MORRISON KNUDSEN CORPORATION
MK-FERGUSON GROUP
2420 MALL DRIVE
CORPORATE SQUARE ONE, SUITE 211
N. CHARLESTON, SC 29406

Transmittal Letter

Project Name: SOUTHDIV ERAC CONTRACT N62467-93-D-1106	Transmittal No. 94-4324-2319 / Work Order No. 4324
	Date: February 18, 1998
To: Robert J. Meddick, Contracting Officer Department of the Navy Southern Division Naval Facilities Engineering Command 2155 Eagle Drive N. Charleston, SC 29419-9010	REFERENCES Item: DO 0014 SOW 015 NIROP Fridley Equipment No. Purchase Order No. Vendor Order No

TRANSMITTED HEREWITH	FOR STATUS NOTED
For: ☐ Review and comment ☐ Approval ☐ Record ☐ Information	Reviewed A Reviewed as Noted - Resubmit B Not Reviewed - Resubmit C For Information D

QUANTITY	ITEM	TITLE/DESCRIPTION

DO 0014 SOW 015 NIROP Fridley

The following document is attached for distribution:

Completion Report Anoka Park Data Acquisition Work, NIROP Fridley, Fridley, Minnesota
Revision 0, dated January 27, 1998

I hereby certify that the document shown and marked in this submittal complies with Contract Number N62467-93-D-1106 and is submitted for GOVERNMENT APPROVAL.

Certified by QC Manager _____ **Date** 2/18/98

Attachment

By: [signature]
Name: R. S. Newman
Title: Program Manager
SOUTHDIV RAC II

File 11-2.14 T/L Only
11-10 T/L Only

Distribution	**Copies Issued**
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Scott Glass	1
Morrison Knudsen Corporation	
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Elise Allen	T/L Only
Han Maung	1
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File 11-10	T/L Only

Completion Report
Anoka Park Data Acquisition Work

NIROP Fridley
Fridley, Minnesota

Unit Identification Code: N62604
Contract No. N62467-93-D-1106

January 1998

Revision 0

Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina
29419-9010

ERRATA SHEET

COMPLETION REPORT
ANOKA COUNTY DATA ACQUISITION WORK

NIROP FRIDLEY, MINNESOTA

DO # 0014, SOW # 15

JANUARY 27, 1998

Note: Southern Division comments and responses are provided below.

1. Signature Sheet

   COMMENT: Provide a new signature sheet.

   RESPONSE: Agreed. A new signature sheet is provided.

2. Appendix A

   COMMENT: Obtain the Right of Entry agreement from Anoka County Park and provide a copy in Appendix A.

   RESPONSE: Agreed. A copy of Right of Entry agreement was inserted in Appendix A.

done

COMPLETION REPORT
FOR
ANOKA PARK DATA ACQUISITION WORK

NIROP FRIDLEY
FRIDLEY, MINNESOTA

January 27, 1998

CONTRACT N62467-93-D-1106
DELIVERY ORDER #0014
STATEMENT OF WORK #15

Prepared for

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 Eagle Drive
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Prepared by:

MORRISON KNUDSEN CORPORATION
2420 Mall Drive
Corporate Square 1 - Suite 211
North Charleston, South Carolina 29406

PREPARED/APPROVED BY:

Han Maung
MK Project Engineer

02-Mar-98
Date

APPROVALS:

Scott Newman
MK Program Manager

06 Mar 98
Date

EXECUTIVE SUMMARY

This Completion Report provides a brief description of field activities and presents the results of data acquisition work performed at the Anoka County Park in Fridley, Minnesota. The data acquisition work included piezocone sounding and ground-water sampling using Cone Penetrometer Technology (CPT), and laboratory analyses of ground-water samples. The objectives of the data acquisition work were to provide preliminary hydrogeologic and subsurface contaminant information at Anoka County Park.

Morrison Knudsen Corporation (MK) was responsible for performing the field work and laboratory analyses. The field work for CPT was performed from 30 October 1997 to 10 December 1997. Piezocone soundings were performed at 89 locations up to a depth 100 feet below ground surface. Ground-water samples were collected from 87 locations. Laboratory analyses of ground-water samples were performed for determination of Trichloroethene (TCE) concentration.

The evaluation and interpretation of the results will be performed by Brown and Root Environmental (BRE). MK has already provided the results of the field work and laboratory analyses that are presented in this Completion Report, to Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) and BRE for their evaluation.

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ACRONYMS AND ABBREVIATIONS

BRE	Brown and Root Environmental
cm	centimeters
COC	chain-of-custody
CPT	Cone Penetration Technology
Fs	Sleeve friction
IDW	investigation derived waste
MK	Morrison Knudsen Corporation
MPCA	Minnesota Pollution Control Agency
MS	sample matrix spike
MSD	sample matrix spike duplicate
MSL	mean sea level
NIROP	Naval Industrial Reserve Ordnance Plant
POTW	publicly owned treatment works
PPE	personnel protective equipment
Qc	Tip resistance
QC	Quality control
REICC	Resident Engineer-in-Charge of Construction
RPM	Remedial Project Manager
SOUTHNAVFACENGCOM	Southern Division Naval Facilities Engineering Command
sq.cm.	square centimeters
TCE	Trichloroethene
Ut	Dynamic pore pressure

1.0
INTRODUCTION

1.1 BACKGROUND AND OBJECTIVES

This Completion Report has been prepared by Morrison Knudsen Corporation (MK) for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), under contract number N62467-93-D-1106, Delivery Order 0014, Statement of Work 015.

This Completion Report provides a brief description of field activities and presents the results of data acquisition work performed at the Anoka County Park in Fridley, Minnesota. The data acquisition work included piezocone sounding and ground-water sampling using Cone Penetrometer Technology (CPT), and laboratory analyses of ground-water samples. The objectives of the data acquisition work were to provide preliminary hydrogeologic and subsurface contaminant information at Anoka County Park.

MK was responsible for performing the field work and laboratory analyses. Field work was performed from 30 October 1997 to 10 December 1997. MK's subcontractors were Gregg In Situ, Inc. and Southwest Laboratory of Oklahoma, Inc. for the CPT and analytical laboratory services respectively.

The Remedial Project Manager (RPM) and Resident Engineer-in-Charge of Construction (REICC) of SOUTHNAVFACENGCOM and a representative from the Minnesota Pollution Control Agency (MPCA) provided oversight during field activities. The REICC was provided with the Daily Contractor Production Report and Quality Control Report. As directed by the RPM, field activities were recorded in video tape in lieu of photographs and the video tape was provided to the RPM.

1.2 PLANNING DOCUMENTS

The following documents were used to plan the data acquisition work.

Work Plan for Data Acquisition Work, Revision 0, [MK 1997], including:

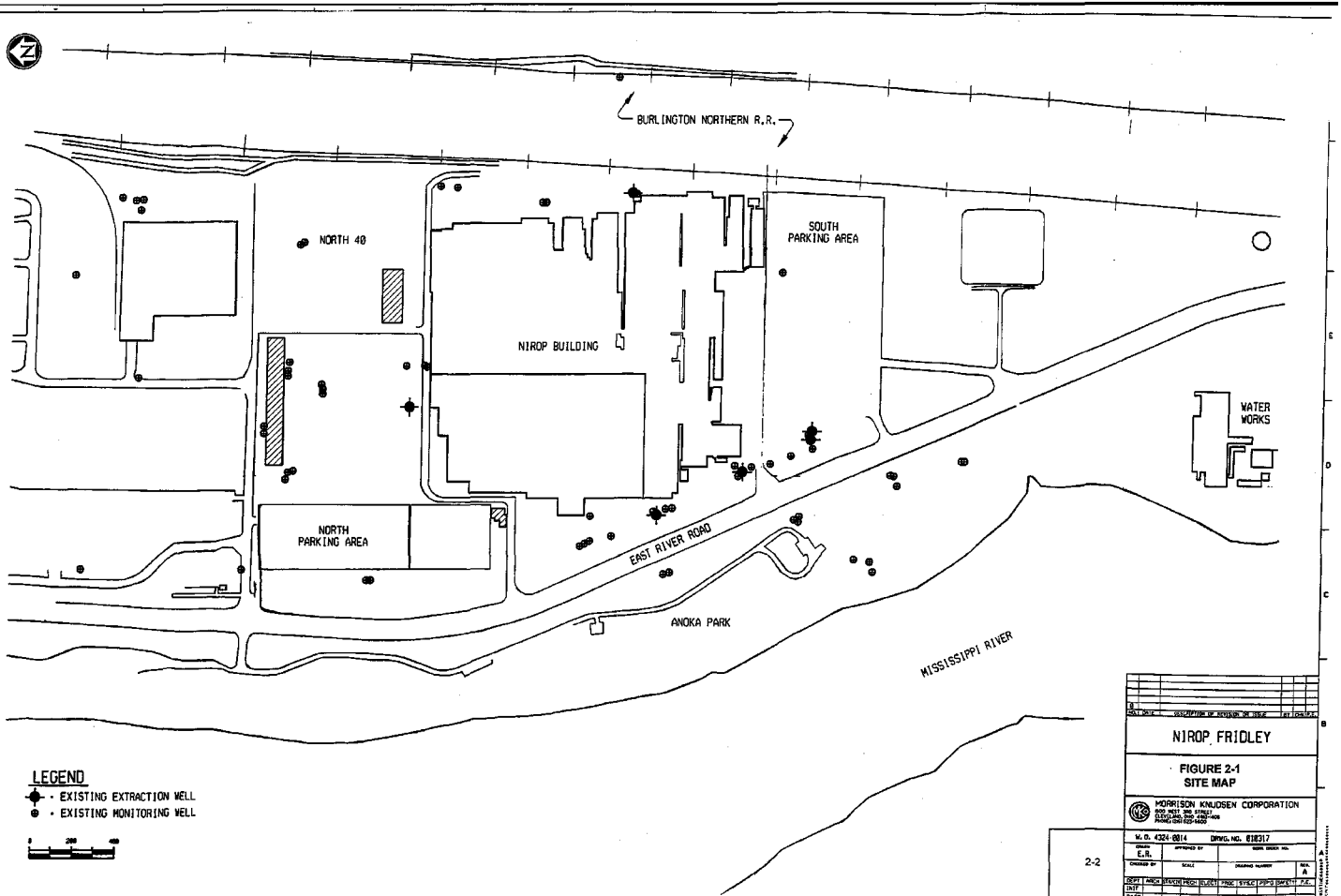
- Appendix A, *Site Safety and Health Plan*
- Appendix B, *Quality Control Documentation*
- Appendix C, *Environmental Protection Plan*
- Appendix D, *Waste Management Plan*

The *Work Plan* describes the definable features of work that were performed for the data acquisition work.

2.0
SITE BACKGROUND

As shown on Figure 2-1, the Anoka County Park is located across East River Road from the Naval Industrial Reserve Ordnance Plant (NIROP) facilities between NIROP and the Mississippi River The park is owned and operated by Anoka County Available information indicates that the park was constructed over miscellaneous fill material However, details of subsurface information on the Anoka County Park were not available

Surficial soils in the NIROP facilities are generally fill material comprising of silty sand, gravel and miscellaneous construction debris Subsurface soils are of glacial origin consisting of coarse sand, fine to medium sand, and some gravelly sand Discontinuous layers of silt and clay occur at some locations These unconsolidated deposits may have thicknesses of up to 150 feet The groundwater gradient at the NIROP site is generally to the southwest The static groundwater level at the site varies from approximately 800 to 816 feet above mean sea level (MSL) [RMT, 1995]



NIROP FRIDLEY

FIGURE 2-1
SITE MAP

MORRISON KNUDSEN CORPORATION
600 WEST 3RD STREET
ELEVEN MILE, 3000 ATRIUM
PHONE (303) 623-6600

W. O. 4324-0014 DRWG. NO. 618317

DRAWN E.R.

2-2

C:/DGN/ENV10.DGN

3.0
FIELD ACTIVITIES

3.1 INTRODUCTION

Prior to the start of field work, approval was obtained from the Anoka County Park Department to conduct the data acquisition activities at the Anoka County Park. MK's CPT subcontractor Gregg In Situ, Inc. also obtained well contractor registration from the Minnesota Department of Health. Copies of the approval letter from the Anoka County Park Department and well registration certification are provided in Appendix A. Site information indicated that buried utility lines were not present in the work area.

A preconstruction meeting was held at the site on 29 October 1997. The preconstruction meeting was attended by the RPM, REICC and representatives from MPCA, MK and Gregg In Situ. Field work commenced on 30 October 1997 and finished on 10 December 1997.

3.2 PIEZOCONE SOUNDING

Piezocone sounding was performed using the CPT in accordance with ASTM D 3441- *Standard Test Method for Deep, Quasi-Static, Cone and Friction-Cone Penetration Tests of Soil.* [ASTM D 3441]. Prior to performing the field activities, the Anoka County Park area was surveyed and the piezocone sounding locations were marked with flags.

The piezocone soundings were performed using an integrated electronic cone system with a capacity to resist 20 tons of load. The tip area of the cone was 15 square centimeters (sq.cm.) and friction sleeve area was 225 sq.cm. During piezocone sounding, the cone was pushed into the ground by a 25-ton rig and the following parameters were recorded at 5 centimeters (cm) depth intervals:

- Tip Resistance (Qc)
- Sleeve Friction (Fs)
- Dynamic Pore Pressure (Ut)

The above parameters were printed simultaneously on a printer and stored on a computer diskette for future analysis and reference.

The pore water pressure element consisting of porous plastic was located directly behind the cone tip. The elements were saturated in glycerin under vacuum pressure prior to penetration. Pore pressure dissipations were recorded at five second intervals during pauses in the penetration.

The piezocone soundings were performed by the above method at 89 locations. When piezocone sounding encountered refusal at a shallow depth (up to 10 feet), another sounding was attempted at a distance of two to four feet away from the first location. Piezocone soundings were not performed in six locations as planned because they were located in wooded area or near the river and cannot be accessed by the 25-ton rig. However, two additional piezocone soundings were performed in the drain pipe headwall area and six piezocone soundings were performed along the fence line of East River Road per RPM's direction.

A summary of the piezocone sounding and other information is provided in Appendix B. Graphic presentations and details of piezocone sounding are provided in Appendix C.

3.3 GROUND-WATER SAMPLING

Ground-water samples were collected using a Hydropunch ground-water sampling system of the CPT. The Hydropunch was operated by pushing a 1.5-inch diameter hollow rod with a retrievable tip. A stainless steel filter screen was attached to the tip. At the desired sampling depth, the rods were retracted exposing the filter screen and allowing for ground-water infiltration. A small diameter bailer was then used to collect ground-water samples through the hollow rod.

The ground-water sampling holes are located at a distance of two to three feet away from the piezocone locations. No samples were collected from two holes (W2-9 and W4-10) because refusal was encountered above ground-water level. However, per discussions with the RPM, two ground-water samples were collected from each of the five holes (W1-4, W1-13, W2-5A, W2-6 and W2-16).

After the samples were collected, they were labeled and placed in a cooler with ice. The chain-of-custody (COC) forms (Appendix D) were completed and the cooler was shipped to Southwest Laboratory by a courier service for overnight delivery.

Following completion of piezocone sounding and ground-water sampling, the holes were grouted to prevent surface water percolation and cross-contamination of aquifers. Cement, bentonite and water were used to make a grout mixture. The grouting procedure consisted of pushing a hollow rod with a "knock out" plug back down the hole. Grout was then pumped under pressure as the tremie pipe was pulled from the hole.

3.4 DECONTAMINATION

A rod washing system was used to decontaminate the cone penetration rods. A steam cleaning device was attached below the 25-ton rig to allow decontamination of the rods during retrieval from the ground. The probes, screens and bailers were decontaminated using a separate steam cleaning device. The decontamination liquid was collected for sampling and disposal.

3.5 INVESTIGATION DERIVED WASTE

The only investigative derived waste (IDW) produced during the field work was the decontamination liquid. A sample of the decontamination liquid was collected and shipped to the off-site laboratory for determination of Trichloroethene (TCE) concentration. The laboratory result indicated that the TCE concentration was below detection level. Therefore, decontamination liquid was disposed of through the NIROP Fridley onsite sanitary sewer system for eventual treatment at publicly owned treatment works (POTW).

3.6 SURVEYING

After piezocone soundings were performed, the locations were surveyed to provide coordinates and elevations. The survey also included features such as existing wells, storm outlets and manholes. The results of surveying are presented in Appendix E.

