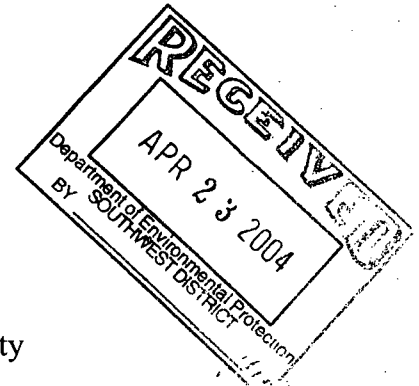


SCS ENGINEERS

April 23, 2004
File No. 09200020.34

Mr. Kim Ford, P.E.
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: Section 8, SCLF Capacity Expansion, Hillsborough County
Pending Permit No.: 35435-009-SC, Construction
FDEP Responses



Dear Mr. Ford:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), SCS Engineers (SCS) submits four copies of the following responses to your request for additional information in a letter dated March 10, 2004. For ease of review, each Florida Department of Environmental Protection (FDEP) comment is reiterated in bold type, followed by our response. We are submitting four copies as requested of all information.

We have provided additional information and replacement pages attached to this letter, using a ~~strike through~~ and underline format, to facilitate review. We have included the revision date as part of the header/footer for all revised pages and provided an original and three copies of all revised materials.

As requested we are providing a summary of all revisions to drawings, indicating the revision on each of the applicable plan sheets. We have used a consistent numbering system for drawings. Any new sheets added to the original plan set use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.

Although some comments did not explicitly request additional information, the intent of all responses was to present revised documents (such as calculations, narrative, technical specifications, QA documentation, plan sheets, etc.), clarification to the item, and/or other information as appropriate. All calculations were signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.

This pending permit application is limited to the construction of Section 8. All other information not specifically required or related to the construction of Section 8 is not the subject of these responses nor a part of this pending permit application. General comments regarding other aspects of the facility development (such as details related to operation and closure) may be provided for information only.



ATTACHMENT 13

**SECTION I
REPLACEMENT SECTION AND NEW FIGURES**

SECTION I

HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS

I.1 HYDROGEOLOGICAL INVESTIGATION AND SITE REPORT

No changes are proposed.

Several studies have been completed that describe the hydrogeologic characteristics of the Capacity Expansion Area. These studies include:

- 1983 report titled, "Hydrogeologic Investigation Southeast County Landfill, Hillsborough County Landfill, Hillsborough County, Florida," prepared by Ardaman & Associates, Inc., Orlando, Florida
- 1997 report titled, "Southeast County Landfill Capacity Expansion Area Hydrogeological/Geotechnical Investigation," prepared by Barnes, Ferland, and Associates, Inc., Orlando, Florida.

I.1(a) Regional and Site Specific Geology and Hydrogeology

No substantial change is proposed. A summary of the regional geology and related hydrogeological units of Hillsborough County was included in Section H of the March 2000 Construction Permit Application for Section 7. In brief, the region is underlain by unconsolidated surficial sediments, both natural and phosphatic waste clays; followed by clastics containing phosphate, clay shell, and limestone; carbonate units; and carbonate units containing evaporites. Geologic cross sections were also included in Section H of the March 2000 Construction Permit Application for Section 7.

Geologic cross sections were prepared for Section 8. Figure I-1 presents the locations of the cross sections and Figures I-2 and I-3 present the north/south and east/west cross sections in detail. The cross sections are consistent with findings of Section 7 and other cross sections prepared previously.

I.1(b) Direction and Rate of Groundwater and Surface Water Flow

No substantial change is proposed. The direction of groundwater and surface water flow was presented in Section I of the September 2002 Operation Permit Application and subsequent responses for Section 7. The direction of groundwater and surface water flow is also applicable to Section 8.

Revised April 19, 2004

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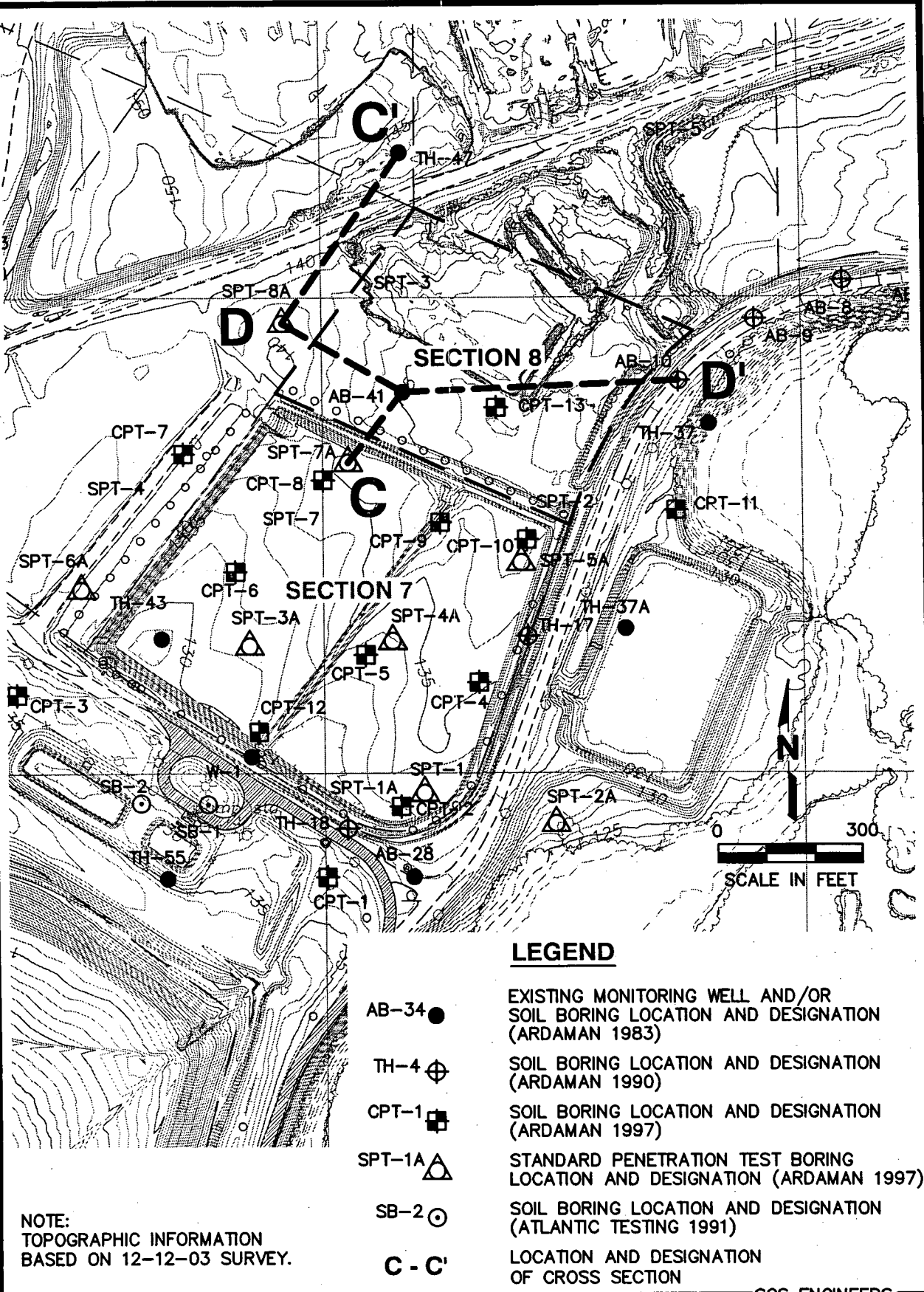
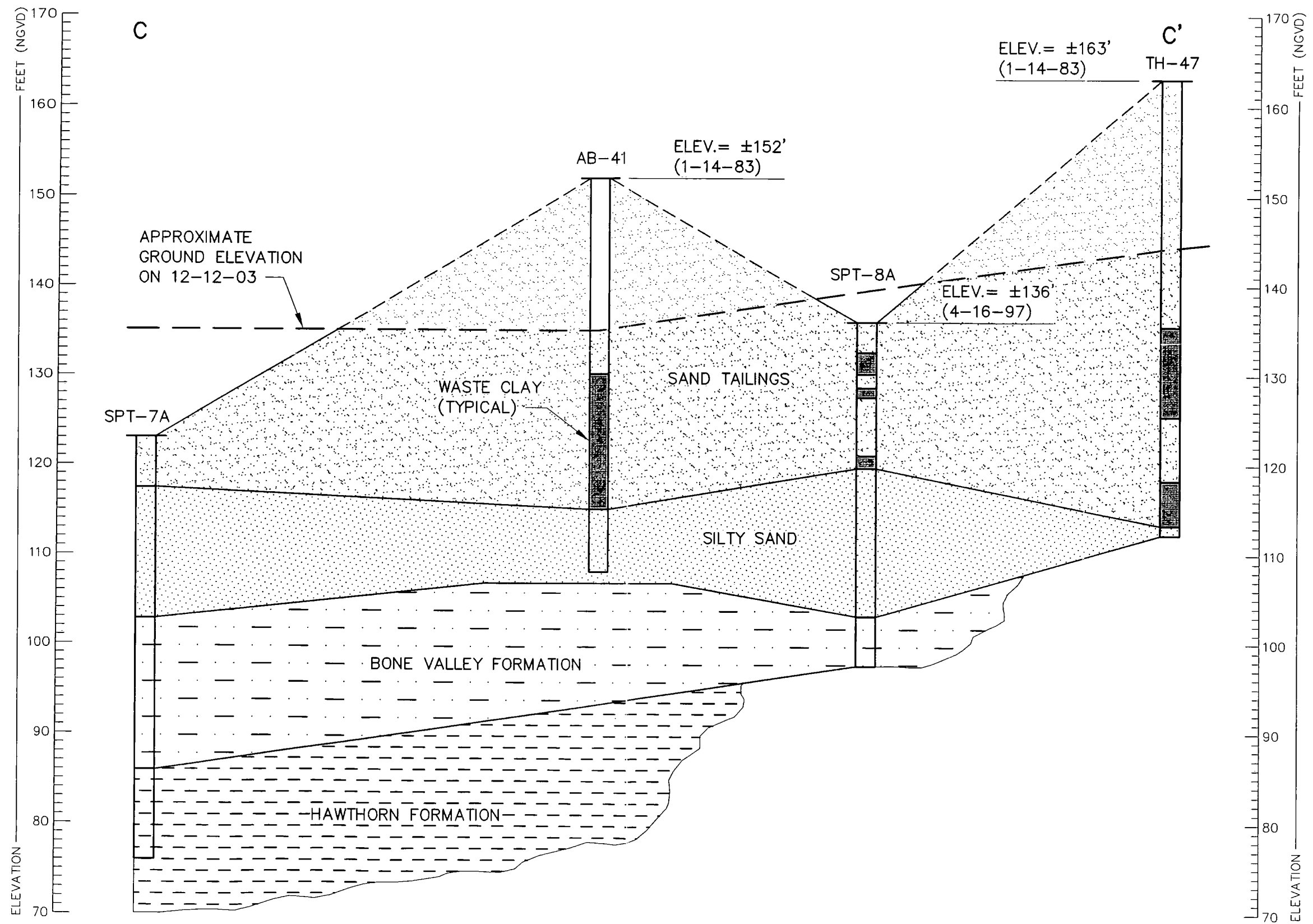


