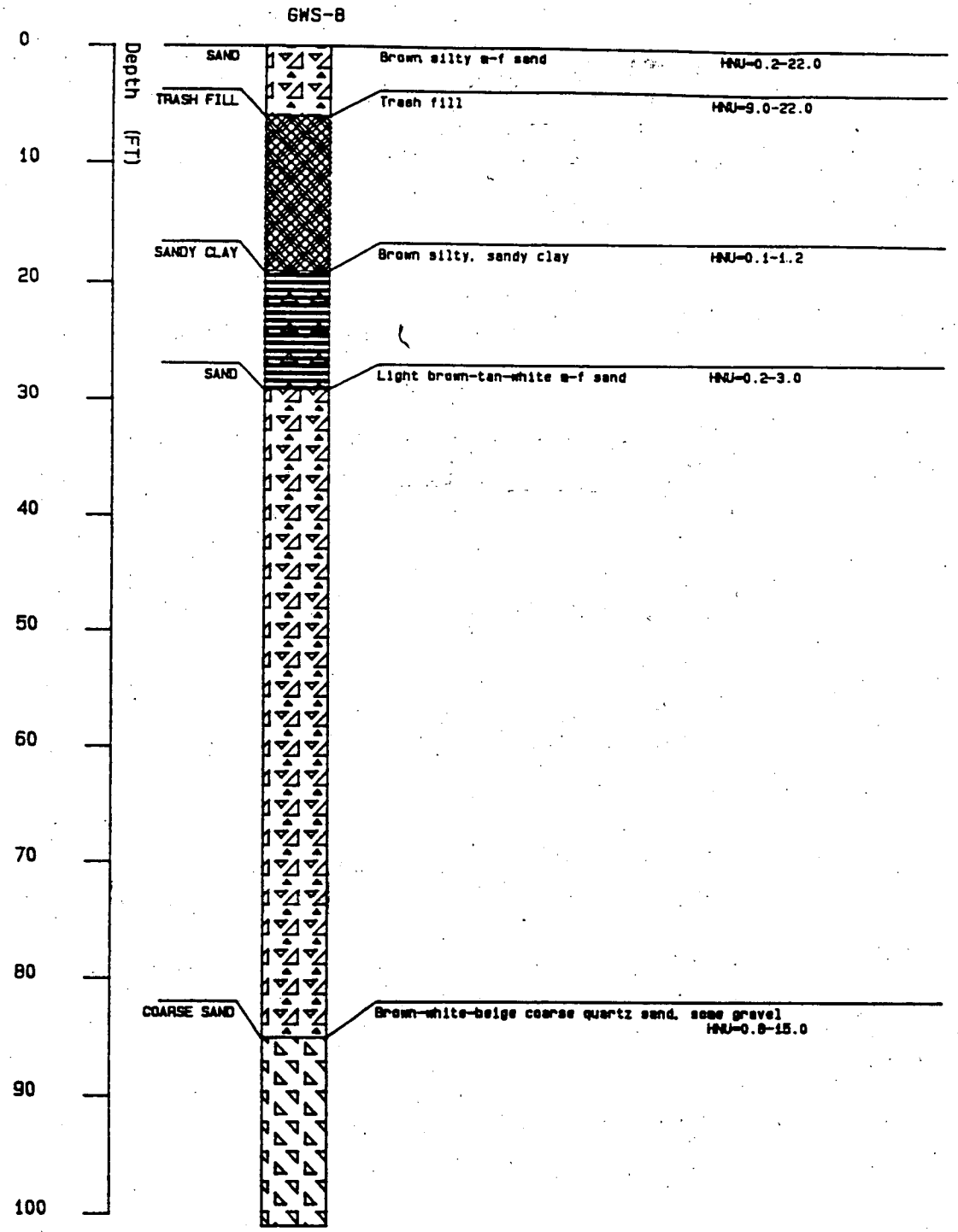
LEGEND ▽ Static Water Level

CLEAN FILL TRASH FILL

LITHOLOGIC LOG: GWS-51	PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 68

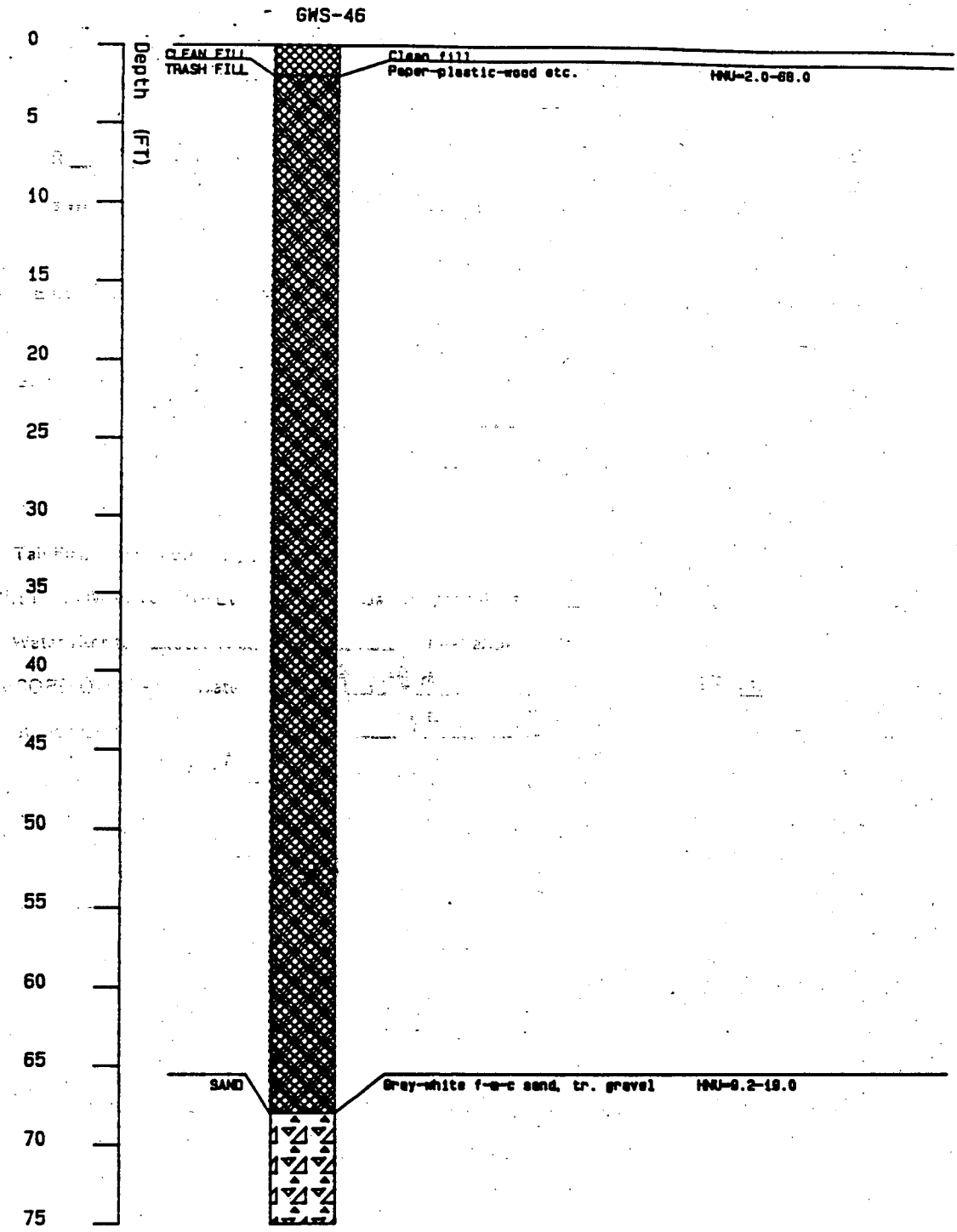


LITHOLOGIC LOG: GWS-8

PENNSAUKEN SANITARY LANDFILL

JAMES C. ANDERSON ASSOCIATES

Figure : 69



LEGEND ⌶ Static Water Level

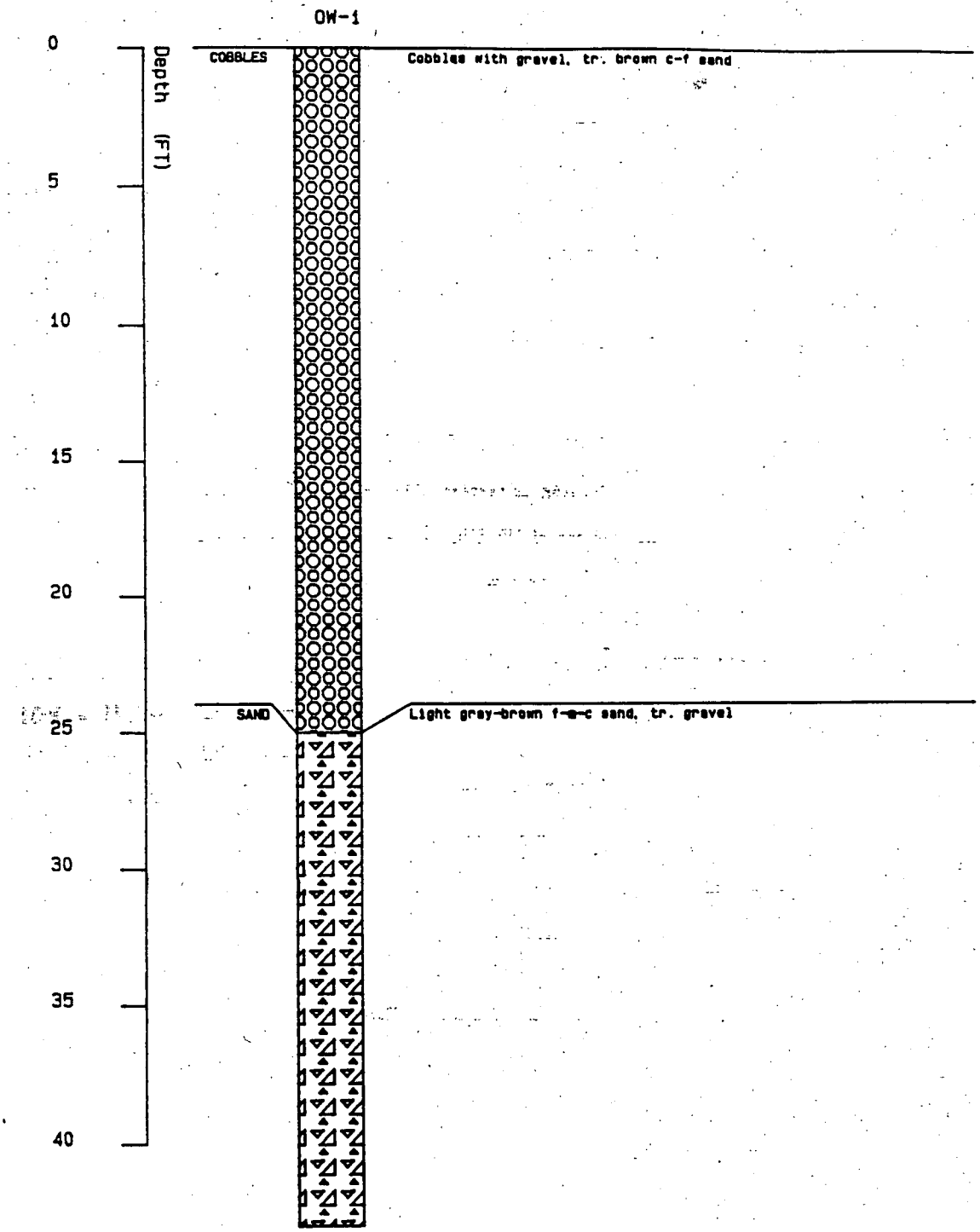
CLEAN FILL TRASH FILL SAND

LITHOLOGIC LOG; GWS-46

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 70



LEGEND ▽ Static Water Level

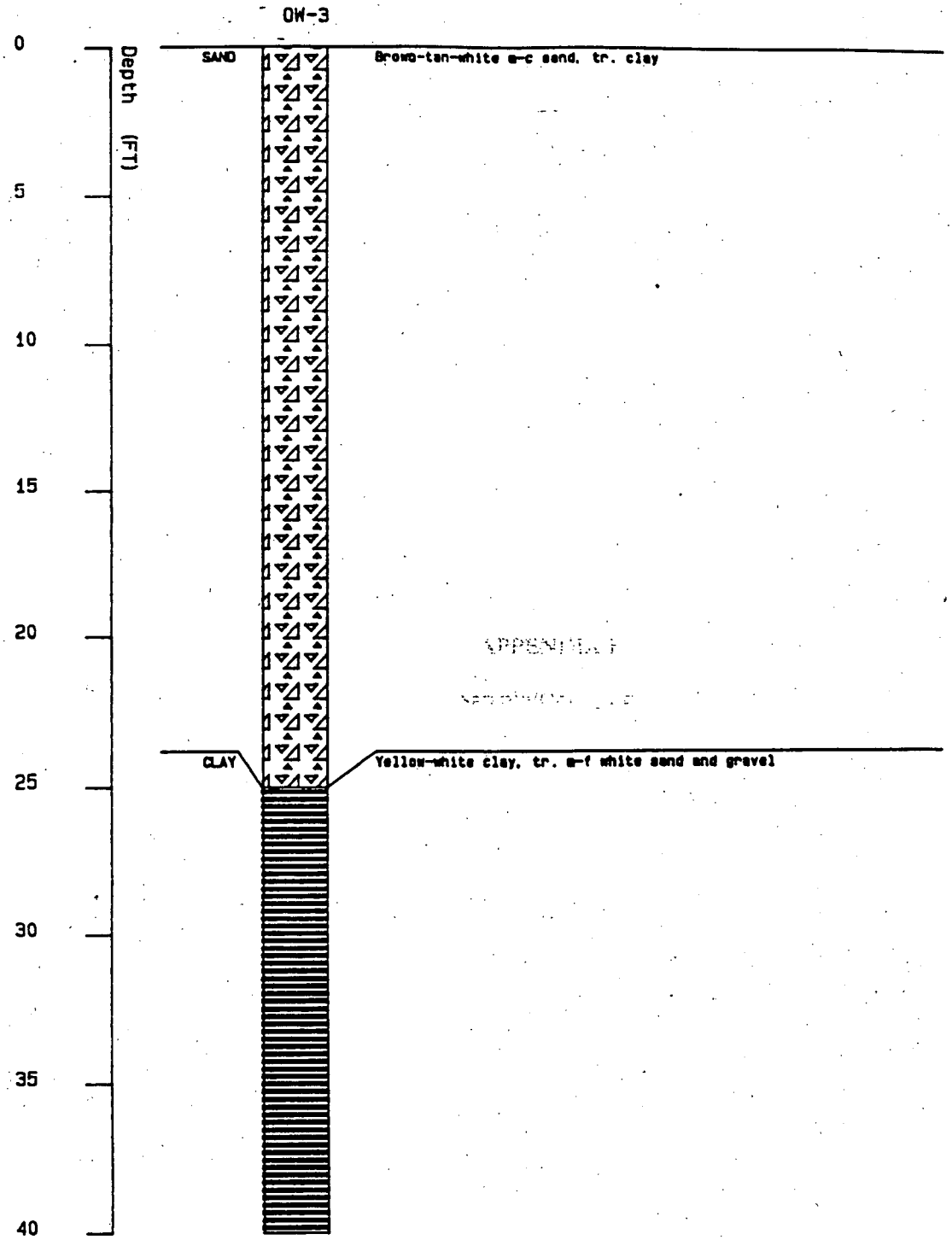
SAND COBBLES

LITHOLOGIC LOG: GMW-1

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 71



LEGEND ⊠ Static Water Level

CLAY SAND

LITHOLOGIC LOG: GWS-3

PENNSAUKEN SANITARY LANDFILL

JAMES C ANDERSON ASSOCIATES

Figure : 72

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 31 5111
Application No. 1354
County _____

MPWC Well #1 WELL RECORD

1. OWNER Merchantville Pennsauken Water Commission ADDRESS 20 N. Maple Ave, Merchantville, N.J.
   Owner's Well No. 15 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Pennsauken Camden County, N.J.
3. DATE COMPLETED 7/21/67 DRILLER Layne New York Co. Inc
4. DIAMETER: top 16 Inches Bottom 12 Inches TOTAL DEPTH 231 Feet
5. CASING: Type Steel & Stls Stl Diameter 12 Inches Length 195 Feet
6. SCREEN: Type Stainless Stl Size of Opening Shutter Diameter 12 Inches Length 25 Feet
   Range in Depth { Top 195 210 Feet, Bottom 200 230 Feet } Split Screen Geologic Formation See Reverse Side
   Tail piece: Diameter 12 Inches Length 1 Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 7-21-67 Yield 1000 Gallons per minute
   Static water level before pumping 80 Feet below surface
   Pumping level 109 feet below surface after 8 hours pumping
   Drawdown 29 Feet Specific Capacity 34.5 Gals. per min. per ft. of drawdown
   How Pumped Turbine How measured Orifice
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type Turbine Mfrs. Name Layne & Bowler, Inc, Memphis, Tenn
   Capacity 1000 G.P.M. How Driven Elect Motor H.P. 60 R.P.M. 1800
   Depth of Pump in well 145 Feet Depth of Footpiece in well 10 Feet
   Depth of Air Line in well 140 Feet Type of Meter on Pump _____ Size ___ Inches
10. USED FOR Public Supply AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ___ No. ___
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG See Reverse Side Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Layne New York Co. Inc
14. DATA OBTAINED BY Layne New York Co. Inc Date 8-11-67

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

Log of well #1

31-5110

0-18	YELLOW CLAY & GRAVEL
18-38	CLAY & GRAVEL
38-50	HEAVY GRAVEL
50-68	WHITE SANDY CLAY
68-111	FINE TO COARSE SAND & GRAVEL STKS OF WHITE CLAY
111-113	WHITE CLAY
113-142	SAND & GRAVEL STKS OF CLAY
142-157	SAND & GRAVEL
157-162	COARSE SAND
162-180	SOFT SANDY CLAY
180-202	SAND & GRAVEL STKS OF WHITE CLAY
202-247	COARSE SAND & GRAVEL STKS OF CLAY

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Kedr

PERMIT NO. 31-1920

APPLICATION NO. _____

COUNTY _____

31.02.343

WELL RECORD

MPWC Well #2

1. OWNER MERCHANTVILE - PENNSAUKEN ADDRESS W. MAPLE AVE - MERCHANTVILLE, N.J.
   Owner's Well No. # 2 NATIONAL HWY. SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION _____
3. DATE COMPLETED 9-1-82 DRILLER HYDRO-GROUP INC.
4. DIAMETER: Top 12" inches Bottom 12" inches TOTAL DEPTH 211' Feet
5. CASING: Type BLACK STEEL WELDED Diameter 12" Inches Length 167' Feet
6. SCREEN: Type STAINLESS WIRE WRAP Size of Opening 100 Diameter 12" Inches Length 24' Feet
   Range in Depth { Top 182' Feet / Bottom 206' Feet } Geologic Formation _____
   Tail Piece: Diameter 12" Inches Length 5' Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 9-1-82 Yield 1236 Gallons per minute
   Static water level before pumping 55' Feet below surface
   Pumping level 87' feet below surface after 8 hours pumping
   Drawdown 32' Feet Specific Capacity 38.6 Gals. per min. per ft. of drawdown
   How pumped VERTICAL TURBINE PUMP How measured ORIFICE
   Observed effect on nearby wells NONE
9. PERMANENT PUMPING EQUIPMENT:
   Type VERTICAL TURBINE Mfrs. Name LAYNE + BOWLER INC - MEMPHIS, TENN.
   Capacity 1200 G.P.M. How Driven ELECT. MOTOR H.P. 60 R.P.M. 1800
   Depth of Pump in well 144' Feet Depth of Footpiece in well 154' Feet
   Depth of Air Line in well 140' Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR PUBLIC SUPPLY AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste NO Odor NO Color NO Temp. ____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA HYDRO GROUP INC - 1250 W. ELIZABETH AVE - LINDEN, N.J. 07036
14. DATA OBTAINED BY HYDRO GROUP INC. (NSW) Date 6-5-84

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

LOG OF WELL # 2 NATIONAL HWY
MERCHANTVILLE - PENNSAUKEN WATER

31-1920-7

0'- 14' - TOP SOIL COARSE SAND + GRAVEL
14'- 21' - SAND, GRAVEL + CLAY
21'- 28' - FINE TO MED. SAND, STREAKS OF CLAY
28'- 39' - WHITE CLAY
39'- 45' - SAND, GRAVEL CLAY STREAKS
45'- 49' - FINE WHITE SAND
49'- 54' - FINE WHITE AND YELLOW SAND
54'- 58' - FINE TO MEDIUM WHITE SAND
58'- 67' - FINE TO COARSE SAND AND GRAVEL
67'- 72' - COARSE SAND AND GRAVEL
72'- 99' - COARSE SAND AND GRAVEL WITH CLAY
99'- 108' - COARSE SAND HEAVY GRAVEL STREAKS OF WHITE CLAY
108'- 111' - COARSE SAND AND GRAVEL
111'- 118' - WHITE CLAY
118'- 125' - MEDIUM COARSE. SAND AND GRAVEL
125'- 131' - FINE SAND STREAKS OF GRAVEL AND CLAY
131'- 139' - FINE TO MEDIUM SAND + GRAVEL WHITE CLAY
139'- 155' - FINE TO MEDIUM SAND + GRAVEL, STK'S OF WHITE CLAY
155'- 158' - RED AND WHITE CLAY
158'- 161' - SAND, GRAVEL, CLAY STREAKS
161'- 171' - COARSE SAND AND GRAVEL
171'- 180' - FINE TO COARSE SAND AND GRAVEL, STREAKS OF CLAY
180'- 191' - MEDIUM TO COARSE SAND AND GRAVEL, WITH LARGE GRAVEL
191'- 198' - COARSE SAND, LARGE ROCKS
198'- 202' - SAND, GRAVEL CLAY STREAKS
202'- 210' - LARGE ROCKS, GRAVEL, CLAY AND COARSE SAND
210'- 218' - FINE SAND, WHITE CLAY AND GRAVEL

APPENDIX B

Sample/Core Logs

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING/WELL: GM-1D PROJECT NO: NY1650RI03 PAGE: 1 of 4

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11-18-88 DRILLING COMPLETED: 12-14-88

TOTAL DEPTH DRILLED: 203 ft. HOLE DIAMETER: 14/10 inches TYPE OF SAMPLE/ CORING DEVICE: Split-Barrel Core

LENGTH & DIAMETER OF CORING DEVICE: 2'/1.5" SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: 66.00 (X) SURVEYED ( ) ESTIMATED DATUM: Mean Sea Level

DRILLING FLUID USED: Bentonite Mud Slurry DRILLING METHOD: Mud Rotary

DRILLING CONTRACTOR: John Mathes and Associates DRILLER: C. Hitzelberger HELPER: D. Valora

PREPARED BY: T. Loukides HAMMER WEIGHT: 200 lb. HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
0	4	grab		Silt and sand, brown to orange; minor gravel.
4	6	1.7	2-3-6-8	Sand, silt, some clay, orange/brown, moist at top; sand, fine to medium, minor coarse.
9	11	2.0	6-8-11-11	Silty clay to clay, minor fine sand, orange/brown, minor gray clay, dry.
14	16	1.9	3-8-9-10	Clay, brown, soft, dry; contact with silty sand, fine.
19	21	1.9	8-11-10-12	Silty sand, brown to light brown; minor clay, gray moist, and fine, dark brown sand at base.
24	26	2.0	6-12-11-10	Silty brown clay, grades to silty, sandy clay, olive green.
29	31	1.0	9-9-11-11	Sand, medium, brown; contact with glay, gray soft; contact with sand, medium to fine, olive green.
34	36	1.0		Sand, medium to coarse, brown; gravel, medium to coarse; moist.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-1D PREPARED BY: T. Loukides PAGE: 2 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
39	41	1.2		Sand, medium to coarse, brown to white; minor gravel,
				small.
44	46	1.0		Sand, fine, gray/white.
49	51	1.8		Sand, fine, orange/brown.
54	56	1.2		Clay, gray, tight, dry.
59	61	0.8		Sand, fine to medium, light brown, dry.
64	66	1.0		Sand, fine, light brown, moist.
69	71	1.0		Sand, fine, white to gray; clay, gray, moist.
74	76	0.8		Sand, fine to medium, orange/brown, moist.
79	81	0.2		Clay, gray, tight, dry.
84	86	1.4		Clay, gray, soft, moist; grades to sand, medium to
				coarse, gray; saturated.
				No sample at 91 ft.
94	96	1.2		Sand, fine, white/gray; minor small gravel.
99	101	0.7		Sand, medium to coarse, gray; gravel, small to medium.
104	106	1.0		Sand, medium to coarse, brown/gray.
109	111	1.2		Sand, coarse, and gravel, medium, brown/gray; minor fine
				sand and silt, brown.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-1D PREPARED BY: T. Loukides PAGE: 3 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE)		CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
FROM	TO			
114	116	1.1		Sand, fine to medium, tan/gray; minor silty clay, gray,
				interspersed.
119	121	0.8		Sand, coarse, and gravel, small to medium, brown/gray.
124	126	0.6		Silt and fine sand, gray; grades to sand, fine to
				medium, brown.
129	131	1.5		Sand, medium to coare, and gravel, small to medium,
				brown, to gray; minor silty clay, gray at base.
134	136	0.4		Clay, gray, and sand, medium to coarse, varicolored;
				sand, fine, orange at base.
138	140	0.5		Silty and sand, fine, gray; grades to silty clay, gray,
				tight at base.
				No sampe at 144 ft.
147	149	0.2		Sand, fine to medium, orange; silty clay gray to black
				at base.
152	154	0.3		Sand, fine to medium, tan to gray with orange stain;
				clayey matrix.
157	159	0.9		Sand, medium, tan to gray; minor sand, fine, brown.
162	164	1.2		Sand, very fine to medium, gray to brown; minor orange
				stain.
167	169	1.5		Clay, gray/tan, soft; grades to sand, very fine and
				silty, gray/tan.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-1D PREPARED BY: T. Loukides PAGE: 4 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE)		CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
FROM	TO			
172	174	0.6		Sand, fine, gray, wet.
177	179	0.7		Sand, fine, tan/gray.
182	184	0.8		Sand, fine to medium, tan; silt, gray.
187	189	0.5		Sand, fine, gray/tan.
192	194	0.7		Sand, fine, gray/tan.
197	199	0.8		Sand, fine, gray/tan.
201	203	0.5		Sand, fine to medium, gray to tan.