3.7 SITE RESTORATION

At the time this report was written, site restoration was not complete due to winter weather. Site restoration will be completed on or about May of 1998. During site restoration, ground surfaces that had been rutted by vehicular traffic will be filled and seeded and the site will be restored to original condition.

4.0
ANALYTICAL RESULTS

4.1 LABORATORY ANALYSIS

Ground-water samples were analyzed by Southwest Laboratory of Oklahoma, Inc. Analytical samples collected were analyzed for TCE per EPA SW846 Method 8010. The results of the laboratory analyses are presented in Appendix B along with the piezocone and groundwater sampling information.

All data were verified and compared with field and laboratory quality control (QC) sample data to assess that the data quality requirements were achieved. Equipment rinseate blanks and trip blanks were collected and analyzed to ensure the integrity of the sampling program and assist in the evaluation of sampling equipment decontamination and/or storage and shipping conditions. There were no concentrations of TCE above the reporting limits in these quality control samples.

Sample analytical data associated with the project were verified by reviewing chain-of-custody forms, sample preservation records, analytical holding times, requested turnaround times, sample data in comparison to quality control data, and reporting requirements. Method blanks were free of TCE above the reporting limits. Laboratory control spikes, surrogates, sample matrix spikes and matrix spike duplicates (MS/MSD) were acceptable and the data has met the data quality objectives.

5.0
CONCLUSIONS

5.1 CONCLUSIONS

Except for site restoration, MK has completed the data acquisition work at Anoka County Park in Fridley, Minnesota. MK's work included:

- Piezocone sounding at 89 locations
- Ground-water sampling at 87 locations
- Laboratory analyses of the ground-water samples

Some of the information contained in this Report has already been submitted to SOUTHNAVFACENGCOM and Brown and Root Environmental (BRE). Table 5-1 provides a list of the documents already submitted to these organizations.

MK's scope of work does not include evaluation of data generated from the data acquisition work. Data evaluation and interpretation will be performed by BRE under a separate contract with SOUTHNAVFACENGCOM.

TABLE 5-1 LIST OF SUBMITTED DOCUMENTS		
Recipient	**Documents**	**Appendix from this Report**
RPM SOUTHNAVFACENGCOM	Summary of Piezocone Sounding, Ground-water Sampling and Laboratory Testing (three pages)	Appendix B
	Survey Node List (four pages)	Appendix E
	Anoka County Park Survey (Drawing)	Appendix E
	Piezocone Sounding Results	Appendix C
	Video Tape of Field Activities	Not Included with this Report
BRE	Summary of Piezocone Sounding, Ground-water Sampling and Laboratory Testing (three pages)	Appendix B
	Survey Node List (four pages)	Appendix E
	Anoka County Park Survey (Drawing)	Appendix E
	Piezocone Sounding Results	Appendix C
	Computer Disks (nine disks containing above data)	Not Included with this Report

6.0
REFERENCES

MK 1997, *Work Plan for Data Acquisition Work, NIROP Fridley, MN.* Prepared for the Navy, Southern Division, Naval Facilities Engineering Command by Morrison Knudsen Corporation.

RMT, Inc., January 1995. *Workplan for Improvement of Groundwater Containment System Effectiveness.* [RMT, 1995]

ASTM D 3441. Standard Test Method for Deep, Quasi-Static, Cone and Friction-Cone Penetration Tests of Soil. [ASTM D 3441]

APPENDIX A

PERMITS, NOTIFICATIONS AND CERTIFICATIONS

APPENDIX A
PERMITS, NOTIFICATIONS AND CERTIFICATIONS

INDEX

DESCRIPTION	PAGES
Notification Letter from MK to Anoka County Park Department	2 pages
Approval letter from Anoka County Park Department	1 page
Right of Entry Agreement	3 pages
Well Contractor Registration	2 pages
Well and Boring Sealing Record	1 page

Serial: 4324-0014-0001

MORRISON KNUDSEN CORPORATION
ENGINEERING, CONSTRUCTION
& ENVIRONMENTAL GROUP

2420 MALL DRIVE
CORPORATE SQUARE ONE, SUITE 211
NORTH CHARLESTON, SC 29406
PHONE: (803) 554-0100
FAX: (803) 740-0160

October 8, 1997

Mr. John VonDeLinde
Anoka County Park Director
Anoka County Park Department
550 Bunker Lake Blvd, NW
Andover, Minnesota 55304-4122

Subject: Anoka County Park

Dear Mr. VonDeLinde;

Morrison Knudsen Corporation (MK), on behalf of the United States Navy Southern Division, Naval Facilities Engineering Command (Navy), requests permission to perform Cone Penetrometer Testing (CPT) and water sampling in Anoka County Park, Fridley, MN. This work is being performed to obtain data on subsurface geology and groundwater conditions for study by the Navy, US Environmental Protection Agency (USEPA) and Minnesota Pollution Control Agency (MPCA). The anticipated start date for the CPT field work is October 30, 1997, and would continue for approximately 3 months, through January 1998. Should winter weather conditions become severe, field work will be suspended until March 1998, with an estimated completion period of 30 days.

The CPT sensors, and associated water sampling equipment, uses a 1.5-inch diameter steel rod that is pushed to an approximate depth of 80 feet. The CPT sensor array indicates subsurface geologic conditions and the water sample tip draws small amounts of water for chemical analysis. After the tools have been withdrawn, the holes are filled with grout to seal the entire length of the CPT penetration.

MORRISON KNUDSEN CORPORATION
ENGINEERING, CONSTRUCTION
& ENVIRONMENTAL GROUP

MK, as the Navy's Contractor, will be managing and coordinating the field work and will be "point of contact" during field operations. This work has been scheduled for the winter months in the hopes that minimal disruption of park usage will occur. Any damaged caused by the CPT field work will be repaired before summer season 1998.

Should you have any question or comments regarding this proposed work please feel free to contact me directly at (612) 572-5365. MK's local mailing address is;

Morrison Knudsen Corporation
6066 Shingle Creek Parkway
Box 168
Brooklyn Center, MN 55430

Thank you for your time and consideration of this matter.

Very Truly Yours

Greg Hibbard
MK Project Manager

cc: MK-Charleston
Pat Mosites - REICC
Scott Glass - RPM
Joel Murphy - RPM

File: 11-05.14
Serial: 4324-0014-000

Anoka County
Department of Parks & Recreation

550 Bunker Lake Boulevard NW • Andover, Minnesota 55304
Telephone (612) 757-3920 • FAX (612) 755-0230

John K. VonDeLinde
Director

October 24, 1997

Greg Hibbard
Morrison Knudsen Corporation
Box 168
Brooklyn Center, MN 55430

Dear Mr. Hibbard:

Your letter of October 8, 1997 to the Anoka County Parks and Recreation Department is helpful in explaining the procedures that will occur on the Anoka County Riverfront Regional Park property late this fall and winter. Anoka County in cooperation with your firm is preparing a Right of Entry Agreement for this work to proceed.

It is our department's understanding that your request to perform Cone Penetrometer Testing (CPT) and water sampling has an anticipated start date of October 30, 1997. The Anoka County Parks and Recreation Department and the Anoka County Attorney's Office has no problem with this start date. The Right of Entry Agreement, that is now being prepared, will have to go before the Anoka County Parks and Recreation Committee on November 4, 1997, and for final approval by the Anoka County Board of Commissioners on November 12, 1997. No problems are anticipated for the final approval of the Right of Entry Agreement.

Please keep me informed of your progress. Call me at 767-2865, if you have further information on this project. Thank you.

Sincerely,

Ron Cox

Ron Cox
Park Planner

RC:md

cc: John VonDeLinde, Director of Parks and Recreation
Dan Klint, County Attorney

RIGHT OF ENTRY

Project:

Contract No.:

This Agreement is entered into this 24 day of October, 1997, by and between the United States of America, herinafter referred to as the "Government", represented by the Southern Division, Naval Facilities Engineering Command, and by the County of Anoka, Minnesota, herinafter referred to as the "County".

1. The County hereby grants to the Government a permit or right-of-entry for subsurface geology and water sampling Data Acquisition.

2. The Data Acquisition shall be performed in the Anoka County Riverfront Regional Park, in Section 27, T30N, R27W, Anoka County, Minnesota, at the approximate locations shown on the drawing attached hereto as Exhibit "A".

3. This permit includes the right of ingress and egress to the work locations for officers, employees, representatives and contractors of the Government for the purposes set forth herein.

4. The County agrees that MK ENVIRONMENTAL SERVICES is a contractor of the Government, and will perform the Data Acquisition operation.

5. The Government agrees to the following terms and conditions:

a. The Government agrees to be responsible for damages arising from the activity of the Government, its officers, employees, representatives, or contractors on said land, in the exercise of rights under this Right of Entry.

b. Any damage to the property resulting from the entry onto the property by the Government, its officers, employees, representatives, or contractors or from the performance of the permitted work shall be repaired by restoring the property, as much as reasonably possible, to its condition immediately prior to the entry.

c. All permits shall be obtained as are required by Minnesota law.

d. The Government will cause its contractor, or subcontractor performing the work, to provide a certificate of insurance naming the County as additionally insured as its interest appears.

e. The Government shall be responsible for all damages to the persons or property of others, for the negligent acts or omissions of its agents and employees and representatives, in accordance with the Federal Torts Claims Act (23 USC Sec. 2671, et esq.).

6. The County agrees that all obligation of the government created by this right of entry are specifically subject to the availability of appropriations for the purposes stated herein.

7. The work described herein shall be performed at no cost to the County.

ANOKA COUNTY, MINNESOTA

by:_____
John K. VonDeLinde
Park Director

by:_____
Ronald Cox
Park Planner

SOUTHERN DIVISION
NAVAL FACILITIES
ENGINEERING COMMAND

by:_____
Scott Glass
Remedial Project Manager

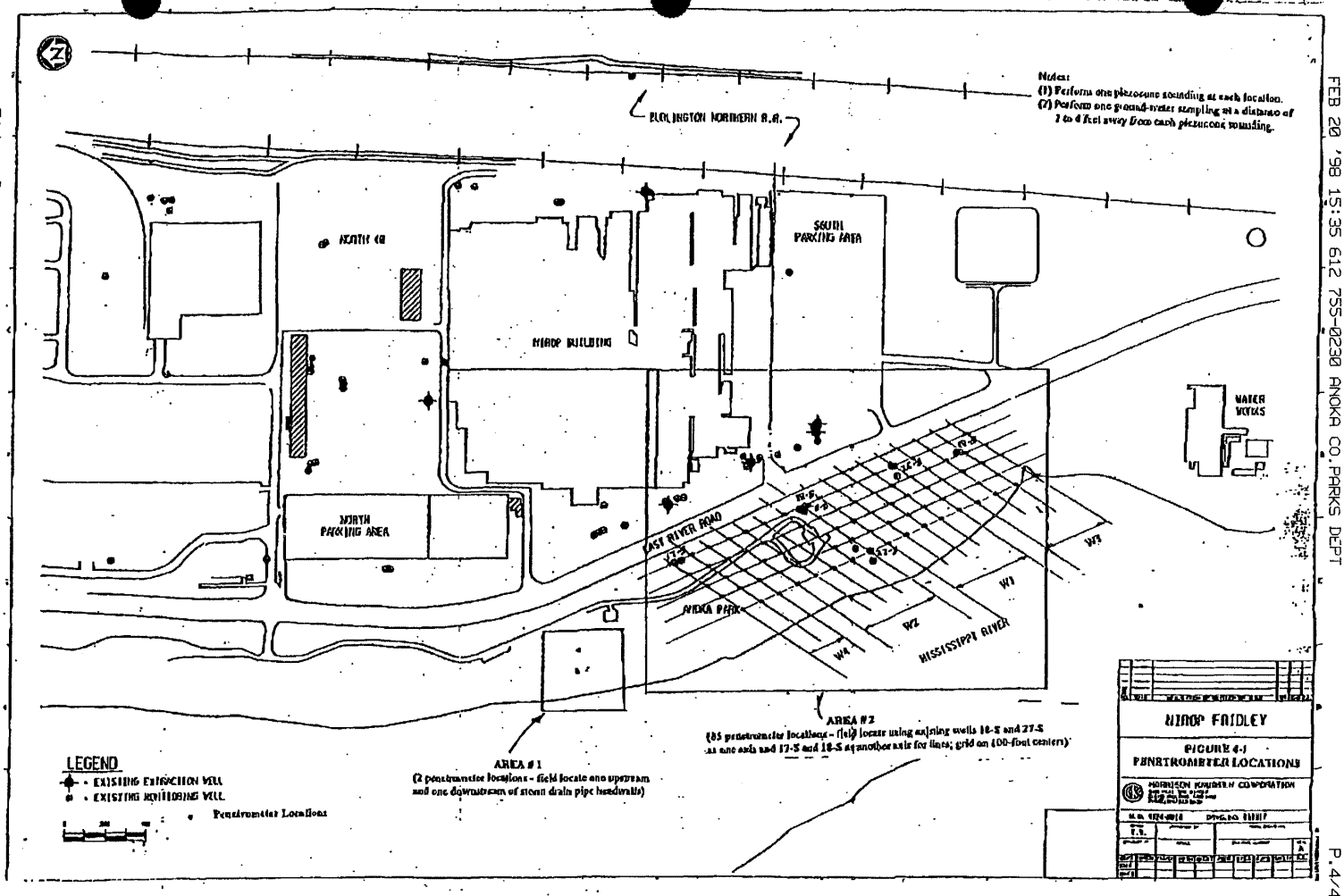


Exhibit A - Anoka Park

State of Minnesota
Minnesota Department of Health

WELL MANAGEMENT UNIT, BOX 64975
121 E. 7TH ST., STE 220, ST. PAUL, MN 55164-0975
WELL CONTRACTOR REGISTRATION
REGISTRATION NO M0164
ENDORSEMENTS *-M-*

To: JOHN M. GREGG
GREGG DRILLING AND TESTING, INC
2726 WALNUT AVENUE

SIGNAL HILL, CA 90808-

EFFECTIVE DATE	EXPIRATION DATE
10/30/1997	12/31/1997

State of Minnesota
Minnesota Department of Health
WELL MANAGEMENT UNIT, BOX 64975
121 E. 7TH ST., STE 220, ST. PAUL, MN
WELL CONTRACTOR REGISTRATION
REGISTRATION NO M0164
ENDORSEMENTS *-M-*

To: JOHN M. GREGG

EFFECTIVE DATE	EXPIRATION DATE
10/30/1997	12/31/1997

MINNESOTA DEPARTMENT OF HEALTH
WELL DRILLING MACHINE REGISTRATION
REGISTRATION NO. M0164-01

This is to certify: JOHN M. GREGG
GREGG DRILLING AND TESTING, INC.
2726 WALNUT AVENUE
SIGNAL HILL, CA 90806-

is authorized to operate the below-described well drilling machine:

WELL DRILLING MACHINE		VEHICLE	
MAKE	SHOP BUILT	MOUNTED ON TRUCK	
MODEL		MAKE	FRHT
SERIAL NO.		TITLE NO.	1FVXFCY92MH386613
TYPE	CPT	AXLES	3

This authorization will expire on December 31, 1997, and is not transferable from one drilling machine to another. This card is to be carried AT ALL TIMES in the cab or other protected location on the drilling machine.

HE-01124-06

MINNESOTA DEPARTMENT OF HEALTH
WELL DRILLING MACHINE REGISTRATION
REGISTRATION NO. M0164-02

This is to certify: JOHN M. GREGG
GREGG DRILLING AND TESTING, INC.
2726 WALNUT AVENUE
SIGNAL HILL, CA 90806-

is authorized to operate the below-described well drilling machine:

WELL DRILLING MACHINE		VEHICLE	
MAKE	SIMCO	MOUNTED ON TRUCK	
MODEL	2500	MAKE	FRHT
SERIAL NO.		TITLE NO.	1FV3GFFC3PL459503
TYPE	AUGER	AXLES	2

This authorization will expire on December 31, 1997, and is not transferable from one drilling machine to another. This card is to be carried AT ALL TIMES in the cab or other protected location on the drilling machine.

HE-01124-06

TOTAL P.02

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING SEALING RECORD

Minnesota Statutes, Chapter 103I

Minnesota Well and Boring Sealing No.: H 132251

Minnesota Unique No. of Water Well No. (Leave blank if not known):

WELL OR BORING LOCATION

County Name: Anoka

Township Name: Fridley | Township No. | Range No. | Section No. | Fraction (sm. → lg.)