Figure I-1. Location of Geologic Cross Sections at Section 8

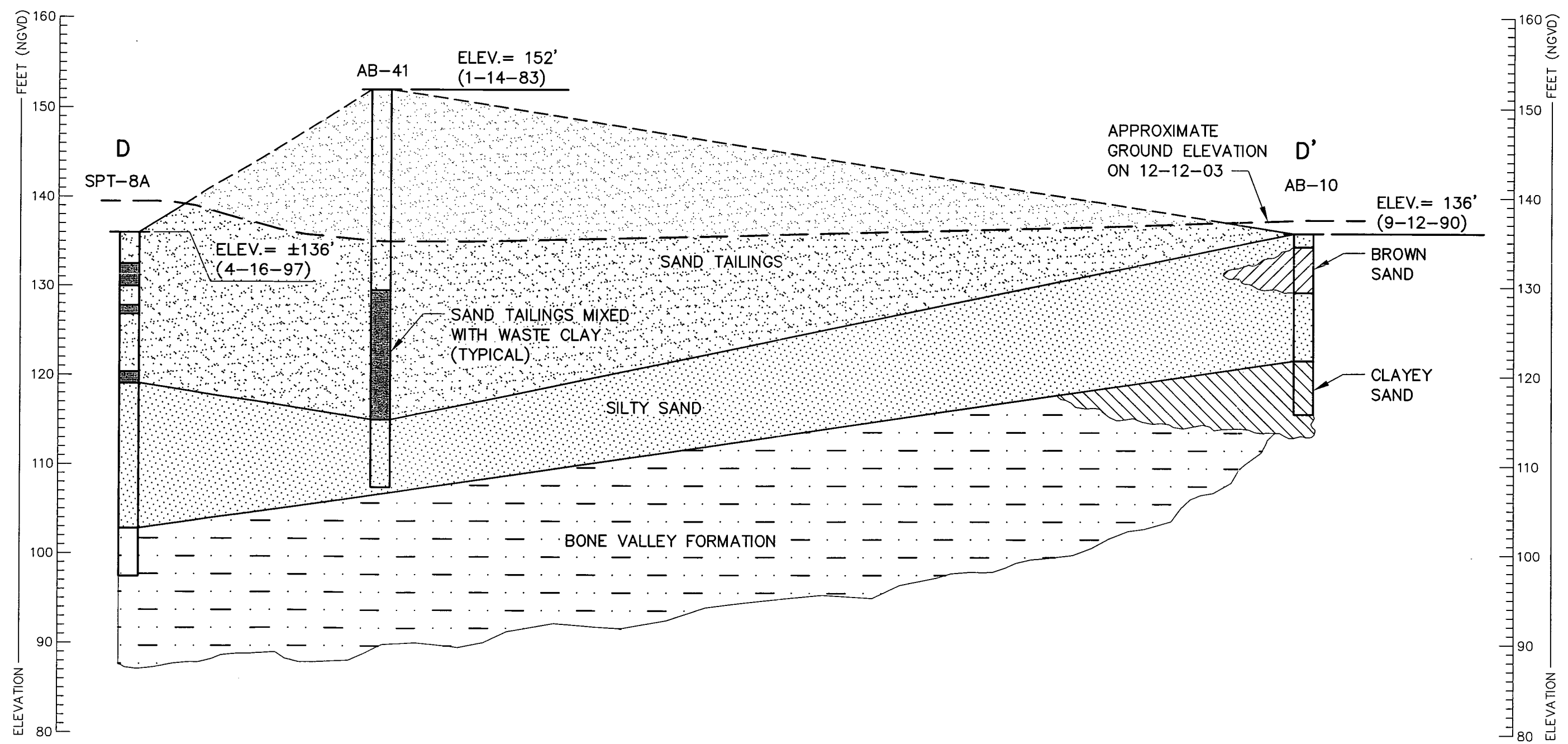
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SCS ENGINEERS

Figure I-2. North-South Geologic Cross Section C-C', Capacity Expansion, Section 8

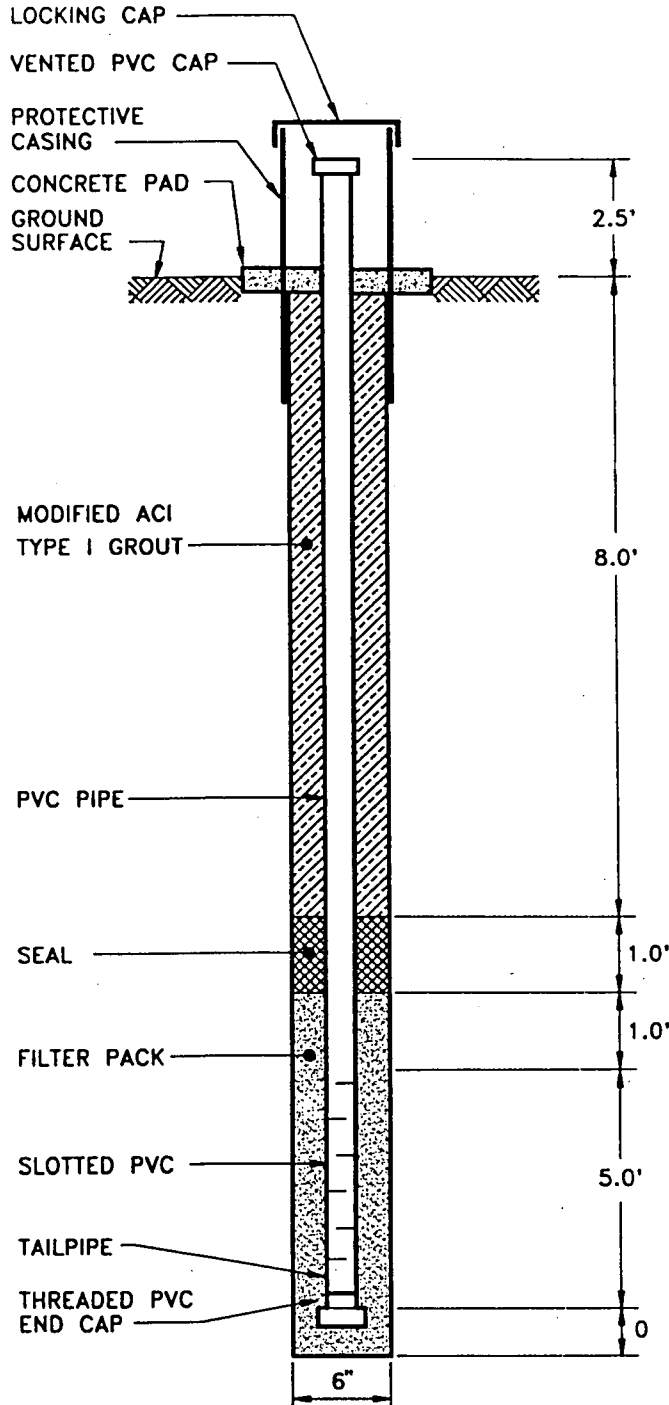
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SCS ENGINEERS

Figure I-3. East-West Geologic Cross Section D-D', Capacity Expansion, Section 8

PIEZOMETER WELL INSTALLATION RECORD P1-D



File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P1-D
 Date Installed: 4-24-97
 Crew Supervisor: E. PARKER
 Well Location: N 1250752.913
 E 442931.011
 TOC (MSL): 129.35

Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2"Ø 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 12.5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 15 ft(BLS)

No. Bags of Cement: 2
 No. Bags of Filter Pack: 8
 Amount of Seal: 25 lbs.