GERAGHTY & MILLER, INC.
Ground-Water Consultants

SAMPLE/CORE LOG

Boring/Well GM-20 Project/No. Swope/NY24803 Page 1 of 4

Site Location Pennsauken, N.J. Drilling Started 8/4/84 Drilling Completed 8/21/84

Total Depth Drilled 20' feet Hole Diameter 4 inches Type of Sample/Coring Device split spoon

Length and Diameter of Coring Device 2 Ft x 2 in. Sampling Interval every 5 feet

Land-Surface Elev. 61.42 feet ☒ Surveyed ☐ Estimated Datum Mean sea level

Drilling Fluid Used mud Drilling Method mud rotary

Drilling Contractor Environmental Drilling, Inc. Driller Scott Helper Mervin

Prepared By Neil Benowitz Hammer Weight 140/55 Hammer Drop 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	0.4	No blow counts taken	Sand, medium, black/brown, some blacktop fragments, moist.
10	12	0.6	-	Sand, medium, trace silt and clay, brown to slight olive green, moist.
15	17	0.8	-	Sand, medium to fine, well sorted, brown to orange/brown, moist.
20	22	0.7	-	Same as above, trace clay in tip.
25	27	1.4	-	Clay, brown, tight, hard; some sand bands, fine to medium, brown, moist
30	32	0	-	No recovery; possible gravel
35	37	0	-	No recovery; possible gravel

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Southprint 87-1718

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-20

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
40	60	-	-	No samples were attempted between 40 and 60 ft below land surface; gravel observed in cuttings
60	62	1.0	-	Sand, fine, silty, grey, some orange tint, trace clay.
65	67	0.4	-	Clay, silty, some fine sand, grey, tight.
70	80	-	-	No samples attempted between 70 and 80 ft below land surface; gravel and some silty clay layers observed in cuttings
80	82	0.4	-	Silty sand, fine, trace clay, grey with orange.
84	115	-	-	No samples were attempted between 84 and 115 ft below land surface; gravel, getting finer, with some sand with depth observed in cuttings.
115	117	0.3	-	Sand, medium to coarse, trace fine gravel.
120	122	0.2		Sand, fine, brown, well sorted.
125	127	0.2	-	Gravel, medium, some sand, medium to coarse, maybe wash.
130	132	0.6	-	Same as above, more sand.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-2D

Prepared By Neil Benawitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
135	140	-	-	No sample collected at 135 Ft below land surface, coarse sand observed in cuttings.
140	142	0.7	-	Clay trace silt and sand, grey, sand fine, clay tight.
145	147	1.0	-	Clay grey, tight, some sand, fine.
150	152	0	-	Sample gravel wash, still in clay.
155	157	0	-	same as above.
160	162	0	-	same as above.
165	167	1.8	-	Clay, grey/brown, hard, tight.
170	172	1.6	-	Clay, dark grey, tight, hard.
175	177	0	-	No recovery, probably in sand.
180	182	0.4	-	Sand, medium to coarse, some fine gravel, trace silt, may be wash.
185	187	0.4	-	Sand, fine, white, some medium.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-2D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
190	192	0.5	-	Sand, same as above.
195	197	0.4	-	Gravel, medium to coarse.
200	202	0.4	-	Same as above.
205	207	0.6	-	Same as above, gravel coarser

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING/WELL: GM-3D PROJECT NO: NY1650RI03 PAGE: 1 of 4

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11-10-88 DRILLING COMPLETED: 12-9-88

TOTAL DEPTH DRILLED: 212 HOLE DIAMETER: 14/10 inches TYPE OF SAMPLE/ CORING DEVICE: Split-Barrel Core

LENGTH & DIAMETER OF CORING DEVICE: 2'/1.5" SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: 64.69 (X) SURVEYED ( ) ESTIMATED DATUM: Mean Sea Level

DRILLING FLUID USED: Bentonite Mud Slurry DRILLING METHOD: Hollow-Stem Auger/ Mud Rotary

DRILLING CONTRACTOR: John Mathes and Associates DRILLER: T. Marlo HELPER: C. Hitzelberger

PREPARED BY: T. Loukides HAMMER WEIGHT: 200 lb HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
0	3	grab		Sand, fine, and silt, dark brown.
3	5	1.5	5-3-4-4	Sand, fine, and silt, dark brown, dry.
8	10	1.7	4-5-12-13	Silty sand, orange/brown; minor small gravel and medium brown sand at base.
13	15	1.3	7-7-10-9	Silty clay, orange/red to brown; grades to silty sand, red/brown to olive/brown.
18	20	1.3	3-5-7-9	Sand, fine, and silt, with clayey matrix, all varicolored.
23	25	1.5	4-5-7-8	Sand, fine, and silt, with clayey matrix all vari-colored, with minor medium sand.
28	30	2.0	3-8-9-7	Clay, gray, sharp contact with sand, fine to medium orange/white; contact with small gravel and coarse sand, orange/brown.
33	35	1.5	11-12-18-10	Sand, medium, light brown; grades to sand, medium to coarse, orange/brown.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-3D PREPARED BY: T. Loukides PAGE: 2 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE)		CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
FROM	TO			
38	40	1.4		Sand, medium to coarse, orange/brown.
43	45	0.7		Sand, fine to medium, orange/tan.
48	50	1.0		Sand, fine, trace medium, white to orange/brown.
53	55	0.8		Sand, fine, trace medium, white to orange/white.
58	60	1.0		Sand, fine to medium, orange/brown to tan.
63	65	1.1		Sand, fine, white/tan to light gray.
68	70	1.2		Sand, fine, white/tan to light gray.
73	75	1.6		Silty, sand, gray/brown; grades to sand, fine to medium,
				light brown.
78	80	0.6		Sand, medium, trace coarse, tan; wet at base; odor.
83	85	1.1		Silty clay, gray; trace medium to coarse tan sand, odor.
88	90	2.0		Sand, medium, gray, saturated; odor.
93	95	1.8		Sand, coarse, gray; minor small gravel.
103	105	0.6		Sand, medium to coarse, tan.
108	110	1.9		Clay, gray, tight, dry.
113	115	0.2		Sand, medium, white to tan.
118	120	0.4		Sand, fine to medium, orange/brown.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-3D PREPARED BY: T. Loukides PAGE: 3 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
123	125	0.5		Sand, medium to coarse, orange/brown.
128	130	0.6		Sand, fine, white/gray.
133	135	1.0		Clay, gray, with brown staining, tight, dry.
138	140	0.7		Silty clay, gray; trace fine sand.
140	142	1.2		Clay and very fine sand, gray to tan, some orange
				mottling.
142	144	1.4		Clay, tan/gray, and trace very fine sand; two-inch seam
				of silt, gray near base.
147	149	1.1		Silty clay, gray, some orange staining, minor seams of
				very fine sand and silty, gray.
152	154	0.1		Sand, fine, and silt, gray to tan.
157	159	0.2		Sand, fine, and silt, gray.
162	164	0.5		Sand, medium, trace fine, gray.
167	169	0.6		Silty clay, gray, with minor fine sand.
172	174	0.8		Sand, medium, tan, minor orange staining.
177	179	0.2		Sand, fine to medium, tan; minor small gravel and gray
				clay.
182	184	0.3		Sand, medium, gray to tan.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-3D PREPARED BY: T. Loukides PAGE: 4 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
187	189	0.8		Sand, fine to medium, gray with orange stianing; trace
				clay, gray.
192	194	0.5		Sand, medium, tan to gray/brown.
197	199	0.4		Sand, medium, yellow/orange to tan; sharp contact with
				clay, tan, tight.
202	204	0.5		Sand, fine, gray, with minor black mottling; trace clay,
				gray at top.
				Total depth of borehole 212 ft below land surface.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING/WELL: GM-4D PROJECT NO: NY1650RI03 PAGE: 1 of 4

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 10-28-88 DRILLING COMPLETED: 11-10-88

TOTAL DEPTH DRILLED: 192 ft. HOLE DIAMETER: 14/10 inches TYPE OF SAMPLE/ CORING DEVICE: Split-Barrel Core

LENGTH & DIAMETER OF CORING DEVICE: 2'/1.5" SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: 59.60 (X) SURVEYED ( ) ESTIMATED DATUM: Mean Sea Level

DRILLING FLUID USED: Bentonite Mud Slurry DRILLING METHOD: Mud Rotary

DRILLING CONTRACTOR: John Mathes and Associates DRILLER: E. Clark HELPER: K. Bunselmeyer

PREPARED BY: T. Loukides HAMMER WEIGHT: Air HAMMER DROP: 90 psi

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
0	5	grab		Silt and sand, medium to fine, red/brown.
5	7	1.3	9-8-10-	Silty sand, brown to olive green.
			12	
10	12	1.6	8-7-8-6	Sand, fine, tan, with trace clay, red/brown.
15	17	1.1	1-10-8-5	Sand, fine, trace medium, brown.
20	22	1.2	12-10-8-	Silty clay, tan to brown, tight; trace fine to medium
			14	sand.
25	27	0.4	17-11-	Sand, medium to coarse, varicolored.
			14-10	
30	32	1.2	10-11-	Clay, gray/white, sharp contact with sand, medium,
			44-28	varicolored; grades again to clay, gray, with minor fine
				sand.
				No sample at 35 ft.
40	42	1.1		Sand, medium, orange/red to white.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-4D PREPARED BY: T. Loukides PAGE: 2 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
45	47	0.8		Sand, fine to medium, tan to white.
50	52	0.7		Sand, fine to medium, tan to white, some gray.
55	57	2.0		Clay, gray, very tight, grades to brown and then dark
				brown; chunks of lignite.
60	62	2.0		Clay, gray, very tight, grades to brown and then dark
				brown; chunks of lignite, some orange staining.
65	67	1.3	21-35-	Silt and very fine sand, gray; minor orange staining;
			44-45	plug of gray clay at top.
70	72	1.6	13-22-	Sand, fine, gray to white.
			20-32	
75	77	1.6	12-42	Sand, fine, gray to white.
			48-56	
80	82	2.0	13-21-	Sand, very fine, and clay, gray; orange and black
			16-16	mottling.
90	92	1.5	14-22-	Sand, medium to coarse, stained orange/red; minor small
			18-32	to medium rounded gravel, gray with yellow mottling; wet
95	97	1.6	20-35-	Sand, fine to medium, gray to dark gray with yellow/
			40-47	orange mottling.
100	102	1.7	27-34-	Sand, medium to coarse, varicolored.
			38-39	
105	107	1.3	13-15-	Sand, coarse, yellow to tan, sharp contact with clay and
			21-47	fine sand, gray.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-4D PREPARED BY: T. Loukides PAGE: 3 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE)		CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
FROM	TO			
110	112	1.7	12-15-	Sand, medium to coarse, gray with orange/yellow stain;
			29-22	and sand, gray.
115	117	1.6	21-35-	Sand, medium to coarse, gray with orange/yellow stain;
			60-42	trace gray silty clay.
120	122	1.3	21-19-	Sand, medium to coarse, gray with orange/yellow stain;
			33-32	trace gray silty clay.
125	127	1.2	18-22-	Sand, very coarse, orange-stained; trace small gravel.
			21-33	
130	132	1.8	18-24-	Sand, medium to coarse, yellow/orange staining; trace
			32-34	small gravel.
135	137	2.0	8-20-40-	Sand, coarse and small gravel, varicolored; grades to
			90	silty clay, gray.
137	139	1.2	6-13-24-	Clay, gray, tight; grades to silty sand, gray, then
			34	back to clay, gray, tight.
139	141	0.8	12-24-	Sand, very fine, gray; wet and dry seams.
			20-33	
145	147	0.7		Clay, gray, sharp contact with sand, fine, white at base
150	152	0.9		Sand, medium to coarse, white to orange; seam of clay,
				dark gray at base.
155	157	1.2		Clay, gray, tight; interspersed fine sand.
160	162	0.4		Sand, fine to medium, white.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: GM-4D PREPARED BY: T. Loukides PAGE: 4 of 4

SAMPLE DEPTH (FT BELOW LAND SURFACE)		CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
FROM	TO			
165	167	1.8		Silty sand and clay, gray to white.
170	172	1.2		Sand, medium, gray; trace gravelly clay.
175	177	1.0		Sand, medium, orange/yellow - stained.
180	182	1.1		Sand, medium, orange/yellow - stained, trace coarse sand
185	187	0.5		Sand, medium, orange and black laminations near base.
190	192	0.3		Sand, medium to coarse, varicolored.

GERAGHTY & MILLER, INC.
Ground-Water Consultants

SAMPLE/CORE LOG

Boring/Well GM-5D Project/No. Swope / NY24803 Page 1 of 4

Site Location Pennsauken, N.J. Drilling Started 8/22/89 Drilling Completed 9/7/89

Total Depth Drilled 197 feet Hole Diameter 4 inches Type of Sample/Coring Device Split spoon

Length and Diameter of Coring Device 2 ft x 2 in. Sampling Interval every 5 feet

Land-Surface Elev. 53.29 feet ☒ Surveyed ☐ Estimated Datum Mean sea level

Drilling Fluid Used Mud (bentonite) Drilling Method mud rotary

Drilling Contractor Environmental Drilling, Inc. Driller Scott Helper Kevin

Prepared By Neil Benowitz Hammer Weight 140 lbs Hammer Drop 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	1.2	No blow counts taken	Sand, fine, some medium, some silt and clay, some gravel, dark brown, moist.
10	12	1.0	-	Sand, fine, some silt and clay, dark brown to light brown, moist.
15	17	0.8	-	Clay, silty, orange/brown.
20	22	0.5	-	Sand and gravel, medium to coarse, brown.
25	27	0.4	-	Sand, medium, well sorted, orange brown.
30	32	0	-	No recovery, wash in spoon.
35	37	0	-	No recovery.
40	42	1.2	-	Top 4 inches sand, medium to fine, orange/brown; rest of sample clay, grey to white, hard, tight.

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Southprint 87-1718

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-5D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
45	47	0	-	No recovery, still in clay.
50	52	0	-	No recovery, in gravel.
55	57	0.3	-	Sand, orange/brown, coarse to medium.
60	62	0.3	-	Sand, brown/tan, coarse to medium.
65	67	0	-	No recovery, wash is gravel.
70	72	0.6	-	Clay, grey, silty, very tight.
75	77	0.6	-	Clay, silty, trace fine sand, grey, tight.
80	82	0	-	No recovery, probably gravel/coarse sand.
85	87	0	-	No recovery, probably gravel/coarse sand.
90	92	0.3	-	Sand, medium, some gravel, very tight
95	102	-	-	No sample attempted; gravel in wash.
105	107	0.2	-	Silty-clay, white, tight.

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SAMPLE/CORE LOG (Cont'd)

Boring/Well GM-5D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
110	112	0	-	No recovery
115	117	0.3	-	Sand, coarse, white, well sorted.
120	122	0.2	-	Sand, coarse, light orange/brown.
125	127	0	-	No recovery, gravel wash.
130	132	0.6	-	Top 4 inches grey hard clay, bottom 2 inches sand, coarse, brown.
135	137	-	-	No sample attempted; sand/gravel; gravel wash
140	142	0.4	-	Silty/sand, grey, trace clay.
145	147	-	-	No sample attempted; sand/gravel; gravel wash
150	152	0.2	-	Sand, coarse, brown, some gravel.
155	157	-	-	No sample attempted; sand/gravel; gravel wash
160	162	0.8	-	Clay, hard, grey

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-5D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
170	172	0.2	-	Sand, coarse gravel wash.
175	177	0	-	No recovery, gravel wash.
180	182	0.3	-	Sand and gravel, medium to coarse.
185	187	0.3	-	Sand and gravel wash.
190	192	0.3		Sand, coarse to medium, may be wash.
195	197	0.3		Sand and gravel wash.

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Ground-Water Consultants

SAMPLE/CORE LOG

Boring/Well GM-6D Project/No. Swope / NY24803 Page 1 of 5

Site Location Pennsauken, N.J. Drilling Started 7/11/89 Drilling Completed 8/3/89

Total Depth Drilled 203 feet Hole Diameter 4 inches Type of Sample/Coring Device split spoon

Length and Diameter of Coring Device 2Ft x 2in. Sampling Interval every 5 feet

Land-Surface Elev. 62.1 feet ☒ Surveyed ☐ Estimated Datum mean sea level

Drilling Fluid Used Mud (bentonite) Drilling Method mud rotary

Drilling Contractor John Mathes and Associates, Inc. Driller Dermit Helper Jim

Prepared By Neil Benowitz Hammer Weight 160 Hammer Drop 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0	8	-	-	(Cuttings) Sand and gravel, medium to course sand, brown, some cobbles, dry.
8	10	1.2	blow counts not taken	Silty-clay, some fine sand, grey/brown, red in spots, moist, tight.
13	15	1.8	-	Silty clay and silty sand bands, grey, brown and red, moist, tight.
18	20	1.6	-	Sand, fine, some silt, brown, tight, slight olive/green hue, moist.
23	25	1.8	-	Clay, grey, trace silt and fine sand, firm, moist.
28	30	1.3	-	Sand, some silt, brown on bottom, grey-slightly olive/green on top, moist.
33	35	0.6	-	Gravel and cobble fragments, sand, coarse, towards end, wet.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-6D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
38	40	0.1	-	same as above.
43	45	0	-	No recovery (probably gravel)
48	50	0.5	-	Gravel, wet.
53	55	1.0	-	Clay, grey, some sand, fine, grey, dry.
58	60	0.5	-	Sand, silty, fine, grey, moist
63	65	0.6	-	Same as above
68	70	0.5	-	Sand, coarse, brown, some grey clay bands, 1/2 inch, wet
73	75	0.3	-	Sand and gravel, coarse, some grey sand, medium to fine on bottom.
78	80	0.6	-	Sand and gravel, coarse, brown, wet
83	85	0	-	No recovery.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-6D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
88	90	0	-	No recovery
93	95	0.6	-	Gravel, some clay, grey, wet.
98	100	0.5	-	Gravel, probably wash.
103	105	0.7	-	Clay, silty, grey, moist.
108	110	1.6	-	Clay, grey, tight, trace gravel, moist.
113	115	0.7	-	Sand, medium to coarse, light brown, some fine gravel, wet.
118	120	0.6	-	Sand, coarse, some fine gravel, tight, light brown, some grey clay.
123	125	0	-	No recovery (probably sand).
128	130	0.3	-	Sand, fine, grey, moist.
133	135	0.5	-	Clay, grey, trace fine sand, hard, dry.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-6D

Prepared By Neil Berowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
136	138	1.2	-	Clay, grey to light brown, tight, compact, dry.
143	145	0.6	-	Top 3 inches Clay, grey, then sand, silty, fine grey, wet.
148	150	0.4	-	Sand, grey, some silt and sand.
153	155	0.8	-	Clay, grey, tight.
158	160	0.8	-	Silty clay and sand, dark grey, tight, dry in spots, hard, lignite throughout.
163	165	0.9	-	Lignite, black, soft, flaky; some grey clay at bottom.
168	170	0.6	-	Sand, fine, grey, some black, well sorted.
173	175	0.4	-	Sand, fine to medium, grey.
178	180	0.6	-	Same as above, getting coarser.
183	185	0.3	-	Sand, medium to coarse, some gravel, trace silt and clay.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-6D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
188	190	0.8	-	Sand and gravel, course, grey.
193	195	0.4	-	Gravel, coarse, some silty sand.
198	200	0.6	-	Same as above.

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SAMPLE/CORE LOG

Boring/Well GM-7D Project/No. Swope / NY24803 Page 1 of 4

Site Location Pennsauken, N.J. Drilling Started 10/24/89 Drilling Completed 11/21/89

Total Depth Drilled 202 feet Hole Diameter 4 inches Type of Sample/Coring Device split spoon

Length and Diameter of Coring Device 2ft x 2 in. Sampling Interval every 5 feet

Land-Surface Elev. 64.9 feet ☒ Surveyed ☐ Estimated Datum mean sea level

Drilling Fluid Used mud (bentonite) Drilling Method mud rotary

Drilling Contractor Environmental Drilling, Inc. Driller Scott Helper Kevin

Prepared By Neil Benowitz Hammer Weight 140 lbs Hammer Drop 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	1.6	9-13-20-24	Sand, fine to medium on top, coarse to gravel on bottom, brown, moist.
10	12	0.8	20-28-32-36	Sand and gravel, sand - coarse to fine, gravel - medium to coarse, moist.
15	17	0.8	6-9-15-16	Silty clay on top, red/brown, bottom 2 in. brown clay, moist.
20	22	1.6	15-18-20-25	Silty sand, fine, brown to red/brown, slightly green towards end, silty brown clay in tip, moist.
25	27	1.7	15-18-18-22	Silty sand, trace clay, brown to orange/brown, moist.
30	32	1.5	10-18-50/2"	Silty clay, trace sand, brown to orange/brown, some grey, moist.

G&M Form 03 6-86

Southprint 87-1718

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-7D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
35	37	0.6	16-25-50/2"	Clay, grey, tight, some fine grey sand towards end, moist.
40	42	0	50/2"	No recovery.
45	47	0.4	45-50/2"	Sand, medium to coarse, grey/white, coarser towards bottom, moist.
50	52	0.2	50/3"	Sand, medium, well sorted, tight, tan, moist.
55	57	0	50/3"	No recovery.
60	62	0	50/2"	No recovery, in gravel.
65	67	-	-	No sample attempted; gravel.
70	72	0	50/3"	No recovery, in gravel.
75	77	-	-	No sample attempted; gravel.
80	82	0	100/3	No recovery, in gravel.
85	110	-	-	No sample attempted; in gravel to coarse sand, cuttings get finer with depth.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-70

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
110	112	0.2	10 - 100/3"	Mostly wash, some sand and gravel, coarse sand, fine gravel.
115	130	-	-	No sample attempted; coarse sand, some gravel.
130	132	0.2	26 - 100/3"	Sand, coarse, white to tan.
135	137	-	-	No sample attempted coarse sand, some gravel.
140	142	1.6	17 - 34 - 40 - 50/3"	Clay, grey, tight, dry.
145	147	1.0	22 - 100/3"	Sand, silty, fine, white, tight.
150	152	1.2	27 - 50/3"	Clay, very hard, tight, white-grey.
160	162	0.3	100/4"	Sand, coarse, some gravel, tight tan to white, dense, poorly sorted.
165	167	1.2	37 - 75 - 100/3"	Clay, grey, stiff; 1/4 inch band of lignite at approximately 165.3 ft bls.
170	172	0.9	52 - 100/4"	Clay, grey grading into light tan at approximately 170.3 ft bls, stiff.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-7D

Prepared By Neil Behowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
175	177	0.2	100/3"	Sand, medium to course, some clay, light tan/white, dense, poorly sorted.
180	182	-	-	No sample attempted; gravel.
185	187	0.2	100/3"	Sand, fine to medium, some clay, trace silt, tan, poorly sorted, dense.
190	192	-	-	No sample attempted; gravel.
195	197	0.2	100/3"	Sand, fine to medium, some gravel, trace silt, tan, poorly sorted, dense.
200	202	0.3	100/5"	Sand, fine to medium, silt and clay, light tan, moderately sorted, dense.

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SAMPLE/CORE LOG

Boring/Well GM-8D Project/No. Swope / NYC4803 Page 1 of 4

Site Location Pennsauken, N.J. Drilling Started 12/11/89 Drilling Completed 1/3/90

Total Depth Drilled 227 feet Hole Diameter 4 inches Type of Sample/Coring Device split spoon

Length and Diameter of Coring Device 2 ft x 2 inches Sampling Interval every 5 feet

Land-Surface Elev. 71.1 feet ☒ Surveyed ☐ Estimated Datum mean sea level

Drilling Fluid Used mud (bentonite) Drilling Method mud rotary

Drilling Contractor Environmental Drilling, Inc. Driller Scott Helper Jack / Rob

Prepared By Neil Benowitz Hammer Weight 140 lbs Hammer Drop 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	0.9	15-8-5-5	Sand, medium to coarse, some gravel and silty-clay, orange/brown, wet.
10	12	1.6	15-7-15-42	Top 6 inches Clay, grey, then Sand, medium, orange/brown, moist.
15	17	0.4	50/5"	Sand, medium, orange/brown, moist.
20	22	0.5	50/5"	Top 3 inches Sand, medium to fine, orange/brown, then 2 inches Sand, medium, white, moist.
25	27	0.2	50/5"	Sand, medium, light brown, dry.
30	32	0.6	20-50/5"	Sand, fine, trace medium, light brown, top 1 inch gravel, medium to coarse, dry.
35	37	0.5	25-50/3"	Sand, medium, some coarse, light brown, dry.
40	42	0.2	5-50/4"	Sand, medium to fine, light brown, dry.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-8D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
45	47	0.6	18-31-50/3"	Top 2 inches sand and gravel, orange brown, medium to coarse; then 1 inch grey clay, then sand, fine, grey, dry.
50	52	0.6	15-28-50/2	Sand, silty, trace clay, grey tight, dry.
55	57	0.8	12-44-50/4"	Clay, grey, trace silt, tight, dense, hard, dry.
60	62	1.0	28-50/5	Same as above.
65	67	0.2	50/3"	Sand, fine, some medium, light brown, dry.
70	72	0.2	50/4"	Sand, medium, grey/light brown, wet.
75	77	0.2	50/4"	Sand, medium to fine, grey/brown to orange/brown, wet.
80	82	0.15	50/5"	Sand, coarse to medium, light brown, wet.
85	87	0.5	45-50/3"	Sand, clay and gravel, sand, coarse, orange/brown, clay is silty, orange/brown, hard.
90	92	0.3	50/5"	Clay, some silt and gravel, grey.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-80

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
95	97	0.6	3-5-7-5	Gravel, course.
100	117	-	-	No samples attempted; gravel.
120	122	0.2	25-50/3"	wash, gravel, course, white, some sand.
125	127	0	50/3"	wash, gravel.
130	132	0.1	50/5"	wash, gravel; Sand, fine, grey, intip.
135	140	-	-	Hit clay at 134 ft bls, can't get gravel washed out of borehole, drill to 140 ft bls and take sample.
140	142	0.5	50/6"	Clay, silty, grey, some fine sand.
143	151	-	-	No samples attempted; gravel and coarse sand.
151	153	0.7	40-50/3"	Clay, grey, tight.
157	159	0.5	50/5"	Same as above.
165	167	1.0	39-59 50/4"	Top 7 inches clay, grey, soft, some silt; then 2 inches silty-sand, grey; then 1 inch gravel.
170	172	0	50/5"	Wash, course gravel.

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SAMPLE/CORE LOG (Cont.d)

Boring/Well GM-8D

Prepared By Neil Benowitz

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
175	200	-	-	No samples taken, weather very cold - ice forms on rods making it unsafe to sample
200	230	-	-	No samples take, Environmental Drilling, Inc. only has enough rods to sample to 200 ft bls.

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SAMPLE/CORE LOG

BORING: B-1 PROJECT NO: NY1650RI03 PAGE: 1 of 3

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/16/88 DRILLING COMPLETED: 11/29/88

TOTAL DEPTH DRILLED: 86 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Jake HELPER: Bill

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.6	1-2-2-3	Sand, brown, medium to fine, moist.
4	6	1.4	1-1-2-1	Sand, fine, brown to tan, moist.
6	8	1.2	1-1-2-2	Sand, some silt, fine, brown at top, olive green (glauconitic) towards bottom, moist.
8	10	1.7	3-2-2-4	Sand, some silt, fine, brown at top, olive green (glauconitic) towards bottom, moist.
10	12	1.6	6-5-6-6	Sand and silt, olive green (glauconitic) to brown, some brown/red rock fragments towards bottom, moist.
14	16	1.5	3-4-6-8	Sand and silt, fine, dark olive green, (glauconitic) trace clay, white, dry.
19	21	1.2	4-5-6-7	Sand and silt, fine, trace clay, brown to olive brown, some red/brown, dry.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-1 PREPARED BY: N. Benowitz PAGE: 2 of 3

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
24	26	1.2	4-4-6-8	Sand and silt and clay, brown to red/brown, dry.
29	31	1.3	5-11-16-27	Sand and gravel and fractured rock fragments, brown/red, dry.
34	36	1.4	20-50/6	Sand, medium to fine, brown to tan, dry.
39	41	0.6	75-75/2	Sand, coarse, some medium, some pebbles, brown to tan, dry.
44	46	2.0	22-35-32-38	Sand and silt, fine, grey, moist in spots, odor.
49	51	1.8	11-32-38-44	Clay, some fine sand and silt, compact, firm dry.
54	56	0.8	73-75/5	Sand, fine, white, some brown, dry.
59	61	0.9	75-100/5	Same.
64	66	1.1	38-60-50/2	Sand, medium, brown to orange/brown, some tan, dry.
69	71	2.0	28-32-44-70	Sand and gravel, sand coarse, gravel fine, orange/brown to white at bottom, dry.
74	76	2.0	6-12-28-40	Sand and silt and clay, sand coarse to medium, grey/brown towards bottom, moist in spots.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-1 PREPARED BY: N. Benowitz PAGE: 3 of 3

SAMPLE DEPTH (FT BELOW LAND SURFACE)		CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
FROM	TO			
79	81	2.0	38-37-	Sand and silty-clay, top 1/2 sand, medium, white to
			22-8	orange/brown, then silty-clay grey to dark grey in
				spots, odor, dry.
84	86	2.0	75-52-	Clay, grey, firm, dry, bottom 2 in. sand fine,
			38-60	orange/brown, saturated.

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SAMPLE/CORE LOG

BORING: B-2 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 12/7/88 DRILLING COMPLETED: 12/8/88

TOTAL DEPTH DRILLED: 81 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Kelvin HELPER: Bill

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	2.0	5-5-5-5	Sand, fine, brown, moist, well sorted, loose.
4	6	2.0	2-3-2-2	Top 4 in. same as above, then silty-sand, fine, trace clay, grey/brown, moist.
6	8	1.8	2-4-8-16	Silty-sand, trace clay, fine, brown, moist to wet in spots.
8	10	2.0	10-12-29-39	Top 1.5 ft. silty-sand, fine some medium, brown, then silty-sand, trace clay, fine medium, and pebbles, medium, coarse, dry.
10	12	1.3	10-12-28-8	Silty-sand, fine, some medium, brown, trace clay, some pebbles, medium, and broken rock throughout.
14	16	2.0	18-20-28-10	Clay and some silty-sand zones, brown to orange brown on bottom, moist in spots.
19	21	1.2	27-31-40-50	Sand, fine, some medium, brown/white, some pebbles and rock fragments stuck in end.
24	26	1.3	17-25-11-8	Sand and pebbles, medium to coarse, brown; last 4 in. clay, grey, hard, dry.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-2 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
29	31	0.8	44-50/4	Sand, fine, white/grey, dry.
34	36	0.6	31-50/3	Sand, medium, some fine, brown, dry.
39	41	0.5	50/55	Top half, sand, coarse, and pebbles coarse, tan,
				moist, some clay, then sand, fine, brown/orange.
44	46	0.3	44/4	Sand, fine, lightorange/brown, dry.
49	51	2.0	16-20-	Sand, coarse, some medium and fine, light brown on top
			46-29	orange/brown in bottom few inches, dry.
54	56	2.0	11-14-	Clay, silty, some fine sand, in spots, grey, dry.
			16-19	
59	61	2.0	18-16-	Clay, some silty-sand in spots, grey to brown, some
			16-30	black, moist in sand, clay dry.
64	66	2.0	16-18-	Clay, grey, firm, saturated.
			22-30	
69	71	1.6	28-48	Clay, grey/brown, hard, dry, some sand, coarse, black/
			50/3	brown in end.
74	76	2.0	18-26-	Clay and silty-sand, grey, brown in spots, mostly dry.
			32-15	
79	81	0.9	22-50/4	Sand, medium to coarse, light tan/grey, saturated.