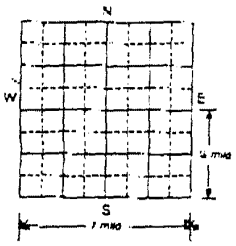
Date Sealed: 10/30/97 - 12/9/97

Date Well or Boring Constructed: 10/30/97 - 12/9/97

Vertical Street Address or Fire Number and City of Well or Boring Location: Anoka County Park East River Road, Fridley MN

Depth Before Sealing: 100 ft. Original Depth: 100 ft.

Show exact location of well or boring in section grid with "X"



Sketch map of well or boring location, showing property lines, roads, and buildings. (see attached)

100 locations throughout Anoka County Park

AQUIFER(S): [X] Single Aquifer [ ] Multiaquifer

WELL/BORING: [ ] Water Supply Well [ ] Monit. Well [ ] Env. Bore Hole [X] Other CPT

STATIC WATER LEVEL: [X] Measured [ ] Estimated 35-40 ft. [X] below [ ] above land surface

CASING TYPE(S): [ ] Steel [ ] Plastic [ ] Tile [X] Other No Casing used

CASING N/A

Diameter	Depth	Set in oversize hole?	Annular space initially grouted?
in.	from to ft.	[ ] Yes [ ] No	[ ] Yes [ ] No [ ] Unknown
in.	from to ft.	[ ] Yes [ ] No	[ ] Yes [ ] No [ ] Unknown
in.	from to ft.	[ ] Yes [ ] No	[ ] Yes [ ] No [ ] Unknown

PROPERTY OWNER'S NAME: Anoka County Dept. of Parks & Rec.

Property owner's mailing address if different than well location address indicated above:
550 Bunker Lake Blvd. NW
Andover MN 55304

SCREEN/OPEN HOLE: Screen from ____ to ____ ft. Open Hole from Varied to ____ ft.

WELL OWNER'S NAME: Naval Facilities Engineering Command

Well owner's mailing address if different than property owner's address indicated above:
Naval Industrial Reserve Ordinance Plant
5001 East River Road
Minneapolis MN 55421
Attn: Pat Mosites, REICC

OBSTRUCTIONS: [ ] Rods/Drop Pipe [ ] Check Valve(s) [ ] Debris [ ] Fill [X] No Obstruction

Type of Obstructions (Describe): ____

Obstructions removed? [ ] Yes [ ] No Describe: ____

PUMP N/A

Type: ____

[ ] Removed [ ] Not Present [ ] Other ____

GEOLOGICAL MATERIAL	COLOR	HARDNESS OF FORMATION	FROM	TO
Fine Sand w/ gravel lenses	Brown	Med Dense	0	100

If known, indicate estimated formation log from nearby well or boring.

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:

[ ] No Annular Space Exists
[X] Annular space grouted with tremie pipe
[ ] Casing Perforation/Removal

____ in. from ____ to ____ ft. [ ] Perforated [ ] Removed

____ in. from ____ to ____ ft. [ ] Perforated [ ] Removed

Type of perforator: ____

[ ] Other ____

GROUTING MATERIAL(S)

Grouting Material: Portland Cement from 0 to 100 ft. ____ yards 2 bags

____ from ____ to ____ ft. ____ yards ____ bags

____ from ____ to ____ ft. ____ yards ____ bags

____ from ____ to ____ ft. ____ yards ____ bags

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

CPT holes were 1 3/4" diameter holes, grouted immediately after completing CPT sounding. Tremie pipe was used in conjunction with a Chemgrout plant to pressure grout the holes to the surface.

OTHER WELLS AND BORINGS

Other unsealed and unused well or boring on property? [ ] Yes [X] No How many? ____

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION

This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Gregg Drilling & Testing — Contractor Business Name

M0164 — License or Registration No.

[signature] — Authorized Representative Signature

1/26/98 — Date

John Simmons — Name of Person Sealing Well or Boring

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY | H 132251

APPENDIX B

SUMMARY OF PIEZOCONE SOUNDING, GROUND-WATER SAMPLING AND LABORATORY TESTING

APPENDIX B
SUMMARY OF PIEZOCONE SOUNDING, GROUND-WATER SAMPLING AND LABORATORY TESTING

INDEX

DESCRIPTION	PAGES
Summary of Results	3 Pages

SUMMARY OF RESULTS
DATA ACQUISITION WORK
ANOKA COUNTY PARK - FRIDLEY, MINNESOTA

Piezocone ID	Depth (ft bgs)	Water Level (ft bgs)	Water Sample Depth (ft bgs)	Date Started	Date Finished	TCE ppb	Remarks
W-1 AREA							
W1-1	100	25.0	45	11/2/97	11/2/97	31800	
W1-2	100	27.9	35	11/2/97	11/2/97	63.1	
W1-3A	100	26.2	35	11/2/97	11/2/97	335	
W1-4	100	30.1	35, (55)	11/2/97	11/2/97	ND 1 (290)	Sampled @2 depths
W1-5	100	33.0	46	11/3/97	11/3/97	10100	
W1-6	100	24.7	40	11/4/97	11/4/97	37300	
W1-7B	100	25.5	40	11/4/97	11/4/97	22100	Survey # W1-7*
W1-8A	100	23.6	45	11/3/97	11/3/97	334	Survey # W1-8
W1-9	100	35.9	45	11/3/97	11/3/97	ND 1	
W1-10	100	30.3	45	11/3/97	11/3/97	2290	
W1-11A	100	26.8	55	11/5/97	11/5/97	27800	
W1-12A	100	29.2	57	11/5/97	11/5/97	24900	
W1-13	100	24.0	35, (45)	11/5/97	11/5/97	5360 (13400)	Sampled @2 depths
W1-14	66.8	29.0	40	11/6/97	11/6/97	3250	
W1-15	100	31.0	40	11/6/97	11/6/97	486	
W1-16A	100	25.5	42	11/12/97	11/12/97	281	
W1-17	100	28.5	48	11/12/97	11/12/97	124	
W1-18	93.7	34.7	50	11/12/97	11/12/97	41	
W1-19	99.9	15.5	40	11/12/97	11/12/97	71.6	
W1-20B	100	32.4	35	11/6/97	11/6/97	8.6	Survey # W1-20
W1-21	66.6	29.4	40	10/31/97	10/31/97	424	Survey # W1-21A
W1-22	83	32.2	45	10/31/97	10/31/97	63.6	Survey # W2-22
W1-23A	86.5	31.5	42	10/31/97	10/31/97	4170	
W1-24	84.8	31.6	45	10/31/97	10/31/97	1320	
W1-25	90.6	33.8	40	11/1/97	11/1/97	80.9	Survey # W1-25A
W-2 AREA							
W2-1	95.5	24	40	11/14/97	11/14/97	581	
W2-2	64.5	27	40	11/14/97	11/14/97	103	
W2-3	100	33	40	11/14/97	11/14/97	50.6	
W2-4	100	26	40	11/14/97	11/14/97	732	
W2-5A	100	27	35 (50)	11/30/97	11/30/97	7740 (4640)	Sampled @2 depths
W2-6	100	27	40 (55)	11/14/97	11/14/97	59 (814)	Survey # W2-5 Sampled @2 depths
W2-7	66.8	26.3	52	11/14/97	11/14/97	52.9	
W2-8A	99.9	28	35	11/19/97	11/19/97	37.9	
W2-9	18	NA	NA	11/18/97	11/18/97	NA	Refusal @ 18
W2-10	92.3	29.3	40	11/19/97	11/19/97	16500	
W2-11	48	29	38	11/19/97	11/19/97	28.8	
W2-12	100	27	40	11/19/97	11/19/97	43.7	
W2-13	100	26	45	11/18/97	11/18/97	1840	
W2-14	100	23	45	11/18/97	11/18/97	938	
W2-15	NA	NA	NA	NA	NA	NA	Wooded Area
W2-16	61	27	35 (45)	11/18/97	11/18/97	52.1 (39.8)	Sampled @2 depths

DATA ACQUISITION WORK
ANOKA COUNTY PARK - FRIDLEY, MINNESOTA

Piezocone ID	Depth (ft bgs)	Water Level (ft bgs)	Water Sample Depth (ft bgs)	Date Started	Date Finished	TCE ppb	Remarks
W2-17	100	26	52	11/18/97	11/18/97	33.4	
W2-18	100	28.6	55	11/18/97	11/18/97	52.1	
W2-19	NA	NA	NA	NA	NA	NA	Survey # W2-19A Wooded Area
W2-20A	100	22	40	11/13/97	11/13/97	3560	
W2-21B	53	25	45	11/17/97	11/17/97	359	Survey # W2-21A
W2-22	63	19.7	50	11/17/97	11/17/97	58.4	
W2-23	NA	NA	NA	NA	NA	NA	Wooded Area
W2-24A	100	27.7	40	11/13/97	11/13/97	71.7	
W2-25B	93	29	50	10/30/97	10/30/97	787	Survey # W2-25A
W-3 AREA							
W3-1	74.6	35.7	45	11/20/97	11/20/97	965	
W3-2	100	34	45	11/20/97	11/20/97	99.4	
W3-3	90	33	50	11/20/97	11/20/97	49.4	
W3-4	100	33.6	50	11/20/97	11/20/97	32	Survey # W3-5
W3-5A	87	33	50	12/3/97	12/3/97	116	Survey # W3-5
W3-6	100	30	50	12/3/97	12/3/97	57.4	
W3-7	100	32	50	12/3/97	12/3/97	108	
W3-8	69.4	31	45	12/4/97	12/4/97	49.2	
W3-9	79.2	32	50	12/5/97	12/5/97	67.6	
W3-10	85.8	31.3	50	12/6/97	12/6/97	82.1	
W3-11	76	31.3	45	12/5/97	12/5/97	67.9	
W3-12	100	33	45	11/20/97	11/20/97	111	
W3-13	60	30	45	12/5/97	12/5/97	76.9	
W3-14B	81.9	31.6	47	12/5/97	12/5/97	359	Survey # W3-14A
W3-15B	100	32	40	11/20/97	11/20/97	271	Survey # W3-15
W3-16	84.2	30.6	50	12/10/97	12/10/97	73.9	Survey # W3-16A
W3-17B	99.9	31	45	11/1/97	11/1/97	637	Survey # W3-17
W3-18	NA	NA	NA	NA	NA	NA	Near River
W3-19	NA	NA	NA	NA	NA	NA	Near River
W3-20	NA	NA	NA	NA	NA	NA	Near River
W-4 AREA							
W4-1	76	21.3	50	12/1/97	12/1/97	31.5	
W4-2	58.6	25	45	12/2/97	12/2/97	41.9	
W4-3	100	21	50	12/2/97	12/2/97	5.4	
W4-4	68.2	18.2	40	12/7/97	12/7/97	12.5	
W4-5	68	18.8	45	12/7/97	12/7/97	31.3	
W4-6	77.7	19.7	40	12/7/97	12/7/97	42.8	
W4-7	42.5	31	40	12/8/97	12/8/97	14.3	
W4-8A	55.5	22.5	42	12/8/97	12/8/97	19.4	Survey # W4-8
W4-9	100	21.5	40	12/7/97	12/7/97	25.9	
W4-10	28	NA	NA	12/8/97	12/8/97	NA	Refusal, dry hole
W4-11	40	30	40	12/8/97	12/8/97	40	
W4-12A	73.3	28.2	45	12/8/97	12/8/97	151	Survey W4-12

DATA ACQUISITION WORK
ANOKA COUNTY PARK - FRIDLEY, MINNESOTA

Piezocone ID	Depth (ft bgs)	Water Level (ft bgs)	Water Sample Depth (ft bgs)	Date Started	Date Finished	TCE ppb	Remarks
W4-13	40	32.6	40	12/3/97	12/3/97	13.7	Refusal @ 40
W4-14A	35	30.5	40	12/2/97	12/2/97	75	Survey W4-14 Refusal @ 35
W4-15	60	30.3	45	11/17/97	11/17/97	266	
W-5 AREA							
W5-1A	43	34.5	38	12/9/97	12/9/97	1	Survey # W5-1 Standpipe sample
W5-2	77.4	32	50	12/9/97	12/9/97	1	
W5-3	100	31.4	50	12/9/97	12/9/97	1	
W5-4B	69.7	32	50	12/9/97	12/9/97	1	Survey # W5-4
W5-5	86	35.5	50	12/10/97	12/10/97	5.6	
W5-6A	78.4	32.3	45	12/9/97	12/9/97	1	
HEADWALL							
HW-1	66	36	50	12/2/97	12/2/97	0.5	
HW-2	87.6	35.7	50	12/1/97	12/1/97	1.3	
HW-3A	86	33.5	50	12/1/97	12/1/97	2.6	Survey # HW-3
HW-4	48	21.3	50	12/1/97	12/1/97	15.8	

Notes: * Survey ID and Piezocone ID are different for selected locations.
bgs = Below ground surface
ppb = parts per billion
NA = Note applicable
ND = Not detected

APPENDIX C

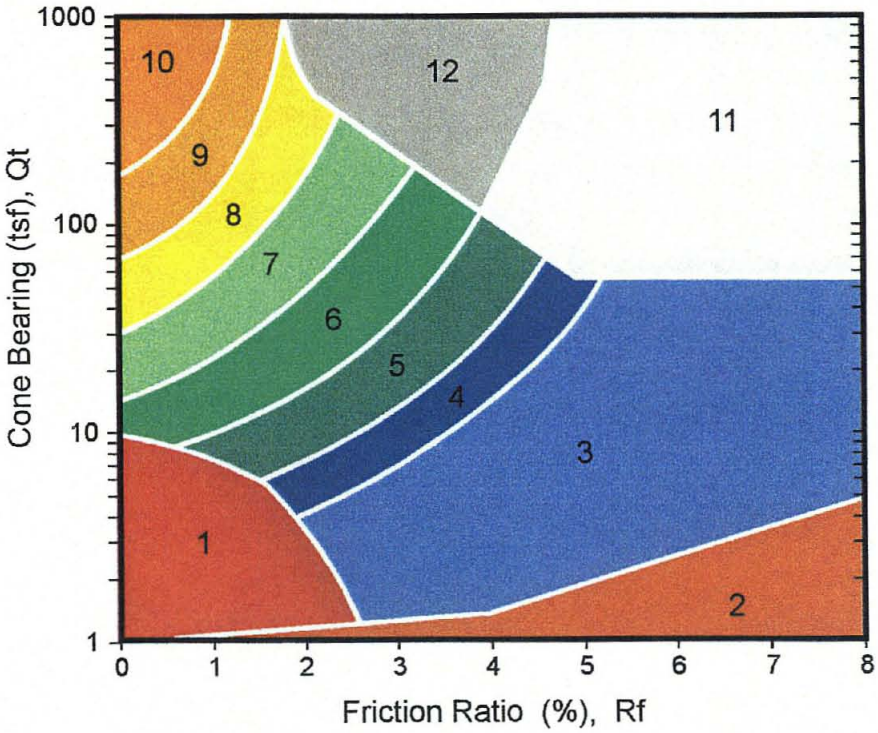
PIEZOCONE SOUNDING RESULTS

APPENDIX C
PIEZOCONE SOUNDING RESULTS

INDEX

DESCRIPTION	PAGES
CPT Classification Chart	1 page
Graphs	213 pages
Data	277 pages

CPT Classification Chart
(after Robertson and Campanella, 1988)



Zone		Q_t / N	Soil Behaviour Type
1		2	sensitive fine grained
2		1	organic material
3		1	clay
4		1.5	silty clay to clay
5		2	clayey silt to silty clay
6		2.5	sandy silt to clayey silt
7		3	silty sand to sandy silt
8		4	sand to silty sand
9		5	sand
10		6	gravelly sand to sand
11		1	very stiff fine grained *
12		2	sand to clayey sand *