Remarks:

Water Level Readings:
 Date: 4-24-97
 Depth BTOC: 9'0" Depth BLS: 6'6"
 Date:
 Depth BTOC: Depth BLS:



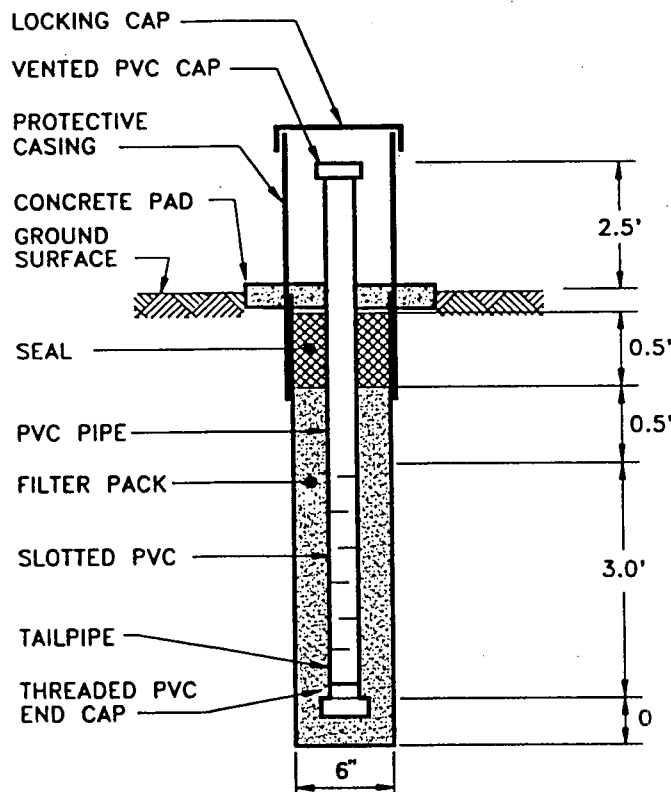
Ardaman & Associates, Inc.
 Consulting Engineers in Soils, Hydrogeology,
 Foundations, and Materials Testing

BLS: = Below Land Surface
 BTOC: = Below Top of Casing
 TOC: = Top of Casing
 MSL: = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P1-S

File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P1-S
 Date Installed: 4-24-97
 Crew Supervisor: E. PARKER
 Well Location: N 1250744.422
 E 442937.500
 TOC (MSL): 129.76



Protective Casing: (size and type)

4" ALUMINUM

Concrete Pad: (size) 2' x 2' x 4"

PVC Pipe: (size and type)

2" SCHEDULE 40, THREADED

Seal: (type) BENTONITE

Filter Pack: (type) 30/65 SILICA SAND

Slotted PVC: (size and type)

2" ϕ 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 3.5 ft(BLS)
 Total Length of Slotted PVC: 3 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 4 ft(BLS)

No. Bags of Cement: NA
 No. Bags of Filter Pack: 3
 Amount of Seal: 25 lbs.

Remarks:

Water Level Readings:

Date: 4-24-97
 Depth BTOC: 5'9" Depth BLS: 3'6"
 Date:
 Depth BTOC: Depth BLS:

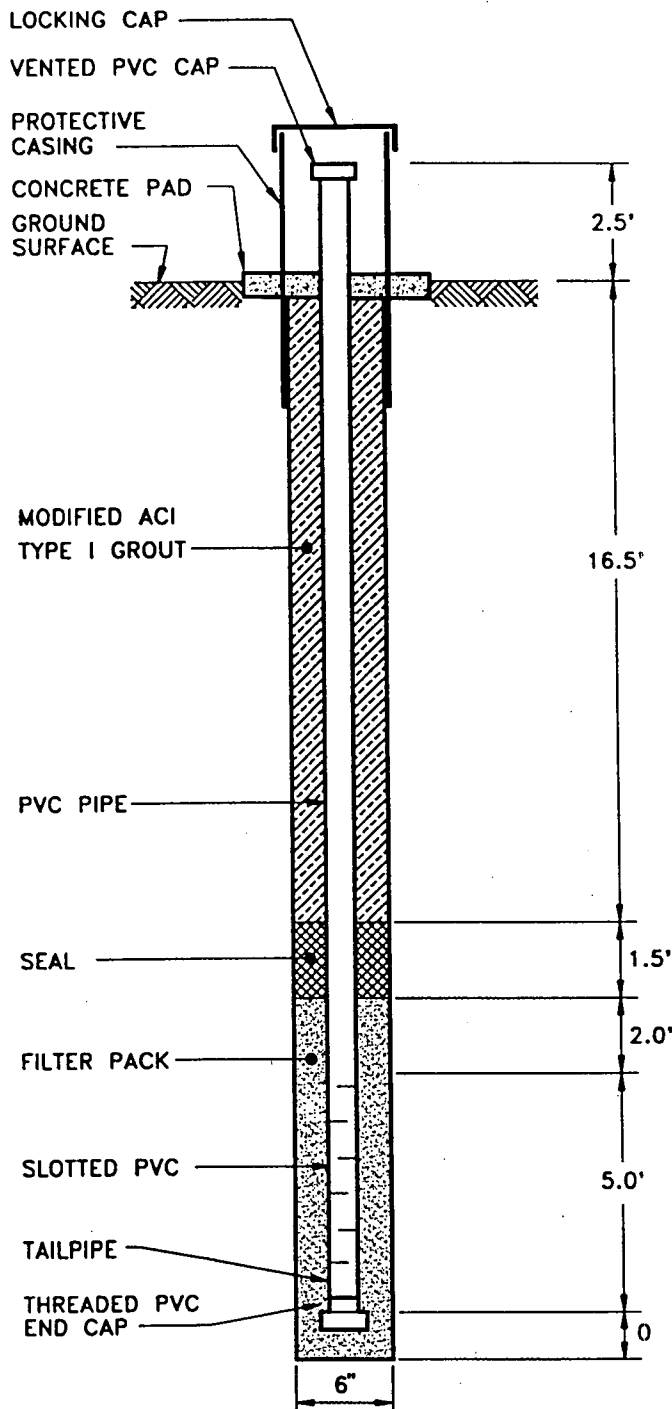


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 Foundations, and Materials Testing

BLS = Below Land Surface
 BTOC = Below Top of Casing
 TOC = Top of Casing
 MSL = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-2D



File No.: 97-9628

Project: SOUTH EAST LANDFILL

Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-2D

Date Installed: 4-24-97

Crew Supervisor: E. PARKER

Well Location: N 1251708.752
E 442844.414

TOC (MSL): 138.59

Protective Casing: (size and type)
4" ALUMINUM

Concrete Pad: (size) 2' x 2' x 4"

PVC Pipe: (size and type)
2" SCHEDULE 40, THREADED

Seal: (type) BENTONITE

Filter Pack: (type) 30/65 SILICA SAND

Slotted PVC: (size and type)
2" Ø 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 22.5 ft(BLS)

Total Length of Slotted PVC: 5 ft(BLS)

Total Length of End Point: 0 ft

Total Depth of Well: 25 ft(BLS)

No. Bags of Cement: 4

No. Bags of Filter Pack: 9

Amount of Seal: 50 lbs.

Remarks:

Water Level Readings:

Date: 4-24-97

Depth BTOC: 21'4" Depth BLS: 18'10"

Date:

Depth BTOC: Depth BLS:



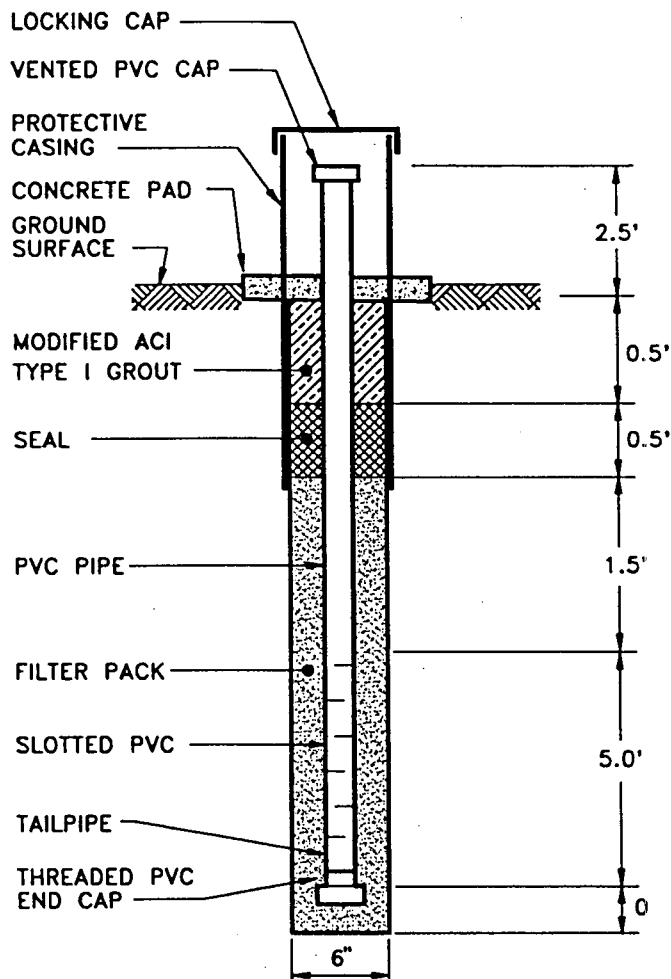
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Foundations, and Materials Testing

BLS: = Below Land Surface
BTOC: = Below Top of Casing
TOC: = Top of Casing
MSL: = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-2S

File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-2S
 Date Installed: 4-24-97
 Crew Supervisor: E. PARKER
 Well Location: N 1251700.153
 E 442849.597
 TOC (MSL): 138.76



Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2"Ø 0.01" SLOTTED WELL SCREEN

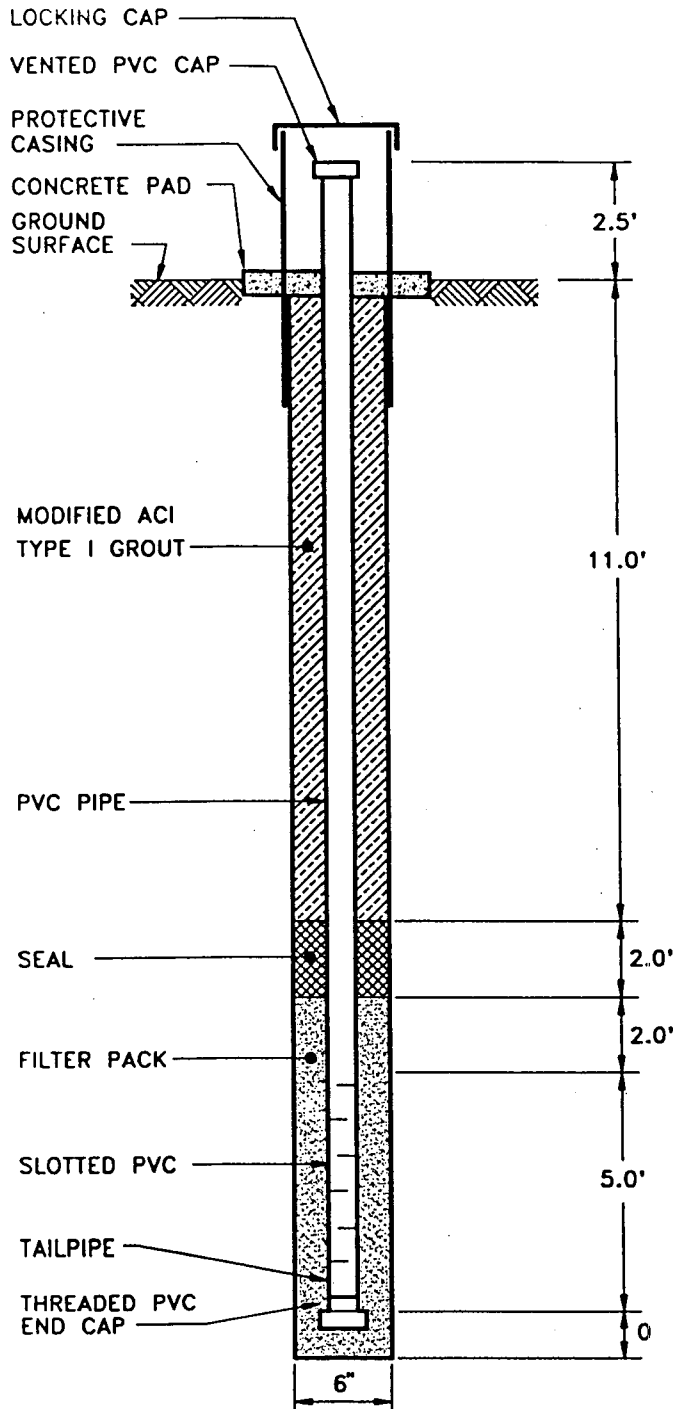
Total Length of PVC Pipe: 5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 7.5 ft(BLS)