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SAMPLE/CORE LOG

BORING: B-3 PROJECT NO: NY1650RI03 PAGE: 1 of 3

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/15/88 DRILLING COMPLETED: 11/15/88

TOTAL DEPTH DRILLED: 86 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: None DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Greg HELPER: Bill

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.8	2-2-2-1	Sand, fine, some silt, brown, moist to saturated, last 3 in. silty clay, chocolate brown, dry.
4	6	1.7	5-7-3-5	Silty-clay, some fine sand, chocolate brown, some olive green (glauconitic) throughout, dry.
6	8	1.9	2-4-5-6	Same, more olive green (glaucontic), dry.
8	10	2.0	2-5-7-6	Silty-clay, mostly olive-green (glauconitic); bottom of sample - 2 in. clay, brown, then 2 in. sand, medium-fine, orange/brown, dry.
10	12	1.2	3-3-6-6	Top 4 in. sand, medium-fine, orange/brown; next 8 in. sand and silt, fine, olive green (glauconitic), dry, odor.
14	16	1.6	3-3-6-7	Sand and silt, fine, olive-brown (glauconitic), some clay in center of sample, dry.
19	21	1.1	5-6-8-7	Sand, fine, medium, some silt, orange brown and olive green (glauconitic), dry.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-3 PREPARED BY: N. Benowitz PAGE: 2 of 3

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
24	26	1.4	1-4-8-9	Sand and silt and clay, fine, brown-olive-green
				(glauconitic), dry
29	31	2.0	5-6-8-7	Sand, fine, olive green (glauconitic), at top; then
				clay, brown-olive-green (glauconitic), all saturated.
34	36	1.2	5-15-	Sand and peblles and fractured rock, sand medium-
				coarse, some fine, brown dry.
39	41	2.0	3-11-27-	Top 6 in. clay, orange-grey, tight; then sand grey,
				orange-brown, mdeium, some coarse, all dry.
44	46	1.0	20-50/55	Sand, fine, tan towards top, white towards bottom, dry.
49	51	1.3	8-18-33-	Clay, very firm, compact, grey, some rust, dry brittle.
			40	
54	56	1.4	10-27-	Same.
			50/5	
59	61	1.0	20-50/5	Sand, fine, some silt, some clay layers, line tight,
				grey, dry.
64	66	1.9	15-34-	Sand, medium to coarse, orange/brown to grey in bottom
			13-11	half, dry.
69	71	2.0	15-35-	Sand, medium to fine, tan-white, dry.
			48-40	
74	76	1.3	27-36-	Sand, medium to coarse, grey/white, some peblles, dry.
			50/5	

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-3 PREPARED BY: N. Benowitz PAGE: 3 of 3

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
79	81	1.2	21-54-	Sand, fine some medium, grey/white, dry.
			50/5	
84	86	2.0	14-13-	Sand, fine to medium, light brown/white, saturated.
			46-66	

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SAMPLE/CORE LOG

BORING: B-4 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/8/88 DRILLING COMPLETED: 11/9/88

TOTAL DEPTH DRILLED: 86 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Greg HELPER: Dan

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.3	3-4-3-3	Sand, fine, brown, dry.
4	6	1.4	3-5-6-6	Same.
6	8	1.4	6-6-5-7	Same, some silt.
8	10	1.2	4-4-4-5	Top 4 in. silty-sand, fine-medium some small pebbles, brown; then silty-sand, fine, olive green (glauconitic) moist, odor.
10	12	2.0	5-8-8-5	Silty-sand, some clay, olive green (glauconitic), sludge like, odor, moist to saturated.
14	16	1.2	1-2-5-7	Silty-sand, fine, olive-green (glauconitic), moist, odor
19	21	1.6	4-6-7-8	Top 6 in. silty-sand, medium-fine, and some clay brown; then sand and gravel, medium-coarse, white and brown, dry.
24	26	1.2	2-4-6-6	Sand, fine, some clay in end, olive green (glauconitic) brown, moist to wet.
29	31	1.6	4-8-6-2	Sand, medium-coarse, some fine, red/brown, saturated.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-4 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
34	36	1.2	14-6-10-	2 in. zones of: fine, brown, sand, then broken up
			12	cobbles, then white, medium sand, then white, clay,
				then brown/red, sand, medium, then white, medium sand,
				all dry.
39	41	1.3	34-57-	Sand, fine to medium, light brown, some white and
			50/3	orange/brown sand towards end, cobbles in tip.
44	46	1.9	4-11-15-	Sand, fine, light pink, white towards bottom.
			24	
49	51	1.8	10-24-	Clay, white, very hard, firm, dry, trace silt.
			31-50	
54	56	1.5	10-40-	Sand, fine, white, dry.
			31-50	
59	61	1.9	50-50-	Sand, medium, some fine, rust-brown to orange/brown,
			50-50/5	bottom sand, medium, white to light-brown, all dry.
64	66	1.8	17-39-	Sand, medium to fine, top 1/2 white; bottom 1/2 sand,
			50/5	medium, orange-brown, all dry.
69	71	1.9	13-30-	Sand, medium, some fine, brown to orange/brown, some
			38-50/5	white, dry.
74	76	0.8	35-50/3	Same.
79	81	2.0	19-30-	Sand, coarse, some medium and fine towards bottom, top
			59-58-	half brown, bottom half white, dry.
84	86	1.8	24-50-	Clay and saturated sand layers, clay-tight, grey and
			45-100	dry, sand medium to fine, grey/white, saturated.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING: B-5 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 12/2/88 DRILLING COMPLETED: 12/6/88

TOTAL DEPTH DRILLED: 79 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Jake HELPER: Bill

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs. HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.9	6-6-5-4	Sand and silt, fire, some medium brown, some green
				(glauconitic), staining on top, moist.
4	6	2.0	3-3-2-3	Sand and silt top 3 in., brown to orange brown and
				green, then clay, orange/brown and green, soft, dry.
6	8	2.0	6-10-6-	Sand, silt and clay, brown/red brown, fine, dry.
			10	
8	10	2.0	4-3-12-	Silt and sand, fine, brown to red brown, some
			4	orange brown; dry
10	12	2.0	3-10-7-	Same.
			15	
14	16	2.0	8-14-14-	Top 1 ft sand and silt, fine, brown to orange brown,
			10	then rest silty-clay, brown to orange brown, some fine
				sand in end, dry.
19	21	2.0	18-22-	Silty-sand, fine, olive-green (glauconitic) to brown,
			14-17	dry to moist.
24	26	0.7	35-50/2	Sand and gravel, medium to coarse, brown, some fine

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-5 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
				gravel, moist.
29	31	1.3	29-33-	Sand, medium, some fine and coarse, moist.
			42-68	
34	36	1.4	6-17-	Top 1 ft clay, silty some fine sand, grey, then, sand,
			50/5	medium, some fine, orange/tan, all dry.
39	41	0.7	44-50/2	Sand, medium-fine, light orange/tan dry.
44	46	2.0	21-27-	Sand and silt and clay, fine to medium, white/grey,
			32-46	moist in spots.
49	51	1.2	57-42-	Sand, medium-fine, some coarse, light tan, moist in
			50/3	in spots.
54	56	0.6	85/6	Sand, fine, some medium, white dry.
59	61	0.7	26-50/3	Sand, coarse, some medium, tan, moist in spots.
64	66	0.6	55/6	Sand, fine, white/grey, dry.
69	71	0.7	60-55/6	Sand, medium, white/grey, moist.
74	76	0.9	72-60/5	Same.
77	79	2.0	10-18-	Sand and silt, clay in spots, fine to medium, some
			13-8	coarse, pebbles, fine, grey, saturated.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING: B-6 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/30/88 DRILLING COMPLETED: 12/1/88

TOTAL DEPTH DRILLED: 76 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A ( ) SURVEYED ( ) ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Jake HELPER: Bill

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.2	6-6-8-3	Sand, medium to fine, brown, clay on bottom, odor,
				saturated.
4	6	1.6	3-3-5-8	Sand, medium - fine, brown, green (glauconitic) towards
				bottom, wet.
6	8	1.9	2-2-3-1	Silt and sand, medium - fine, brown, some green,
				(glauconitic), dry to moist.
8	10	1.8	2-2-5-8	Same, moist.
10	12	1.9	3-5-8-10	Silty-sandy-clay, brown, some green, (glauconitic),
				saturated.
14	16	2.0	3-2-6-10	Sand and clay layers brown to orange/brown, some green
				(glauconitic), medium - fine, moist to wet.
19	21	1.6	8-4-6-9	Sand and silt and clay layer, 2-5 in., medium - fine,
				some coarse sand, orange-brown, saturated.
24	26	1.2	28-36-	Sand, medium - fine, orange brown, wet.
			46-44	

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-6 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
29	31	1.2	6-7-4-8	Clay, grey soft, sand at bottom, brown to black wet.
34	36	1.0	28-36-	Top half sand, coarse-medium, finer with depth; bottom
			60/5	half silty-clay, grey some fine sand, all dry.
39	41	0.8	47-75/2	Sand, white, fine, dry.
44	45	0.6	49/50/2	Sand, white, medium - fine, dry.
49	51	1.3	16-28-	Sand, fine, grey, then grey clay, and compact, dry.
			50/5	
54	56	2.0	12-23-	Clay, hard, compact, light grey, dry.
			19-30	
59	61	0.6	40-50/3	Sand, fine, white and brown, dry.
64	66	1.2	20-30-	Sand and fine gravel, sand medium to coarse, brown to
			36-68	orange brown, grey hard clay on bottom 6 in., all dry.
69	71	1.1	20-16-	Silty-clay, sand towards bottom, grey, slightly moist.
			10-15	
74	76	0.3	8-10-14-	Sand, medium, to coarse, light brown to white,
			12	saturated.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING: B-7 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 10/26/88 DRILLING COMPLETED: 11/5/88

TOTAL DEPTH DRILLED: 81 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft. x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Jake HELPER: Bill

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.6	3-9-10-10	Top 2 in. silty-clay, dark brown, then sand, medium to fine, olive-brown, some silt and small gravel, slighty moist.
4	6	1.7	2-7-7-8	Silty-sand, fine, brown to dark brown, black towards botton, some small gravel, dry.
6	8	1.8	5-5-6-6	Top half sand, fine-very fine, brown/black, bottom half cream/brown, dry.
8	10	1.4	3-2-2-4	Sand, fine, some silt, brown to dark brown, silty with trace gravel towards bottom, dry.
14	16	1.9	4-10-12-13	Sand, fine, some medium, brown-light brown, trace red, dry.
19	21	2.0	5-7-15-15	Silty sand, olive-brown, some red; bottom 2 in. silty clay, red/brown, all dry.
24	26	1.8	7-15-42-36	Top half clay, red to olive brown, firm; bottom half sand and gravel medium to coarse, red/brown, large cobble, dry.

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SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-7 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
29	31	1.5	21-27-	Sand, medium, coarse, some fine, brown, cobbles and
			36-37	pebbles and broken rock fragments, dry.
34	36	2.0	7-13-10-	Sand, fine, some medium, some pebbles, coarse orange/
			11	brown, dry, loose.
39	41	1.2	12-72-	Sand, medium to fine, some coarse, some fine pebbles
			75/4	and cobbles and broken rock fragments, dry.
44	46	1.1	22-80-	Sand medium, light cream, some orange/brown sand at
			35/1	top, dry.
49	51	1.9	24-62-	Sand, medium, some fine, mostly white/light tan, some
			60-60	red sand zones, dry.
54	56	1.9	13-55-	Silty-clay, light grey, very tight and hard, dry.
			52-51	
59.5	61.5	2.0	12-15-	Silty-clay, light grey, some fine sand, some brown,
			26-34	hard, tight, slightly soft in areas.
64	66	1.4	14-42-	Sand, medium, some fine, grey, some orange/red zones,
			84/6	bottom 3 in. clay-silty, firm, some fine sand, moist.
69	71	1.8	32-25-	Sand, medium, well sorted, white, moist in spots.
			22-37	
74	76	1.8	26-70-	Sand, medium and coarse, some fine, white, some pebbles
			80-54/6	fine dry.
79	81	1.5	16-32-	Sand, medium and coarse, and fine, white, wet at top,
			54/6	saturated towards bottom.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING: B-8 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/4/88 DRILLING COMPLETED: 11/4/88

TOTAL DEPTH DRILLED: 86 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A { } SURVEYED { } ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Greg HELPER: Keith

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.3	1-1-1-2	Top 6 in. top soil, brown sand, rest sludge,
				black/gray, odor, moist.
4	6	2.0	1-3-8-9	Top 8 in. sludge, black, moist to dry; sand on bottom,
				brown to black, medium to coarse, some fine, dry.
6	8	2.0	3-3-5-4	Top 6 in. sand, medium to fine, some coarse, black to
				brown, sand finer with depth, last 8 in. sand, fine,
				some medium brown.
8	10	2.0	2-2-3-3	Sand, medium to fine, brown to orange, dry.
10	12	2.0	3-1-2-4	Same as above, silty with depth.
14	16	2.0	10-18-	Sand, medium to fine, brown to olive brown, some silt,
			17-14	silty with depth, silty-clay in tip, dry.
19	21	1.4	5-8-10-	Sand, fine to medium, some silt and silty clay layers,
			10	orange-brown, and olive-brown, dry.
24	26	1.9	1-3-4-9	Clay, some silt, brown to orange-brown, some grey, sand
				at bottom 2 in., medium to coarse, orange/brown, dry
				in sand, clay moist.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-8 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
29	31	1.7	8-27-24-	Sand, fine, some medium, light brown, last few inches
			13	orange/brown sand, dry.
34	36	1.8	17-36-	Sand, medium, red-brown to orange brown, light brown
			27-16	towards bottom, dry.
39	41	1.9	5-11-12-	Clay and sand layers, about 3 in. each. Sand,
			16	coarse, brown to pink/white; clay, grey, silty, some
				fine sand, all dry.
44	46	1.4	27-48-	Sand, fine, some medium, white dry.
			50/2	
49	51	2.0	20-40-	Sand, medium, some coarse, white to orange-white, dry.
			50-35	
54	56	2.0	11-22-	Sand, coarse, brown and orange/brown, moist to wet,
			28-24	then clay, very hard, firm, grey, some silt, dry.
59	61	2.0	8-10-16-	Clay, firm to soft in some places, charcoal/grey, dry.
			21	
64	66	1.7	8-17-34-	Clay, silty in areas, grey, hard, dry; bottom 3 in.
			50/3	sand, fine, grey, dry.
69	71	1.8	27-55-	Sand, fine, white, tight, dry.
			60/5	
74	76	0.5	13-72/0	Sand, fine, white, some orange/brown streaks, dry.
79	81	0.5	15-48/0	Sand, medium, some fine and coarse, white, dry.
84	86	2.0	13-47-	Sand, coarse and medium, finer with depth, white,
			90-45	saturated.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING: B-9 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/7/88 DRILLING COMPLETED: 11/7/88

TOTAL DEPTH DRILLED: 86 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A ( ) SURVEYED ( ) ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow-stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Greg HELPER: Dan

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.6	2-2-2-3	Sludge, black, dry to moist; silt and sand at top,
				black/brown, dry.
4	6	1.2	1-2-3-5	Sludge, black, dry; bottom 2 in. sand, medium to fine,
				and silt, brown, dry.
6	8	1.6	3-4-5-6	Sand, medium to fine, brown to light brown, dry.
8	10	2.0	2-3-3-2	Top half sand, fine, some medium, light brown, dry;
				then silty-clay, some fine sand, orange/brown, moist.
10	12	1.3	2-3-3-3	Sand, fine, orange/brown, dry.
14	16	1.2	2-5-8-8	Sand,fine, and silty clay, orange/brown, firm in
				places, dry.
19	21	2.0	2-5-6-8	Sand, medium-fine, some coarse, orange/brown to olive-
				green (glauconitic), dry.
24	26	1.0	12-5-5-5	Silty-sandy-clay, medium to fine sand, olive brown, dry.
29	31	1.4	9-16-19-	Sand and pebbles, sand medium to coarse, orange/brown,
			21	dry.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-9 PREPARED BY: N. Benowitz PAGE: 2 of 2

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
34	36	1.7	3-8-14-	Top half same as above, bottom half sand, medium-coarse
			18	white, dry.
39	41	1.2	7-4-10-5	Top 6 in. sand, medium, dark brown-red to light brown,
				then 3 in clay, grey, black at bottom, then 3 in. sand,
				grey/white, medium, all dry.
44	46	1.6	4-10-38-	Sand, medium, some fine, grey-white, some grey clay,
			56/3	dry.
49	51	1.4	30-41-	Sand, medium, orange/white, dry.
			51/4	
54	56	1.4	8-32-38-	Sand, medium, white, dry.
			38	
59	61	2.0	3-8-16	Clay, grey, dry, moist on top, hard, firm.
64	66	1.4	12-32-	Clay, silty, grey, some fine sand with depth, tight,
			50/4	dry.
69	71	0.9	33-54/5	Sand, fine, white, some silt, dry.
74	76	1.2	25-75-	Sand, coarse to fine, white, some pink and light brown,
				dry.
79	81	1.3	24-40	Same as above.
			50/5	
84	86	2.0	17-32-	Sand, coarse to medium, white, saturated.
			41-28	

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG

BORING: B-10 PROJECT NO: NY1650RI03 PAGE: 1 of 2

SITE LOCATION: Pennsauken, NJ DRILLING STARTED: 11/3/88 DRILLING COMPLETED: 11/3/88

TOTAL DEPTH DRILLED: 81 ft HOLE DIAMETER: 8 inches TYPE OF SAMPLE/ CORING DEVICE: Split spoon

LENGTH & DIAMETER OF CORING DEVICE: 2 ft x 2 in. SAMPLING INTERVAL: 5 feet

LAND-SURFACE ELEVATION: N/A ( ) SURVEYED ( ) ESTIMATED DATUM: N/A

DRILLING FLUID USED: none DRILLING METHOD: Hollow stem auger

DRILLING CONTRACTOR: John Mathes & Associates, Inc. DRILLER: Greg HELPER: Dan

PREPARED BY: N. Benowitz HAMMER WEIGHT: 140 lbs HAMMER DROP: 30 inches

SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
2	4	1.4	17-40-15	Top 6 in. sand, coarse to fine, dark brown, some pebbles, some black; then sand, fine, dry.
4	6	1.7	4-4-4-3	Sand, fine to medium, brown, dry.
6	8	1.5	3-2-3-4	Top 7 in. same as above; then silty sand and some clay, brown to grey, dry.
8	10	1.8	4-7-9-13	Sand, fine to medium brown, dry.
10	12	0.5	35-100/1	Same as above, dry.
				Refusal at 11 ft. bls; move B-10 5 ft. and continue at 14 ft bls.
14	16	1.6	3-5-6-6	Sand, medium to fine brown-dark brown, some red and olive, dry.
19	21	2.0	2-2-3-3	Clay, silty, brown, some red and black, moist.
24	26	1.2	3-17-12-23	Top 8 in. mixture of sand, silt, clay, pebbles and cobbles, brown, grey, olive, red, and black; rest sand, medium-fine, light tan, top moist, bottom dry.

GERAGHTY & MILLER, INC.

SAMPLE/CORE LOG (Cont.d)

BORING/WELL: B-10 PREPARED BY: N. Benowitz PAGE: 2 of 2

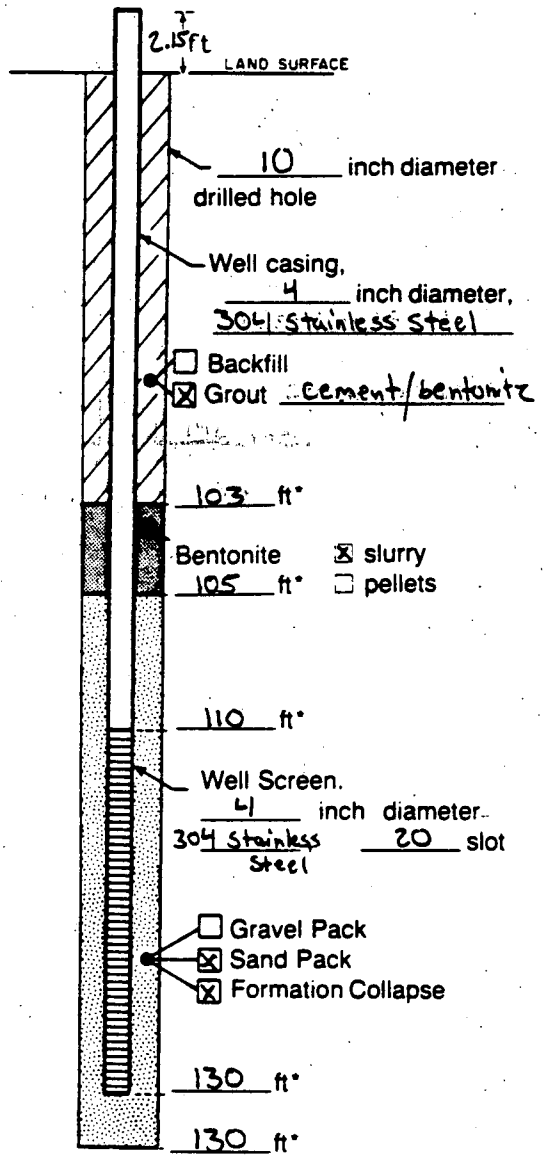
SAMPLE DEPTH (FT BELOW LAND SURFACE) FROM	TO	CORE RECVRY (FT)	BLOW COUNTS PER 6 INCHES	SAMPLE/CORE DESCRIPTION
29	31	1.4	11-26-	Sand coarse, small pebbles, brown, dry, some brown/grey
			50/2	clay, moist, at bottom.
34	36	1.6	18-35-	Top 5 in. sand, coarse, white, moist, then 3 in. of
			50/5	silty-clay, grey, dry, then 2 in. of sand, medium to
				fine, reddish/brown, dry; then rest sand, medium to
				fine, dry.
39	41	1.8	27-35-	Sand, medium to coarse, brown-orange, dry.
			43-32	
44	46	2.0	11-28-	Same as above.
			32-34	
49	51	1.7	12-20-	Top 8 in. same as above, then sand fine to medium,
			25-27	white, some silty clay, dry, some pebbles, trace small
				gravel.
54	56	1.9	6-7-11-	Silty clay, white, tight, dry, some sand, fine, moist
			11	in center, some sand, red, medium to fine at bottom.
59	61	2.0	10-12-	Clay, grey-white, tight, some silty, dry.
			16-23	
64	66	1.3	10-20-	Same as above, some sand, fine, orange-brown in bottom.
			30-35	
69	71	1.0	11-50/5	Sand, fine, some medium, orange/red, dry.
74	76	1.7	11-25-	Sand, fine, white, dry.
			46-50/3	
79	81	1.9	6-11-33-	Sand and silt, some clay zones, white/grey to orange/
			50/5	brown on bottom, medium - fine, some coarse, saturted.

APPENDIX C

Well Construction Logs/NJDEP Well Certification Forms A and B/
Well Abandonment Reports

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/NY24803 Well GM-1S
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29664-5
Land-Surface Elevation
and Datum 65.82 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 11/23/88
Drilling Method Hollow Stem Auger
Drilling Contractor John Mathes and Associates
Drilling Fluid None

Development Technique(s) and Date(s)
Submersible pump on 12/9/88

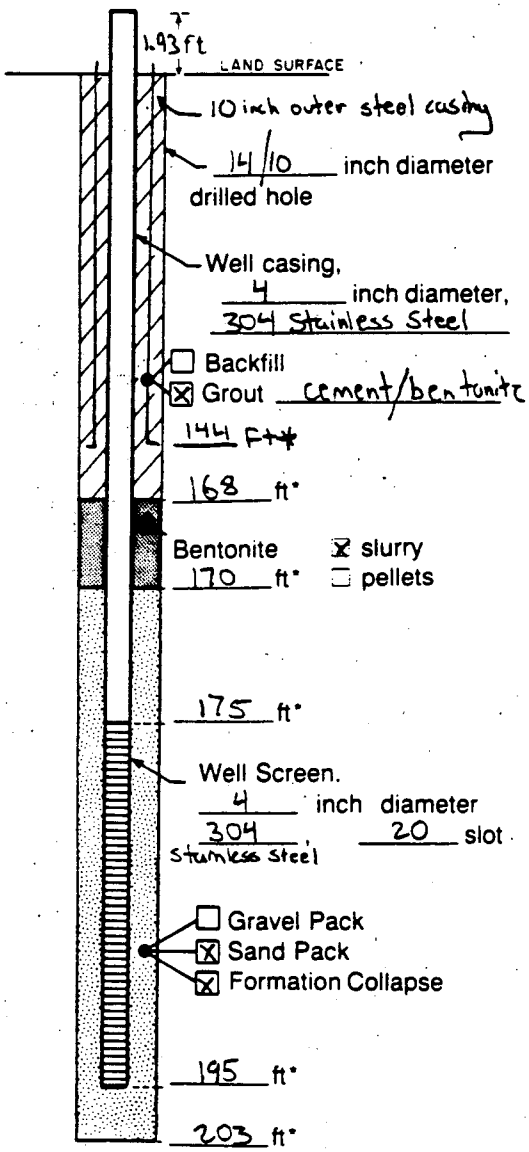
Fluid Loss During Drilling NA gallons
Water Removed During Development 450 gallons
Static Depth to Water 88.37 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 1/13/89
Specific Capacity NA gpm/ft
Well Purpose Shallow ground-water monitoring

Remarks Measuring point elevation: 67.97 Ft above mean sea level.

Prepared by T. Louhides

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope /NY24803 Well GM-1D
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29665-3
Land-Surface Elevation and Datum 66 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 12/14/88
Drilling Method Mud Rotary
Drilling Contractor John Mathes and Associates
Drilling Fluid bentonite mud slurry

Development Technique(s) and Date(s)
submersible pump on 12/27/88

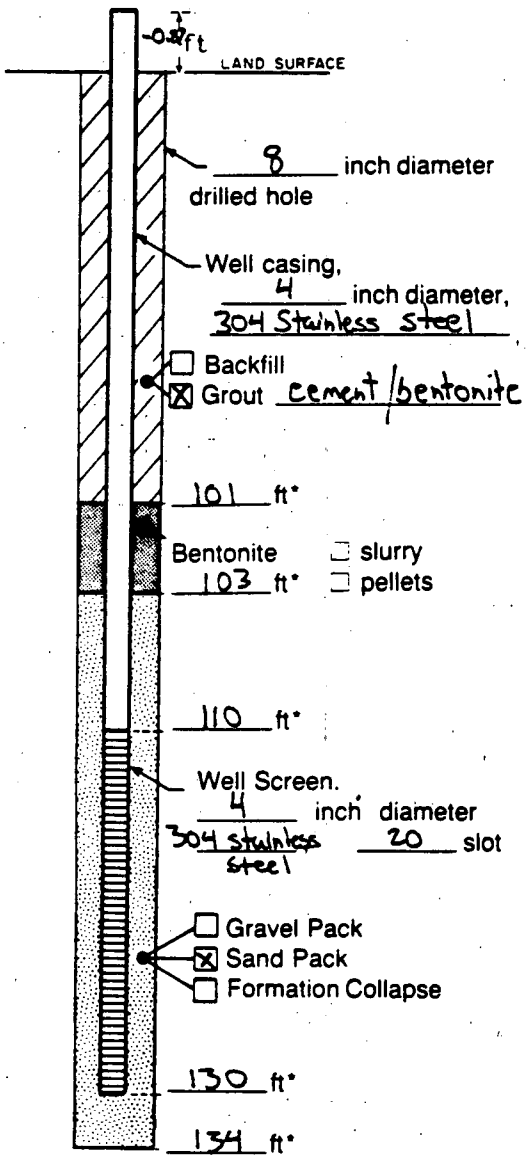
Fluid Loss During Drilling 600 gallons
Water Removed During Development 750 gallons
Static Depth to Water 88.85 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 1/13/89
Specific Capacity NA gpm/ft
Well Purpose Deep ground-water monitoring

Remarks Ten-inch steel casing set at 144 Feet below land Surface.
Measuring point elevation: 67.93 Ft above mean sea level.
GM-1D redeveloped on 9/11/89 and 9/12/89 by submersible pump, 1000 gallons of water removed.