* overconsolidated or cemented

GREGG

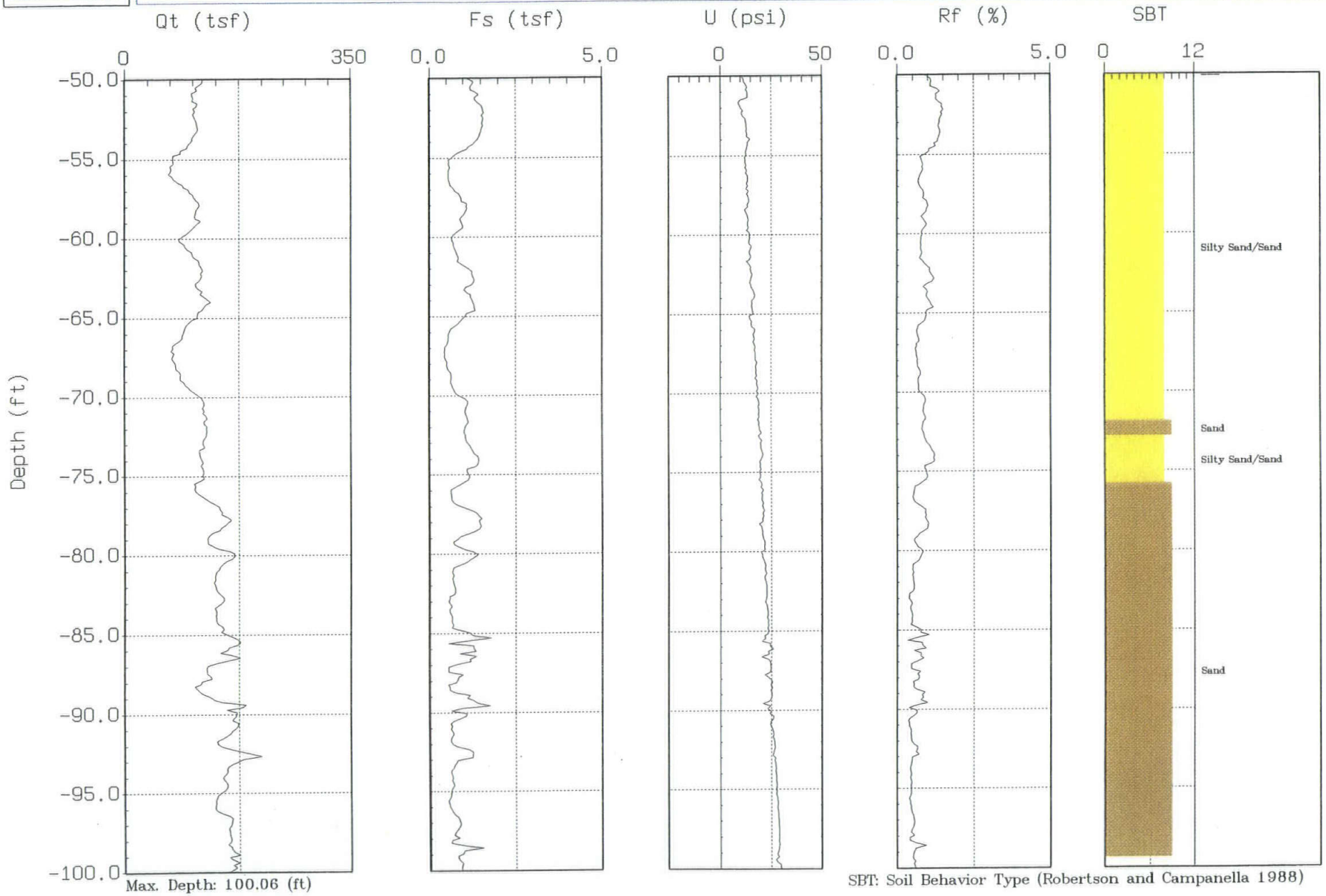
Gregg In Situ, Inc.

GREGG

MKC

Site : ANOKA PARK
Location : W1-1

Geologist : JOSE CERCONE
Date : 11:02:97 08:38



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

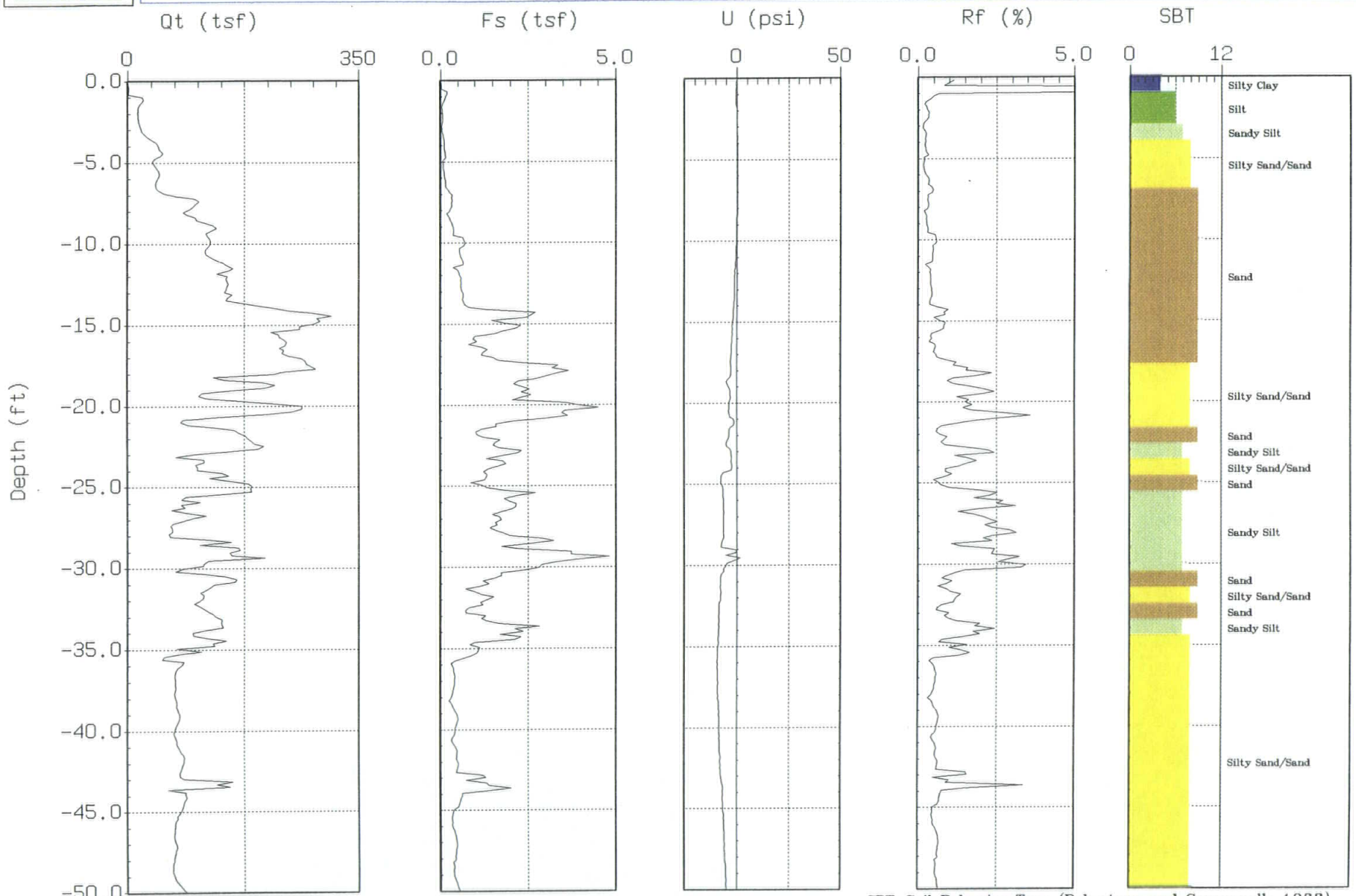
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-2

Geologist : JOSE CERCONE
Date : 11:02:97 09:49



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

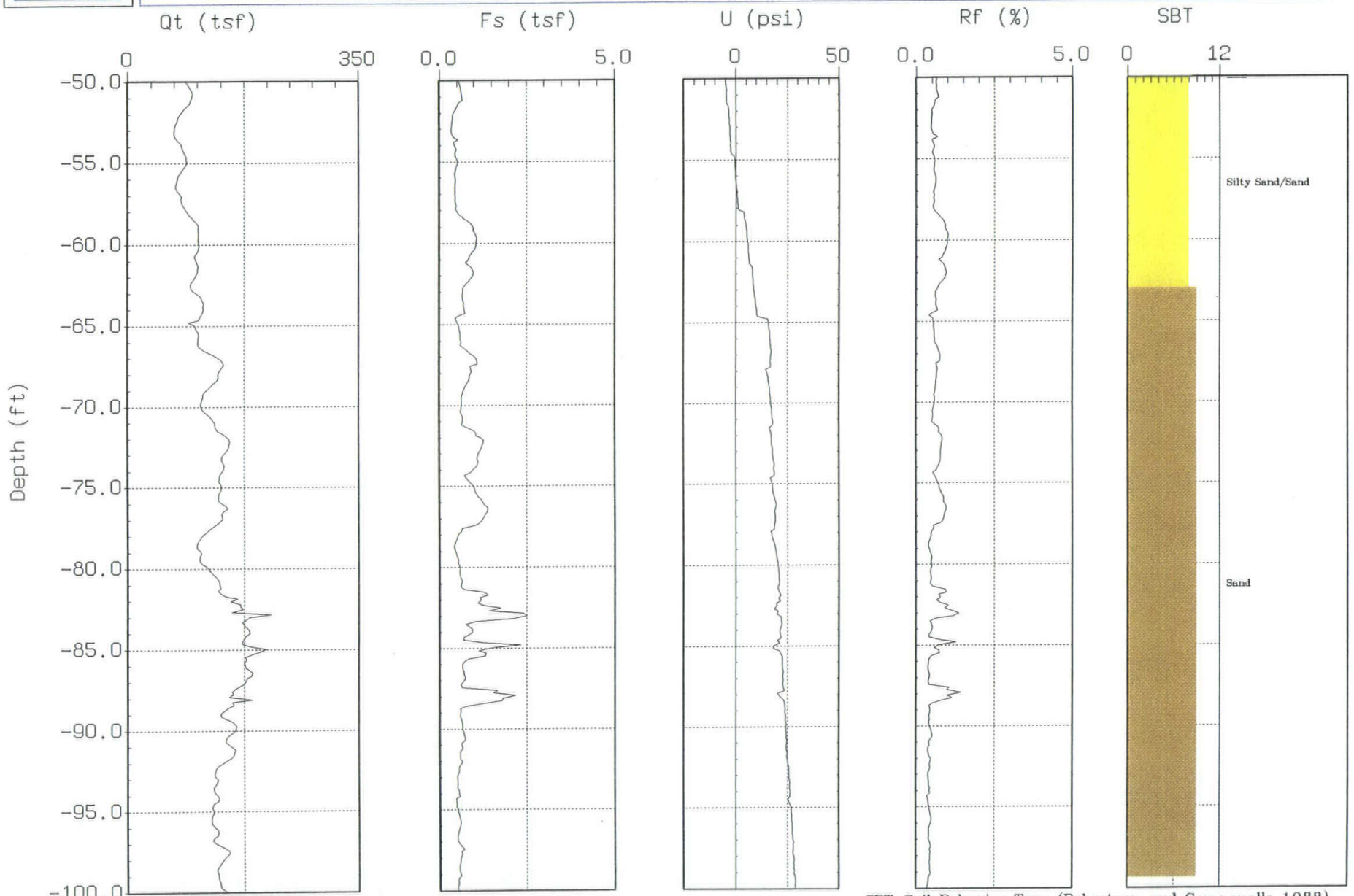
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-2

Geologist : JOSE CERCONE
Date : 11:02:97 09:49



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

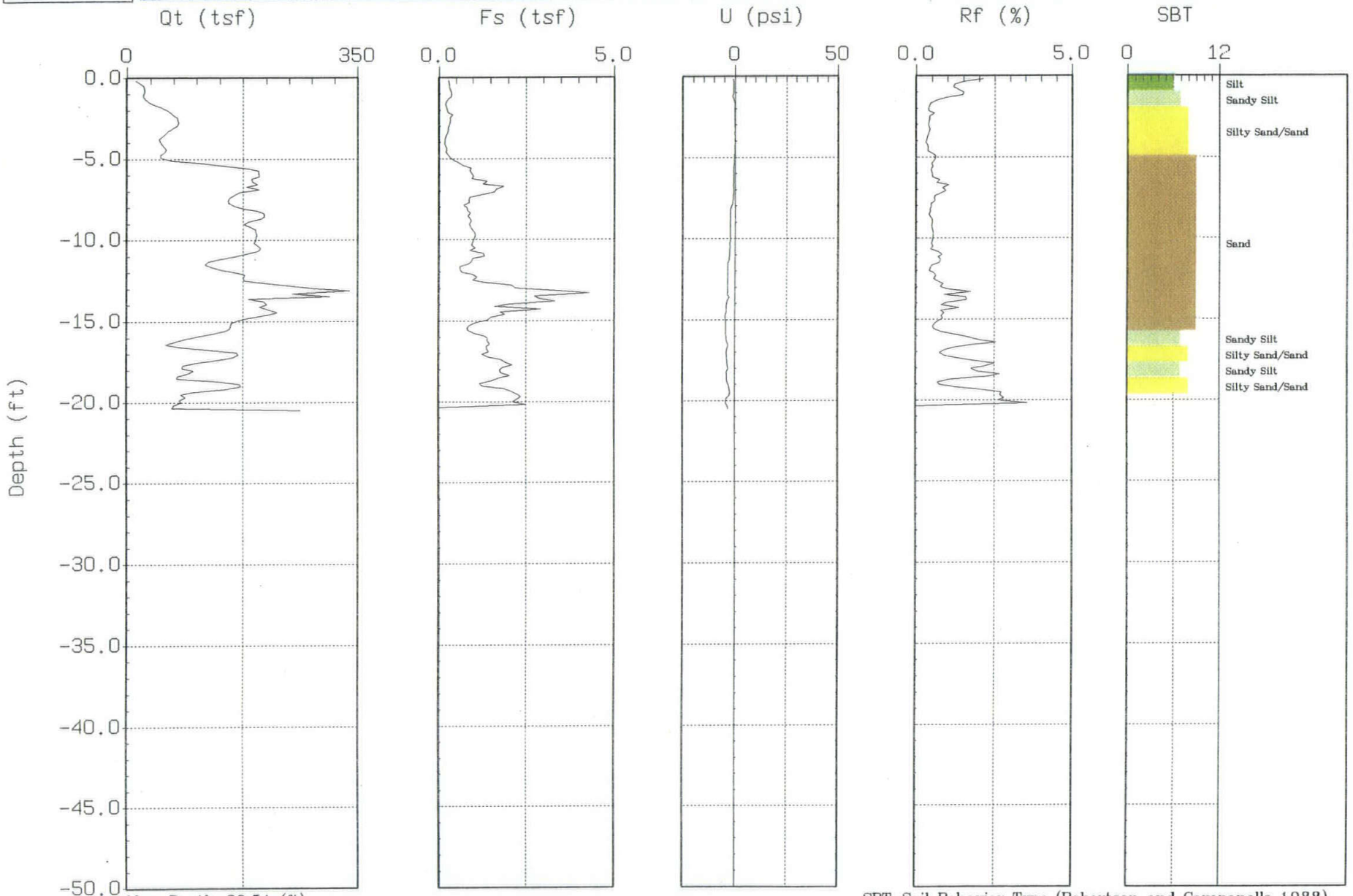
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-3

Geologist : JOSE CERCONE
Date : 11:02:97 10:53



Max. Depth: 20.51 (ft)

Depth Inc.: 0.164 (ft)