No. Bags of Cement: <1
 No. Bags of Filter Pack: 3
 Amount of Seal: 25 lbs.

Remarks:

Water Level Readings:
 Date: 4-24-97
 Depth BTOC: 8'10" Depth BLS: 6'4"
 Date:
 Depth BTOC: Depth BLS:

PIEZOMETER WELL INSTALLATION RECORD P-3D



File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-3D
 Date Installed: 4-24-97
 Crew Supervisor: E. PARKER
 Well Location: N 1251884.384
 E 443578.301
 TOC (MSL): 143.10

Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2" x 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 17.5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 20 ft(BLS)

No. Bags of Cement: 3
 No. Bags of Filter Pack: 3
 Amount of Seal: 50 lbs.

Water Level Readings:
 Date: 4-24-97
 Depth BTOC: 21'6" Depth BLS: 19'0"
 Date: _____
 Depth BTOC: _____ Depth BLS: _____

Remarks: _____



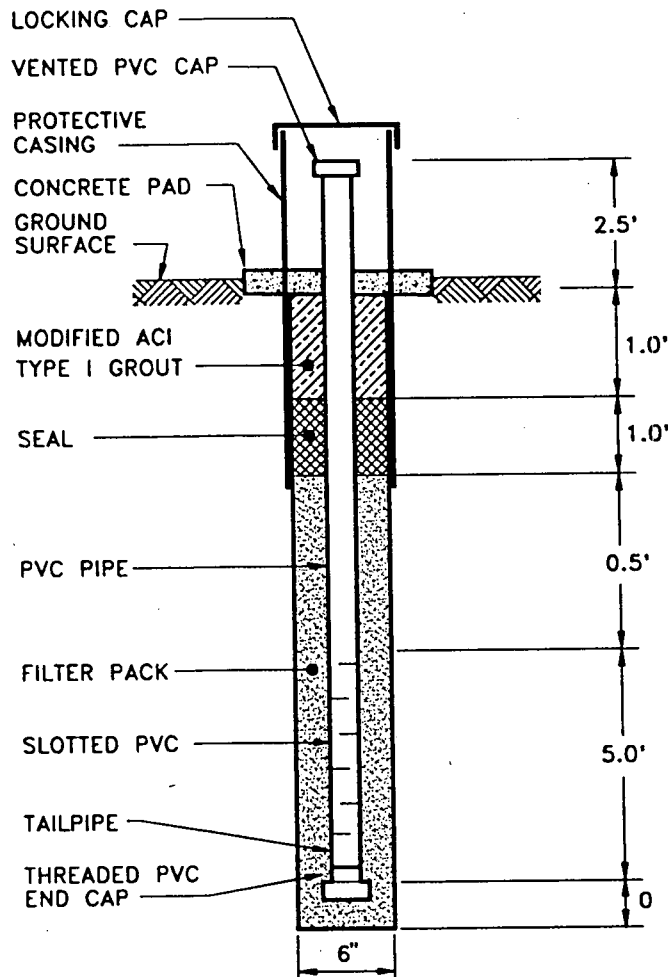
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 Foundations, and Materials Testing

BLS = Below Land Surface
 BTOC = Below Top of Casing
 TOC = Top of Casing
 MSL = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-3S

File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-3S
 Date Installed: 4-24-97
 Crew Supervisor: E. PARKER
 Well Location: N 1251896.462
 E 443580.830
 TOC (MSL): 143.20



Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2" ϕ 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 7.5 ft(BLS)

No. Bags of Cement: <1
 No. Bags of Filter Pack: 3
 Amount of Seal: 25 lbs.

Remarks:

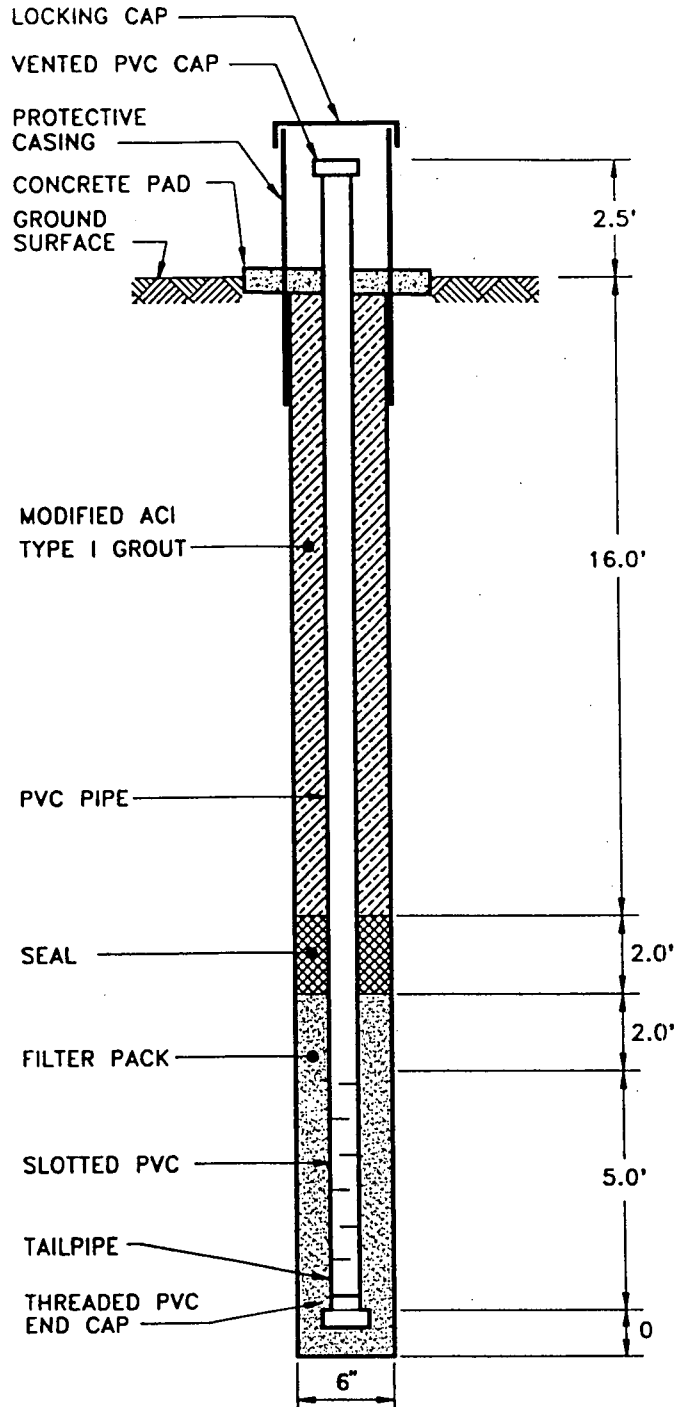
Water Level Readings:
 Date: 4-24-97
 Depth BTOC: 0'0" (DRY) Depth BLS: DRY
 Date:
 Depth BTOC: Depth BLS:



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BLS = Below Land Surface
 BTOC = Below Top of Casing
 TOC = Top of Casing
 MSL = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-4D



File No.: 97-9628

Project: SOUTH EAST LANDFILL

Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-4D

Date Installed: 4-25-97

Crew Supervisor: E. PARKER

Well Location: N 1252160.687

E 442204.283

TOC (MSL): 141.68

Protective Casing: (size and type)
4" ALUMINUM

Concrete Pad: (size) 2' x 2' x 4"

PVC Pipe: (size and type)
2" SCHEDULE 40, THREADED

Seal: (type) BENTONITE

Filter Pack: (type) 30/65 SILICA SAND

Slotted PVC: (size and type)
2" Ø 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 22.5 ft(BLS)

Total Length of Slotted PVC: 5 ft(BLS)

Total Length of End Point: 0 ft

Total Depth of Well: 25 ft(BLS)

No. Bags of Cement: 3

No. Bags of Filter Pack: 3

Amount of Seal: 50 lbs.