Prepared by T. Loukides

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project: Swope/NY24803 Well: GM-2S
Town/City: Pennsauken
County: Camden State: New Jersey
Permit No.: 31-29668-8
Land-Surface Elevation and Datum: 61.38 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s): 7/28/89 - 8/2/89
Drilling Method: Hollow Stem Auger
Drilling Contractor: John Mathes and Associates, Inc
Drilling Fluid: None

Development Technique(s) and Date(s): submersible pump on 8/3/89

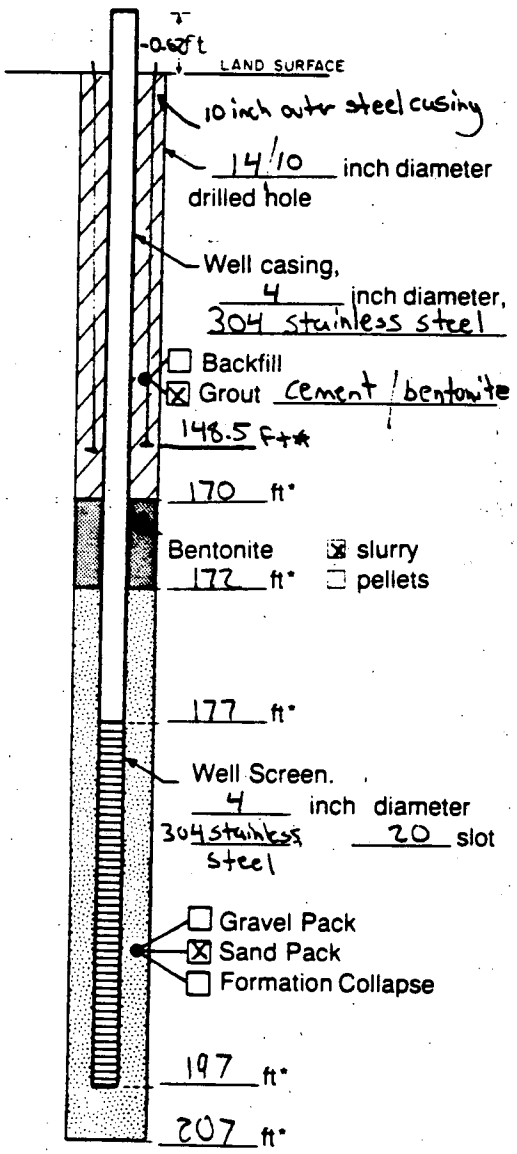
Fluid Loss During Drilling: None gallons
Water Removed During Development: 1650 gallons
Static Depth to Water: 79.58 feet below M.P.
Pumping Depth to Water: NA feet below M.P.
Pumping Duration: NA hours
Yield: NA gpm Date: 8/31/89
Specific Capacity: NA gpm/ft
Well Purpose: shallow ground-water monitoring

Remarks: Measuring point elevation: 60.51 Ft above mean sea level

Prepared by: Melissa Falch

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/NY24803 Well GM-2D
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29664-6
Land-Surface Elevation and Datum 61.42 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 8/4/89 - 8/21/89
Drilling Method Mud Rotary
Drilling Contractor Environmental Drilling Inc.
Drilling Fluid bentonite mud slurry

Development Technique(s) and Date(s)
Submersible pump on 8/28/89

Fluid Loss During Drilling NA gallons
Water Removed During Development 1256 gallons
Static Depth to Water 80.65 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 8/31/89
Specific Capacity NA gpm/ft
Well Purpose Deep ground-water monitoring

Remarks Ten inch steel casing set at 148.5 Ft below land surface.
Measuring point elevation: 60.80 Ft above mean sea level.
GM-2D redeveloped on 9/11/89 by submersible pump, 1090 gallons of water removed.

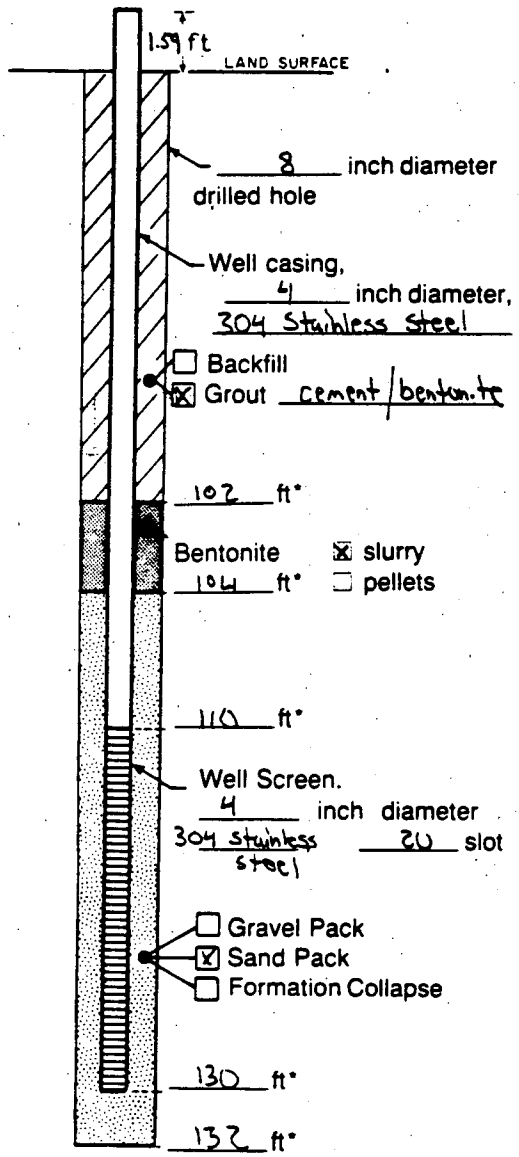
Prepared by Neil Bernstein

G&M Form 05 5-87

Scumpr m 87 1776

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Sunpe/NY24803 Well GM-3RS
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-32152-1
Land-Surface Elevation and Datum 64.70 feet above mean sea level ☐ Surveyed ☐ Estimated
Installation Date(s) 10/18/89 - 10/23/89
Drilling Method Mud rotary
Drilling Contractor Environmental Drilling, Inc.
Drilling Fluid bentonite mud slurry

Development Technique(s) and Date(s)
Submersible pump on 10/24/89 through 10/26/89

Fluid Loss During Drilling NA gallons
Water Removed During Development 810 gallons
Static Depth to Water 84.85 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 11/29/89
Specific Capacity NA gpm/ft
Well Purpose Shallow ground-water monitoring

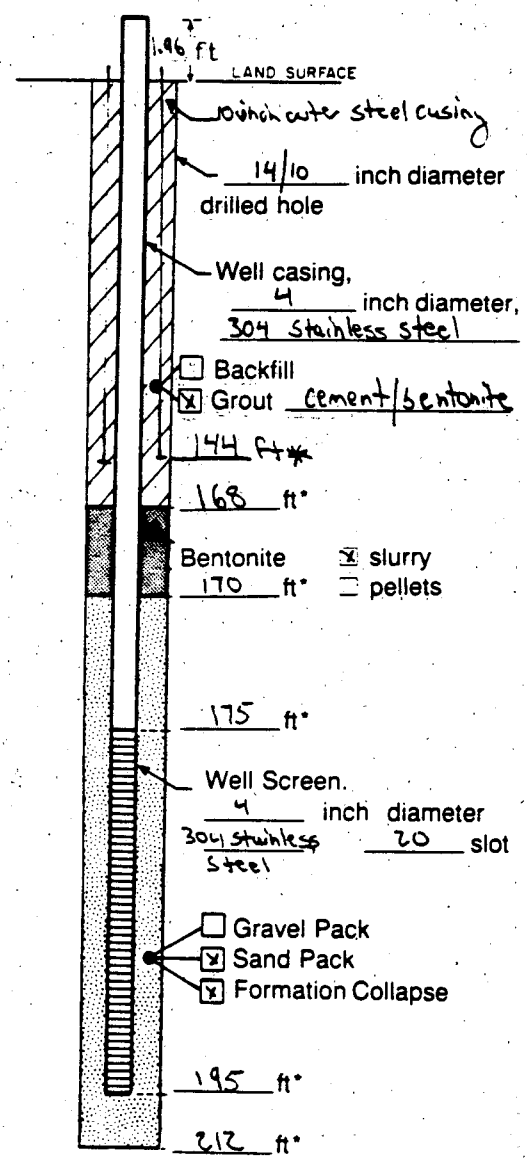
Remarks This monitoring well replaces monitoring well MW-5, which was damaged.

Measuring point elevation: 66.29 ft above mean sea level.

Prepared by Neil Benowitz

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope / NY24803 Well GM-3D
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29666-1
Land-Surface Elevation and Datum 64.69 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 12/[illegible]/88
Drilling Method Mud rotary
Drilling Contractor John Mathes and Associates
Drilling Fluid Bentonite Mud slurry

Development Technique(s) and Date(s)
Submersible pump on 12/21/88

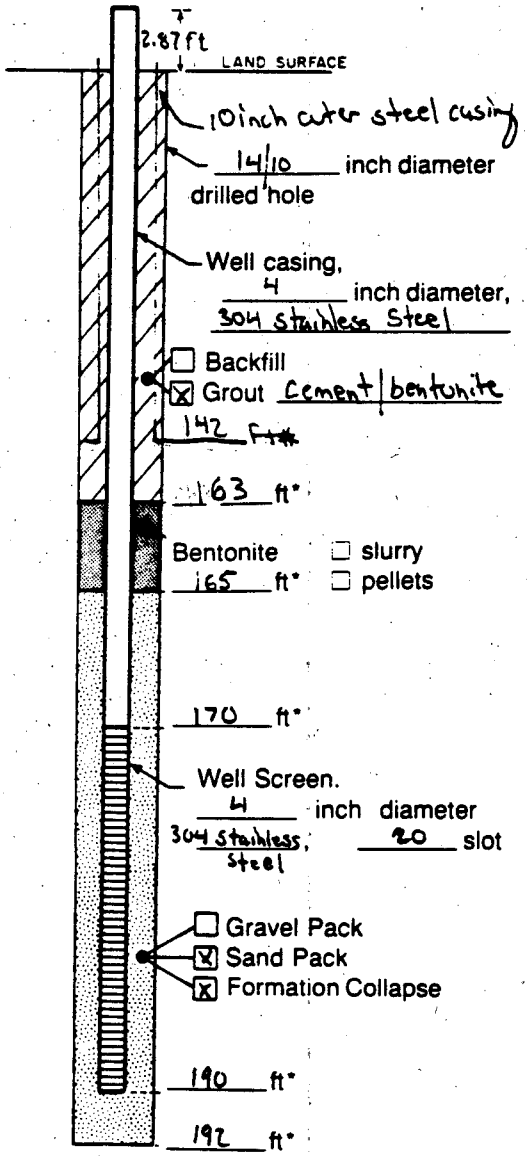
Fluid Loss During Drilling NA gallons
Water Removed During Development 750 gallons
Static Depth to Water 88.06 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 1/13/89
Specific Capacity NA gpm/ft
Well Purpose Deep ground-water monitoring

Remarks Ten inch steel casing set at 144ft below land surface.
Measuring point elevation: 66.65 ft above mean sea level.
GM-3D redeveloped on 9/12/89 and 9/13/89 by submersible pump, 415 gallons of water removed.

Prepared by Ted Loukides

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project: Swope / NY24803 Well: GM-4D
Town/City: Pennsauken
County: Camden State: New Jersey
Permit No. 31-29667-0
Land-Surface Elevation and Datum: 59.60 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s): 11/11/88
Drilling Method: Mud rotary
Drilling Contractor: John Mathes and Associates
Drilling Fluid: bentonite mud slurry

Development Technique(s) and Date(s)
Submersible pump on 11/21/88

Fluid Loss During Drilling _____ gallons
Water Removed During Development: 750 gallons
Static Depth to Water: 88.64 feet below M.P.
Pumping Depth to Water: NA feet below M.P.
Pumping Duration: NA hours
Yield: NA gpm Date: 1/13/89
Specific Capacity: NA gpm/ft
Well Purpose: Deep ground-water monitoring

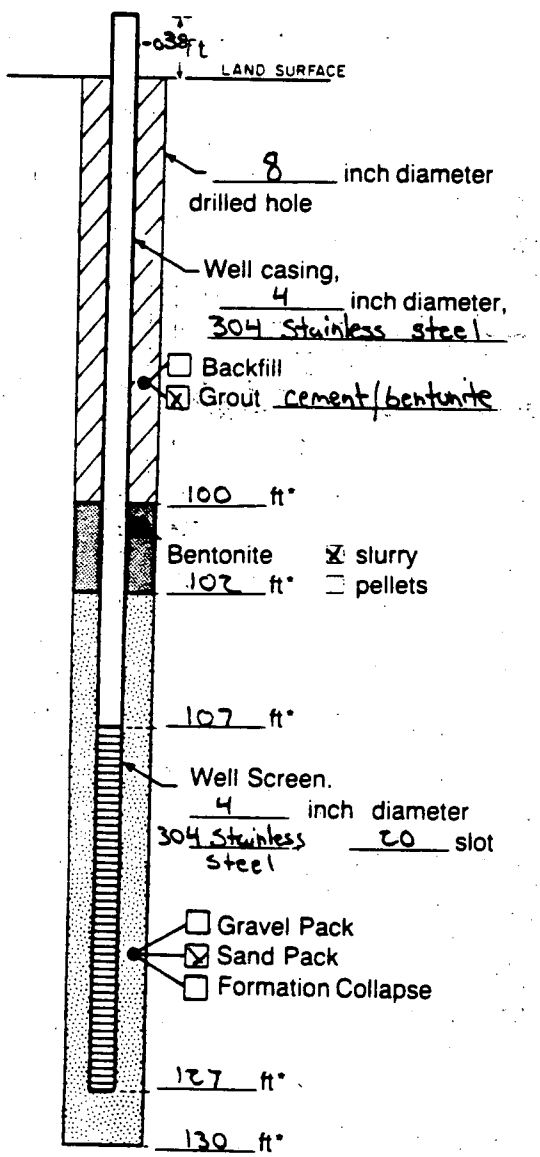
Remarks: Ten inch steel casing set at 142 Ft below land surface.

Measuring point elevation: 62.47 Ft above mean sea level

Prepared by: Ted Louhides

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/N1/24803 Well GM-55
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29670-0
Land-Surface Elevation and Datum 53.29 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 8/7/89 - 8/11/89
Drilling Method Hollow stem auger
Drilling Contractor John Mathes and Associates, Inc.
Drilling Fluid none

Development Technique(s) and Date(s)
Submersible pump on 8/10/89

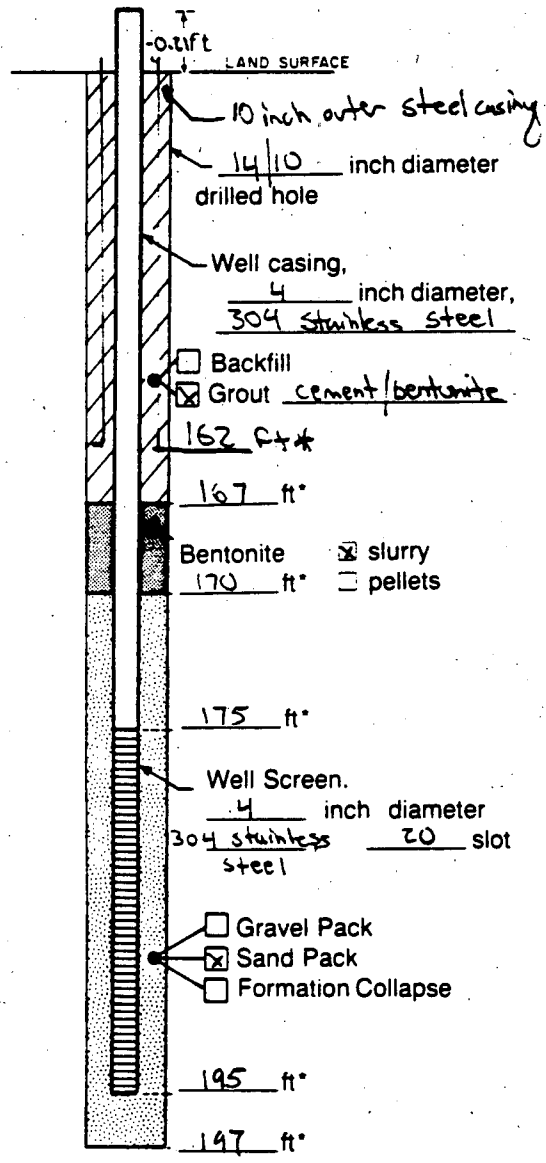
Fluid Loss During Drilling none gallons
Water Removed During Development 2000 gallons
Static Depth to Water 71.83 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 9/12/89
Specific Capacity NA gpm/ft
Well Purpose Shallow ground-water monitoring.

Remarks Measuring point elevation: 52.91 Ft above mean sea level.

Prepared by Melissa Falck

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope / NY24803 Well GM-5D
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-26971-8
Land-Surface Elevation and Datum 53.90 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 8/22/89 - 9/7/89
Drilling Method Mud rotary
Drilling Contractor Environmental Drilling Inc.
Drilling Fluid Bentonite mud slurry

Development Technique(s) and Date(s)
submersible pump on 9/8/89 and 9/11/89

Fluid Loss During Drilling NA gallons
Water Removed During Development 2,950 gallons
Static Depth to Water 73.13 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 9/12/89
Specific Capacity NA gpm/ft
Well Purpose Deep ground-water monitoring

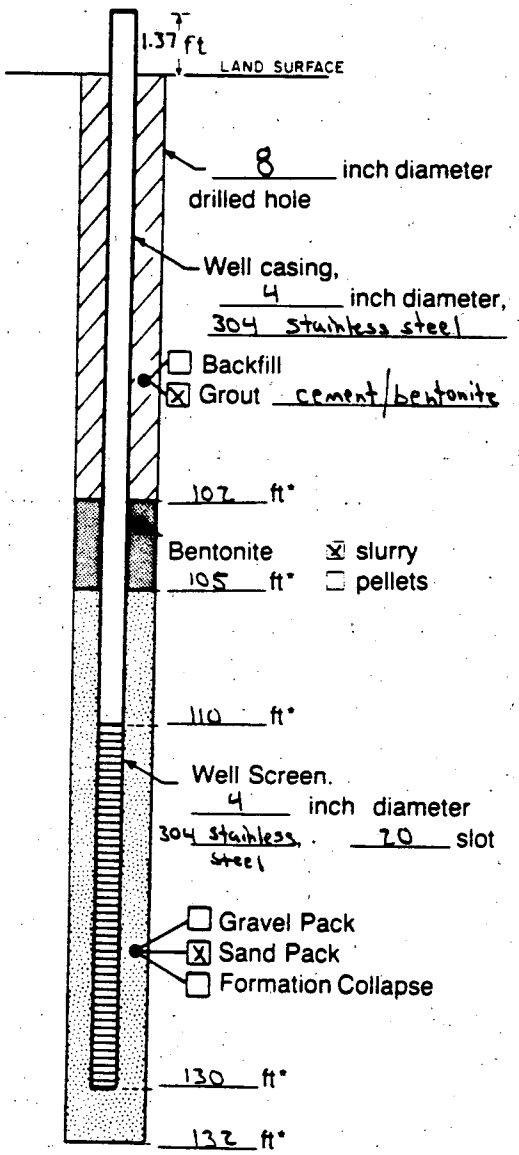
Remarks Ten-inch steel casing set at 162 Ft below land surface.

Measuring Point Elevation: 53.69 Ft above mean sea level

Prepared by Neil Benowitz

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/NY24803 Well GM-6S
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29672-6
Land-Surface Elevation and Datum 62.10 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 8/11/89 - 8/17/89
Drilling Method Hollow stem auger
Drilling Contractor John Mathes and Associates
Drilling Fluid None

Development Technique(s) and Date(s)
Submersible pump on 8/18/89

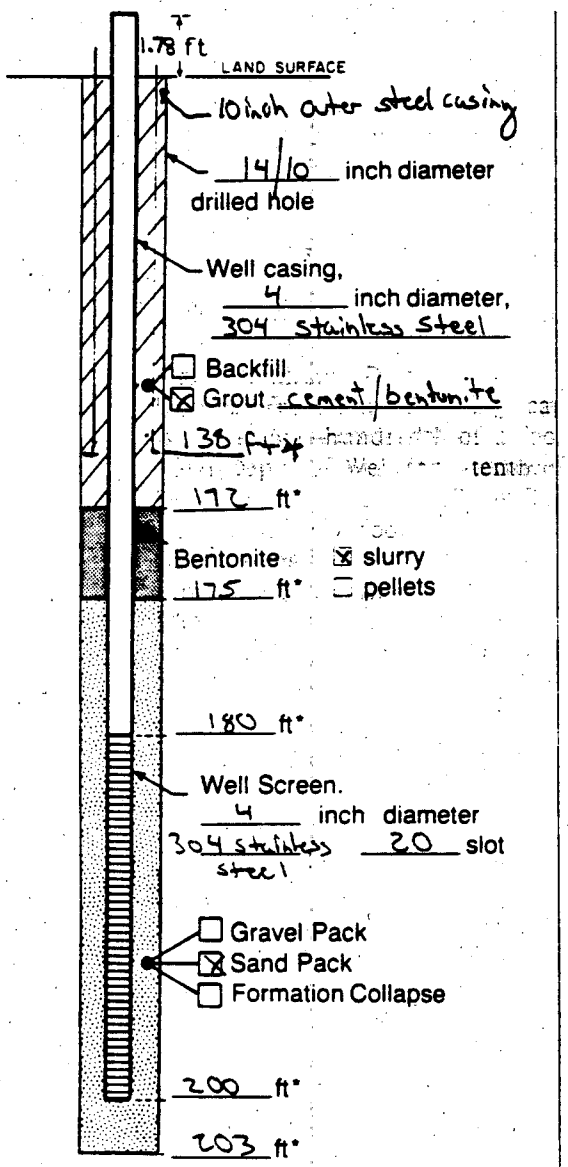
Fluid Loss During Drilling None gallons
Water Removed During Development 2400 gallons
Static Depth to Water 82.68 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 8/31/89
Specific Capacity NA gpm/ft
Well Purpose Shallow ground-water monitoring

Remarks Measuring point elevation: 63.47 Ft above mean sea level

Prepared by Neil Benowitz

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/NY24803 Well GM-6D
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-29673-4
Land-Surface Elevation and Datum 62.10 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 7/26/89 - 8/4/89
Drilling Method Mud rotary
Drilling Contractor John Mathes and Associates
Drilling Fluid Bentonite mud slurry

Development Technique(s) and Date(s)
submersible pump on 8/7/89 and 8/8/89

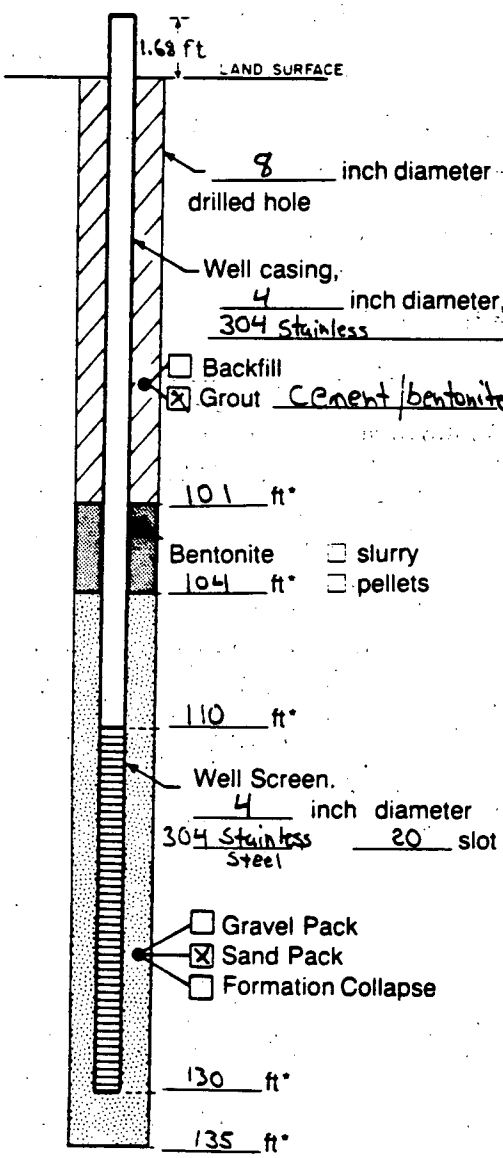
Fluid Loss During Drilling NA gallons
Water Removed During Development 3100 gallons
Static Depth to Water 84.00 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 8/31/89
Specific Capacity NA gpm/ft
Well Purpose Deep ground-water monitoring

Remarks Ten inch steel casing set at 138 ft below land surface. Measuring point elevation: 63.88 ft above mean sea level. GM-6D redeveloped on 9/13/89 by submersible pump, 675 gallons of water removed.

Prepared by Neil Benowitz

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/NY24803 Well GM-7S
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-32304-1
Land-Surface Elevation
and Datum 65.10 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 12/4/89 - 12/6/89
Drilling Method Mud rotary
Drilling Contractor Environmental Drilling Inc.
Drilling Fluid Bentonite mud slurry

Development Technique(s) and Date(s)
Submersible pump on 12/7/89 - 12/14/89

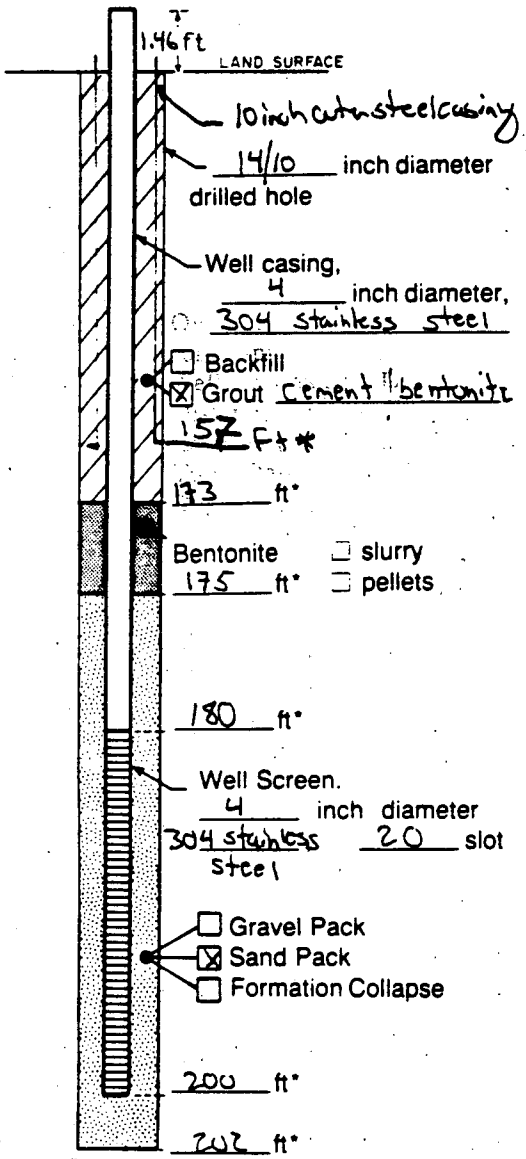
Fluid Loss During Drilling NA gallons
Water Removed During Development 700 gallons
Static Depth to Water 85.16 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 1/12/90
Specific Capacity NA gpm/ft
Well Purpose Shallow ground-water monitoring

Remarks Measuring point elevation: 66.78 above mean sea level.

Prepared by Neil Benowitz

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project: Sawpe/NY24803 Well: GM-7D
Town/City: Pennsauken
County: Camden State: New Jersey
Permit No.: 31-32305-7
Land-Surface Elevation and Datum: 64.90 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s): 11/9/89 - 11/28/89
Drilling Method: Mud Rotary
Drilling Contractor: Environmental Drilling Inc.
Drilling Fluid: Bentonite mud slurry

Development Technique(s) and Date(s): Submersible pump on 11/29/89

Fluid Loss During Drilling: NA gallons
Water Removed During Development: 3300 gallons
Static Depth to Water: 89.03 feet below M.P.
Pumping Depth to Water: NA feet below M.P.
Pumping Duration: NA hours
Yield: NA gpm Date: 1/12/90
Specific Capacity: NA gpm/ft
Well Purpose: Deep ground-water monitoring

Remarks: Ten-inch steel casing set at 157 Ft below land surface.
Measuring point elevation: 66.36 Ft above mean sea level.