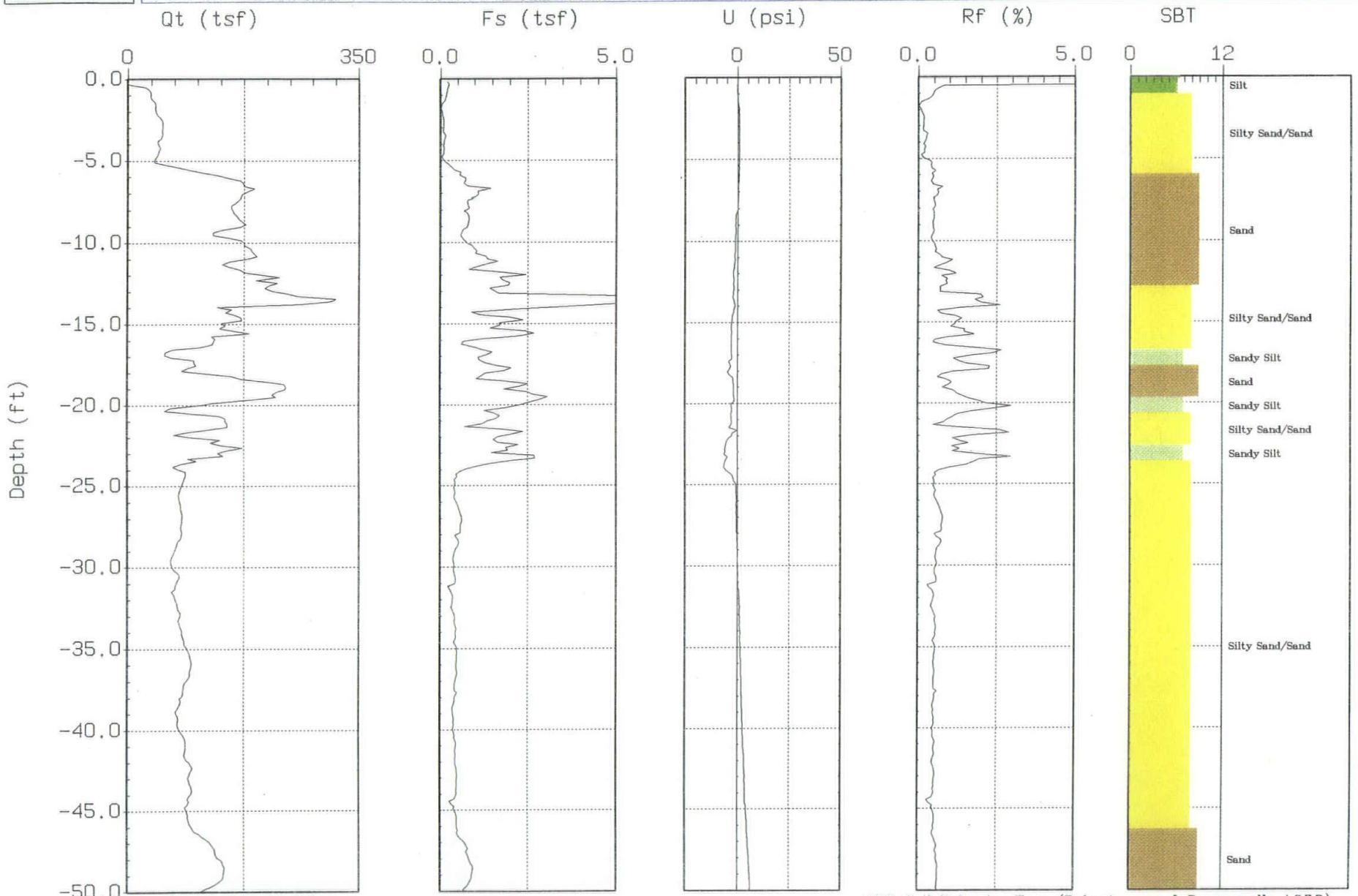
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-3A

Geologist : JOSE CERCONE
Date : 11:02:97 11:11



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

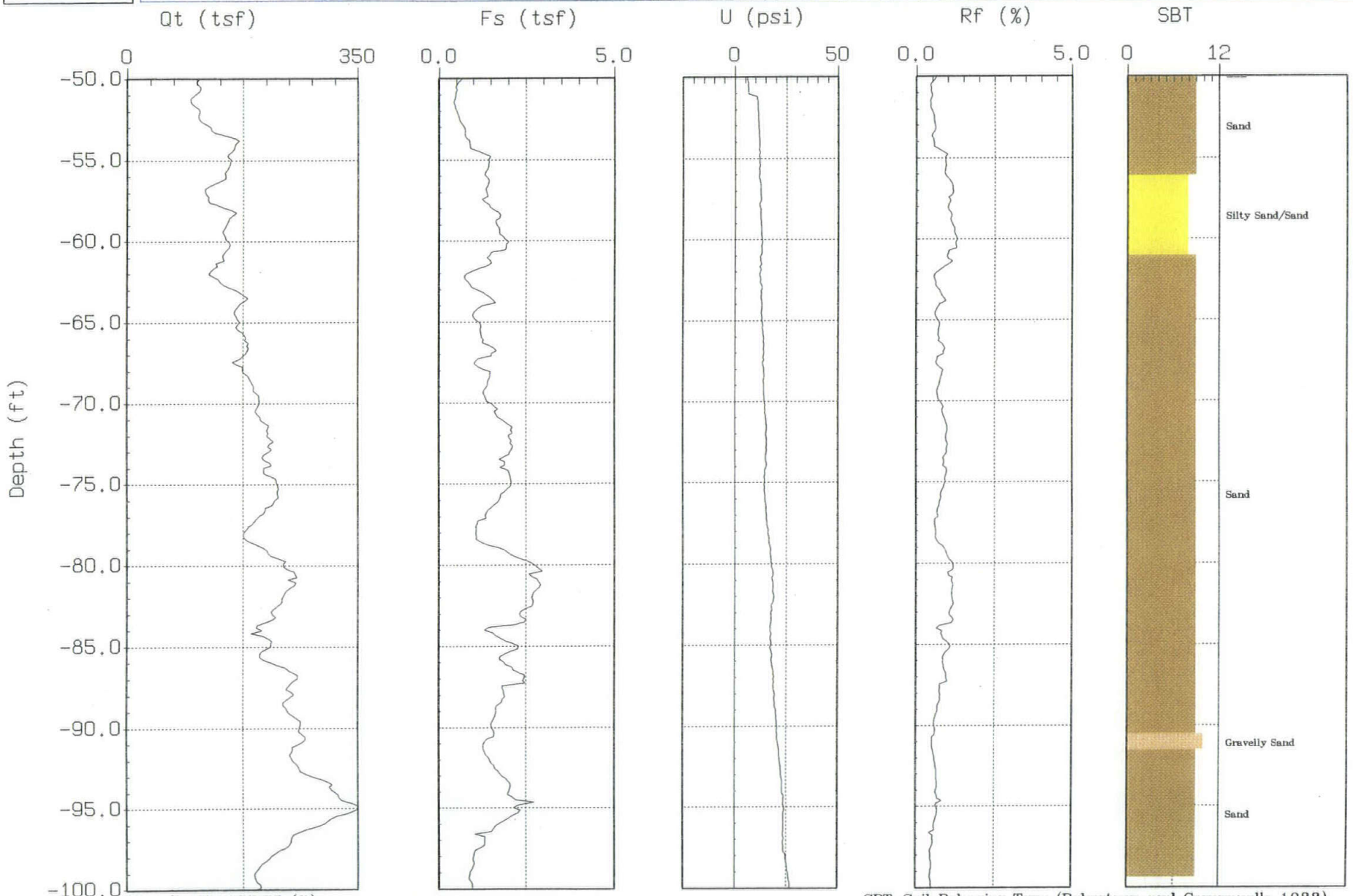
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-3A

Geologist : JOSE CERCONE
Date : 11:02:97 11:11



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

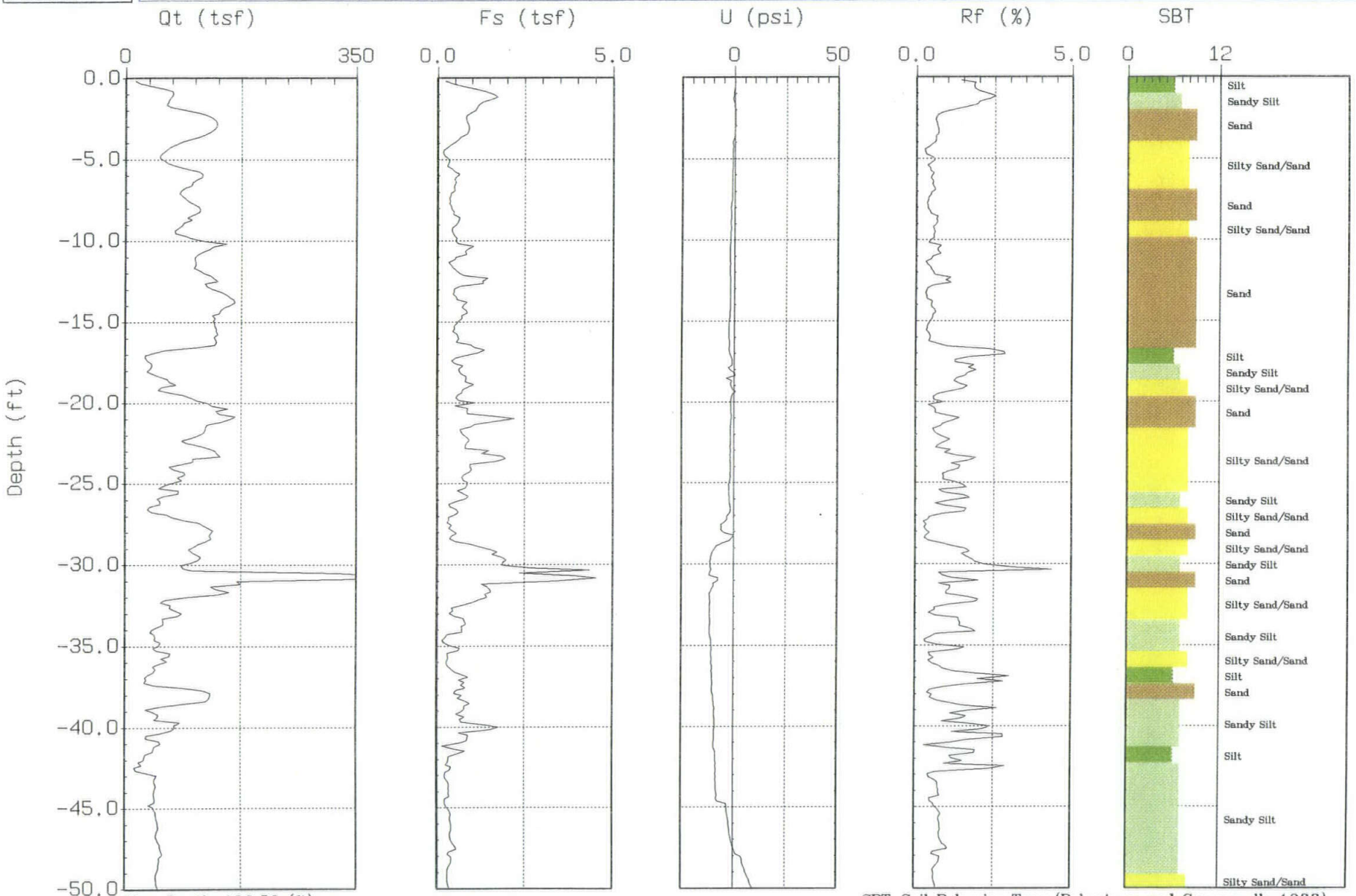
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-4

Geologist : JOSE CERCONE
Date : 11:02:97 13:08



Max. Depth: 100.56 (ft)

Depth Inc.: 0.164 (ft)

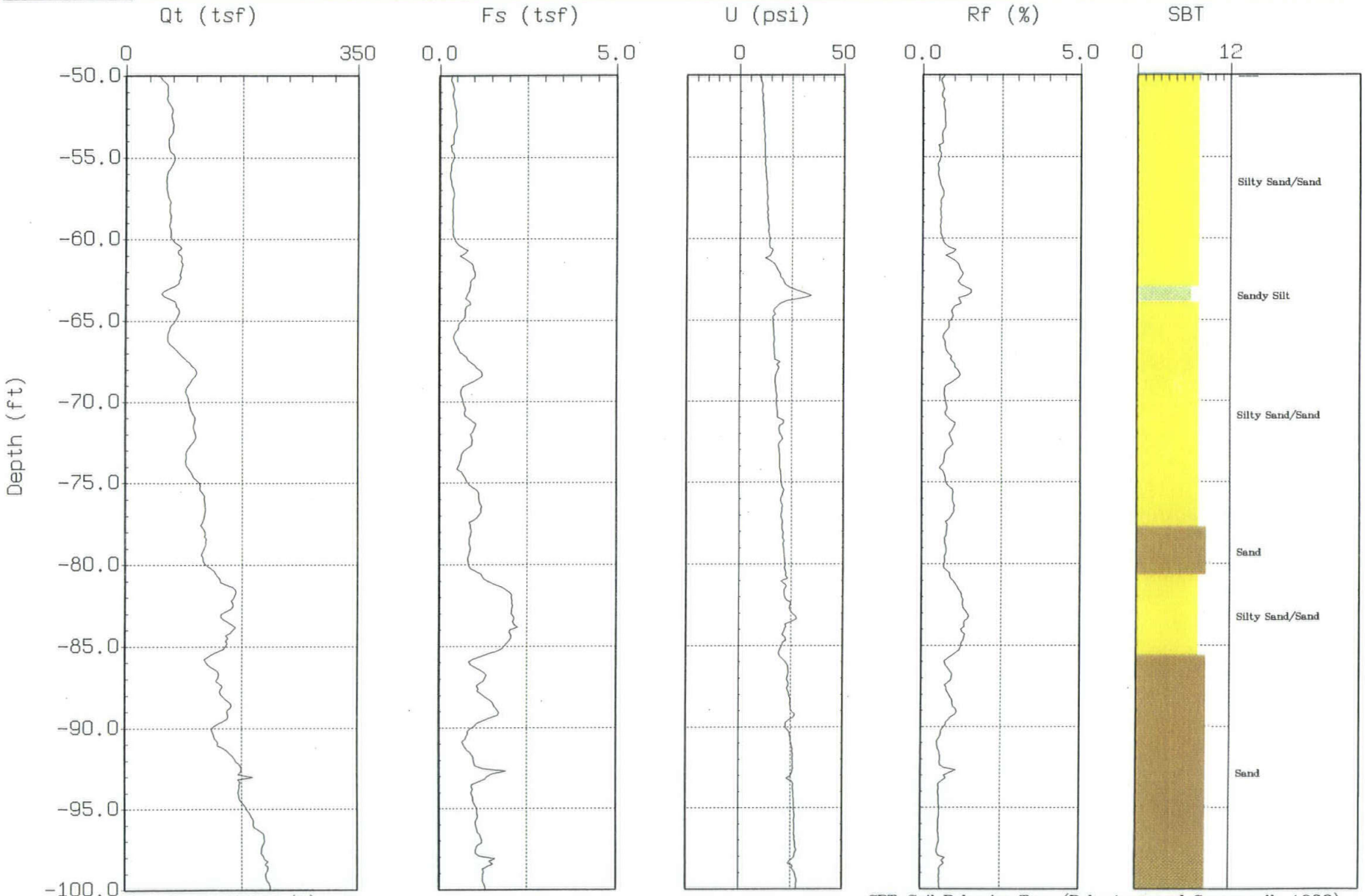
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-4

Geologist : JOSE CERCONE
Date : 11:02:97 13:08



Max. Depth: 100.56 (ft)

Depth Inc.: 0.164 (ft)