Remarks:

Water Level Readings:

Date: 4-25-97

Depth BTOC: 18'2" Depth BLS: 15'8"

Date:

Depth BTOC: Depth BLS:



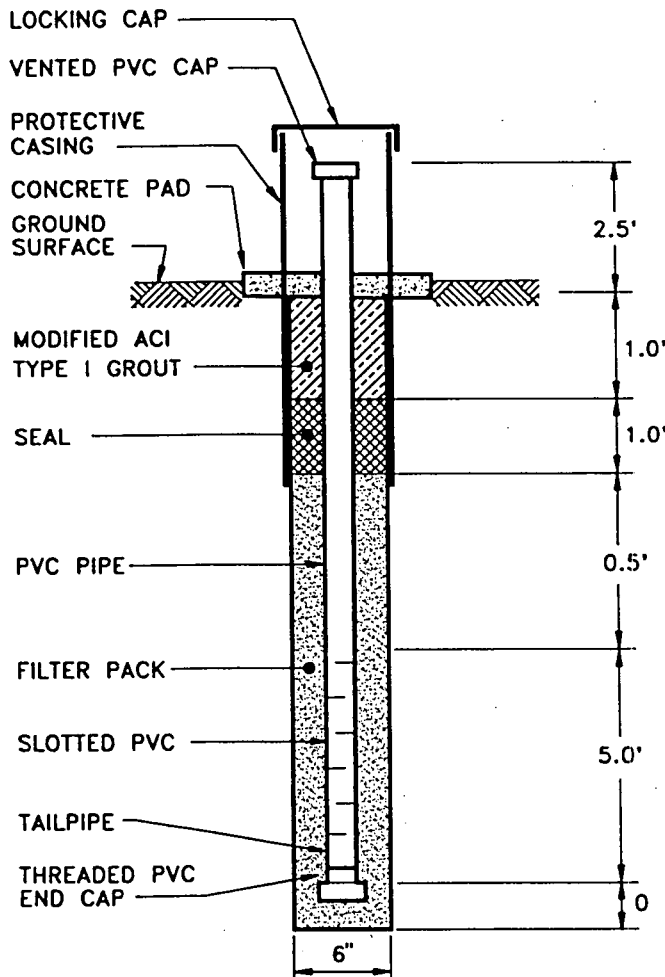
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Foundations, and Materials Testing

BLS: = Below Land Surface
BTOC: = Below Top of Casing
TOC: = Top of Casing
MSL: = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-4S

File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-4S
 Date Installed: 4-25-97
 Crew Supervisor: E. PARKER
 Well Location: N 1252153.106
 E 442200.956
 TOC (MSL): 141.86



Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2" ϕ 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 7.5 ft(BLS)

No. Bags of Cement: 1
 No. Bags of Filter Pack: <1
 Amount of Seal: 25 lbs.

Remarks:

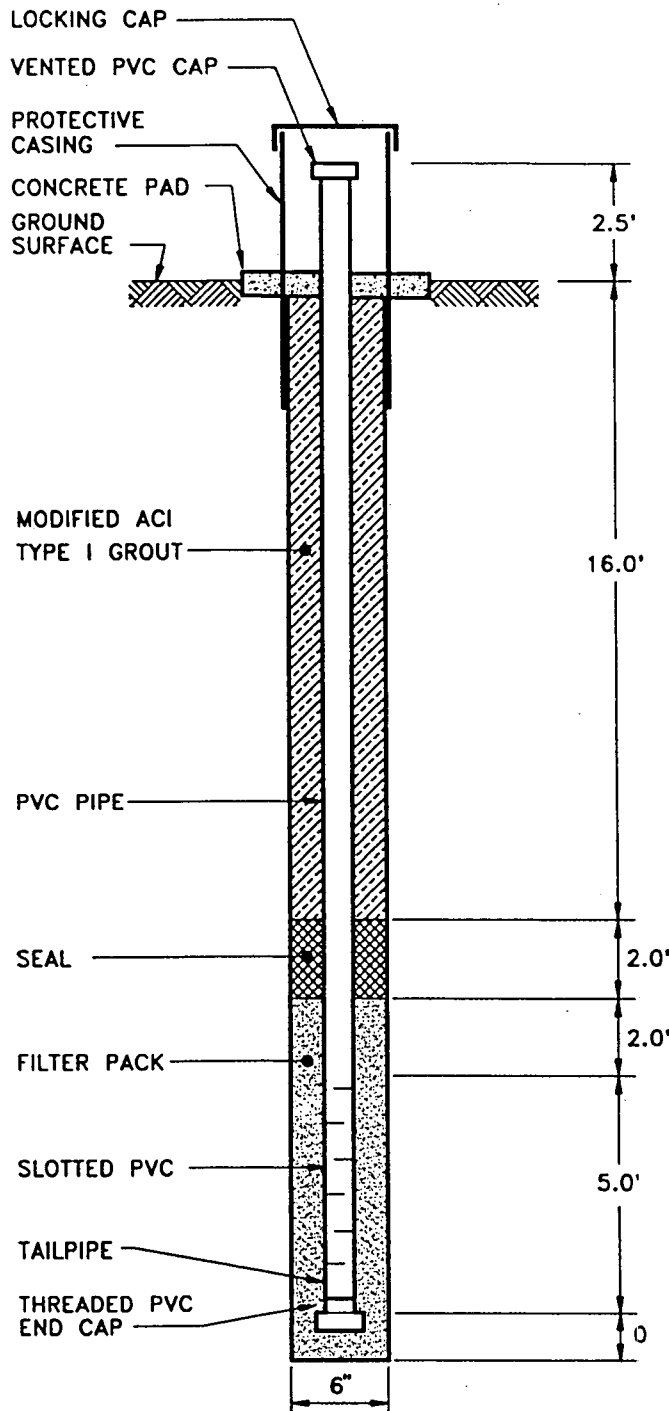
Water Level Readings:
 Date: 4-25-97
 Depth BTOC: 3'8" Depth BLS: 1'2"
 Date:
 Depth BTOC: Depth BLS:



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 Consulting Engineers in Soils, Hydrogeology,
 Foundations, and Materials Testing

BLS: = Below Land Surface
 BTOC: = Below Top of Casing
 TOC: = Top of Casing
 MSL: = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-5D



File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-5D
 Date Installed: 4-29-97
 Crew Supervisor: E. PARKER
 Well Location: N 123584.016
 E 443356.615
 TOC (MSL): 156.75

Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2" ϕ 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 22.5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 25 ft(BLS)

No. Bags of Cement: 4
 No. Bags of Filter Pack: 5
 Amount of Seal: 50 lbs.

Remarks:

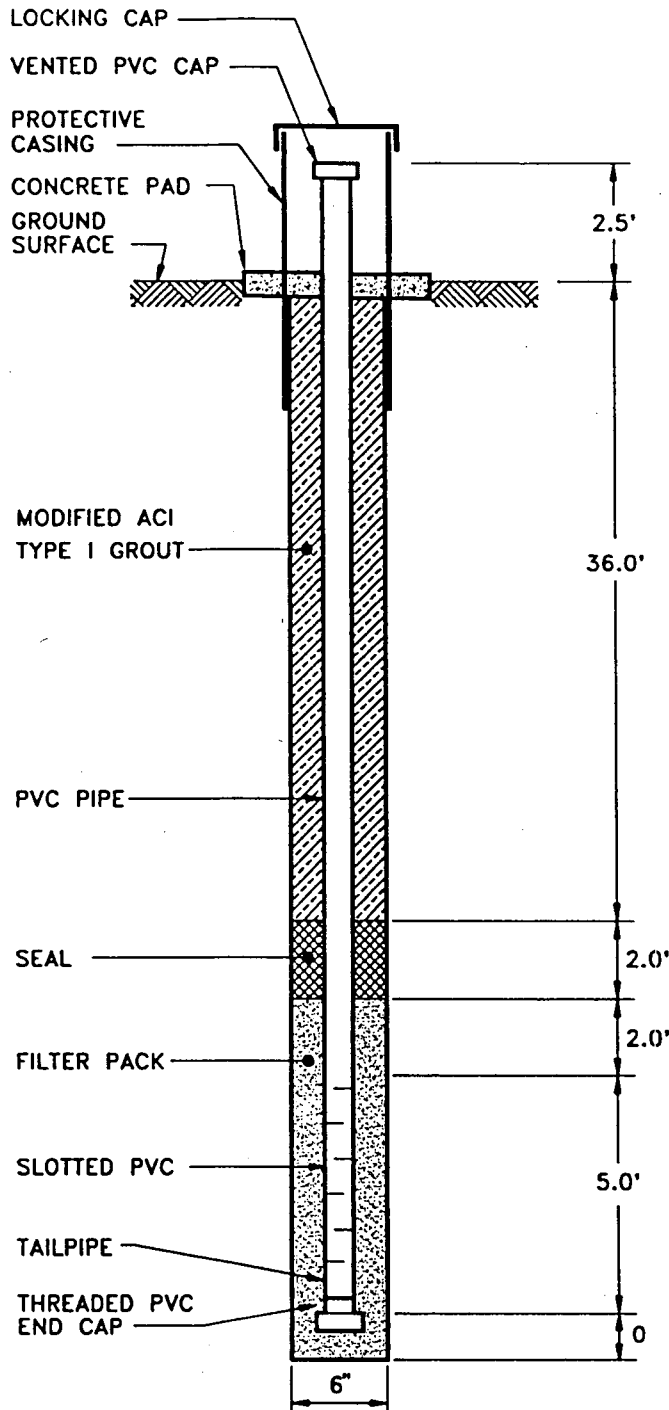
Water Level Readings:
 Date: 4-29-97
 Depth BTOC: 18'2" Depth BLS: 15'8"
 Date:
 Depth BTOC: Depth BLS:



Ardaman & Associates, Inc.
 Consulting Engineers in Soils, Hydrogeology,
 Foundations, and Materials Testing

BLS = Below Land Surface
 BTOC = Below Top of Casing
 TOC = Top of Casing
 MSL = Mean Sea Level

PIEZOMETER WELL INSTALLATION RECORD P-6D



File No.: 97-9628
 Project: SOUTH EAST LANDFILL
 Client: HILLSBOROUGH COUNTY SOLID WASTE DEPT.

Well No.: P-6D
 Date Installed: 5-1-97
 Crew Supervisor: E. PARKER
 Well Location: N 1253248.997
 E 444329.166
 TOC (MSL): 159.03

Protective Casing: (size and type)
 4" ALUMINUM
 Concrete Pad: (size) 2' x 2' x 4"
 PVC Pipe: (size and type)
 2" SCHEDULE 40, THREADED
 Seal: (type) BENTONITE
 Filter Pack: (type) 30/65 SILICA SAND
 Slotted PVC: (size and type)
 2"Ø 0.01" SLOTTED WELL SCREEN

Total Length of PVC Pipe: 42.5 ft(BLS)
 Total Length of Slotted PVC: 5 ft(BLS)
 Total Length of End Point: 0 ft
 Total Depth of Well: 45 ft(BLS)

No. Bags of Cement: 7
 No. Bags of Filter Pack: 3
 Amount of Seal: 50 lbs.