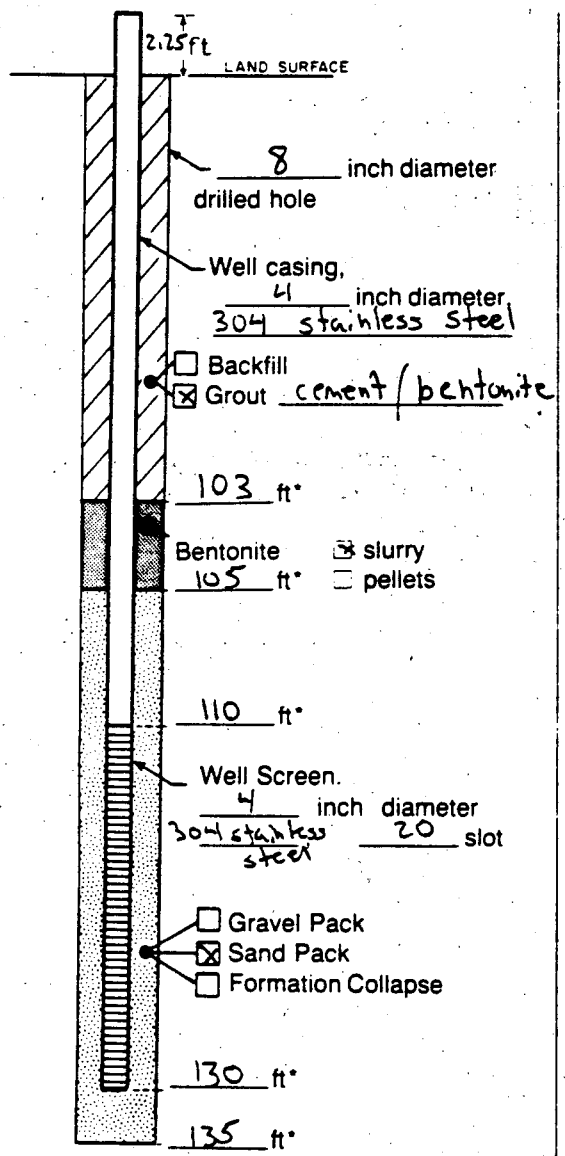
Prepared by: Neil Benowitz

G&M Form 05 5 87

Southern 87 1776

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope/NY24803 Well GM-8S
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-32304-9
Land-Surface Elevation and Datum 7600 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 1/4/90
Drilling Method Mud Rotary
Drilling Contractor Environmental Drilling Inc.
Drilling Fluid Bentonite mud slurry

Development Technique(s) and Date(s)
submersible pump on 1/9/90

Fluid Loss During Drilling NA gallons
Water Removed During Development 3150 gallons
Static Depth to Water 92.10 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 1/12/90
Specific Capacity NA gpm/ft
Well Purpose shallow groundwater monitoring

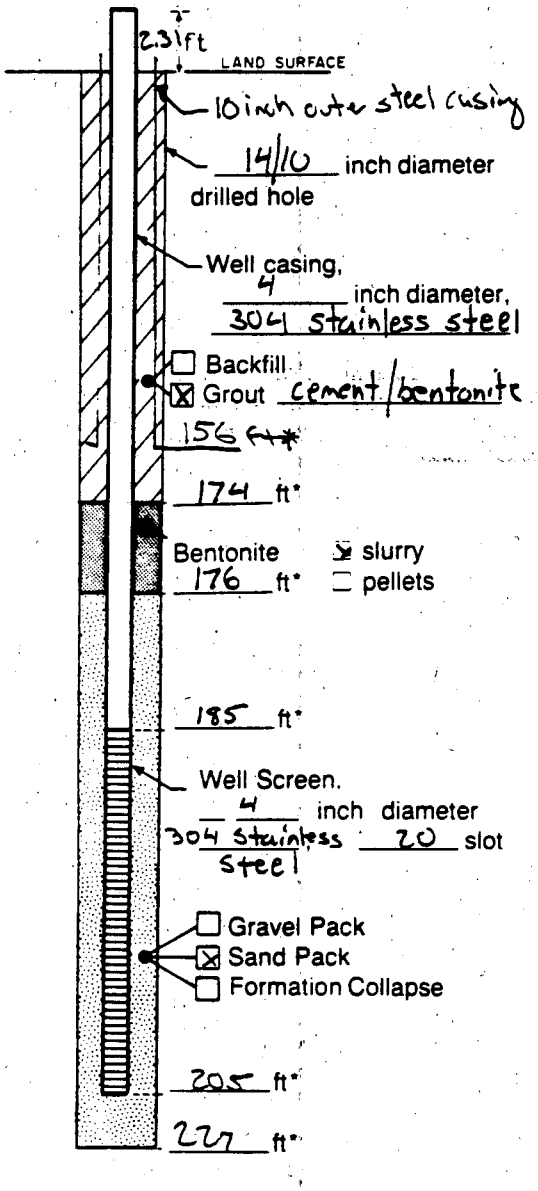
Remarks* Measuring point elevation 73.25 ft above mean sea level.

Prepared by Neil Benowitz

G&M Form 05 5-87 Southprint 87-1776

GERAGHTY & MILLER, INC.
Ground-Water Consultants

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Swope / NY24803 Well GM-8D
Town/City Pennsauken
County Camden State New Jersey
Permit No. 31-32306-5
Land-Surface Elevation and Datum 71.10 feet above mean sea level ☒ Surveyed ☐ Estimated
Installation Date(s) 12/11/89 - 1/5/90
Drilling Method Mud Rotary
Drilling Contractor Environmental Drilling Inc.
Drilling Fluid bentonite mudslurry

Development Technique(s) and Date(s)
submersible pump on 1/5/90 and 1/8/90

Fluid Loss During Drilling NA gallons
Water Removed During Development 3600 gallons
Static Depth to Water 94.04 feet below M.P.
Pumping Depth to Water NA feet below M.P.
Pumping Duration NA hours
Yield NA gpm Date 1/12/90
Specific Capacity NA gpm/ft
Well Purpose Deep ground-water monitoring

Remarks Ten-inch steel casing set at 156 Ft below land surface.

Measuring point elevation: 73.41 Ft above mean sea level.

Prepared by Neil Benowitz

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-29664-5
Owner's Well Number (As shown on the application or plans):	GM-1S
Well Completion Date:	11-23-88
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	2.15
Total Depth of Well (one-tenth of a foot):	130 ft bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	110 ft bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	88.37 on 1/13/89
Yield (Gallons per Minute):	4.0
Length of Time Well Pumped or Bailed:	1 hr. 53 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

Michael F. Wolfert
Professional Engineer's Name
(Please type or print)

SEAL

A.I.P.G. #4791
Professional Engineer's License #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-29665-3
Owner's Well Number (As shown on the application or plans):	GM-1D
Well Completion Date:	12-14-88
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.93
Total Depth of Well (one-tenth of a foot):	195.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	175.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	88.85 on 1-13-89
Yield (Gallons per Minute):	7.0
Length of Time Well Pumped or Bailed:	1 hr 47 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

Michael F. Wolfert
Professional Engineer's Name
(Please type or print)

SEAL

A.I.P.G. #4791
Professional Engineer's License #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-29668-8
Owner's Well Number (As shown on the application or plans):	GM-2S
Well Completion Date:	8-2-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	-0.87
Total Depth of Well (one-tenth of a foot):	130.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	110.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	79.58 on 8-31-89
Yield (Gallons per Minute):	6.0
Length of Time Well Pumped or Bailed:	4 hrs 35 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

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SEAL

A.I.P.G. #4791
Professional Engineer's License #

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-29669-6
Owner's Well Number (As shown on the application or plans):	GM-2D
Well Completion Date:	8-21-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	-0.62
Total Depth of Well (one-tenth of a foot):	197.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	177.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	80.65 on 8-31-89
Yield (Gallons per Minute):	8.0
Length of Time Well Pumped or Bailed:	3 hr. 45 minues
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

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Professional Engineer's License #

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	3 1-3 2 1 5 2-1
Owner's Well Number (As shown on the application or plans):	GM-3RS
Well Completion Date:	10-25-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.59
Total Depth of Well (one-tenth of a foot):	130.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	110.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	84.85 on 11-29-89
Yield (Gallons per Minute):	0.5
Length of Time Well Pumped or Bailed:	27 hours
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

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A.I.P.G. #4791
Professional Engineer's License #

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	3 1-2 9 6 6 6-1
Owner's Well Number (As shown on the application or plans):	GM-3D
Well Completion Date:	12-10-88
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.96
Total Depth of Well (one-tenth of a foot):	195.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	175.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	88.06 on 1-13-89
Yield (Gallons per Minute):	5.0
Length of Time Well Pumped or Bailed:	2 hrs. 30 minutes
Lithologic Log:	See Appendix B

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	3 1-2 9 6 6 7-0
Owner's Well Number (As shown on the application or plans):	GM-4D
Well Completion Date:	11-11-88
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	2.87
Total Depth of Well (one-tenth of a foot):	190.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	170.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	88.64 on 1-13-89
Yield (Gallons per Minute):	10
Length of Time Well Pumped or Bailed:	1 hr 15 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:

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A.I.P.G. #4791
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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-29670-0
Owner's Well Number (As shown on the application or plans):	GM-5S
Well Completion Date:	8-11-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	-0.38
Total Depth of Well (one-tenth of a foot):	127.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	107.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Stee.
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	71.83 on 9-12-89
Yield (Gallons per Minute):	4.5
Length of Time Well Pumped or Bailed:	7 hrs. 24 minutes
Lithologic Log:	See Appendix B

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I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-26971-8
Owner's Well Number (As shown on the application or plans):	GM-5D
Well Completion Date:	9-7-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	-0.21
Total Depth of Well (one-tenth of a foot):	195.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	175.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	73.13 on 9-12-89
Yield (Gallons per Minute):	8.0
Length of Time Well Pumped or Bailed:	6 hrs 9 minutes
Lithologic Log:	See Appendix B

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-29672-6
Owner's Well Number (As shown on the application or plans):	GM-6S
Well Completion Date:	8-17-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.37
Total Depth of Well (one-tenth of a foot):	130.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	110.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	82.68 on 8-31-89
Yield (Gallons per Minute):	4.5
Length of Time Well Pumped or Bailed:	8 hrs 53 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

Michael F. Wolfert
Professional Engineer's Name
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SEAL

A.I.P.G. #4791
Professional Engineer's License #

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	3 1-2 9 6 7 3-4
Owner's Well Number (As shown on the application or plans):	GM-6D
Well Completion Date:	8-4-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.78
Total Depth of Well (one-tenth of a foot):	200.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	180.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Stee.
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	84.00 on 8-31-89
Yield (Gallons per Minute):	8.0
Length of Time Well Pumped or Bailed:	6 hrs 28 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	3 1-3 2 3 0 4-1
Owner's Well Number (As shown on the application or plans):	GM-7S
Well Completion Date:	12-6-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.68
Total Depth of Well (one-tenth of a foot):	130.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)0.02	110.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	85.16 on 1-12-90
Yield (Gallons per Minute):	0.5
Length of Time Well Pumped or Bailed:	23 hrs 20 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-32305-7
Owner's Well Number (As shown on the application or plans):	GM-7D
Well Completion Date:	11-28-89
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	1.46
Total Depth of Well (one-tenth of a foot):	200.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	180.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	89.03 on 1-12-90
Yield (Gallons per Minute):	13.0
Length of Time Well Pumped or Bailed:	4 hrs 14 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-32304-9
Owner's Well Number (As shown on the application or plans):	GM-8S
Well Completion Date:	1-4-90
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	2.25
Total Depth of Well (one-tenth of a foot):	130.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	110.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	92.10 on 1-12-90
Yield (Gallons per Minute):	4.0
Length of Time Well Pumped or Bailed:	13 hrs. 8 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

Michael F. Wolfert
Professional Engineer's Name
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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Swope Cleanup Committee
Name of Facility: Swope Oil and Chemical Site
Location: Pennsauken, New Jersey

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	31-32306-5
Owner's Well Number (As shown on the application or plans):	GM-8D
Well Completion Date:	1-13-90
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);	2.31
Total Depth of Well (one-tenth of a foot):	205.0 bls
Depth to Top of Screen From Top of Casing (one-tenth of a foot)	185.0 bls
Screen Length (feet):	20
Screen or Slot Size:	0.02
Screen Material:	304 Stainless Steel
Casing Material: (PVC, Steel or Other-Specify):	304 Stainless Steel
Casing Diameter (Inches):	4
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	94.04 on 1-12-90
Yield (Gallons per Minute):	9.0
Length of Time Well Pumped or Bailed:	6 hr 40 minutes
Lithologic Log:	See Appendix B

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I belive the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

Professional Engineer's Signature

Michael F. Wolfert
Professional Engineer's Name
(Please type or print)

SEAL

A.I.P.G. #4791
Professional Engineer's License #

LEA REF. NO. 5876.4

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

NameofPermittee: Geraghty & Miller, Inc.
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ
NJPDES Number: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. __ __-__ __ __ __ __-__

Longitude (one-tenth of a second): West 75 02' 21.418"
Latitude (one-tenth of a second): North 39 59' 04.651"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 68.32
Owners Well Number (As shown on application or plans): GM-1S

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte 1-23-89
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ LICENSE NO. GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall notbeconsidered to be a major modification of the NJPDES permit.

LEA REF. NO. 5876.4

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

NameofPermittee: Geraghty & Miller, Inc.
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ
NJPDES Number: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. __ __-__ __ __ __ __-__

Longitude (one-tenth of a second): West 75 02' 21.274"
Latitude (one-tenth of a second): North 39 59' 04.414"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 68.18
Owners Well Number (As shown on application or plans): GM-1D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte 1-23-89
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ LIC. #GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall notbeconsidered to be a major modification of the NJPDES permit.

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Company
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): __ __-__ __ __ __ __-__
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 02' 18.8"
Latitude (one-tenth of a second): North 39° 59' 08.4"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 60.51
Owners Well Number (As shown on the application or plans): GM 2S

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Company
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75° 02' 19.0"
Latitude (one-tenth of a second): North 39° 59' 08.4"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 60.80
Owners Well Number (As shown on the application or plans): GM 2D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75° 02' 18.71"
Latitude (one-tenth of a second): North 39° 59' 02.26"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 66.29
Owners Well Number (As shown on the application or plans): GM-3R

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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LEA REF. NO. 5876.4

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

NameofPermittee: Geraghty & Miller, Inc.
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ
NJPDES Number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. __ __-__ __ __ __ __-__

Longitude (one-tenth of a second): West 75 02' 18.990"
Latitude (one-tenth of a second): North 39 59' 02.109"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 66.96
Owners Well Number (As shown on application or plans): GM-3D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte 1-23-89
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ LICENSE NO. GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Company
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75° 02' 11.4"
Latitude (one-tenth of a second): North 39° 59' 05.9"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 53.29
Owners Well Number (As shown on the application or plans): GM 5S

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION -- FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Company
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75° 02' 11.6"
Latitude (one-tenth of a second): North 39° 59' 06.0"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 53.69
Owners Well Number (As shown on the application or plans): GM 5D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

NameofPermittee: Geraghty & Miller, Inc.
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ
NJPDES Number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75 02' 16.179"
Latitude (one-tenth of a second): North 39 59' 03.382"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 62.78
Owners Well Number (As shown on application or plans): GM-4D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte 1-23-09
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ LICENSE NO. GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Company
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. __ __-__ __ __ __ __-__

Longitude (one-tenth of a second): West 75° 02' 23.3"
Latitude (one-tenth of a second): North 39° 59' 07.1"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 63.47
Owners Well Number (As shown on the application or plans): GM 6S

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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LEA REF. #5676.A4

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Company
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75° 02' 23.1"
Latitude (one-tenth of a second): North 39° 59' 07.1"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 63.88
Owners Well Number (As shown on the application or plans): GM 6D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. __ __-__ __ __ __ __-__

Longitude (one-tenth of a second): West 75° 02' 18.45"
Latitude (one-tenth of a second): North 39° 59' 59.61"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 66.78
Owners Well Number (As shown on the application or plans): GM-7S

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
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GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): _ _ - _ _ _ _ _ - _
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 02' 18.46"
Latitude (one-tenth of a second): North 39° 59' 59.46"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 66.36
Owners Well Number (As shown on the application or plans): GM - 7D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
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GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): _ _ - _ _ _ _ _ - _
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 02' 21.26"
Latitude (one-tenth of a second): North 39° 58' 55.67"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 73.25
Owners Well Number (As shown on the application or plans): GM-8S

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

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LEA REF. #5876.B4

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Geraghty & Miller
Name of Facility: Swope Oil & Chemical Co.
Location: Pennsauken, NJ

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing. — — - — — — — — - —

Longitude (one-tenth of a second): West 75° 02' 21.41"
Latitude (one-tenth of a second): North 39° 58' 55.79"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 73.41
Owners Well Number (As shown on the application or plans): GM-8-D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

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DWR-020
8/89

New Jersey Department of Environmental Protection
Division of Water Resources — Bureau of Water Allocation

WELL ABANDONMENT REPORT

MAIL TO:

Bureau of Water Allocation
CN 029
Trenton, NJ 08625

WELL PERMIT # 31-21540
of well sealed

DATE WELL SEALED 11/21/89

PROPERTY OWNER Swope Site Cleanup Committee

ADDRESS 2600 The Fidelity Building, Philadelphia, Pa.

WELL LOCATION National Highway, Pennsauken, Camden
Street & No., Township, County

MW-3, L#7, B # 251, 39° 59', 75° 03'
Well No., Lot & Block No., Longitude & Latitude (N.J. Grid # may be substituted for longitude & latitude)

TYPE OF WELL ABANDONED: Monitoring

REASON FOR ABANDONMENT: Request of Client

WAS A NEW WELL DRILLED? ☐ YES ☒ NO PERMIT # OF NEW WELL: _____

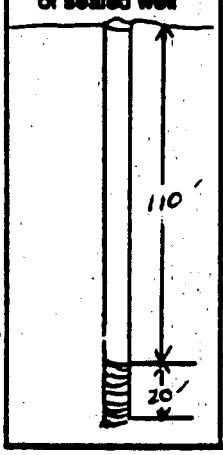
TOTAL DEPTH OF WELL 134'
DIAMETER 4"
CASING LENGTH 110'
SCREEN LENGTH 20'
NUMBER OF CASINGS 1

MATERIAL USED TO SEAL WELL:

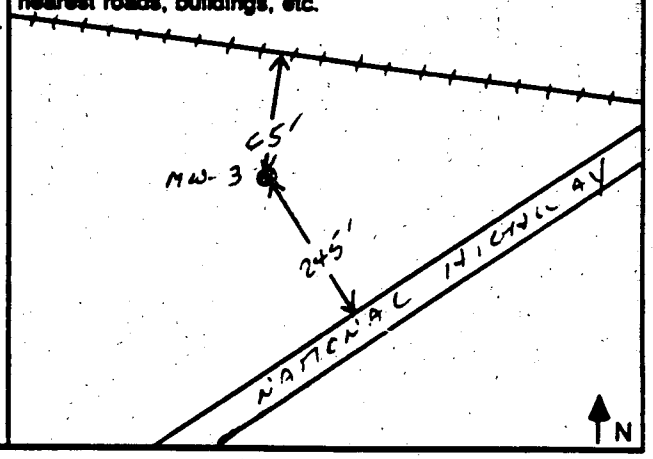
39 Gallons of Water
535 Lbs. of Cement
28 Lbs. of Bentonite
NIL Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ____ Consolidated
X Unconsolidated

Cross-section of sealed well



Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.



To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.

WAS CASING LEFT IN PLACE? ☒ YES ☐ NO CASING MATERIAL: Stainless Steel

WERE OTHER OBSTRUCTIONS REMOVED? ☐ YES ☒ NO WHAT WERE THE OBSTRUCTIONS: None

I certify that this well was sealed in accordance with N.J.A.C. 7:9-9.1 et seq.

Earl Hauge
Name of Person Doing Sealing Work (Print or Type)

EDI - 328 Stafford Forge Rd., West Creek, N.J.
Address

11/06/
Mailing Date

Earl Hauge
Signature of Person Doing Sealing Work

1130
License #

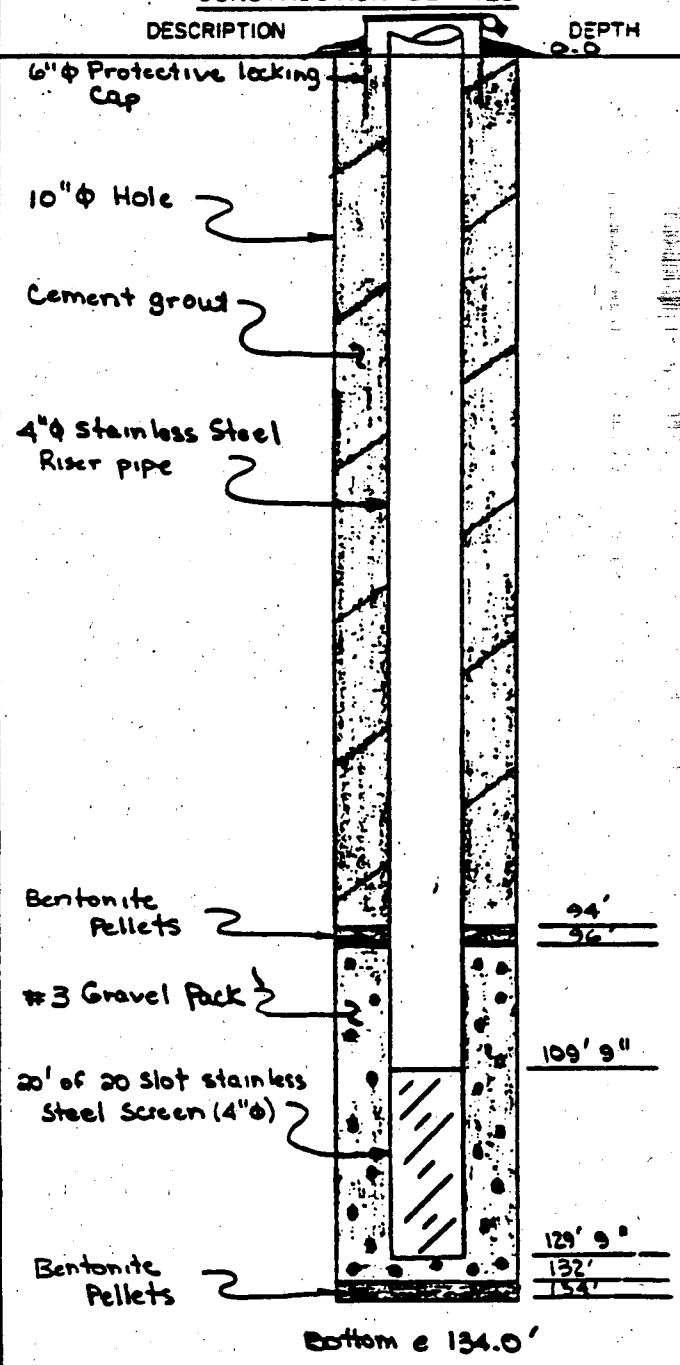
COPIES: White - Water Allocation Yellow - Owner Pink - Health Dept. Goldenrod - Driller

WELL LOG SHEET

WELL No. MW3	PROJECT No. 0758.16	PROJECT NAME	SWOPE OIL CO.
LOCATION	PENNSAUKEN, N.J.	GEOLOGIST	SJ CONTI
DRILLING DATE 6-21-84	DRILLING CONTRACTOR	HYDRO GROUP	
DRILLING METHOD MUD ROTARY	DRILLER	JOE YOST	INSTALLATION DATE 6-25-84
WATER LEVEL BEFORE INSTALLATION		WATER LEVEL AFTER INSTALLATION	82.55 7-6-84
DEVELOPMENT METHOD COMPRESSED AIR			GROUND ELEVATION 64.10

LITHOLOGY DESCRIPTION	SYMBOL
0-5 - Loose, Orange Brown Silty Sand, Some gravel - Trace Organic Matl.	
5-35 - Medium Dense to Dense, Yellow Brown Gray, Alternating layers of sandy clay and clayey sand. Sand content increasing with depth.	
35-54 - Loose to Medium Dense, Yellow Brown, Medium to Coarse Sand, trace clay lenses Subangular sand grains.	
54-64 - Loose yellow brown, Clayey Sand Trace fine gravel. Subangular Sand grains	
64-79 - Loose to Medium Dense, Yellow Brown, Fine to Medium Sand, Trace clay and Fine gravel. Subangular Sand grains.	
79-83 - Dense, Light gray Brown, Medium to coarse sand, trace fines and gravel. (Subangular grains.)	
83-84 - Stiff, v. light gray clay lens	
84-125 - Medium Dense to Dense Brown gray medium to coarse Sand - Trace fine gravel and trace clay. Sub-angular to Subrounded sand grains	
125-132 - Dense Brown gray Sand and gravel, trace of clay lenses. Subangular to subrounded grains.	
132-136 Very Stiff, Very light gray Silty clay - Trace fine sand.	

CONSTRUCTION DETAILS



JPO 8/1/84

DWR-020
8/89

New Jersey Department of Environmental Protection
Division of Water Resources — Bureau of Water Allocation

WELL ABANDONMENT REPORT

MAIL TO:

Bureau of Water Allocation
CN 029
Trenton, NJ 08625

WELL PERMIT # 31-21542
of well sealed

DATE WELL SEALED 8/3/90

PROPERTY OWNER Swope Site Cleanup Committee

ADDRESS 2600 The Fidelity Building, Philadelphia, Pa.

WELL LOCATION National Highway, Pennsauken, New Jersey
Street & No., Township, County

MW-5, L #7, B # 251, 30° 59', 75° 03'
Well No., Lot & Block No., Longitude & Latitude (N.J. Grid # may be substituted for longitude & latitude)

TYPE OF WELL ABANDONED: Monitoring

REASON FOR ABANDONMENT: Request of Client

WAS A NEW WELL DRILLED? ☐ YES ☒ NO PERMIT # OF NEW WELL: _____

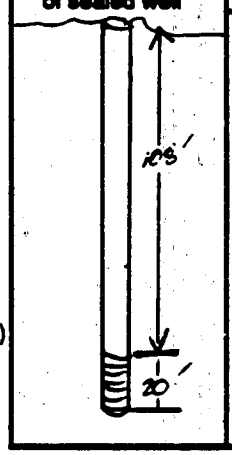
TOTAL DEPTH OF WELL 134'
DIAMETER 4"
CASING LENGTH 108'
SCREEN LENGTH 20'
NUMBER OF CASINGS 1

MATERIAL USED TO SEAL WELL:

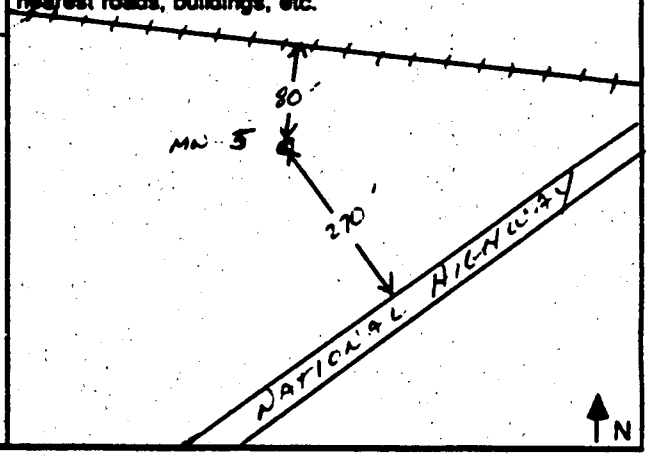
39 Gallons of Water
526 Lbs. of Cement
28 Lbs. of Bentonite
NIL Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ____ Consolidated
X Unconsolidated

Cross-section of sealed well



Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.



To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.

WAS CASING LEFT IN PLACE? ☒ YES ☐ NO CASING MATERIAL: Stainless Steel

WERE OTHER OBSTRUCTIONS REMOVED? ☐ YES ☒ NO WHAT WERE THE OBSTRUCTIONS: None

I certify that this well was sealed in accordance with N.J.A.C. 7:9-9.1 et seq.

Earl Hauge
Name of Person Doing Sealing Work (Print or Type)

EDI-328 Stafford Forge Rd., West Creek, N.J.
Address

11/26/90
Mailing Date

Earl Hauge
Signature of Person Doing Sealing Work

1130
License #

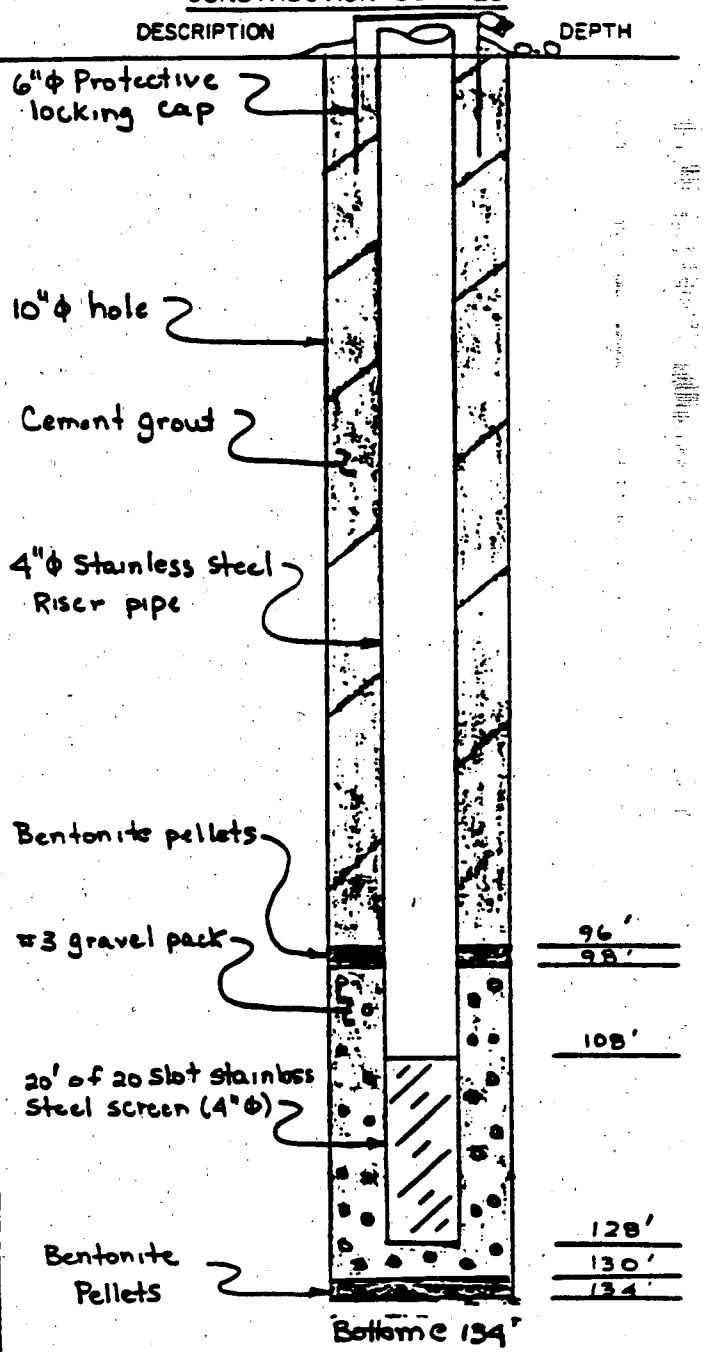
COPIES: White - Water Allocation Yellow - Owner Pink - Health Dept. Goldenrod - Driller

WELL LOG SHEET

WELL NO. MW5	PROJECT NO. 0758.16	PROJECT NAME SWOPE OIL CO.	
LOCATION PENNSAUKEN, N.J.		GEOLOGIST SJ CONTI	
DRILLING DATE 6-27-84	DRILLING CONTRACTOR HYDRO GROUP		
DRILLING METHOD MUD ROTARY	DRILLER JOE YOST	INSTALLATION DATE 6-30-84	
WATER LEVEL BEFORE INSTALLATION		WATER LEVEL AFTER INSTALLATION 80.92	7-6-84
DEVELOPMENT METHOD COMPRESSED AIR		GROUND ELEVATION 63.27	

LITHOLOGY DESCRIPTION	SYMBOL
0-1.0 Gray Slag and Gravel (Roadbed)	
1-5 - Medium dense brown Silty Sand trace gravel	
5-20 - Loose to medium dense - gray brown sandy clay	
20-35 - Loose to dense yellow brown to gray brown clayey sand / sandy clay - trace gravel and weathered sand fragments.	
35-55 Dense gray brown to brown gray fine to medium sand - interbedded with clay lenses, trace fine gravel.	
55-78 Dense Brown gray fine to coarse sand - trace fine gravel, Trace fines - subangular grains	
78-80 Stiff light gray clay lens	
80-132 Dense medium to coarse sand, Clayey to 100', trace to some fine gravel. Subangular to subrounded sand grains.	
132-136 Stiff, Light gray Sandy Clay - trace fine gravel.	