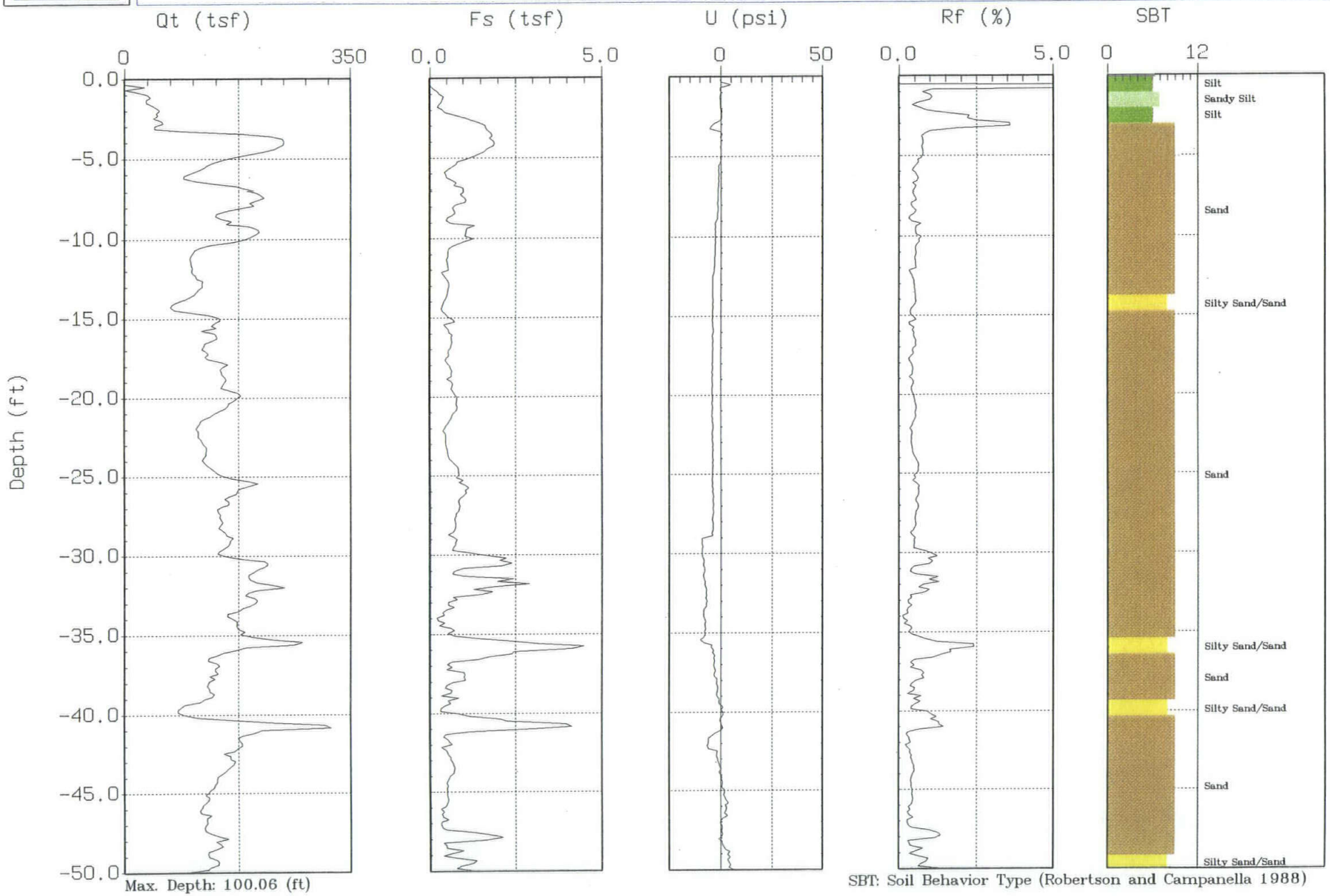
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-5

Geologist : JOSE CERCONE
Date : 11:03:97 08:15



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

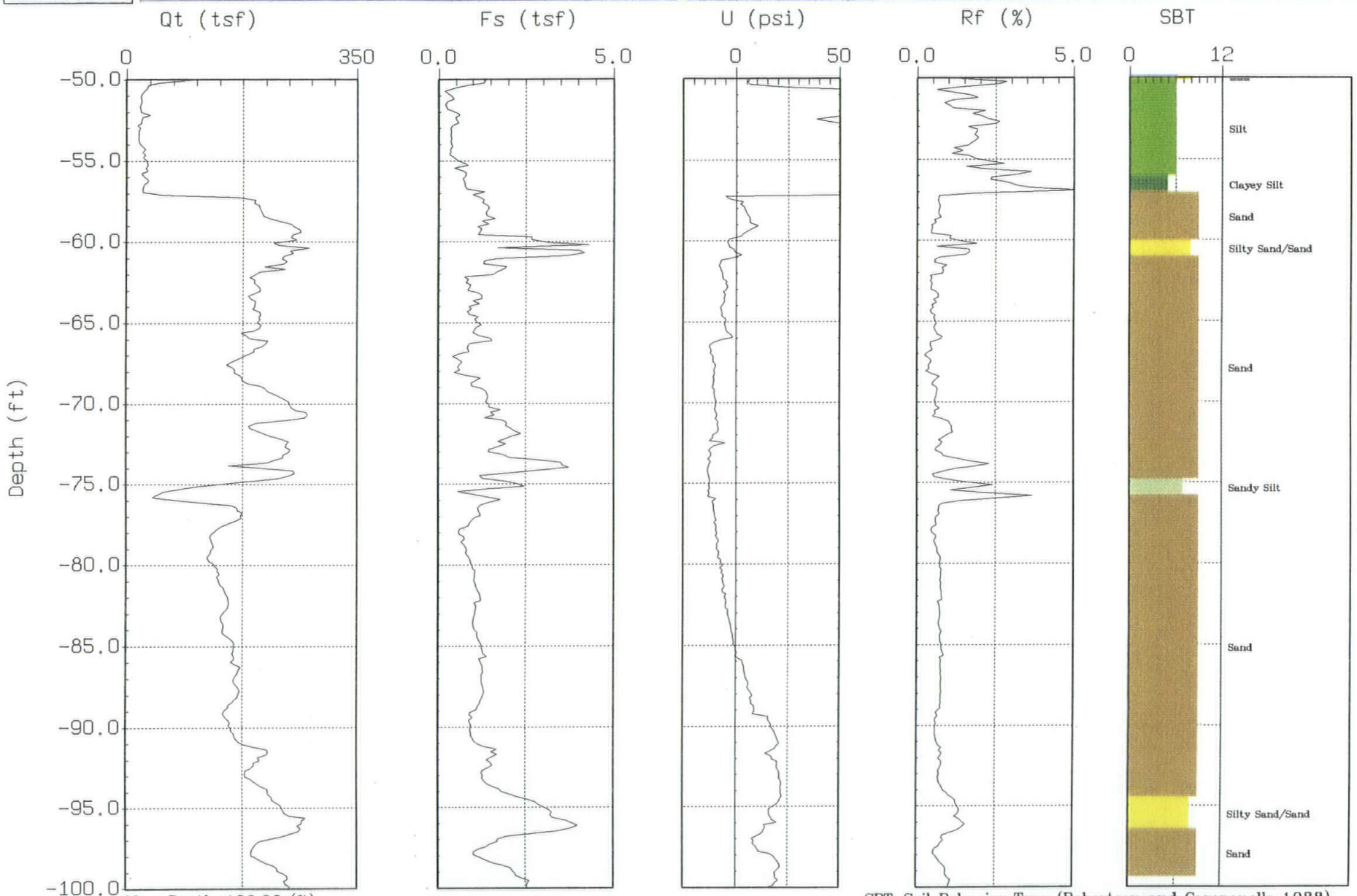
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-5

Geologist : JOSE CERCONE
Date : 11:03:97 08:15



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

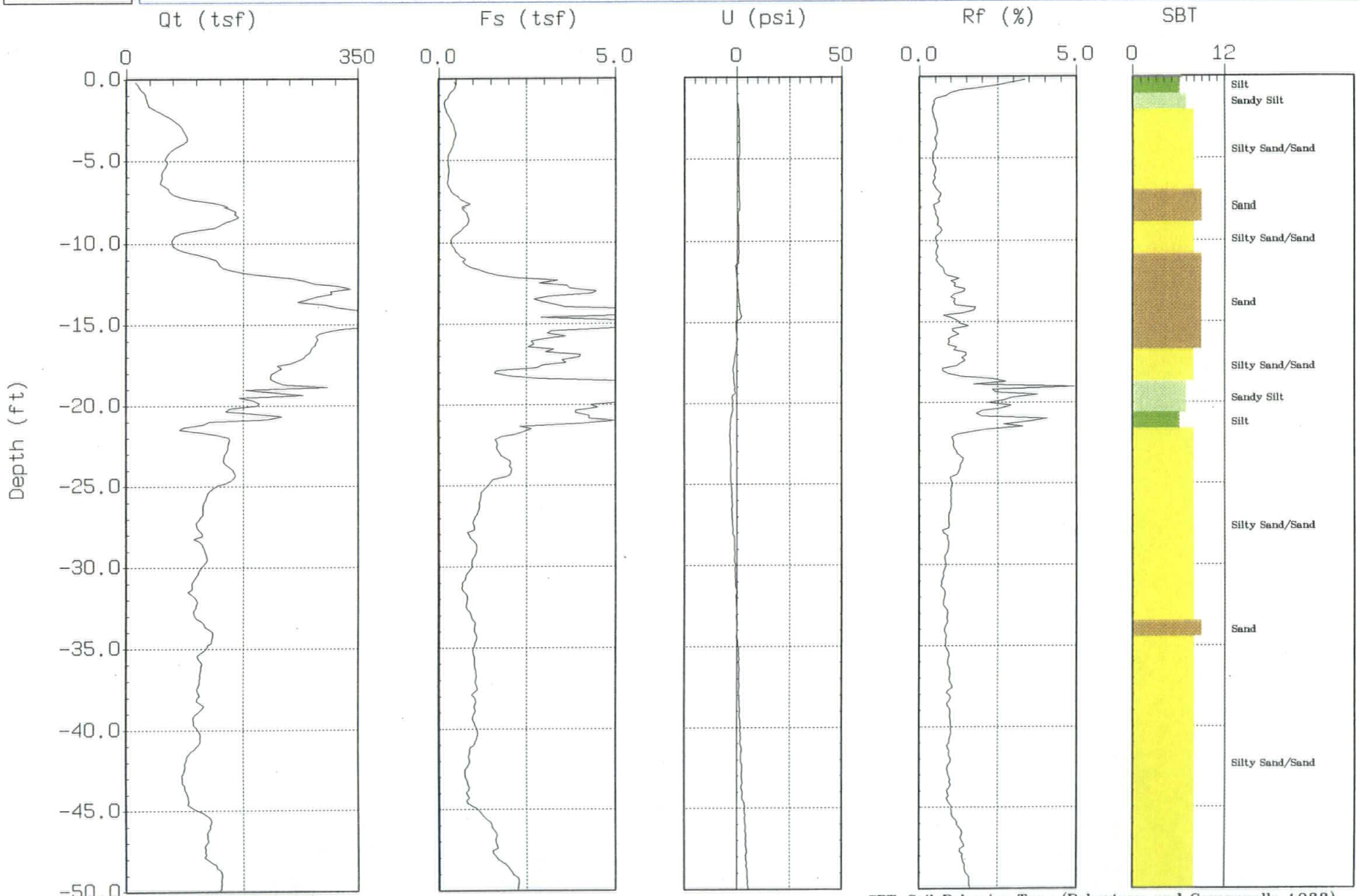
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-6

Geologist : JOSE CERCONE
Date : 11:04:97 15:02



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

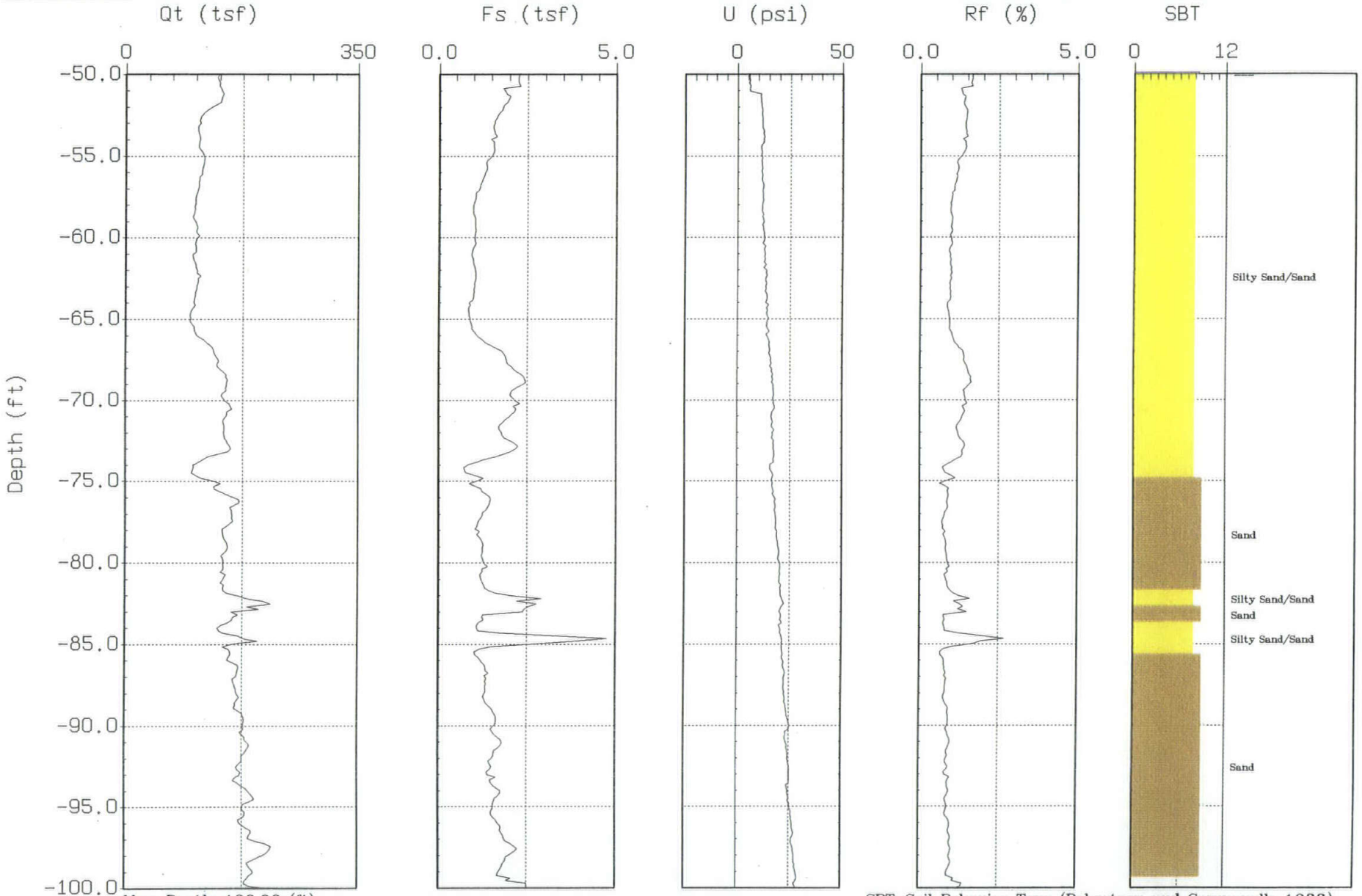
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-6

Geologist : JOSE CERCONE
Date : 11:04:97 15:02



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

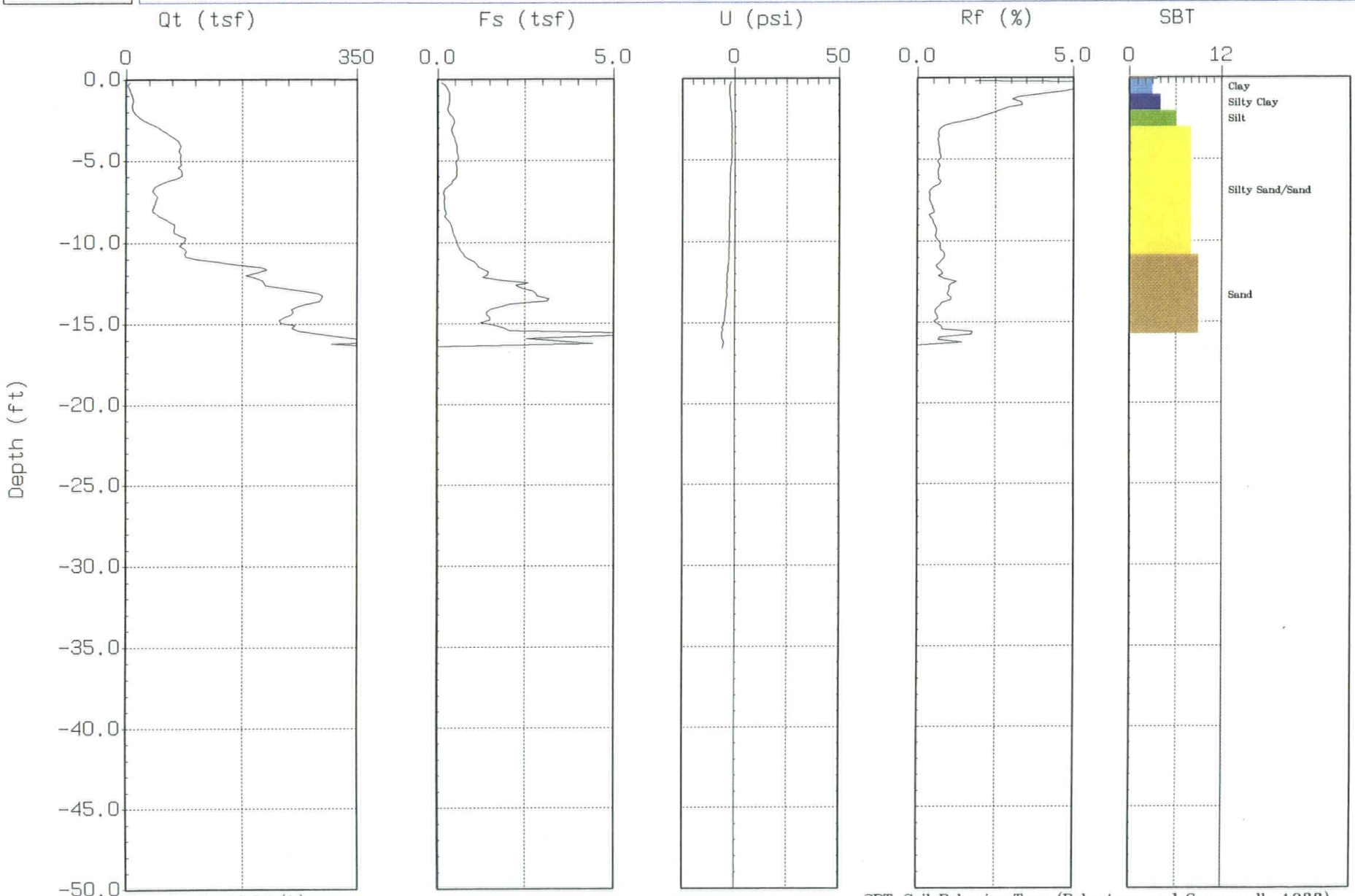
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-7