Water Level Readings:
 Date: 5-1-97
 Depth BTOC: 35'7" Depth BLS: 33'1"
 Date:
 Depth BTOC: Depth BLS:

Remarks:



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 Consulting Engineers in Soils, Hydrogeology,
 Foundations, and Materials Testing

BLS: = Below Land Surface
 BTOC: = Below Top of Casing
 TOC: = Top of Casing
 MSL: = Mean Sea Level

^{P15} **WELL COMPLETION REPORT** (Please complete in black ink or type.)

WELL # 591583.03 CUP/WUP # _____ DID # _____

If well is for multiple wells indicate the number of wells drilled _____.

Number of remaining wells to be cancelled _____.

DRILLER WELL CONTRACTOR'S

NATURE George A. Paerlen License # 2368

I certify that the information provided in this report is accurate and true.

Output	No. of Bags	From (Ft.)	To (Ft.)
at Cement:			
Bentonite:	<u>1/2</u>	<u>0.0</u>	<u>0.5</u>

LOCATION: County Hillsborough
 1/4 of NW 1/4 of Section 23 Twp: 31S Rge: 21E

Latitude _____ Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

WATER ANALYSIS WHEN REQUIRED

_____ ppm Sulfate: _____ ppm

Chloride: _____ ppm

Lab Test [] Field Test Kit

Pump Type

Centrifugal [] Jet [] Submersible [] Turbine

Motor power _____ Capacity _____ G.P.M. _____

Intake Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillborough Co. Solid Waste Dept.

COMPLETION DATE 5-1-97 Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet ☒ Auger Other _____

Measured Static Water Level <u>5.7</u>		Measured Pumping Water Level	
After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): <u>Top of Well</u>			
Which is <u>2.5</u> FL ☒ Above [] Below Land Surface			
Casing: [] Black Steel [] Galv. ☒ PVC Other _____			
[] Open Hole ☒ Screen	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
Casing Diameter & Depth (Ft.)	From	To	
Diameter <u>2"</u>	<u>0.0</u>	<u>4.0</u>	<u>4.0' Bl. sand/Phos</u>
From <u>0.0</u>			<u>(Top of well)</u>
To <u>1.0</u>			
			<u>4.0' EOB</u>
Diameter _____			
From _____			
To _____			
Liner [] or Casing []			
Diameter _____			
From _____			
To _____			

Driller's Name: Edward J Paerlen

Form 41.10-410(2) Rev. 6/95

Driller's Name: Edward J PARKER
(print or type)

P-2D?

WELL COMPLETION REPORT (Please complete in black ink or type.)

WIT # 591583.02 CUP/WUP # _____ DID # _____

Well is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

DRILLER CONTRACTOR'S

NATURE Draper & Duda License # 2368

I certify that the information provided in this report is accurate and true.

Material	No. of Bags	From (Ft.)	To (Ft.)
Cement	<u>4</u>	<u>0.0</u>	<u>16.5</u>
Bentonite	<u>1</u>	<u>16.5</u>	<u>18.5</u>

WELL LOCATION: County HILLSBOROUGH

1/4 of NW 1/4 of Section 23 Twp: 31S Rge: 21E

Latitude _____ Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

WATER ANALYSIS WHEN REQUIRED

Chloride: _____ ppm Sulfate: _____ ppm

Iron: _____ ppm

Lab Test [] Field Test Kit

Pump Type

Centrifugal [] Jet [] Submersible [] Turbine

Motor Power _____ Capacity _____ G.P.M. _____

Intake Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Dept

COMPLETION DATE 5-1-97 Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor X

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet X Auger Other _____

Measured Static Water Level <u>21.2'</u>		Measured Pumping Water Level _____	
After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): <u>Top of Well</u>			
Which is <u>2.5</u> Ft. <u>X</u> Above [] Below Land Surface			
Casing: [] Black Steel [] Galv. <u>X</u> PVC Other _____			
[] Open Hole <u>X</u> Screen	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
Casing Diameter & Depth (Ft.)	From	To	
Diameter <u>2"</u>	<u>0.0</u>	<u>9.0</u>	<u>LI. BR. SA w/ LI. BR. CL. & P. NOS (to 1.0 ft.)</u>
From <u>0.0</u>			
To <u>20.0</u>	<u>9.0</u>	<u>25.0</u>	<u>DK. BR. - PR. Silty SA</u>
Diameter _____			<u>25.0 FDB</u>
From _____			
To _____			
Liner [] or Casing []			
Diameter _____			
From _____			
To _____			

Driller's Name:
(print or type)

Edward J. Paeker

P-35

WELL COMPLETION REPORT (Please complete in black ink or type.)

WELL # 591588.05 CUP/WUP # _____ DID # _____

Is for multiple wells indicate the number of wells drilled _____

Remaining wells to be cancelled _____

WELL CONTRACTOR'S

SURETY James A. Parker License # 2368

I certify that the information provided in this report is accurate and true.

Material	No. of Bags	From (Ft.)	To (Ft.)
Cement:	1	0.0	1.0
Grout:	1/2 / 25/bags	1.0	2.0

LOCATION: County HILLSBOROUGH
 1/4 of SE 1/4 of Section 14 Twp: 31S Rge: 21E

Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

WATER ANALYSIS WHEN REQUIRED

_____ ppm Sulfate: _____ ppm

_____ ppm

Lab Test [] Field Test Kit

Type _____

Centrifugal [] Jet [] Submersible [] Turbine

Power _____ Capacity _____ G.P.M. _____

Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Dept

COMPLETION DATE 5-1-97 Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet ☒ Auger Other _____

Measured Static Water Level <u>Not Engr</u>		Measured Pumping Water Level	
After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): <u>Top of Well</u>			
Which is <u>2.5</u> Ft. ☒ Above [] Below Land Surface			
Casing: [] Black Steel [] Galv. ☒ PVC Other _____			
[] Open Hole	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
☒ Screen	From	To	
Casing Diameter & Depth (Ft.)	From	To	
Diameter <u>2"</u>	<u>0.0</u>	<u>7.5</u>	<u>LL. BL. S&W/U. BR CL.</u>
From <u>0.0</u>			<u>g. Phos (Trailing)</u>
To <u>2.5</u>			<u>7.5 EDB</u>
Diameter _____			<u>Water level not Engr at this depth</u>
From _____			
To _____			
Liner [] or Casing []			
Diameter _____			
From _____			
To _____			

Driller's Name: Edward J. Parker
 (print or type)

230 COMPLETION REPORT (Please complete in black ink or type.)

591583.05 CUP/WUP # _____ DID # _____

is for multiple wells indicate the number of wells drilled _____
remaining wells to be cancelled _____

WELL CONTRACTOR'S
NAME George A. Quinn License # 2360

I certify that the information provided in this report is accurate and true.

ft	No. of Bags	From (Ft.)	To (Ft.)
Cement:	<u>3</u>	<u>0.0</u>	<u>11.0</u>
Grout:	<u>1</u>	<u>11.0</u>	<u>13.0</u>

LOCATION: County Hillsborough

1/4 of NE 1/4 of Section 23 Twp: 31S Rge: 21E

Latitude _____ Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

ICAL ANALYSIS WHEN REQUIRED

_____ ppm Sulfate: _____ ppm

ide: _____ ppm

ab Test [] Field Test Kit

o Type

centrifugal [] Jet [] Submersible [] Turbine

epower _____ Capacity _____ G.P.M. _____

p Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Dept.

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet ☒ Auger Other _____

Measured Static Water Level 21.5 Measured Pumping Water Level
After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): TOP OF WELL
Which is 2.5 Ft. ☒ Above [] Below Land Surface
Casing: [] Black Steel [] Galv. ☒ PVC Other _____

Casing Diameter & Depth (Ft.)	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
	From	To	
Diameter <u>2"</u> From <u>0.0</u> To <u>15.0</u>	<u>0.0</u>	<u>12.0</u>	<u>U.B.L. SAW / U.B.L. C.I.</u> <u>& Phos. Tr. lining</u>
	<u>12.0</u>	<u>19.5</u>	<u>BL. S. 1/4 SA</u>
Diameter _____ From _____ To _____	<u>19.5</u>	<u>20.0</u>	<u>GR. BL. SANDY C.I.</u> <u>20.0 FEET</u>
Liner [] or Casing [] Diameter _____ From _____ To _____			

Driller's Name: Edward J. Paerker
(print or type)

P-45
WELL COMPLETION REPORT (Please complete in black ink or type.)

MIT # 591588.01 CUP/WUP # _____ DID # _____

mit is for multiple wells indicate the number of wells drilled _____.

ate remaining wells to be cancelled _____.

ER WELL CONTRACTOR'S

NATURE Boyer & Parker License # 2368

I certify that the information provided in this report is accurate and true.

Material	No. of Bags	From (Ft.)	To (Ft.)
eat Cement:	<u>1</u>	<u>0.0</u>	<u>1.0</u>
entonite:	<u>1/2 / 25 lbs</u>	<u>1.0</u>	<u>2.0</u>

LL LOCATION: County Hillsborough

1/4 of SW 1/4 of Section 14 Twp: 31S Rge: 21E

itude _____ Longitude _____

DATE STAMP

Sketch of well location on property N
A

Official Use Only

EMICAL ANALYSIS WHEN REQUIRED

n: _____ ppm Sulfate: _____ ppm

loride: _____ ppm

| Lab Test [] Field Test Kit

mp Type

| Centrifugal [] Jet [] Submersible [] Turbine

rsepower _____ Capacity _____ G.P.M. _____

mp Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Rep

COMPLETION DATE 5-1-97 Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ✓

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet [] Auger Other _____

Measured Static Water Level 3.8 Measured Pumping Water Level _____
 After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): TOP OF PRL
 Which is 2.5 Ft. [X] Above [] Below Land Surface
 Casing: [] Black Steel [] Galv. [X] PVC Other _____

Casing Diameter & Depth (Ft.)	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
	From	To	
Diameter <u>2"</u> From <u>0.0</u> To <u>2.5</u>	<u>0.0</u>	<u>7.5</u>	<u>LL. BR. SA w/ LL. BR.</u> <u>CL. & PHOS.</u> <u>(F.A.I. NG)</u>
Diameter _____ From _____ To _____			<u>7.5 FDR</u>
Liner [] or Casing [] Diameter _____ From _____ To _____			

Driller's Name: Edward J. Parker
 (print or type)

24-D

WELL COMPLETION REPORT (Please complete in black ink or type.)WELL # 591588.02 CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____

State remaining wells to be cancelled _____

DRILLER WELL CONTRACTOR'S

SIGNATURE Gregory A. Gaudin License # 2368

I certify that the information provided in this report is accurate and true.