CONSTRUCTION DETAILS



JPO 8/1/84

APPENDIX D

Gamma Logs

COMPANY: GERAGHTY AND MILLER

HOLE ID: WGMSDE22 GM-8D

LOCATION: PENNSAUKEN NJ

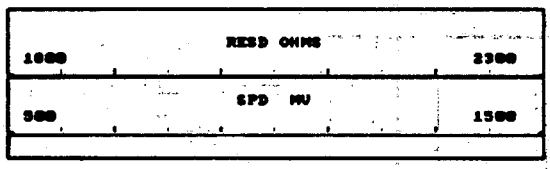
DATE: 12-28-89

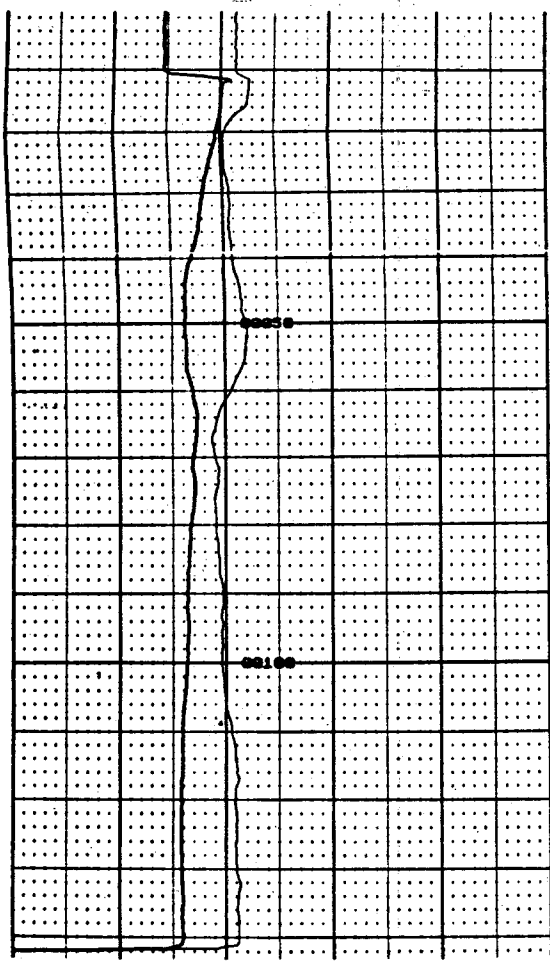
TIME: 1600

OPERATOR: JDD

COMMENT1: R-SP

COMMENT2: LOG UP





COMPANY: GERAGHTY AND MILLER

HOLE ID: GM-7P

LOCATION: SWOPE

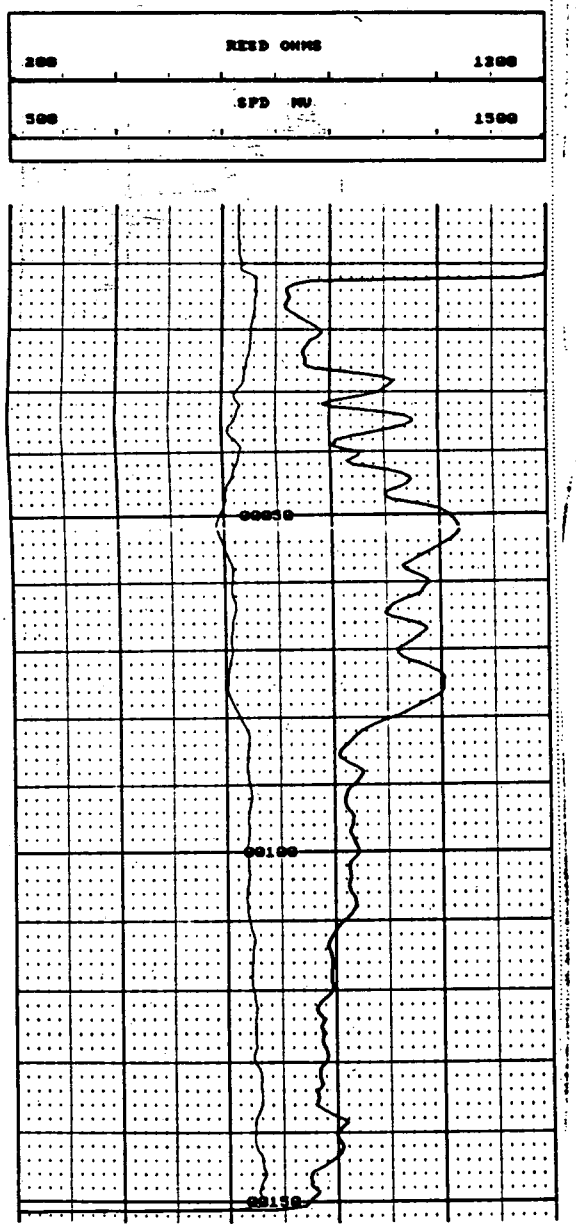
DATE: 10-27-89

TIME: 1030

OPERATOR: MC

COMMENT1: RSP

COMMENT2: UP



COMPANY: GERAGHTY AND MILLER

HOLE ID: MGM88DG6 6A-8D

LOCATION: PENNSAUKEN NJ

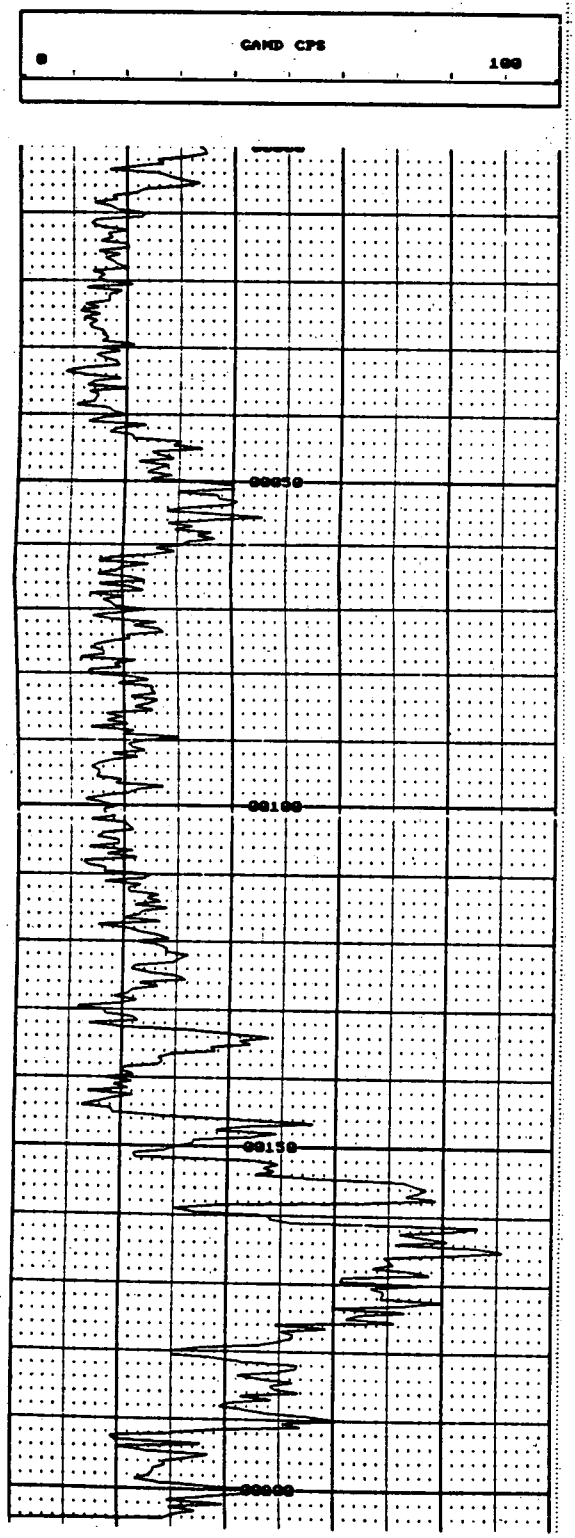
DATE: 1-23-90

TIME: 1100

OPERATOR: JDD

COMMENT1: GAMMA

COMMENT2: LOG UP



COMPANY: GERAGHTY AND MILLER

HOLE ID: GM7DGUP GN-7D

LOCATION: PENNSAUKEN-NJ

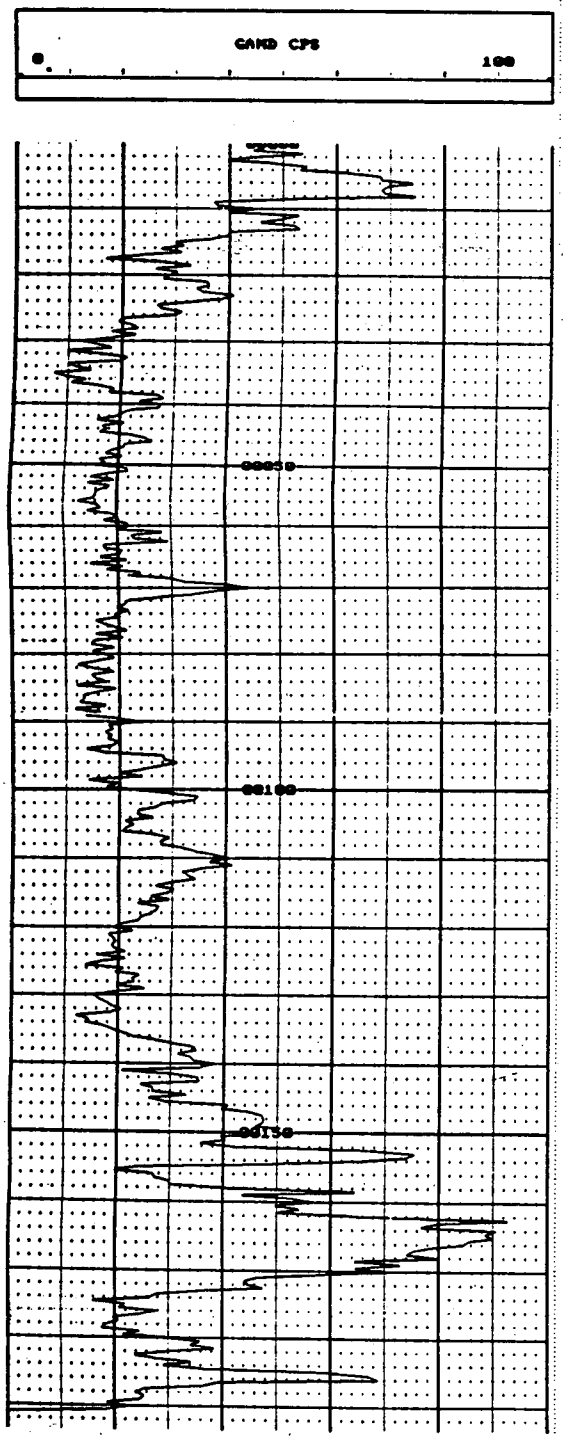
DATE: 12-15-89

TIME: 1100

OPERATOR: MC

COMMENT1: GAMMA

COMMENT2: LOG UP



COMPANY: SWOPE

HOLE ID: WELL GM-6D

LOCATION: PENNSAUKEN NJ

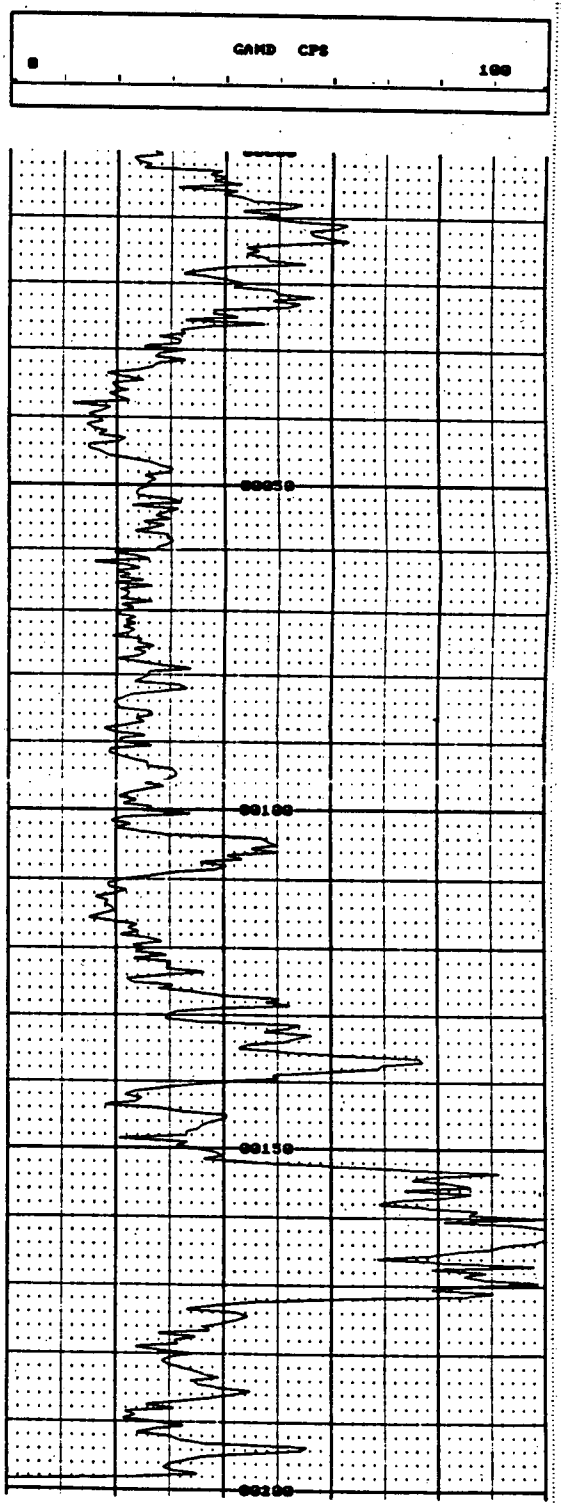
DATE: 8-3-89

TIME: 1135

OPERATOR: MC

COMMENT1: GAMMA

COMMENT2: UP



COMPANY: GERAGHTY AND MILLER

HOLE ID: GM5DG6 GM-5D

LOCATION: PENNSAUKEN NJ

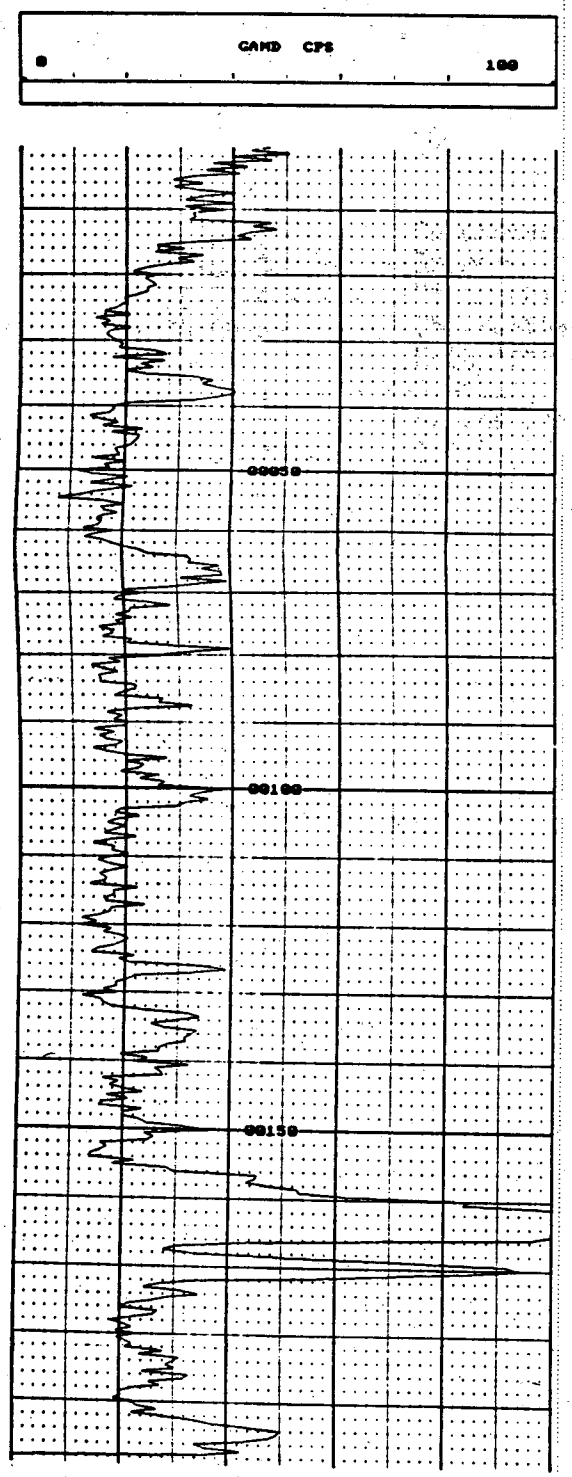
DATE: 9-7-89

TIME: 0900

OPERATOR: JD

COMMENT1: GAMMA

COMMENT2: LOG UP



COMPANY: GERAGHTY AND MILLER

HOLE ID: GM-4D

LOCATION: SWOPE SITE

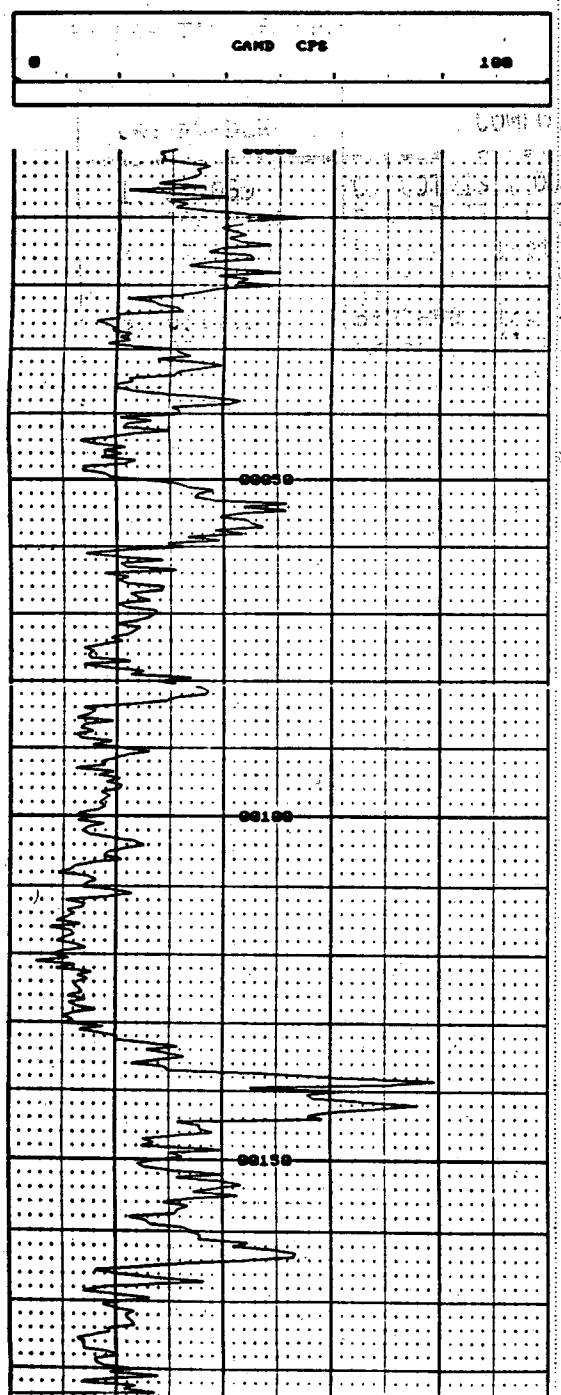
DATE: 12-15-88

TIME: 1530

OPERATOR: TML

COMMENT1: GAMMA

COMMENT2: LOG UP



COMPANY: GERAGHTY-MILLER

HOLE ID: GM-3D

LOCATION: SWOPE SITE

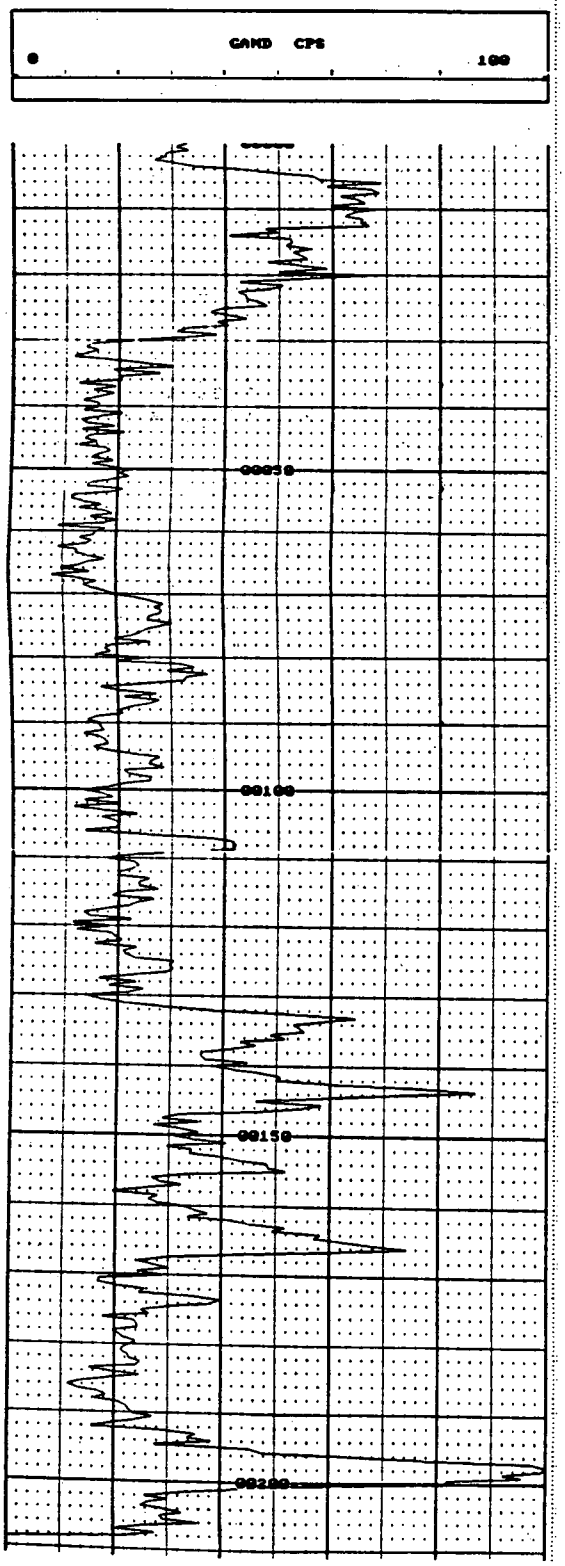
DATE: 12-9-88

TIME: 1200

OPERATOR: DJN-TNL

COMMENT1: GAMMA

COMMENT2: 10-.5



COMPANY: GERAGHTY AND MILLER

HOLE ID: W2DG2 GM-2D

LOCATION: SWOPE

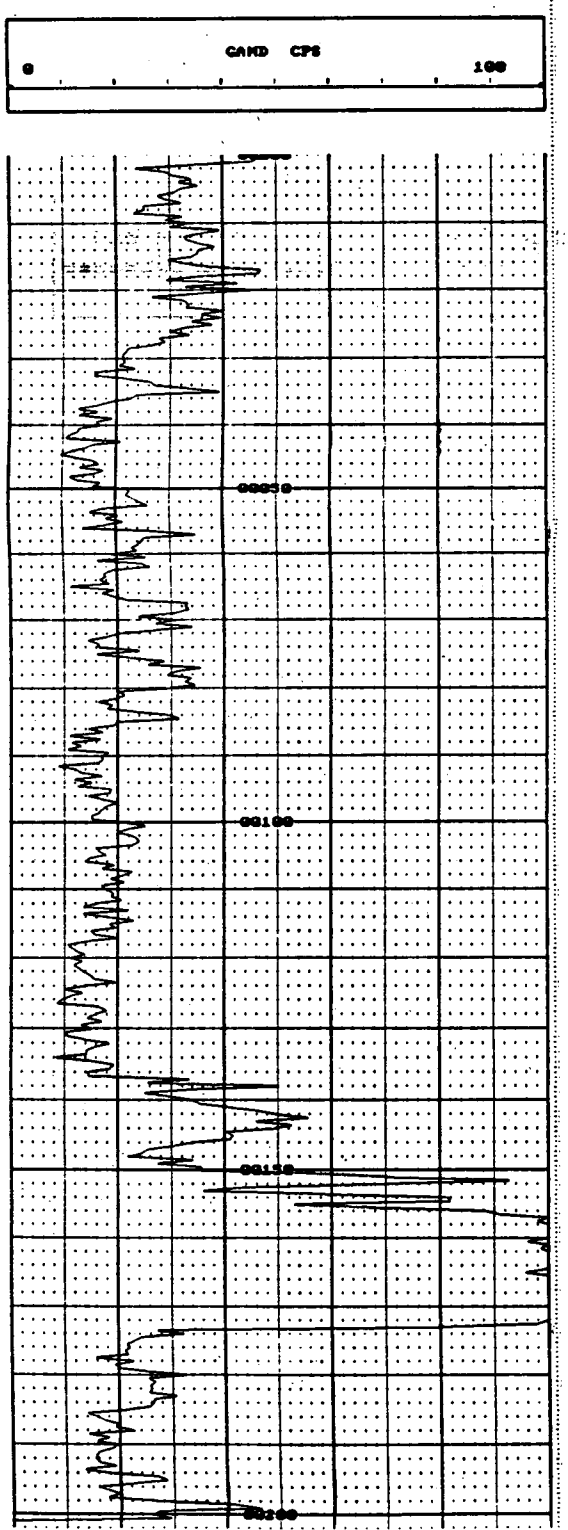
DATE: 8-17-89

TIME: 1325

OPERATOR: MC

COMMENT1: GAMMA

COMMENT2: UP



COMPANY: GERAGHTY AND MILLER

HOLE ID: [redacted] GM-1D

LOCATION: SHOPE SITE

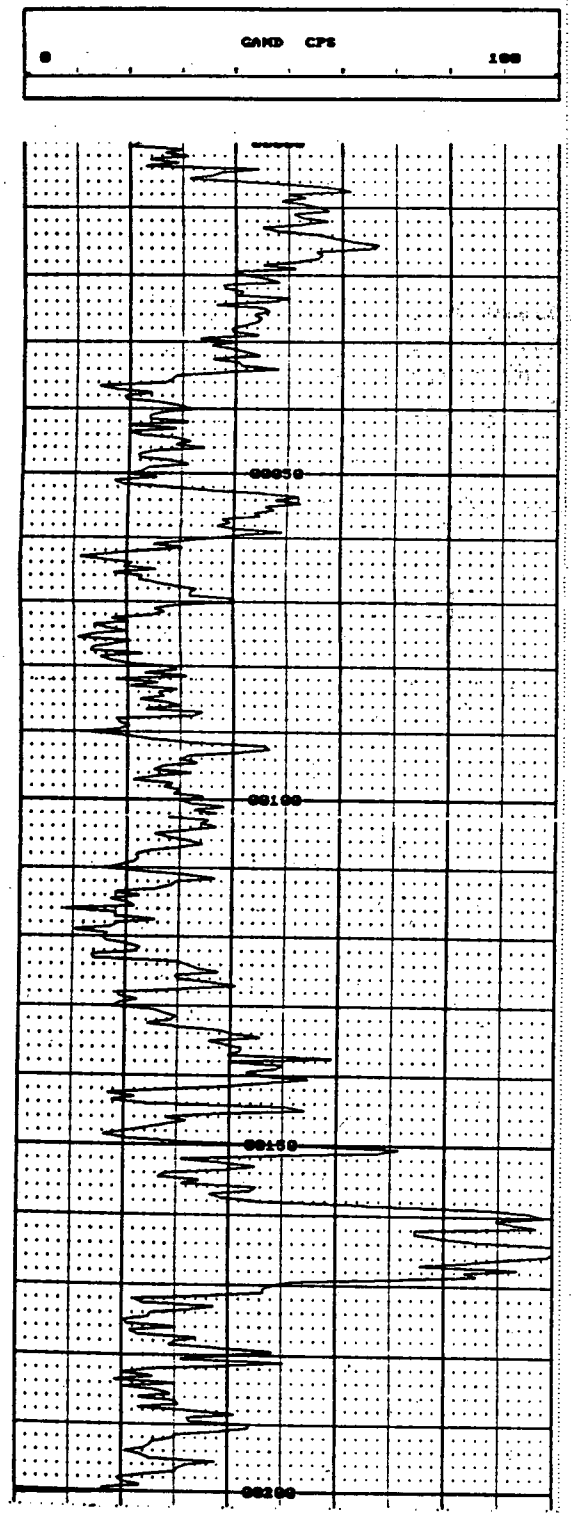
DATE: 12-15-88

TIME: 1100

OPERATOR: DJN

COMMENT1: GAMMA

COMMENT2: LOG DOWN



APPENDIX E

Laboratory Data Sheets of Ground-Water Samples Collected During the First Sampling Round

Copy

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S3822

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/16/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	5	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	24	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	9	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	100	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	27	
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	150	X

copy

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-1S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S3822

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/16/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541059	CYCLOTRISILOXANE, HEXAMEHTHY	11.52	3.0	J
2. 10473162	PARA-D-STYRENE	15.30	4.0	J
3. 620144	Benzene, 1-ethyl-3-methyl-	16.64	16	J
4. 108678	Benzene, 1,3,5-trimethyl-	16.85	9.0	J
5. 611143	Benzene, 1-ethyl-2-methyl-	17.19	8.0	J
6. 98828	Benzene, (1-methylethyl)-	17.49	15	J
7. 108678	Benzene, 1,3,5-trimethyl-	18.07	6.0	J
8. 873949	Cyclohexanone, 3,3,5-trimeth	18.79	210	J
9. 91203	Naphthalene	20.24	3.0	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

COPY

EPA SAMPLE NO.