Geologist : JOSE CERCONE
Date : 11:04:97 12:58



Max. Depth: 16.57 (ft)

Depth Inc.: 0.164 (ft)

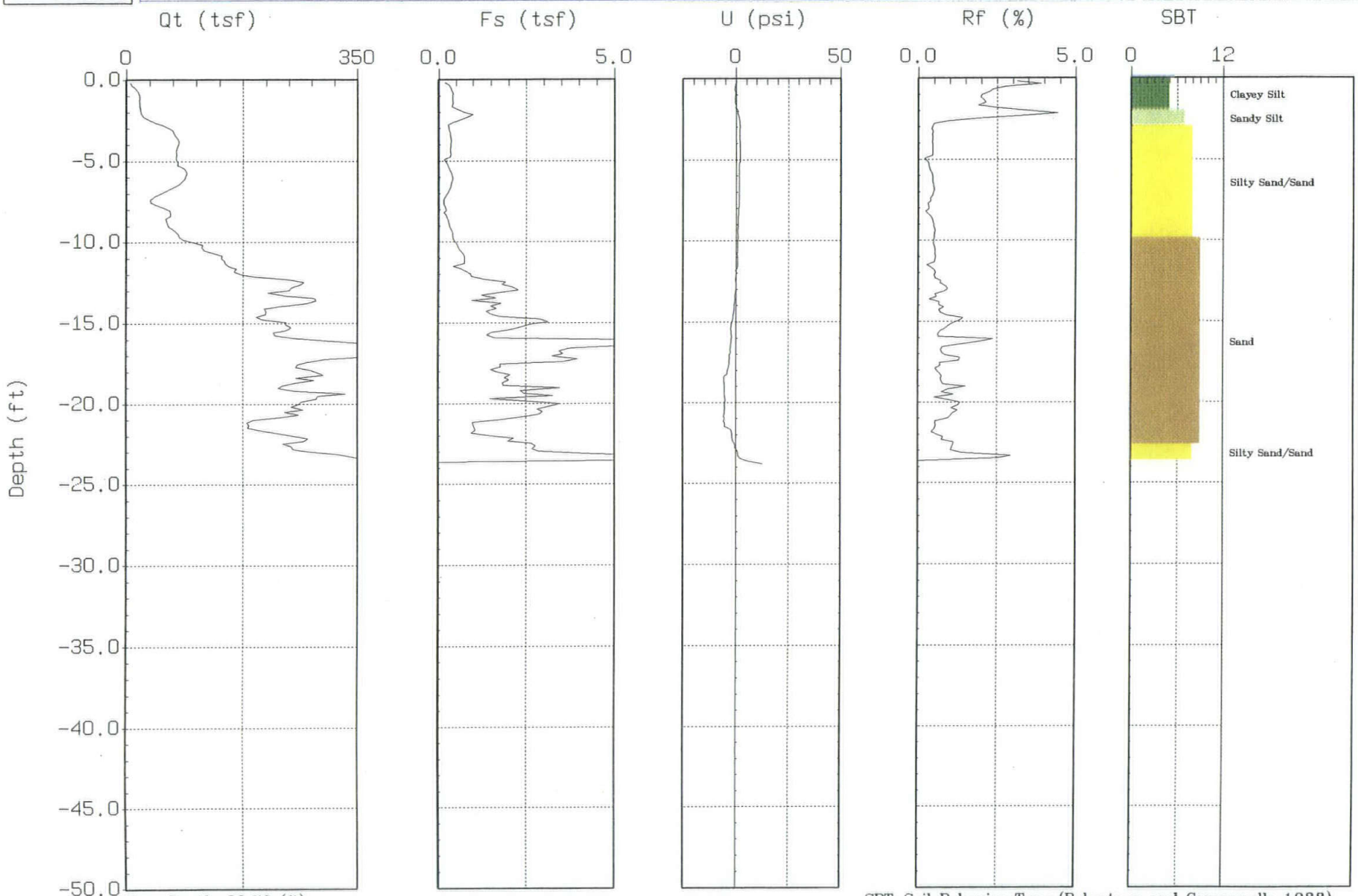
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-7A

Geologist : JOSE CERCONE
Date : 11:04:97 13:18



Max. Depth: 23.79 (ft)

Depth Inc.: 0.164 (ft)

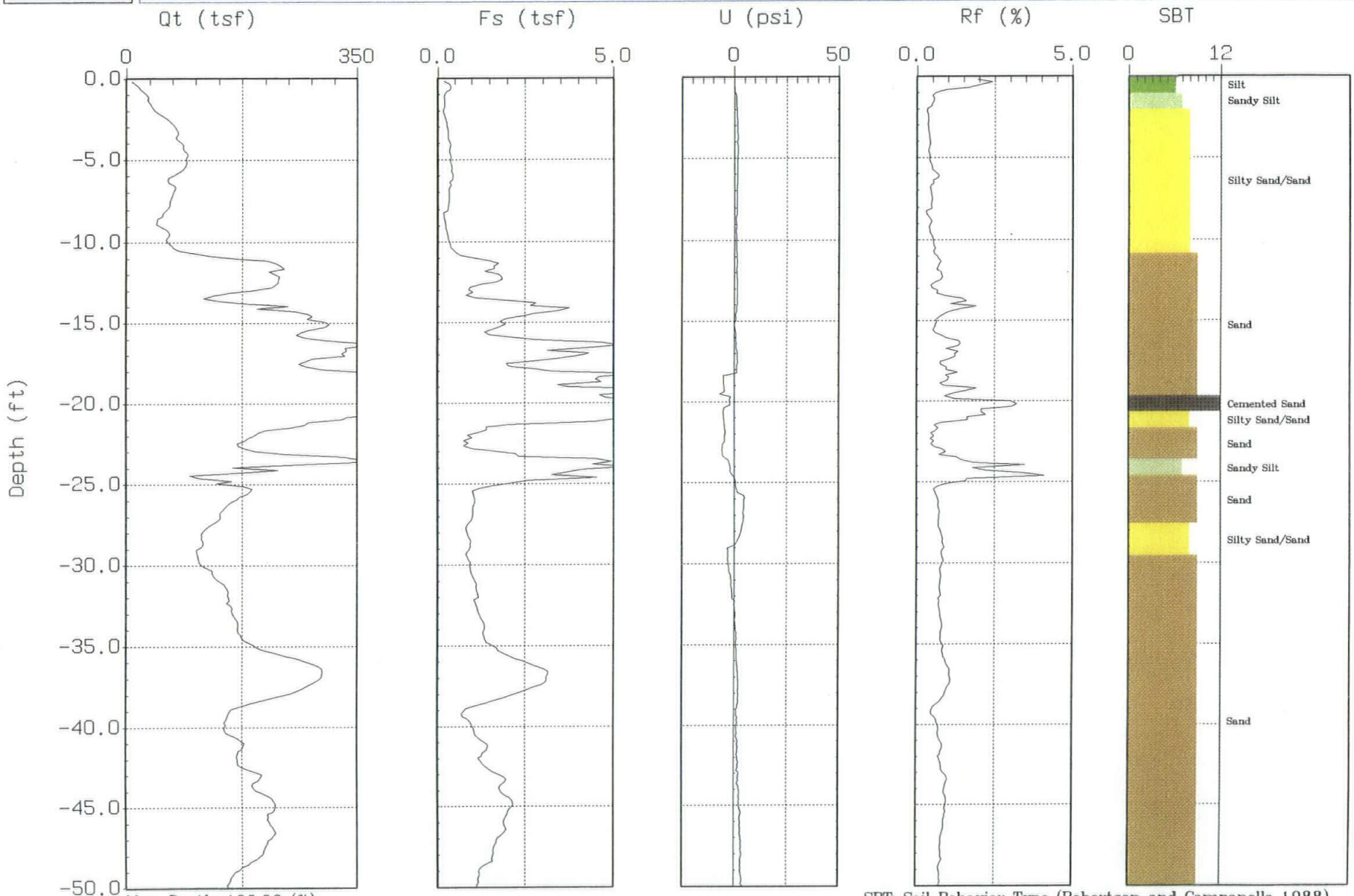
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-7B

Geologist : JOSE CERCONE
Date : 11:04:97 13:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

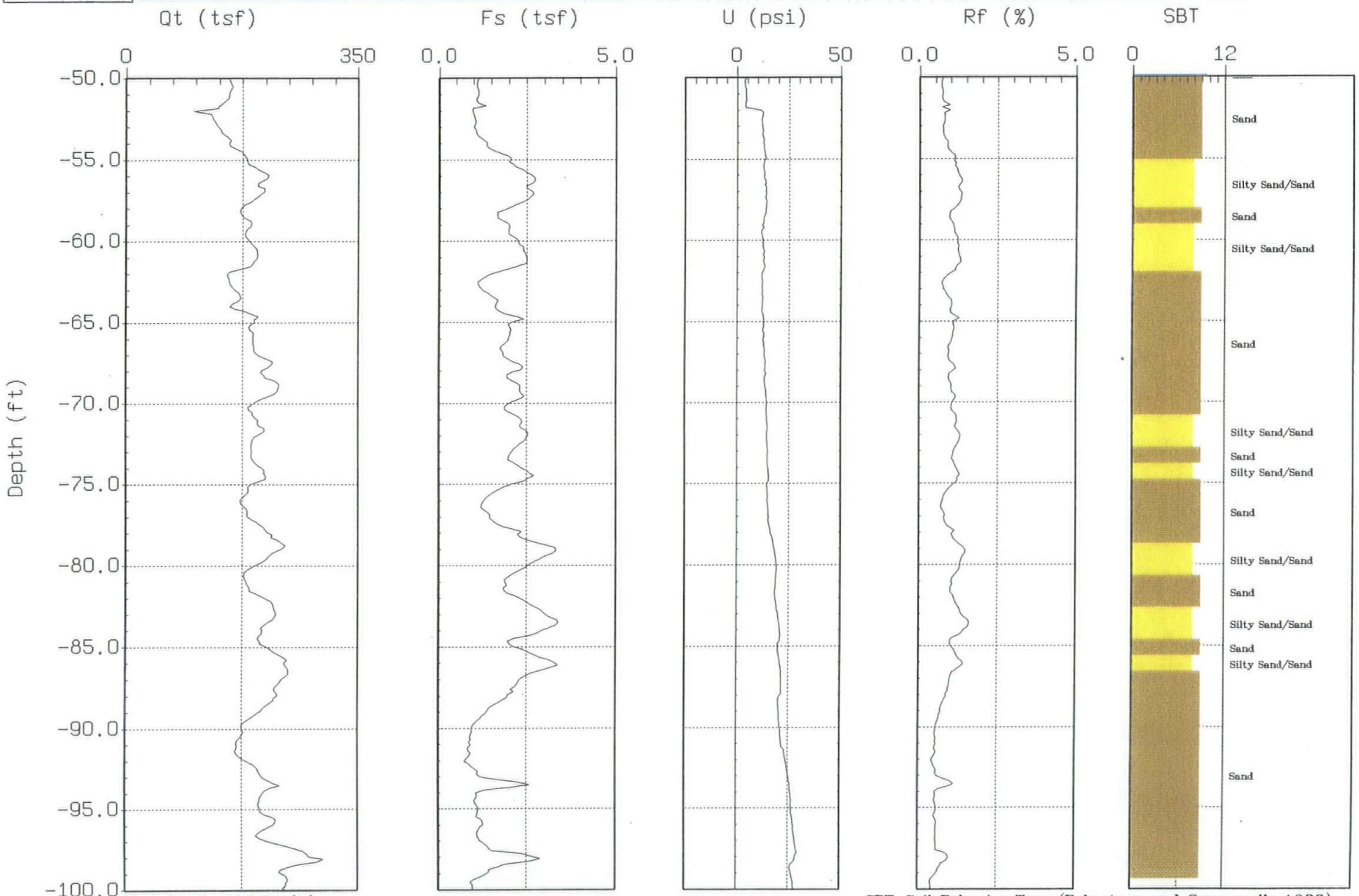
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-7B

Geologist : JOSE CERCONE
Date : 11:04:97 13:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

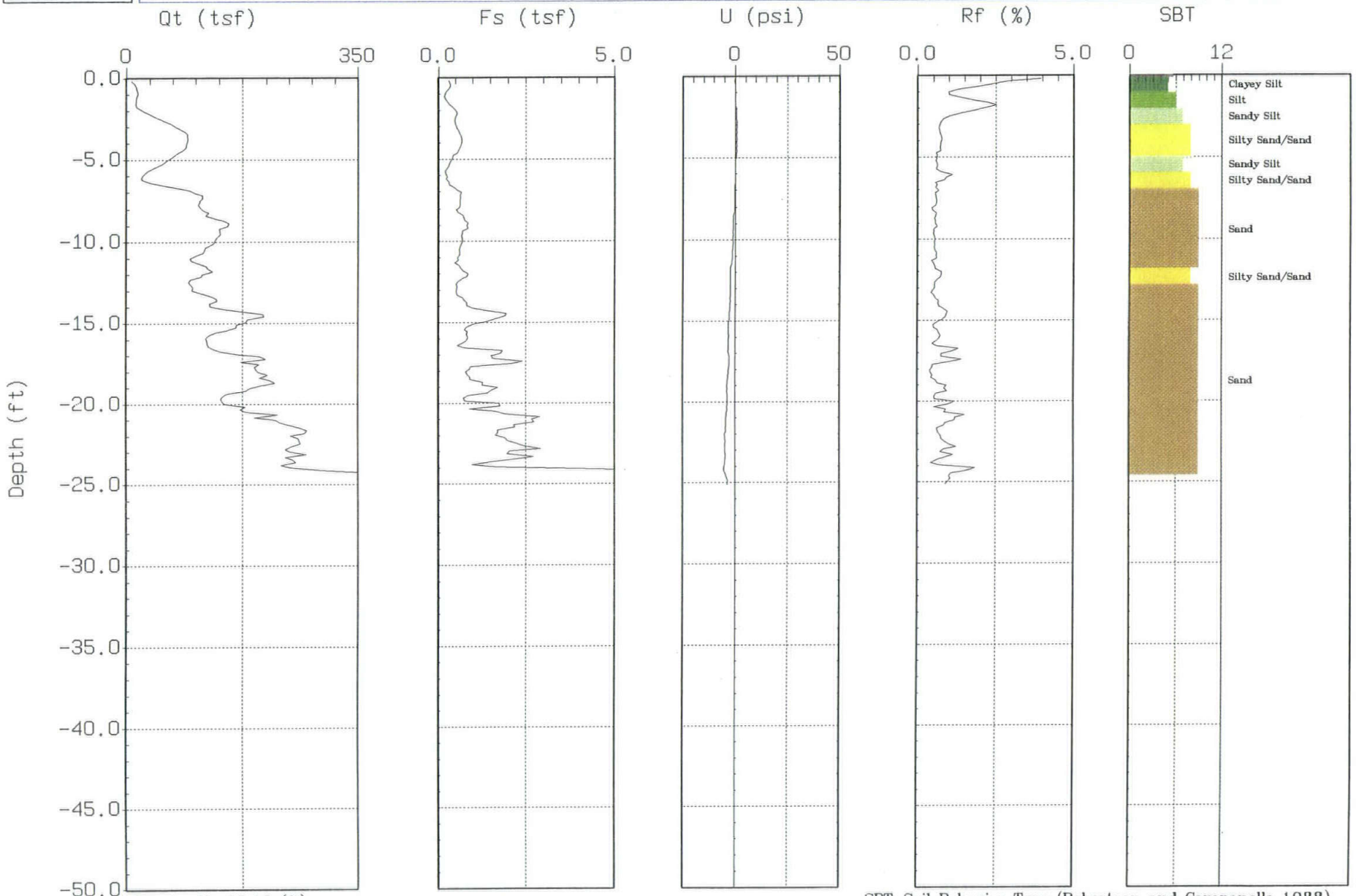
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site :
Location : W1-8