Material	No. of Bags	From (Ft.)	To (Ft.)
Grout Cement:	<u>3</u>	<u>0.0</u>	<u>16.0</u>
Bentonite:	<u>1</u>	<u>16.0</u>	<u>18.0</u>

LOCATION: County Hillsborough1/4 of SW 1/4 of Section 14 Twp: 38S Rge: 21E

Latitude _____ Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: _____ ppm Sulfate: _____ ppm

Chloride: _____ ppm

[] Lab Test [] Field Test Kit

Pump Type

[] Centrifugal [] Jet [] Submersible [] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Dept.COMPLETION DATE 5-1-97 Florida Unique I.D. _____WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet [] Auger Other _____

Measured Static Water Level 18.1 Measured Pumping Water Level _____
 After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): TOP OF WELL
 Which is 2.5 Ft. ☒ Above [] Below Land Surface
 Casing: [] Black Steel [] Galv. ☒ PVC Other _____

Casing Diameter & Depth (Ft.)	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
	From	To	
Diameter <u>2</u>	<u>0.0</u>	<u>11.0</u>	<u>BL. SA w/ U. BR CL. &</u>
From <u>0.0</u>			<u>PNDS (To 11.0)</u>
To <u>20.0</u>	<u>11.0</u>	<u>25.0</u>	<u>DK. BR - BR = 1 1/4 SA</u>
Diameter _____			<u>25.0 EDB</u>
From _____			
To _____			
Liner [] or			
Casing []			
Diameter _____			
From _____			
To _____			

Driller's Name:

(print or type) Edward J. Parker

PS-P
WELL COMPLETION REPORT (Please complete in black ink or type.)

WELL # 591588.03 CUP/WUP # _____ DID # _____

Indicate the number of wells drilled _____

Indicate remaining wells to be cancelled _____

WELL CONTRACTOR'S

SIGNATURE Robert S. Parker License # 2368

I certify that the information provided in this report is accurate and true.

Material	No. of Bags	From (Ft.)	To (Ft.)
Cement	<u>4</u>	<u>0.0</u>	<u>16.0</u>
Bentonite	<u>1</u>	<u>16.0</u>	<u>18.0</u>

LOCATION: County Hillsborough

1/4 of ~~Section~~ 1/4 of Section 14 Twp: 31S Rge: 21E

de NW Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: _____ ppm Sulfate: _____ ppm

Chloride: _____ ppm

[] Lab Test [] Field Test Kit

Pump Type

[] Centrifugal [] Jet [] Submersible [] Turbine

Motor power _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Dep

COMPLETION DATE 5-1-97 Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet ☒ Auger Other _____

Measured Static Water Level 27.1 Measured Pumping Water Level _____
 After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): Top of Well
 Which is 2.5 Ft. ☒ Above [] Below Land Surface
 Casing: [] Black Steel [] Galv. ☒ PVC Other _____

Casing Diameter & Depth (Ft.)	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
	From	To	
Diameter <u>2"</u> From <u>0.0</u> To <u>20.0</u>	<u>0.0</u>	<u>13.0</u>	<u>BR. S&W/L. BRCI.</u> <u>PHOS. (To 1.1 in)</u>
	<u>13.0</u>	<u>25.0</u>	<u>DBR. - BR. S. 14, 3A</u>
Diameter _____ From _____ To _____			<u>25.0 EOB</u>
Liner [] or Casing [] Diameter _____ From _____ To _____			

Driller's Name:
(print or type)

Edward J PARKER

26-D **WELL COMPLETION REPORT** (Please complete in black ink or type.)

WELL # 591588.04 CUP/WUP # _____ DID # _____

WELL is for multiple wells indicate the number of wells drilled _____

Wells remaining wells to be cancelled _____

WELL CONTRACTOR'S

WELL CONTRACTOR'S NAME George A. Parker License # 2368

I certify that the information provided in this report is accurate and true.

Material	No. of Bags	From (Ft.)	To (Ft.)
Cement	7	0.0	38.0
Bentonite	1	38.0	38.0

WELL LOCATION: County Hillsborough
 1/4 of SE 1/4 of Section 14 Twp: 31S Rge: 21E

Latitude _____ Longitude _____

DATE STAMP

Sketch of well location on property

N
A

Official Use Only

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: _____ ppm Sulfate: _____ ppm

Chloride: _____ ppm

[] Lab Test [] Field Test Kit

Well Type

[] Centrifugal [] Jet [] Submersible [] Turbine

Motorpower _____ Capacity _____ G.P.M. _____

Well Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev. 6/95

OWNER'S NAME Hillsborough Co. Solid Waste Dept.

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____ Monitor ☒

HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [] Rotary [] Cable Tool [] Combination

[] Jet ☒ Auger Other _____

Measured Static Water Level 35.6' Measured Pumping Water Level _____
 After _____ Hours at _____ G.P.M. Measuring Pt. (Describe): Top of Well
 Which is 2.5 Ft. [] Above [] Below Land Surface
 Casing: [] Black Steel [] Galv. ☒ PVC Other _____

Casing Diameter & Depth (Ft.)	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color Grain Size Type of Material
	From	To	
Diameter <u>2"</u>	0.0	20.0	BL. SA w/ Phos (Top 1 in)
From <u>0.0</u>	20.0	35.0	BL. SA w/ Phos (Top 1 in)
To <u>40.0</u>	35.0	45.0	DK BL. BL. Silty SA
Diameter _____			45.0 EOB
From _____			
To _____			
Liner [] or Casing []			
Diameter _____			
From _____			
To _____			

Driller's Name: Edward J Parker
 (print or type)



Hillsborough Southeast County Landfill -- latitude/longitude locations for environmental monitoring locations												
well name	lat_dd	lat_mm	lat_ss	long_dd	long_mm	long_ss	elevation	surv_rec'd	insp_date	location	site area	
TH-19/TH-19A	27	46	38.2	82	10	12.9	152 ft	7/23/2002		Hills SELF	Phases I - VI	
TH-22/TH-22A	27	46	12	82	11	8.8	153 ft	7/23/2002		Hills SELF	Phases I - VI	
TH-28/TH-28A	27	46	32.7	82	11	19.7		(Recheck)	11/18/2002	Hills SELF	Phases I - VI	
TH-30	27	46	44.3	82	11	9	115 ft		11/18/2002	Hills SELF	Phases I - VI	
TH-38A/TH-38B	27	46	20.2	82	10	37.2	204 ft	7/23/2002		Hills SELF	Phases I - VI	
TH-40	27	46	17.1	82	11	27.2	125 ft	7/23/2002		Hills SELF	Phases I - VI	
TH-57	27	46	27.9	82	11	21.9		(Recheck)	4/9/2003	Hills SELF	Phases I - VI	
TH-58	27	46	39.1	82	11	16.1		(Recheck)	4/9/2003	Hills SELF	Phases I - VI	
TH-65	27	46	27.5	82	10	35.6	43.1 m		7/30/2003	Hills SELF	Phases I - VI	
TH-66	27	46	20.3	82	10	39.1	47.0 m		7/30/2003	Hills SELF	Phases I - VI	
TH-67	27	46	16.6	82	10	40.1	137 ft		10/4/2005	Hills SELF	Phases I - VI	
Leachate effluent (Pond A)	27	46	29.9	82	10	39.7	115 ft		11/18/2002	Hills SELF	Phases I - VI	
Leachate influent (Sampling @ PPS-A)	27	46	41	82	11	5			4/9/2003	Hills SELF	Phases I - VI	
well name	lat_dd	lat_mm	lat_ss	long_dd	long_mm	long_ss	elevation	surv_rec'd	insp_date	location	site area	
TH-36A	27	46	41.9	82	10	15.3	126 ft	7/23/2002		Hills SELF	Section 7	
TH-59	27	46	36.8	82	10	39.6	150 ft		10/4/2005	Hills SELF	Section 7	
TH-60	27	46	35	82	10	41.5	176 ft		10/4/2005	Hills SELF	Section 7	
TH-61 (P-9D)	27	46	29.2	82	10	33.4	48.7 m		7/30/2003	Hills SELF	Section 7	
TH-64	27	46	32.6	82	10	31.6	130 ft		10/4/2005	Hills SELF	Section 7	
Leachate influent (Sampling @ Sect. 7)	27	46	32.8	82	10	41.7			4/9/2003	Hills SELF	Section 7	
TH-59C	27	46	37.5	82	10	39.7			4/7/2006	Hills SELF	Section 7	
TH-60C	27	46	34.9	82	10	42			4/7/2006	Hills SELF	Section 7	
well name	lat_dd	lat_mm	lat_ss	long_dd	long_mm	long_ss	elevation	surv_rec'd	insp_date	location	site area	
TH-62	27	46	40	82	10	36.8			4/7/2006	Hills SELF	Section 8	
TH-63	27	46	42.2	82	10	35.3			4/7/2006	Hills SELF	Section 8	
TH-68	27	46	37.8	82	10	29.2			4/7/2006	Hills SELF	Section 8	
well name	lat_dd	lat_mm	lat_ss	long_dd	long_mm	long_ss	elevation	surv_rec'd	insp_date	location	site area	
TH-61A	27	46	28.9	82	10	33.6			8/26/2008	Hills SELF	Section 9	
TH-69	27	46	38.1	82	10	47.1			8/26/2008	Hills SELF	Section 9	
TH-70	27	46	40.8	82	10	44.4			8/26/2008	Hills SELF	Section 9	
TH-71	27	46	44.3	82	10	41.7			8/26/2008	Hills SELF	Section 9	
Leachate influent (Sampling @ Sect. 9)	27	46	34.7	82	10	44.8			8/26/2008	Hills SELF	Section 9	
well name	lat_dd	lat_mm	lat_ss	long_dd	long_mm	long_ss	elevation	surv_rec'd	insp_date	location	site area	
3A	27	46	12	82	11	34.8	125 ft	7/23/2002		Hills SELF	Surface water	
3B2B	27	46	48.4	82	11	19.4	82 ft	7/23/2002		Hills SELF	Surface water	
3C2	27	47	3.4	82	11	26.4	102 ft	7/23/2002		Hills SELF	Surface water	
Smith Lake 1-A (Staff gauge location)	27	46	38.5	82	10	12	139 ft		11/18/2002	Hills SELF	Surface water	
Smith Lake 1-D (Sampling location)	27	46	21	82	10	36.6			4/9/2003	Hills SELF	Surface water	
well name	lat_dd	lat_mm	lat_ss	long_dd	long_mm	long_ss	elevation	surv_rec'd	insp_date	location	site area	
TH-20A/TH-20B	27	46	13.2	82	10	45.4	177 ft	7/23/2002		Hills SELF	Inactive wells	
TH-24/TH-24A	27	34	3.3	82	11	53		7/23/2002		Hills SELF	Inactive wells	
TH-26	27	46	23.2	82	11	25.2		(Recheck)	4/9/2003	Hills SELF	Inactive wells	
TH-32	27	46	56.6	82	10	55.8	150 ft	7/23/2002		Hills SELF	Inactive wells	
TH-35	27	47	0.6	82	10	18	124 ft	7/23/2002		Hills SELF	Inactive wells	
TH-35A	27	47	3.8	82	10	13	47.2 m		7/30/2003	Hills SELF	Inactive wells	
TH-41	27	46	13.7	82	11	24.4	52.3 m		7/30/2003	Hills SELF	Inactive wells	
TH-42	27	46	57.6	82	10	55.5	128 ft		11/18/2002	Hills SELF	Inactive wells	
TH-56	27	46	39.8	82	10	58.5	118 ft	7/23/2002		Hills SELF	Inactive wells	
P-4S	27	46	43.8	82	10	42.8			8/11/2006	Hills SELF	Inactive wells	
P-4D	27	46	43.8	82	10	42.8			8/11/2006	Hills SELF	Inactive wells	
P-5D (P-5S??)	27	46	58	82	10	29.9			8/26/2008	Hills SELF	Inactive wells	
P-6D	27	46	54.3	82	10	19.1	159 ft		11/18/2002	Hills SELF	Inactive wells	
P-7D	27	46	39.7	82	10	26.8			7/13/2007	Hills SELF	Inactive wells	
P-8D	27	46	27.6	82	10	35.5			7/13/2007	Hills SELF	Inactive wells	
P-11D	27	46	31.4	82	10	41.7			7/13/2007	Hills SELF	Inactive wells	