GM-1D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2754

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	2	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	8	
75-35-3	1,1-Dichloroethane	19	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	10	
107-06-2	1,2-Dichloroethane	18	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	18	
56-23-5	Carbon Tetrachloride	28	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	3	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	24	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	14	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Copy

EPA SAMPLE NO.

GM-1D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2754

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

GM-2S

BF

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2755

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	2	J
75-35-3	1,1-Dichloroethane	4	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	3	J
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	1	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Copy

EPA SAMPLE NO.

GM-2S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2755

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

GM-2D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-4

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2756

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	B
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	3	J
75-35-3	1,1-Dichloroethane	11	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	8	
107-06-2	1,2-Dichloroethane	8	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	9	
56-23-5	Carbon Tetrachloride	15	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	18	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	14	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	10	X

1E

Copy

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-2D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-4

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2756

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3R

Lab Name: ENSECO-ERCO Contract: G_M

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GV650

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ Date Analyzed: 12/11/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	2	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	14	
75-34-3	1,1-Dichloroethane	9	
540-59-0	1,2-Dichloroethene (total)	40	
67-66-3	Chloroform	6	
107-06-2	1,2-Dichloroethane	8	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	47	
56-23-5	Carbon Tetrachloride	5	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	2	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	13	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	6	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-3R

Lab Name: ENSECO-ERCO Contract: G M

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GV650

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ Date Analyzed: 12/11/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

GM-3D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-5

Sample wt/vol: 2.5 (g/mL) ML Lab File ID: S2771

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	55	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	5	J
75-35-3	1,1-Dichloroethane	21	
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	17	
107-06-2	1,2-Dichloroethane	7	J
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	14	
56-23-5	Carbon Tetrachloride	20	
108-05-4	Vinyl Acetate	20	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	7	J
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	22	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	7	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	7	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Copy

EPA SAMPLE NO.

GM-3D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-5

Sample wt/vol: 2.5 (g/mL) ML Lab File ID: S2771

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 873949	CYCLOHEANONE, 3,3,5-TRIMETH	18.94	46	J
2.	UNKNOWN	21.14	6.0	J

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-4D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-6

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2758

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	8	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	8	
75-35-3	1,1-Dichloroethane	20	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	15	
107-06-2	1,2-Dichloroethane	24	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	16	
56-23-5	Carbon Tetrachloride	15	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	7	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	22	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	7	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	9	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-4D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-6

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2758

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

GM-5S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2759

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	3	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	
75-35-3	1,1-Dichloroethane	8	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	6	
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	16	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	9	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	4	J
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-5S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2759

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

GM-5D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-8

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2777

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	7	
75-35-3	1,1-Dichloroethane	17	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	17	
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	15	
56-23-5	Carbon Tetrachloride	27	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	4	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	25	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	13	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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EPA SAMPLE NO.

GM-5D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-8

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2777

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

GM-6S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-9

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2760

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	3	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	4	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-6S

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-9

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2760

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

BZ

GM-6D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2761

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	
75-35-3	1,1-Dichloroethane	12	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	15	
107-06-2	1,2-Dichloroethane	7	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	18	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	4	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	22	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	14	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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EPA SAMPLE NO.

GM-6D

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2761

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MW-1

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2762

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	B
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	2	J
75-35-3	1,1-Dichloroethane	4	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	9	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Copy

EPA SAMPLE NO.

MW-1

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2762

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

MW-2

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-12

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2770

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	65	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	26	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Copy

EPA SAMPLE NO.

MW-2

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-12

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2770

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

MW-4

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-13

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2764

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	2	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	9	
75-35-3	1,1-Dichloroethane	12	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	8	
107-06-2	1,2-Dichloroethane	12	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	27	
56-23-5	Carbon Tetrachloride	1	J
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	3	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	60	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	6	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-13

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2764

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

MW-8

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-14

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2765

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	3	J
75-35-3	1,1-Dichloroethane	12	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	8	
107-06-2	1,2-Dichloroethane	9	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	9	
56-23-5	Carbon Tetrachloride	14	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	19	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	15	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	10	X

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-14

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2765

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

MPWCWELL1

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-19

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2776

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	6	
75-35-3	1,1-Dichloroethane	16	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	16	
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	13	
56-23-5	Carbon Tetrachloride	22	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	4	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	23	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	13	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

copy

EPA SAMPLE NO.

MPWCWELL1

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-19

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2776

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB101589

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-15

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2772

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB101589

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-15

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2772

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB10689

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2773

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB10689

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2773

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB10589

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-17

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2774

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB10589

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-17

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2774

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB10589

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-18

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2775

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB10589

Lab Name: ENSECO-CAL LAB Contract:

Lab Code: ENSECO Case No.: 49623 SAS No.: SDG No.: GM-1S

Matrix: (soil/water) WATER Lab Sample ID: 49623-18

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: S2775

Level: (low/med) LOW Date Received: 10/10/89

% Moisture: not dec. Date Analyzed: 10/12/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: ENSECO-ERCO Contract: G_M

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GV653

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ Date Analyzed: 12/11/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FIELDBLANK

Lab Name: ENSECO-ERCO Contract: G M

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GV653

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ Date Analyzed: 12/11/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: ENSECO-ERCO Contract: G_M

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GV654

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ Date Analyzed: 12/12/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	12	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLANK

Lab Name: ENSECO-ERCO Contract: G M

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GV654

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ Date Analyzed: 12/12/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB10-05-89

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468715

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1

1/87 Rev.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB10-05-89

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468715

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB10-05-89

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468715

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468713

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.24	24	J
2.	UNKNOWN	30.32	17	J
3.	UNKNOWN	32.76	20	J
4.	UNKNOWN	36.17	8.7	J

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468714

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	11	
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	9	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	6	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1C

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468714

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-8

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468714

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	DIMETHYLBENZENE ISOMER	6.75	11	J
2.	FLUOROMETHOXYBENZENE ISOMER	7.95	8.2	J
3.	TRIMETHYLBENZENE ISOMER	8.97	15	J
4.	UNKNOWN	9.87	8.8	J
5.	UNKNOWN	11.80	32	J

Copy

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPWCWELL1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468719

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPWCWELL1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468719

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB10-06-89

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468716

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-FIELD-BLK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 500102

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

copy

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468701

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	2	J
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	6	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468701

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	3	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468702

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-1D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468702

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

060

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-2S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468703

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-2S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468703

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-2S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468703

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-2D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468704

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	6	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	6	J
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	6	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	4	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1 1/87 Rev.

1C

Copy

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-2D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468704

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-2D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468704

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANOIC ACID	11.77	27	J

FORM I SV-TIC

1/87 Rev.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3R

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 450 (g/mL) ML Lab File ID: 500101

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
39638-32-9	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3R

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 450 (g/mL) ML Lab File ID: 500101

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-10-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-Methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11	U
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-3R

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 450 (g/mL) ML Lab File ID: 500101

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 500103

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 500103

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-3D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 500103

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.52	170	J
2. 115-96-8	ETHANOL, 2-CHLORO-, PHOSPHAT	18.39	33	J

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-4D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468706

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	2	J
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-4D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468706

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-4D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468706

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.72	9.1	J
2.	UNKNOWN PHORPHOROUS CONTAINI	11.55	13	J

Copy

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-5S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468707

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-5S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468707

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	11	
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-5S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468707

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.06	25	J
2.	UNKNOWN	30.09	13	J
3.	UNKNOWN	32.34	18	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-6S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468709

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	8	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-6S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468709

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-6D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468710

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-6D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468710

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	9	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-5D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468708

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-5D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468708

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	3	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-5D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468708

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C6H10O2 ISOMER	11.50	9.3	J
2.	METHYLBENZOIC ACID ISOMER	13.77	13	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-6S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468709

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-6D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468710

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.73	8.1	J
2.	UNKNOWN	27.97	8.1	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MW-1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468711

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1

1/87 Rev.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

MW-1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468711

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

copy

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468711

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.29	16	J
2.	UNKNOWN	32.66	9.5	J
3.	UNKNOWN	32.77	11	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 250 (g/mL) ML Lab File ID: 468712X

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/16/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/18/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	100	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Copy

EPA SAMPLE NO.

MW-2

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 250 (g/mL) ML Lab File ID: 468712X

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/16/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/18/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-10-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenz(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U

(1) - Cannot be separated from Diphenylamine

1F

Copy

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-2

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 250 (g/mL) ML Lab File ID: 468712X

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/16/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/18/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.30	39	J
2.	UNKNOWN OXYGEN CONTAINING CO	7.43	49	J
3.	UNKNOWN	8.37	37	J

1B

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468713

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468713

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1D

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468702

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-1S

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468701

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/11/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		C2-BENZENE ISOMER	6.12	9.2	J
2.		DIMETHYLBENZENE ISOMER	6.32	43	J
3.		DIMETHYLBENZENE ISOMER	6.87	21	J
4.		UNKNOWN ALCOHOL	7.67	11	J
5.		UNKNOWN ALCOHOL	7.77	19	J
6.		UNKNOWN OXYGEN CONTAINING CO	8.67	12	J
7.		C3-BENZENE ISOMER	9.05	11	J
8.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	9.97	460	J
9.	116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHY	10.22	130	J
10.		UNKNOWN	11.25	17	J
11.		UNKNOWN	13.32	13	J
12.		UNKNOWN	13.90	11	J
13.		UNKNOWN OXYGEN CONTAINING CO	15.45	53	J
14.	98-73-7	BENZOIC ACID, 4-(1,1-DIMETHY	16.92	9.5	J
15.		UNKNOWN	28.22	23	J
16.		UNKNOWN	29.02	24	J
17.		UNKNOWN	30.37	45	J
18.		UNKNOWN	32.66	27	J
19.		UNKNOWN	32.79	14	J
20.		UNKNOWN	33.87	12	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GM-FIELD-BLK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 500102

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.80	9.3	J
2. 128-37-0	PHENOL, 2,6-BIS(1,1-DIMETHYL	15.42	12	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-FIELD-BLK

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 500102

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/11/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB10-06-89

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468716

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB10-06-89

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468716

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Copy

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MPWCWELL1

Lab Name: ENSECO-ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: _____

Sample wt/vol: 500 (g/mL) ML Lab File ID: 468719

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1

INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468701

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-1S

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	67.7		S	F
7440-39-3	Barium	77.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	15400			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	12.9	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	109000			P
7439-92-1	Lead	2.6	B		F
7439-95-4	Magnesium	6720			P
7439-96-5	Manganese	603			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	4200	B		P
7482-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	16900			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	1060			P
	Cyanide	10.0	U		AS
	HARDNESS	666.1			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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1

INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468702

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-1D

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	88.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	23200			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	6.3	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	27.4	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	3650	B		P
7439-96-5	Manganese	248			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	14200			P
7482-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	39700			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	7.7	B		P
7440-66-6	Zinc	66.1			P
	Cyanide	10.0	U		AS
	HARDNESS	73.0			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468703

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-2S

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	74.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	23900			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.0	U		P
7440-50-8	Copper	5.8	B		P
7439-89-6	Iron	40.0	B		P
7439-92-1	Lead	4.6	B		F
7439-95-4	Magnesium	10800			P
7439-96-5	Manganese	110			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	6040			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	39000			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	30.7			P
	Cyanide	10.0	U		AS
	HARDNESS	104			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468704

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-2D

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	41.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	10400			P
7440-47-3	Chromium	4.8	B		P
7440-48-4	Cobalt	4.0	U		P
7440-50-8	Copper	11.4	B		P
7439-89-6	Iron	6.8	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	566	B		P
7439-96-5	Manganese	1.2	B		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	142000			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	60200			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	10.9	B		P
7440-66-6	Zinc	8.0	U		P
	Cyanide	10.0	U		AS
	HARDNESS	28.3			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

500101

Lab Name: ENSECO - ERCO LABORATORY Project No.: 5001

Matrix (soil/water): WATER Client Sample ID: GM-3R

Level (low/med): LOW Date Received: 12/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U		F
7440-39-3	Barium	71.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	7760			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	45.0	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	51.8	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	2980	B		P
7439-96-5	Manganese	406			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	3500	B		P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	49.8			P
	Cyanide	10.0	U		AS
	HARDNESS	31600.0			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468705

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-3D

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.9	B		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	58.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	10600			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.1	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	34.9	B		P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	2750	B		P
7439-96-5	Manganese	142			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8450			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	46700			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	23.5			P
	Cyanide	105			AS
	HARDNESS	37.8			

Color Before: COLORLESS Clarity Before: CLEAR Texture:
Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO. 468706

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-4D

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	154	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	27400			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	9.7	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	15.2	B		P
7439-92-1	Lead	2.2	B		F
7439-95-4	Magnesium	5280			P
7439-96-5	Manganese	208			P
7439-97-6	Mercury	0.7			CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8220			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	21200			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	65.3			P
	Cyanide	10.0	U		AS
	HARDNESS	90.2			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468707

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-5S

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	60.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	13200			P
7440-47-3	Chromium	7.1	B		P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	25.2			P
7439-89-6	Iron	36.3	B		P
7439-92-1	Lead	7.8			F
7439-95-4	Magnesium	5090			P
7439-96-5	Manganese	199			P
7439-97-6	Mercury	0.2			CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	28200			P
7482-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	22100			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	44.9			P
	Cyanide	10.0	U		AS
	~~HARDNESS~~	53.9			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468708

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-5D

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	70.1	B		P
7440-36-0	Antimony	72.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	276	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	10.0	U		P
7440-70-2	Calcium	53600			P
7440-47-3	Chromium	9.1	B		P
7440-48-4	Cobalt	8.0	U		P
7440-50-8	Copper	32.9	B		P
7439-89-6	Iron	20.1	B		P
7439-92-1	Lead	4.5	B		F
7439-95-4	Magnesium	68.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	811000			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	8.0	U		P
7440-23-5	Sodium	183000			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	13.5	B		P
7440-66-6	Zinc	34.7	B		P
	Cyanide				NR
	HARDNESS	134			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO. 500105

Lab Name: ENSECO-ERCO LABORATORY Project No.: 5001

Matrix (soil/water): WATER Client Sample ID: GM-5D

Level (low/med): low Date Received: 12/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium				
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead				
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium				
7482-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide	10.0	U		AS

Color Before: colorless Clarity Before: clear Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468709

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER

Client Sample ID: GM-6S

Level (low/med): LOW

Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	58.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	19100			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.3	B		P
7440-50-8	Copper	8.3	B		P
7439-89-6	Iron	56.5	B		P
7439-92-1	Lead	2.3	B		F
7439-95-4	Magnesium	4940	B		P
7439-96-5	Manganese	69.7			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	2800	B		P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	10800			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	44.6			P
	Cyanide	10.0	U		AS
	HARDNESS	168.0			

Color Before: COLORLESS
Color After: COLORLESS

Clarity Before: CLEAR
Clarity After: CLEAR

Texture:
Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468710

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: GM-6D

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U		F
7440-39-3	Barium	65.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	13200			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	4.0	U		P
7439-92-1	Lead	2.7	B		F
7439-95-4	Magnesium	4150	B		P
7439-96-5	Manganese	95.9			P
7439-97-6	Mercury	0.6			CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	17700			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	25600			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	25.4			P
	Cyanide	10.0	U		AS
	HARDNESS	50.0			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468711

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER

Client Sample ID: MW-1

Level (low/med): LOW

Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	70.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	9130			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	22.0	B		P
7440-50-8	Copper	9.5	B		P
7439-89-6	Iron	6.0	B		P
7439-92-1	Lead	2.8	B		F
7439-95-4	Magnesium	3720	B		P
7439-96-5	Manganese	295			P
7439-97-6	Mercury	1.1			CV
7440-02-0	Nickel	719			P
7440-09-7	Potassium	9920			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	58.8			P
	Cyanide	10.0			AS
	HARDNESS	38.1			

Color Before: COLORLESS
Color After: COLORLESS

Clarity Before: CLEAR
Clarity After: CLEAR

Texture:
Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468712

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: MW-2

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	215			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	44000			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	12.8	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	15500			P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	14000			P
7439-96-5	Manganese	2040			P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	11100			P
7482-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	22800			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	41.8			P
	Cyanide	10.0	U		AS
	HARDNESS	167			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468713

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: MW-4

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	112	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	37000			P
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt	15.6	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	55.5	B		P
7439-92-1	Lead	3.5	B		F
7439-95-4	Magnesium	4520	B		P
7439-96-5	Manganese	241			P
7439-97-6	Mercury	1.7			CV
7440-02-0	Nickel	32.6	B		P
7440-09-7	Potassium	2650	B		P
7482-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	9200			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	33.6			P
	Cyanide	10.0	U		AS
	HARDNESS	111			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468714

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: MW-8

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	41.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	6.6	B		P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	10.2	B		P
7439-89-6	Iron	4.0	U		P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	568	B		P
7439-96-5	Manganese	1.2	B		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	138000			P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	58800			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	11.3	B		P
7440-66-6	Zinc	8.0	U		P
	Cyanide	10.0	U		AS
	HARDNESS	278			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468719

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: MPWC WELL#1

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	47.4	B		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	53.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	8230			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	71.1	B		P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	3930	B		P
7439-96-5	Manganese	80.7			P
7439-97-6	Mercury	2.9			CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	2070	B		P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	11200			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	50.3			P
	Cyanide	10.0	U		AS
	HARDNESS	36.7			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468715

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: FIELD BLANK

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	290	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	4.0	U		P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	34.0	U		P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	920	U		P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	35.2	B		P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide	10.0	U		AS
	HARDNESS	0.7			

Color Before: COLORLESS Clarity Before: CLEAR Texture:
Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

468716

Lab Name: ENSECO - ERCO LABORATORY Project No.: 4687

Matrix (soil/water): WATER Client Sample ID: FIELD BLANK

Level (low/med): LOW Date Received: 10/07/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U	W	F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	112	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	13.7	B		P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	34.0	U		P
7439-96-5	Manganese	1.1	B		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	920	U		P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	118	B		P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	39.8			P
	Cyanide	10.0	U		AS
	HARDNESS	0.3			

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: HARDNESS IN mg/L

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INORGANIC ANALYSIS DATA SHEET

LAB SAMPLE NO.

500102

Lab Name: ENSECO - ERCO LABORATORY Project No.: 5001

Matrix (soil/water): WATER Client Sample ID: FIELD BLANK

Level (low/med): LOW Date Received: 12/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.0	U		P
7440-36-0	Antimony	36.0	U		P
7440-38-2	Arsenic	3.0	U		F
7440-39-3	Barium	4.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	199	B		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	4.0	U		P
7440-50-8	Copper	63.7			P
7439-89-6	Iron	9.3	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	34.0	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	920	U		P
7482-49-2	Selenium	2.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	35.0	U		P
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	103			P
	Cyanide	10.0	U		AS
	HARDNESS	497.0	B		

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANICS

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Client Name: Geraghty & Miller, Inc.
Client ID: GM-1S
Lab ID: 004687-0001-SA Enseco ID: 2030698
Matrix: AQUEOUS Sampled: 05 OCT 89 Received: 06 OCT 89
Authorized: 07 OCT 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	86	mg/L	1	403/406	NA	12 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	12 OCT 89
Chloride	20	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	244	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.93	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: John Poirier Approved By: Josefina Jones

INORGANICS

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Client Name: Geraghty & Miller, Inc.
Client ID: GM-1D
Lab ID: 004687-0002-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030699
Sampled: 06 OCT 89
Prepared: See Below

Received: 07 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	110	mg/L	1	403/406	NA	12 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	12 OCT 89
Chloride	26	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	399	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	1.4	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.08	mg/L	0.05	353.2	NA	07 OCT 89
pH	6.44	pH	NA	150.1	NA	07 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

INORGANICS

Copy

Client Name: Geraghty & Miller, Inc.
Client ID: GM-2S
Lab ID: 004687-0003-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030700
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	136	mg/L	1	403/406	NA	12 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	12 OCT 89
Chloride	44	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	478	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	0.07	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	6.08	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Josefina Jones

Approved By: Josefina Jones

INORGANICS

Copy

Client Name: Geraghty & Miller, Inc.
Client ID: GM-2D
Lab ID: 004687-0004-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030701
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	ND	mg/L	1	403/406	NA	30 OCT 89
Alkalinity, Carbonate (as CaCO3)	131	mg/L	1	403/406	NA	30 OCT 89
Chloride	22	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	1030	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	1.6	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.37	mg/L	0.05	353.2	NA	07 OCT 89
pH	11.15	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: John Poirier

Approved By: Josefina Jones

Enseco

INORGANICS

Client Name: Geraghty & Miller, Inc.
Client ID: GM-3R
Lab ID: 005001-0001-SA Enseco ID: 2033943
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 06 DEC 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarb. as CaCO3	22	mg/L	1	403/406	NA	18 DEC 89
Alkalinity, Carb. as CaCO3	ND	mg/L	1	403/406	NA	18 DEC 89
Ammonia as N	ND	mg/L	0.1	350.1	NA	15 DEC 89
Chloride	15	mg/L	5	325.2	NA	11 DEC 89
Conductance, Specific	152	umho/cm	1	120.1	NA	27 DEC 89
Nitrate as N	0.68	mg/L	0.05	353.2	NA	07 DEC 89
Nitrite as N	ND	mg/L	0.05	353.2	NA	07 DEC 89
pH	5.78	pH	NA	150.1	NA	06 DEC 89

ND = Not detected
NA = Not applicable

Reported By: Ya-Ling King Approved By: Vaughn Pusey

INORGANICS

Copy

Client Name: Geraghty & Miller, Inc.
Client ID: GM-3D
Lab ID: 004687-0005-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030702
Sampled: 06 OCT 89
Prepared: See Below

Received: 07 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	65	mg/L	1	403/406	NA	12 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	12 OCT 89
Chloride	31	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	325	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	1.1	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.30	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.85	pH	NA	150.1	NA	07 OCT 89

Does not Match
CLP Data Page

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

INORGANICS

copy

Client Name: Geraghty & Miller, Inc.
Client ID: GM-4D
Lab ID: 004687-0006-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030703
Sampled: 06 OCT 89
Prepared: See Below

Received: 07 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	107	mg/L	1	403/406	NA	12 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	12 OCT 89
Chloride	27	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	419	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	1.2	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.13	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.90	pH	NA	150.1	NA	07 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

8

INORGANICS

copy

Client Name: Geraghty & Miller, Inc.
Client ID: GM-5S
Lab ID: 004687-0007-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030704
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	75	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	21	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	310	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	0.42	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.93	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Josefina Jones

Approved By: Josefina Jones

INORGANICS

copy

Client Name: Geraghty & Miller, Inc.
Client ID: GM-5D
Lab ID: 004687-0008-SA
Enseco ID: 2030705
Matrix: AQUEOUS
Sampled: 05 OCT 89
Received: 06 OCT 89
Authorized: 07 OCT 89
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	ND	mg/L	1	403/406	NA	30 OCT 89
Alkalinity, Carbonate (as CaCO3)	100	mg/L	1	403/406	NA	30 OCT 89
Chloride	16	mg/L	5	325.2	NA	21 OCT 89
Conductance, Specific	7070	umhos/c	1	120.1	NA	31 OCT 89
Nitrate (as Nitrogen)	2.4	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.35	mg/L	0.05	353.2	NA	07 OCT 89
pH	12.22	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: John Poirier

Approved By: Josefina Jones

INORGANICS

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Client Name: Geraghty & Miller, Inc.
Client ID: GM-65
Lab ID: 004687-0009-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030706
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	50	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	10	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	201	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	12 OCT 89	13 OCT 89
Nitrate (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.53	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Josefina Jones

Approved By: Josefina Jones

INORGANICS

(copy)

Client Name: Geraghty & Miller, Inc.
Client ID: GM-6D
Lab ID: 004687-0010-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030707
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	58	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	19	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	276	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	3.0	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	6.31	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Josefina Jones

Approved By: Josefina Jones

INORGANICS

COPY

Client Name: Geraghty & Miller, Inc.
Client ID: MW-1
Lab ID: 004687-0011-SA
Enseco ID: 2030708
Matrix: AQUEOUS
Sampled: 06 OCT 89
Received: 07 OCT 89
Authorized: 07 OCT 89
Prepared: See Below
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	45	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	16	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	200	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	10.0	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	0.63	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	6.16	pH	NA	150.1	NA	07 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

INORGANICS

COPY

Client Name: Geraghty & Miller, Inc.
Client ID: MW-2
Lab ID: 004687-0012-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030709
Sampled: 06 OCT 89
Prepared: See Below

Received: 07 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	192	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	19	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	445	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.09	mg/L	0.05	353.2	NA	07 OCT 89
pH	6.03	pH	NA	150.1	NA	07 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

C 077

Client Name: Geraghty & Miller, Inc.
Client ID: MW-4
Lab ID: 004687-0013-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030710
Sampled: 06 OCT 89
Prepared: See Below

Received: 07 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	106	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	18	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	365	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	0.58	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.98	pH	NA	150.1	NA	07 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

INORGANICS

copy

Client Name: Geraghty & Miller, Inc.
Client ID: MW-8
Lab ID: 004687-0014-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030711
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	ND	mg/L	1	403/406	NA	30 OCT 89
Alkalinity, Carbonate (as CaCO3)	128	mg/L	1	403/406	NA	30 OCT 89
Chloride	21	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	985	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	1.7	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	0.35	mg/L	0.05	353.2	NA	07 OCT 89
pH	10.87	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Josefina Jones

Approved By: Josefina Jones

INORGANICS

copy

Client Name: Geraghty & Miller, Inc.
Client ID: MPWC Well #1
Lab ID: 004687-0019-SA
Matrix: AQUEOUS
Authorized: 07 OCT 89

Enseco ID: 2030716
Sampled: 05 OCT 89
Prepared: See Below

Received: 06 OCT 89
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	19	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	157	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	2.2	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	4.45	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: John Poirier

Approved By: Josefina Jones

Client Name: Geraghty & Miller, Inc.
Client ID: Field Blank
Lab ID: 004687-0015-SA Enseco ID: 2030712
Matrix: AQUEOUS Sampled: 05 OCT 89 Received: 06 OCT 89
Authorized: 07 OCT 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	1	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	ND	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	ND	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	5.32	pH	NA	150.1	NA	06 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: John Poirier Approved By: Josefina Jones

INORGANICS

Client Name: Geraghty & Miller, Inc.
Client ID: Field Blank
Lab ID: 004687-0016-SA Enseco ID: 2030713
Matrix: AQUEOUS Sampled: 06 OCT 89 Received: 07 OCT 89
Authorized: 07 OCT 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarbonate (as CaCO3)	1	mg/L	1	403/406	NA	13 OCT 89
Alkalinity, Carbonate (as CaCO3)	ND	mg/L	1	403/406	NA	13 OCT 89
Chloride	ND	mg/L	5	325.2	NA	30 OCT 89
Conductance, Specific	ND	umhos/c	1	120.1	NA	31 OCT 89
Cyanide, Total	ND	ug/L	10	335.2 (CLP mod.	19 OCT 89	25 OCT 89
Nitrate (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
Nitrite (as Nitrogen)	ND	mg/L	0.05	353.2	NA	07 OCT 89
pH	4.99	pH	NA	150.1	NA	07 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Andrew Cram