**TABLE 2-2. MONITORING WELL CHARACTERISTICS SUMMARY
SOUTHEAST COUNTY LANDFILL**

Well No.	Purpose	Aquifer Monitored ¹	Appx Elevation at Well ² Ft., NGVD	Top of Screen or Open Hole		Length Of Screen Or Open Hole, Ft	Total Depth		MP ⁵	MP Elev Ft, NGVD	Construction Date	Last Survey Date	Historical Water Level	
				Ft, BLS ³	Ft, NGVD ⁴		Ft, BLS	Ft, NGVD					High (Ft. NGVD)	Low
TH-19	Background	Floridan	127.50	146.0	-18.68	5	151.0	-23.68	TPVC ⁶	130.05	12/82	3/97		
TH-22	Background	Surficial	126.37	5-0	121.85	20	25-0	101.85	TPVC	128.82	12/82	3/97		
TH-28	Detection	Surficial	128.35	26-0	102.75	5	31-0	97.75	TPVC	130.60	12/82	3/97		
TH-30	Detection	Surficial	126.09	23-0	103.34	20	43-0	83.34	TPVC	128.37	12/82	3/97		
TH-38A	Background	Surficial	128.36	14-0	114.69	5	19-0	109.69	TPVC	131.20	12/82 ⁸	3/97		
TH-22A ⁹	Background	Surficial	126	2	124	10	12	114 ¹¹	TPVC	TBD ¹⁰	TBD	TBD	126.12 ¹²	122.20 ¹²
TH-28A ⁹	Detection	Surficial	128	18	110	10	28	100 ¹¹	TPVC	TBD ¹⁰	TBD	TBD	107.84 ¹³	102.88 ¹³
TH-38B ⁹	Background	Surficial	128	2	126	10	12	116 ¹¹	TPVC	TBD ¹⁰	TBD	TBD	125.60 ¹⁴	118.74 ¹⁴
TH-40	Detection	Floridan	122.05	158.0	-35.70	5	163.0	-40.7	TPVC	124.77	12/82	3/97		
TH-57	Detection	Surficial	ND ⁷	14	111.09	10	24	101.09	TPVC	128.09	12/82	3/97		
TH-58	Detection	Surficial	ND	18	109.67	10	28	99.67	TPVC	127.67	12/82	3/97		

Data from Hillsborough County Solid Waste Management Department

Notes:

1. Aquifer from which the well is deriving its water.
2. Elevation of brass disk set in concrete pad.
3. Below land surface
4. National Geodetic Vertical Datum of 1929.
5. Measuring point
6. Top of PVC Casing

7. No data

8. TH-38 drilled in 1982 and replaced by TH-38A in 1987.

9. Proposed replacement well.

10. TBD - to be determined.

11. More precise elevations will be listed following well construction and surveying.

12. Historical high or low for TH-22

13. Historical high or low for TH-28

14. Historical high or low for TH-38A

REC'D 3/4/02, PART OF SCS ENGINEERS
RAE RESPONSES FOR OPERATING PERMIT RENEWAL

Revised March 4, 2002

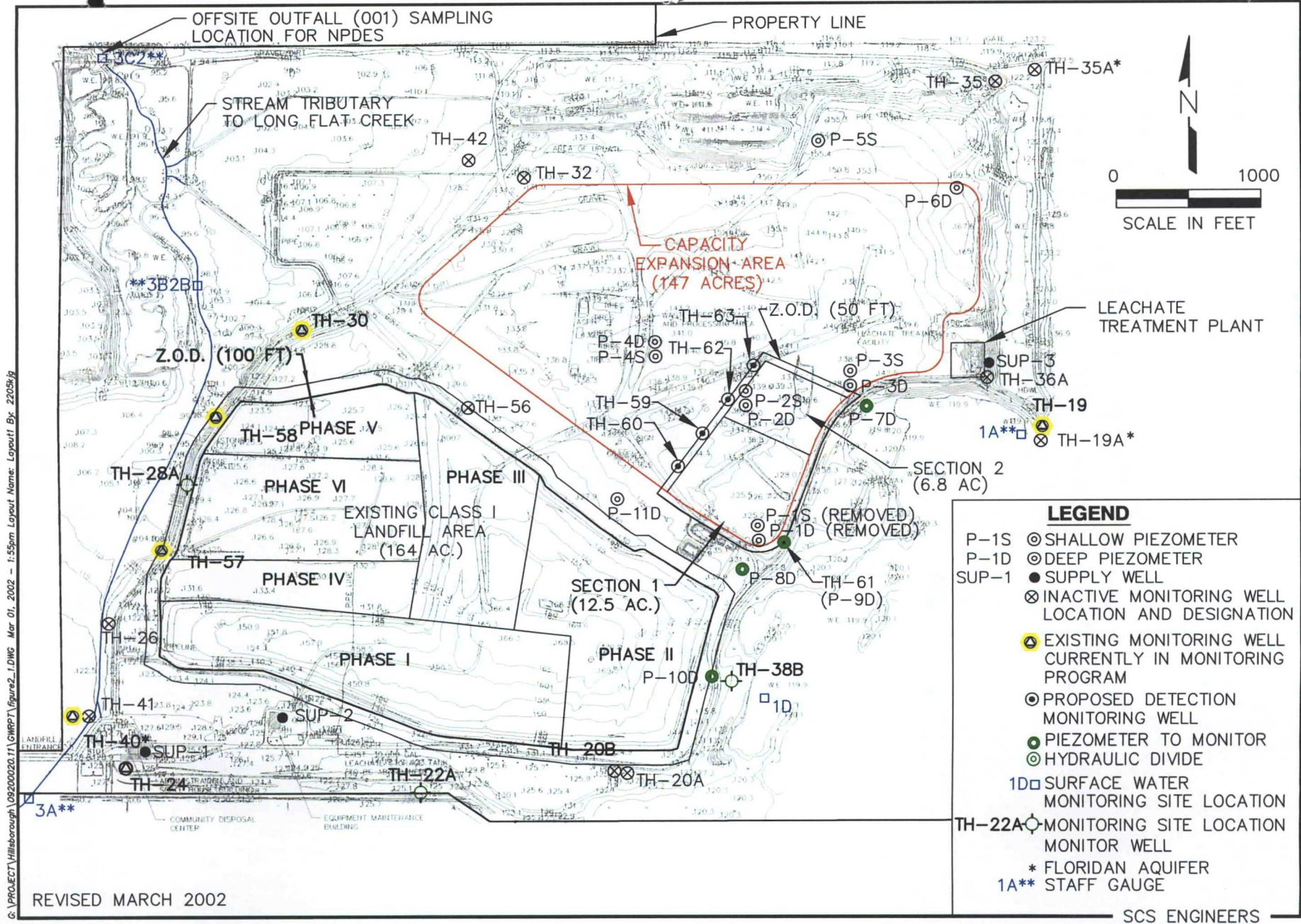


Figure 2-1. Location of Monitoring Wells, Piezometers, and Surface Water Sampling Points.