Approved By: Josefina Jones

INORGANICS

Client Name: Geraghty & Miller, Inc.
Client ID: Field Blank
Lab ID: 005001-0002-SA Enseco ID: 2033963
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 06 DEC 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Alkalinity, Bicarb. as CaCO3	4	mg/L	1	403/406	NA	21 DEC 89
Alkalinity, Carb. as CaCO3	ND	mg/L	1	403/406	NA	21 DEC 89
Ammonia as N	ND	mg/L	0.1	350.1	NA	15 DEC 89
Chloride	ND	mg/L	5	325.2	NA	02 JAN 90
Conductance, Specific	2	umho/cm	1	120.1	NA	27 DEC 89
Nitrate as N	ND	mg/L	0.05	353.2	NA	07 DEC 89
Nitrite as N	ND	mg/L	0.05	353.2	NA	07 DEC 89
pH	5.57	pH	NA	150.1	NA	06 DEC 89

ND = Not detected
NA = Not applicable

Reported By: Ya-Ling King Approved By: Vaughn Pusey

Phenolics (4-AAP)

Method 420.2

Client Name: Geraghty & Miller, Inc.
Matrix: AQUEOUS Received: 07 OCT 89
Units: mg/L Authorized: 10 OCT 89

Lab ID	Client ID	Result	Reporting Limit	Date Prepared	Date Analyzed
049623-0001-SA	GM-1S	0.072	0.010	18 OCT 89	19 OCT 89
049623-0002-SA	GM-1D	0.027	0.010	18 OCT 89	19 OCT 89
049623-0003-SA	GM-2S	0.052	0.010	18 OCT 89	19 OCT 89
049623-0004-SA	GM-2D	0.074	0.010	18 OCT 89	19 OCT 89
049623-0005-SA	GM-3D	0.059	0.010	18 OCT 89	19 OCT 89
049623-0006-SA	GM-4D	0.012	0.010	18 OCT 89	19 OCT 89
049623-0007-SA	GM-5S	0.075	0.010	18 OCT 89	19 OCT 89
049623-0008-SA	GM-5D	0.068	0.010	18 OCT 89	19 OCT 89
049623-0009-SA	GM-6S	0.036	0.010	18 OCT 89	19 OCT 89
049623-0010-SA	GM-6D	0.045	0.010	18 OCT 89	19 OCT 89
049623-0011-SA	MW-1	0.020	0.010	18 OCT 89	19 OCT 89
049623-0012-SA	MW-2	0.029	0.010	19 OCT 89	25 OCT 89
049623-0014-SA	MW-8	0.023	0.010	19 OCT 89	25 OCT 89
049623-0015-SA	Field Blank 10/5/89	0.027	0.010	19 OCT 89	25 OCT 89
049623-0016-SA	Field Blank 10/6/89	0.011	0.010	19 OCT 89	25 OCT 89
049623-0019-SA	MPWC Well #1	0.011	0.010	19 OCT 89	25 OCT 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Don Fredrickson Approved By: Lana Rossi

The cover letter is an integral part of this report.
Rev 230787

Sulfate

Method 375.4

Client Name: Geraghty & Miller, Inc.
Matrix: AQUEOUS Received: 07 OCT 89
Units: mg/L Authorized: 10 OCT 89

Lab ID	Client ID	Result	Reporting Limit	Date Prepared	Date Analyzed
049623-0001-SA	GM-1S	ND	5.0	NA	12 OCT 89
049623-0002-SA	GM-1D	27.1	5.0	NA	12 OCT 89
049623-0003-SA	GM-2S	23.4	5.0	NA	12 OCT 89
049623-0004-SA	GM-2D	27.0	5.0	NA	12 OCT 89
049623-0005-SA	GM-3D	25.2	5.0	NA	12 OCT 89
049623-0006-SA	GM-4D	25.9	5.0	NA	12 OCT 89
049623-0007-SA	GM-5S	23.0	5.0	NA	12 OCT 89
049623-0008-SA	GM-5D	27.9	5.0	NA	12 OCT 89
049623-0009-SA	GM-6S	18.7	5.0	NA	12 OCT 89
049623-0010-SA	GM-6D	29.0	5.0	NA	12 OCT 89
049623-0011-SA	MW-1	15.8	5.0	NA	12 OCT 89
049623-0012-SA	MW-2	ND	5.0	NA	12 OCT 89
049623-0013-SA	MW-4	18.8	5.0	NA	12 OCT 89
049623-0014-SA	MW-8	33.8	5.0	NA	12 OCT 89
049623-0015-SA	Field Blank 10/5/89	ND	5.0	NA	12 OCT 89
049623-0016-SA	Field Blank 10/6/89	ND	5.0	NA	12 OCT 89
049623-0019-SA	MPWC Well #1	20.1	5.0	NA	12 OCT 89

Note o : Reporting Limit raised due to high level of analyte present in sample.

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Lana Rossi Approved By: Flo Burbano

The cover letter is an integral part of this report.
Rev 230787

Enc

Total Dissolved Solids (TDS)

Method 160.1

Client Name: Geraghty & Miller, Inc.
Matrix: AQUEOUS Received: 07 OCT 89
Units: mg/L Authorized: 10 OCT 89

Lab ID	Client ID	Result	Reporting Limit	Date Prepared	Date Analyzed
049623-0001-SA	GM-1S	310	50.0	NA	12 OCT 89
049623-0002-SA	GM-1D	238	10.0	NA	12 OCT 89
049623-0003-SA	GM-2S	297	10.0	NA	12 OCT 89
049623-0004-SA	GM-2D	475	10.0	NA	12 OCT 89
049623-0005-SA	GM-3D	244	20.0	NA	12 OCT 89
049623-0006-SA	GM-4D	265	10.0	NA	12 OCT 89
049623-0007-SA	GM-5S	213	10.0	NA	12 OCT 89
049623-0008-SA	GM-5D	2380	50.0	NA	12 OCT 89
049623-0009-SA	GM-6S	221	10.0	NA	12 OCT 89
049623-0010-SA	GM-6D	254	10.0	NA	12 OCT 89
049623-0011-SA	MW-1	158	10.0	NA	12 OCT 89
049623-0012-SA	MW-2	286	10.0	NA	12 OCT 89
049623-0013-SA	MW-4	233	10.0	NA	12 OCT 89
049623-0014-SA	MW-8	423	10.0	NA	12 OCT 89
049623-0015-SA	Field Blank 10/5/89	ND	10.0	NA	12 OCT 89
049623-0016-SA	Field Blank 10/6/89	ND	10.0	NA	12 OCT 89
049623-0019-SA	MPWC Well #1	84.0	10.0	NA	12 OCT 89

Note o : Reporting Limit raised due to high level of analyte present in sample.

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Darlene Johnson Approved By: Lana Rossi

The cover letter is an integral part of this report.
Rev 230787

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GENERAL INORGANICS

(Water)

Client Name: Geraghty & Miller, Inc.
Client ID: MW-4
Lab ID: 050609-0004-SA Enseco ID: 130954
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 12 DEC 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Phenolics	0.076	mg/L	0.010	Method 420.2	19 DEC 89	21 DEC 89

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Hamid Foolad Approved By: Ben Holland

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Client Name: GERAGHTY & MILLER, INC.
Client ID: GM-3R
Lab ID: 006593-0001-SA Enseco ID: 3011047
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 11 DEC 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Sulfate	18.0	mg/L	5.0	375.4	NA	19 DEC 89
Total Dissolved Solids	100	mg/L	10.0	160.1	NA	26 DEC 89

ND = Not detected
NA = Not applicable

Reported By: Niteesh Dingare Approved By: Deborah Kay

WET CHEMISTRY

Enseco

Client Name: GERAGHTY & MILLER, INC.
Client ID: Field Blank
Lab ID: 006593-0002-SA Enseco ID: 3011049
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 11 DEC 89 Prepared: See Below Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Sulfate	ND	mg/L	5.0	375.4	NA	19 DEC 89
Total Dissolved Solids	ND	mg/L	10.0	160.1	NA	13 DEC 89

ND = Not detected
NA = Not applicable

Reported By: Maria Javier Approved By: Deborah Kay

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-15
Lab ID: 049623-0001-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123291
Sampled: 05 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.20L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.24	
PeCDFs (total)	ND	ng/L	0.35	
HxCDFs (total)	ND	ng/L	0.70	
HpCDFs (total)	ND	ng/L	0.63	
OCDF	ND	ng/L	1.4	
Dioxins				
TCDDs (total)	ND	ng/L	0.33	
PeCDDs (total)	ND	ng/L	1.3	
HxCDDs (total)	ND	ng/L	1.0	
HpCDDs (total)	ND	ng/L	0.96	
OCDD	ND	ng/L	1.3	

	% Recovery
13C-2,3,7,8-TCDF	82
13C-2,3,7,8-TCDD	77
13C-1,2,3,7,8-PeCDD	76
13C-1,2,3,6,7,8-HxCDD	66
13C-1,2,3,4,6,7,8-HpCDD	63
13C-OCDD	68

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

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LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-1D
Lab ID: 049623-0002-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123296
Sampled: 06 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.50L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.13	
PeCDFs (total)	ND	ng/L	0.23	
HxCDFs (total)	ND	ng/L	0.35	
HpCDFs (total)	ND	ng/L	0.31	
OCDF	ND	ng/L	1.1	
Dioxins				
TCDDs (total)	ND	ng/L	0.25	
PeCDDs (total)	ND	ng/L	0.59	
HxCDDs (total)	ND	ng/L	0.55	
HpCDDs (total)	ND	ng/L	0.47	
OCDD	ND	ng/L	0.76	

	% Recovery
13C-2,3,7,8-TCDF	63
13C-2,3,7,8-TCDD	56
13C-1,2,3,7,8-PeCDD	61
13C-1,2,3,6,7,8-HxCDD	57
13C-1,2,3,4,6,7,8-HpCDD	55
13C-OCDD	61

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-25
Lab ID: 049623-0003-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123297
Sampled: 05 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.1[illegible]	
PeCDFs (total)	ND	ng/L	0.1[illegible]	
HxCDFs (total)	ND	ng/L	0.34	
HpCDFs (total)	ND	ng/L	0.23	
OCDF	ND	ng/L	0.65	
Dioxins				
TCDDs (total)	ND	ng/L	0.23	
PeCDDs (total)	ND	ng/L	0.48	
HxCDDs (total)	ND	ng/L	0.63	
HpCDDs (total)	ND	ng/L	0.48	
OCDD	ND	ng/L	0.76	

	% Recovery
13C-2,3,7,8-TCDF	61
13C-2,3,7,8-TCDD	63
13C-1,2,3,7,8-PeCDD	72
13C-1,2,3,6,7,8-HxCDD	73
13C-1,2,3,4,6,7,8-HpCDD	63
13C-OCDD	66

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-2D
Lab ID: 049623-0004-SA
Enseco ID: 123298
Matrix: AQUEOUS
Sampled: 05 OCT 89
Received: 07 OCT 89
Authorized: 10 OCT 89
Prepared: 16 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.071	
PeCDFs (total)	ND	ng/L	0.12	
HxCDFs (total)	ND	ng/L	0.24	
HpCDFs (total)	ND	ng/L	0.22	
OCDF	ND	ng/L	0.57	
Dioxins				
TCDDs (total)	ND	ng/L	0.14	
PeCDDs (total)	ND	ng/L	0.40	
HxCDDs (total)	ND	ng/L	0.36	
HpCDDs (total)	ND	ng/L	0.32	
OCDD	ND	ng/L	0.55	

	% Recovery
13C-2,3,7,8-TCDF	71
13C-2,3,7,8-TCDD	61
13C-1,2,3,7,8-PeCDD	65
13C-1,2,3,6,7,8-HxCDD	55
13C-1,2,3,4,6,7,8-HpCDD	49
13C-OCDD	53

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-3D
Lab ID: 050609-0003-SA Enseco ID: 130953
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 12 DEC 89 Prepared: 14 DEC 89 Analyzed: 20 DEC 89

Sample Amount 0.50L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.049	
PeCDFs (total)	ND	ng/L	0.43	
HxCDFs (total)	ND	ng/L	0.27	
HpCDFs (total)	ND	ng/L	0.26	
OCDF	ND	ng/L	0.57	
Dioxins				
TCDDs (total)	ND	ng/L	0.12	
PeCDDs (total)	ND	ng/L	0.36	
HxCDDs (total)	ND	ng/L	0.37	
HpCDDs (total)	ND	ng/L	0.41	
OCDD	ND	ng/L	1.1	

	% Recovery
13C-2,3,7,8-TCDF	96
13C-2,3,7,8-TCDD	80
13C-1,2,3,7,8-PeCDD	70
13C-1,2,3,6,7,8-HxCDD	74
13C-1,2,3,4,6,7,8-HpCDD	53
13C-OCDD	30

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers Approved By: Steve Rogers

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-3R
Lab ID: 050609-0001-SA Enseco ID: 130948
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 12 DEC 89 Prepared: 14 DEC 89 Analyzed: 20 DEC 89

Sample Amount 0.50L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.11	
PeCDFs (total)	ND	ng/L	0.42	
HxCDFs (total)	ND	ng/L	0.066	
HpCDFs (total)	ND	ng/L	0.14	
OCDF	ND	ng/L	0.22	
Dioxins				
TCDDs (total)	ND	ng/L	0.089	
PeCDDs (total)	ND	ng/L	0.41	
HxCDDs (total)	ND	ng/L	0.34	
HpCDDs (total)	ND	ng/L	0.25	
OCDD	ND	ng/L	0.51	

	% Recovery
13C-2,3,7,8-TCDF	87
13C-2,3,7,8-TCDD	77
13C-1,2,3,7,8-PeCDD	73
13C-1,2,3,6,7,8-HxCDD	84
13C-1,2,3,4,6,7,8-HpCDD	74
13C-OCDD	62

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers Approved By: Steve Rogers

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POLYCHLORINATED DIOXINS/FURANS

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LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-4D
Lab ID: 049623-0006-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123300
Sampled: 06 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.10	
PeCDFs (total)	ND	ng/L	0.17	
HxCDFs (total)	ND	ng/L	0.32	
HpCDFs (total)	ND	ng/L	0.23	
OCDF	ND	ng/L	0.75	
Dioxins				
TCDDs (total)	ND	ng/L	0.21	
PeCDDs (total)	ND	ng/L	0.36	
HxCDDs (total)	ND	ng/L	0.53	
HpCDDs (total)	ND	ng/L	0.63	
OCDD	ND	ng/L	0.75	

	% Recovery
13C-2,3,7,8-TCDF	79
13C-2,3,7,8-TCDD	75
13C-1,2,3,7,8-PeCDD	72
13C-1,2,3,6,7,8-HxCDD	66
13C-1,2,3,4,6,7,8-HpCDD	59
13C-OCDD	65

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

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LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-5S
Lab ID: 049623-0007-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123301
Sampled: 05 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.095	
PeCDFs (total)	ND	ng/L	0.16	
HxCDFs (total)	ND	ng/L	0.41	
HpCDFs (total)	ND	ng/L	0.32	
OCDF	ND	ng/L	0.52	
Dioxins				
TCDDs (total)	ND	ng/L	0.23	
PeCDDs (total)	ND	ng/L	0.58	
HxCDDs (total)	ND	ng/L	0.56	
HpCDDs (total)	ND	ng/L	0.43	
OCDD	ND	ng/L	0.73	

	% Recovery
13C-2,3,7,8-TCDF	71
13C-2,3,7,8-TCDD	68
13C-1,2,3,7,8-PeCDD	66
13C-1,2,3,6,7,8-HxCDD	58
13C-1,2,3,4,6,7,8-HpCDD	50
13C-OCDD	53

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-5D
Lab ID: 049623-0008-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123302
Sampled: 05 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.52L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.11	
PeCDFs (total)	ND	ng/L	0.21	
HxCDFs (total)	ND	ng/L	0.35	
HpCDFs (total)	ND	ng/L	0.32	
OCDF	ND	ng/L	0.52	
Dioxins				
TCDDs (total)	ND	ng/L	0.12	
PeCDDs (total)	ND	ng/L	0.47	
HxCDDs (total)	ND	ng/L	0.50	
HpCDDs (total)	ND	ng/L	0.46	
OCDD	ND	ng/L	1.7	

	% Recovery
13C-2,3,7,8-TCDF	76
13C-2,3,7,8-TCDD	76
13C-1,2,3,7,8-PeCDD	72
13C-1,2,3,6,7,8-HxCDD	65
13C-1,2,3,4,6,7,8-HpCDD	55
13C-OCDD	61

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins CJ

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-6S
Lab ID: 049623-0009-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123303
Sampled: 05 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.52L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.099	
PeCDFs (total)	ND	ng/L	0.16	
HxCDFs (total)	ND	ng/L	0.32	
HpCDFs (total)	ND	ng/L	0.36	
OCDF	ND	ng/L	0.88	
Dioxins				
TCDDs (total)	ND	ng/L	0.21	
PeCDDs (total)	ND	ng/L	0.46	
HxCDDs (total)	ND	ng/L	0.56	
HpCDDs (total)	ND	ng/L	0.26	
OCDD	ND	ng/L	0.79	

	% Recovery
13C-2,3,7,8-TCDF	72
13C-2,3,7,8-TCDD	69
13C-1,2,3,7,8-PeCDD	69
13C-1,2,3,6,7,8-HxCDD	63
13C-1,2,3,4,6,7,8-HpCDD	57
13C-OCDD	58

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: GM-6D
Lab ID: 049623-0010-SA
Enseco ID: 123304
Matrix: AQUEOUS
Sampled: 05 OCT 89
Received: 07 OCT 89
Authorized: 10 OCT 89
Prepared: 16 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.067	
PeCDFs (total)	ND	ng/L	0.11	
HxCDFs (total)	ND	ng/L	0.22	
HpCDFs (total)	ND	ng/L	0.26	
OCDF	ND	ng/L	0.40	
Dioxins				
TCDDs (total)	ND	ng/L	0.14	
PeCDDs (total)	ND	ng/L	0.39	
HxCDDs (total)	ND	ng/L	0.36	
HpCDDs (total)	ND	ng/L	0.23	
OCDD	ND	ng/L	0.32	

	% Recovery
13C-2,3,7,8-TCDF	76
13C-2,3,7,8-TCDD	75
13C-1,2,3,7,8-PeCDD	78
13C-1,2,3,6,7,8-HxCDD	67
13C-1,2,3,4,6,7,8-HpCDD	65
13C-OCDD	75

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers
Approved By: Chris Jenkins CJ

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: MW-1
Lab ID: 049623-0011-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123305
Sampled: 06 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 19 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.076	
PeCDFs (total)	ND	ng/L	0.16	
HxCDFs (total)	ND	ng/L	0.22	
HpCDFs (total)	ND	ng/L	0.27	
OCDF	ND	ng/L	0.62	
Dioxins				
TCDDs (total)	ND	ng/L	0.17	
PeCDDs (total)	ND	ng/L	0.42	
HxCDDs (total)	ND	ng/L	0.31	
HpCDDs (total)	ND	ng/L	0.32	
OCDD	ND	ng/L	0.50	

	% Recovery
13C-2,3,7,8-TCDF	84
13C-2,3,7,8-TCDD	78
13C-1,2,3,7,8-PeCDD	74
13C-1,2,3,6,7,8-HxCDD	65
13C-1,2,3,4,6,7,8-HpCDD	60
13C-OCDD	64

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

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Client Name: Geraghty & Miller, Inc.
Client ID: MW-2
Lab ID: 049623-0012-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123306
Sampled: 06 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 23 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.047	
PeCDFs (total)	ND	ng/L	0.077	
HxCDFs (total)	ND	ng/L	0.14	
HpCDFs (total)	ND	ng/L	0.13	
OCDF	ND	ng/L	0.54	
Dioxins				
TCDDs (total)	ND	ng/L	0.095	
PeCDDs (total)	ND	ng/L	0.22	
HxCDDs (total)	ND	ng/L	0.32	
HpCDDs (total)	ND	ng/L	0.13	
OCDD	ND	ng/L	0.66	

	% Recovery
13C-2,3,7,8-TCDF	83
13C-2,3,7,8-TCDD	80
13C-1,2,3,7,8-PeCDD	86
13C-1,2,3,6,7,8-HxCDD	93
13C-1,2,3,4,6,7,8-HpCDD	87
13C-OCDD	62

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Mark Bechthold

Approved By: Chris Jenkins

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: MW-4
Lab ID: 050609-0004-SA Enseco ID: 130954
Matrix: AQUEOUS Sampled: 05 DEC 89 Received: 06 DEC 89
Authorized: 12 DEC 89 Prepared: 14 DEC 89 Analyzed: 20 DEC 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.098	
PeCDFs (total)	ND	ng/L	0.39	
HxCDFs (total)	ND	ng/L	0.21	
HpCDFs (total)	ND	ng/L	0.17	
OCDF	ND	ng/L	0.84	
Dioxins				
TCDDs (total)	ND	ng/L	0.11	
PeCDDs (total)	ND	ng/L	0.32	
HxCDDs (total)	ND	ng/L	0.38	
HpCDDs (total)	ND	ng/L	0.22	
OCDD	ND	ng/L	1.1	

	% Recovery
13C-2,3,7,8-TCDF	106
13C-2,3,7,8-TCDD	79
13C-1,2,3,7,8-PeCDD	78
13C-1,2,3,6,7,8-HxCDD	82
13C-1,2,3,4,6,7,8-HpCDD	56
13C-OCDD	33

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers Approved By: Steve Rogers

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POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: MW-8
Lab ID: 049623-0014-SA
Matrix: AQUEOUS
Authorized: 10 OCT 89

Enseco ID: 123308
Sampled: 05 OCT 89
Prepared: 16 OCT 89

Received: 07 OCT 89
Analyzed: 23 OCT 89

Sample Amount 0.52L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.076	
PeCDFs (total)	ND	ng/L	0.14	
HxCDFs (total)	ND	ng/L	0.36	
HpCDFs (total)	ND	ng/L	0.21	
OCDF	ND	ng/L	0.63	
Dioxins				
TCDDs (total)	ND	ng/L	0.10	
PeCDDs (total)	ND	ng/L	0.50	
HxCDDs (total)	ND	ng/L	0.60	
HpCDDs (total)	ND	ng/L	0.25	
OCDD	ND	ng/L	1.6	

	% Recovery
13C-2,3,7,8-TCDF	77
13C-2,3,7,8-TCDD	74
13C-1,2,3,7,8-PeCDD	82
13C-1,2,3,6,7,8-HxCDD	87
13C-1,2,3,4,6,7,8-HpCDD	78
13C-OCDD	57

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Mark Bechthold

Approved By: Chris Jenkins

The cover letter is an integral part of this report.
Rev 230787

POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Copy

Client Name: Geraghty & Miller, Inc.
Client ID: MPWC Well #1
Lab ID: 049623-0019-SA
Enseco ID: 123313
Matrix: AQUEOUS
Sampled: 05 OCT 89
Received: 07 OCT 89
Authorized: 10 OCT 89
Prepared: 16 OCT 89
Analyzed: 23 OCT 89

Sample Amount 0.52L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.12	
PeCDFs (total)	ND	ng/L	0.26	
HxCDFs (total)	ND	ng/L	0.46	
HpCDFs (total)	ND	ng/L	0.36	
OCDF	ND	ng/L	0.90	
Dioxins				
TCDDs (total)	ND	ng/L	0.19	
PeCDDs (total)	ND	ng/L	0.88	
HxCDDs (total)	ND	ng/L	0.90	
HpCDDs (total)	ND	ng/L	0.46	
OCDD	ND	ng/L	0.83	

	% Recovery
13C-2,3,7,8-TCDF	77
13C-2,3,7,8-TCDD	78
13C-1,2,3,7,8-PeCDD	77
13C-1,2,3,6,7,8-HxCDD	82
13C-1,2,3,4,6,7,8-HpCDD	80
13C-OCDD	57

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Mark Bechthold
Approved By: Chris Jenkins

The cover letter is an integral part of this report.
Rev 230787

Enseco

POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: Field Blank 10/5/89
Lab ID: 049623-0015-SA Enseco ID: 123309
Matrix: AQUEOUS Sampled: 05 OCT 89 Received: 07 OCT 89
Authorized: 10 OCT 89 Prepared: 16 OCT 89 Analyzed: 23 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.12	
PeCDFs (total)	ND	ng/L	0.23	
HxCDFs (total)	ND	ng/L	0.42	
HpCDFs (total)	ND	ng/L	0.38	
OCDF	ND	ng/L	0.70	
Dioxins				
TCDDs (total)	ND	ng/L	0.19	
PeCDDs (total)	ND	ng/L	0.70	
HxCDDs (total)	ND	ng/L	0.69	
HpCDDs (total)	ND	ng/L	0.42	
OCDD	ND	ng/L	0.88	

	% Recovery
13C-2,3,7,8-TCDF	88
13C-2,3,7,8-TCDD	81
13C-1,2,3,7,8-PeCDD	95
13C-1,2,3,6,7,8-HxCDD	103
13C-1,2,3,4,6,7,8-HpCDD	94
13C-OCDD	67

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Mark Bechthold Approved By: Chris Jenkins

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Enseco

POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: Field Blank 10/6/89
Lab ID: 049623-0016-SA Enseco ID: 123310
Matrix: AQUEOUS Sampled: 06 OCT 89 Received: 07 OCT 89
Authorized: 10 OCT 89 Prepared: 16 OCT 89 Analyzed: 23 OCT 89

Sample Amount 0.51L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.12	
PeCDFs (total)	ND	ng/L	0.23	
HxCDFs (total)	ND	ng/L	0.40	
HpCDFs (total)	ND	ng/L	0.30	
OCDF	ND	ng/L	0.78	
Dioxins				
TCDDs (total)	ND	ng/L	0.20	
PeCDDs (total)	ND	ng/L	0.78	
HxCDDs (total)	ND	ng/L	0.66	
HpCDDs (total)	ND	ng/L	0.40	
OCDD	ND	ng/L	0.66	

	% Recovery
13C-2,3,7,8-TCDF	91
13C-2,3,7,8-TCDD	80
13C-1,2,3,7,8-PeCDD	84
13C-1,2,3,6,7,8-HxCDD	87
13C-1,2,3,4,6,7,8-HpCDD	83
13C-OCDD	60

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Mark Bechthold Approved By: Chris Jenkins

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Enseco

POLYCHLORINATED DIOXINS/FURANS

LOW RESOLUTION

Client Name: Geraghty & Miller, Inc.
Client ID: FIELD BLANK
Lab ID: 050609-0002-SA
Enseco ID: 130952
Matrix: AQUEOUS
Sampled: 05 DEC 89
Received: 06 DEC 89
Authorized: 12 DEC 89
Prepared: 14 DEC 89
Analyzed: 20 DEC 89

Sample Amount 0.50L
Column Type DB-5

Parameter	Result	Units	Detection Limit	Data Qualifiers
Furans				
TCDFs (total)	ND	ng/L	0.13	
PeCDFs (total)	ND	ng/L	0.50	
HxCDFs (total)	ND	ng/L	0.21	
HpCDFs (total)	ND	ng/L	0.39	
OCDF	ND	ng/L	0.66	
Dioxins				
TCDDs (total)	ND	ng/L	0.096	
PeCDDs (total)	ND	ng/L	0.43	
HxCDDs (total)	ND	ng/L	0.43	
HpCDDs (total)	ND	ng/L	0.27	
OCDD	ND	ng/L	0.86	

	% Recovery
13C-2,3,7,8-TCDF	110
13C-2,3,7,8-TCDD	86
13C-1,2,3,7,8-PeCDD	80
13C-1,2,3,6,7,8-HxCDD	84
13C-1,2,3,4,6,7,8-HpCDD	58
13C-OCDD	44

N.D. = Not Detected
N.A. = Not Applicable

Reported By: Dan Vickers
Approved By: Steve Rogers

The cover letter is an integral part of this report.
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1S

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-01

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-1D

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-02

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.15	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-2S

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-03

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.086	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-2D

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-04

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.034	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3R

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-1

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/08/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.055 ~~0.049~~ ~~J~~ EK 1-5-90	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-3D

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-3

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/08/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/16/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-4D

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-06

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-5S

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-07

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-5D

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-08

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.026	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

GM-6S

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-09

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-6D

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-10

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.031	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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EPA SAMPLE NO.

MW-1

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-11

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.044	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.53	J
11096-82-5	Aroclor-1260	1.0	U

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EPA SAMPLE NO.

MW-2

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-12

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.054	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-13

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.076	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MW-8

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-14

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.033	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MPWCWELL1

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-19

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.088	
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-5-89FB

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-15

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10-6-89FB

Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 4687 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4687-16

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/07/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: ENSECO - ERCO Contract: _____

Lab Code: ENSECO Case No.: 5001 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5001-2

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 12/06/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/08/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U