Geologist : JOSE CERCONE
Date : 11:03:97 13:37



Max. Depth: 25.10 (ft)

Depth Inc.: 0.164 (ft)

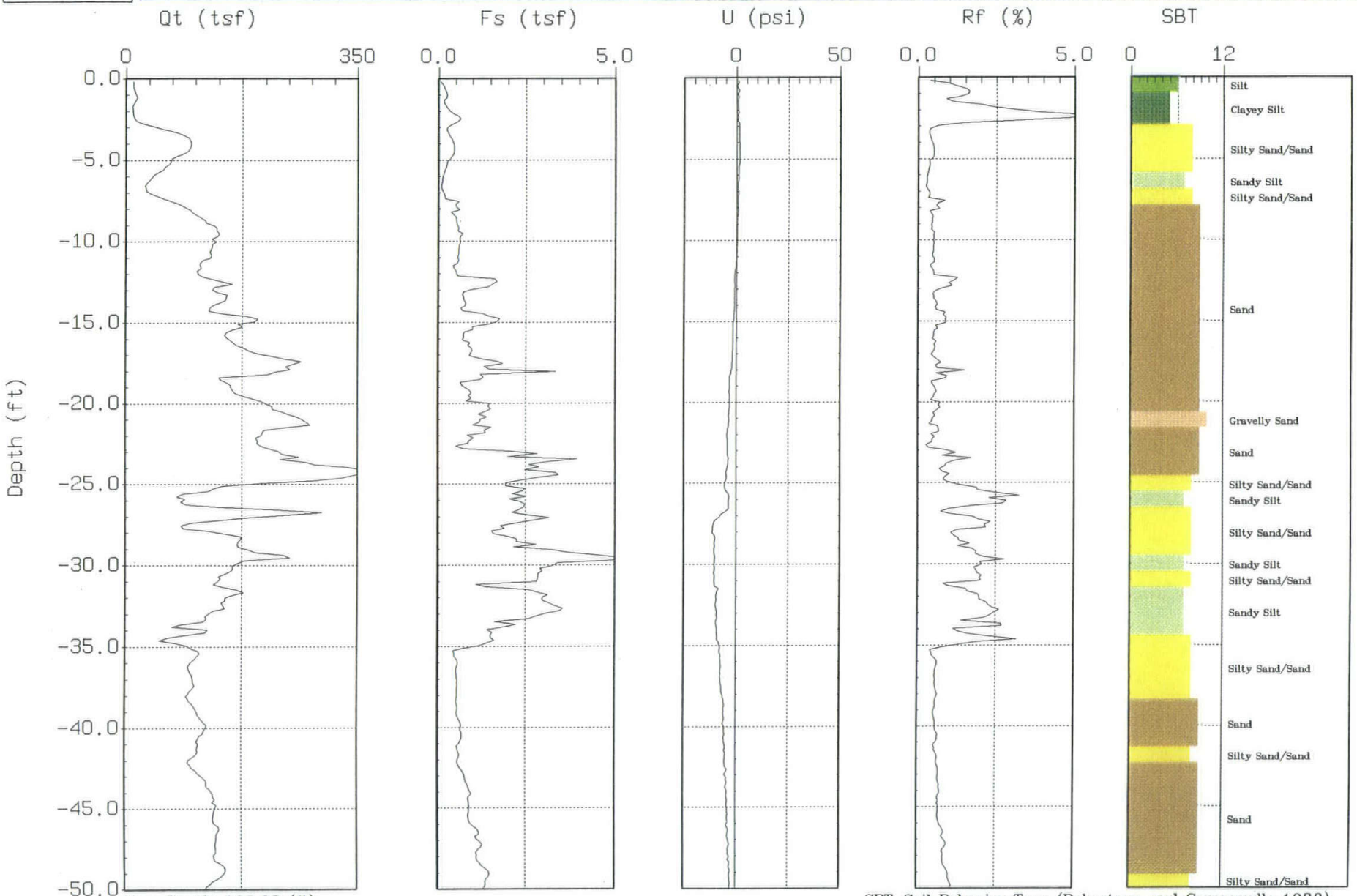
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-8A

Geologist : JOSE CERCONE
Date : 11:03:97 13:57



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

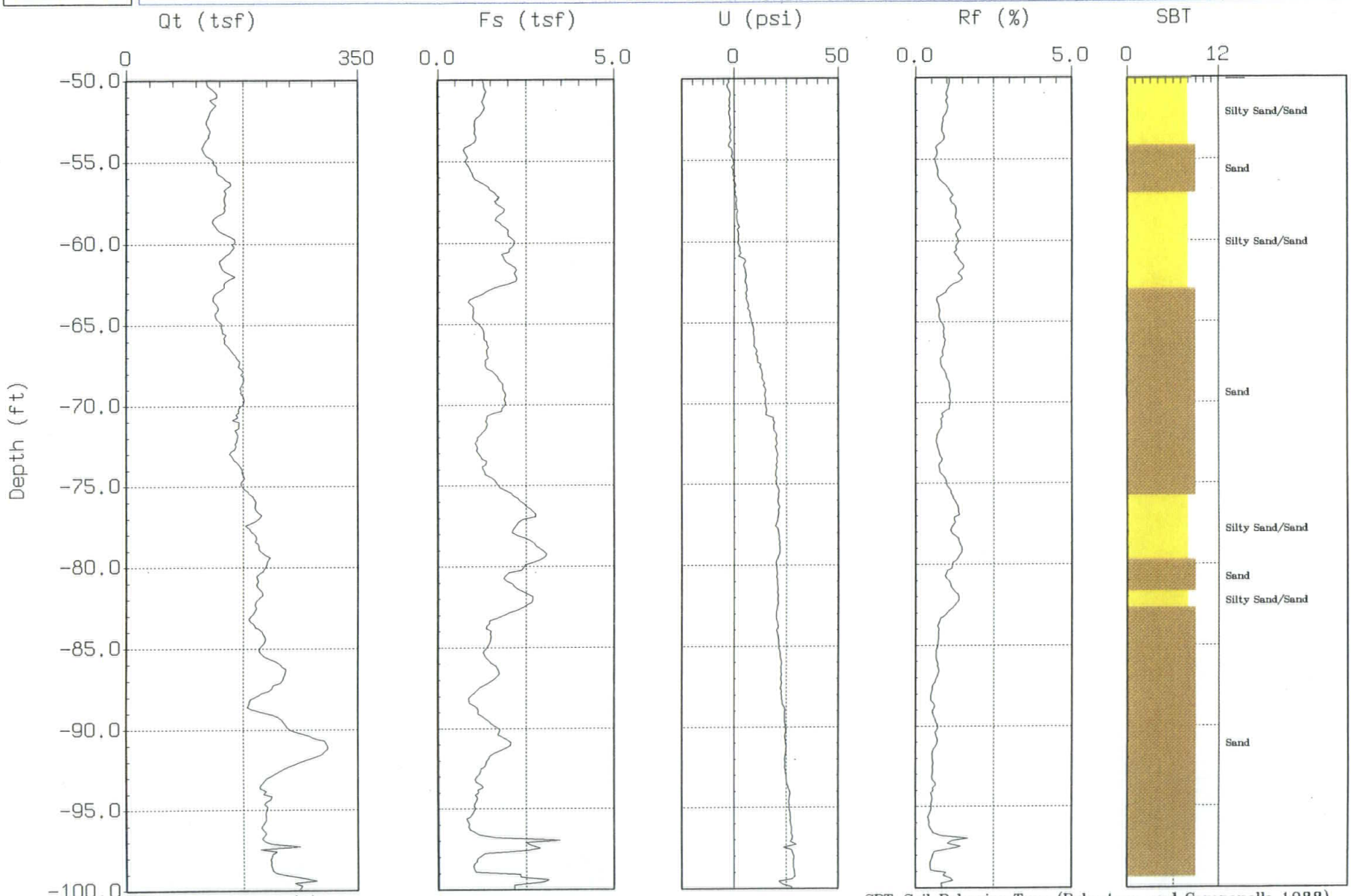
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-8A

Geologist : JOSE CERCONE
Date : 11:03:97 13:57



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

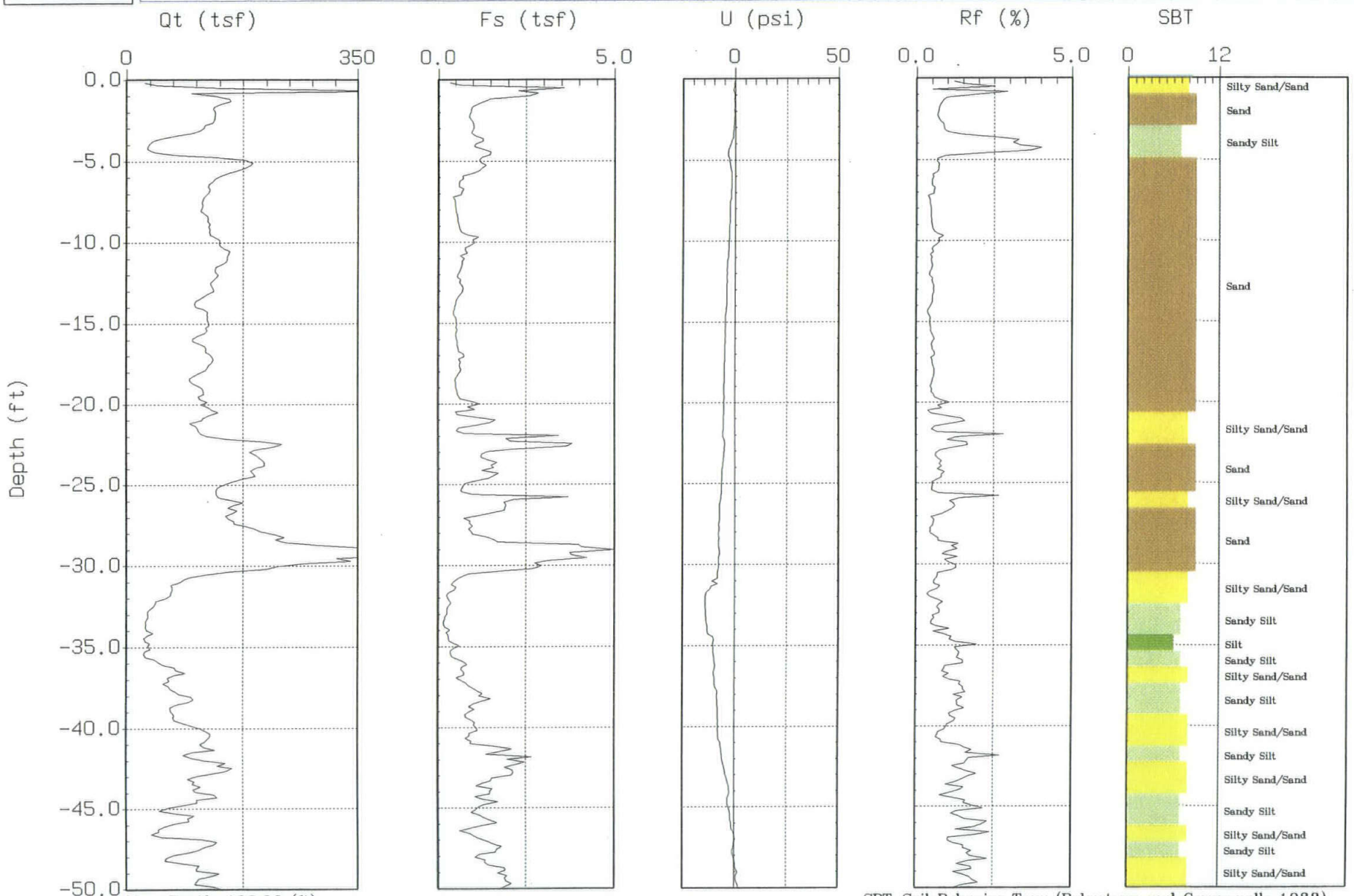
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-9

Geologist : JOSE CERCONE
Date : 11:03:97 11:06



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

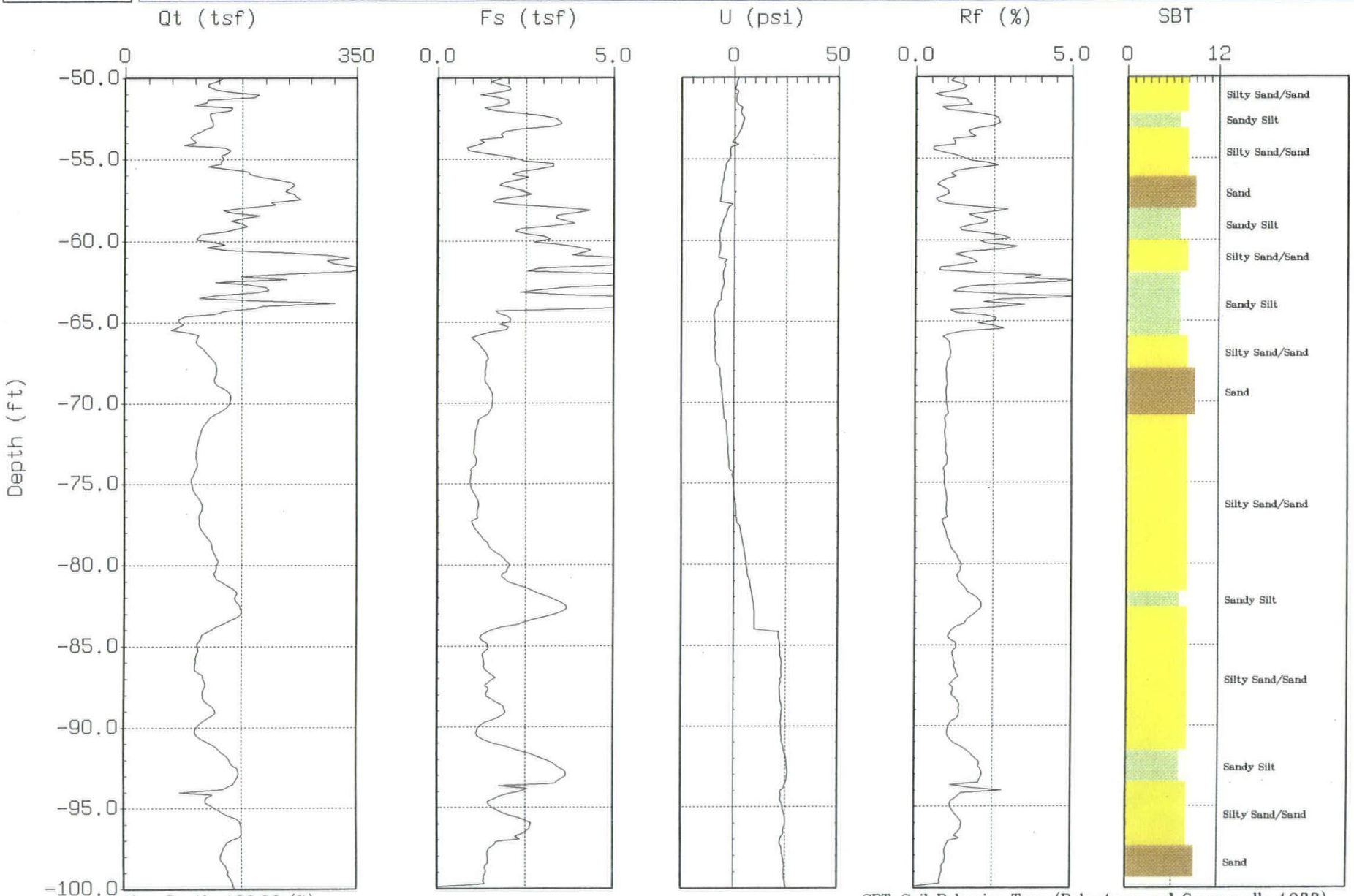
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-9

Geologist : JOSE CERCONE
Date : 11:03:97 11:06



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

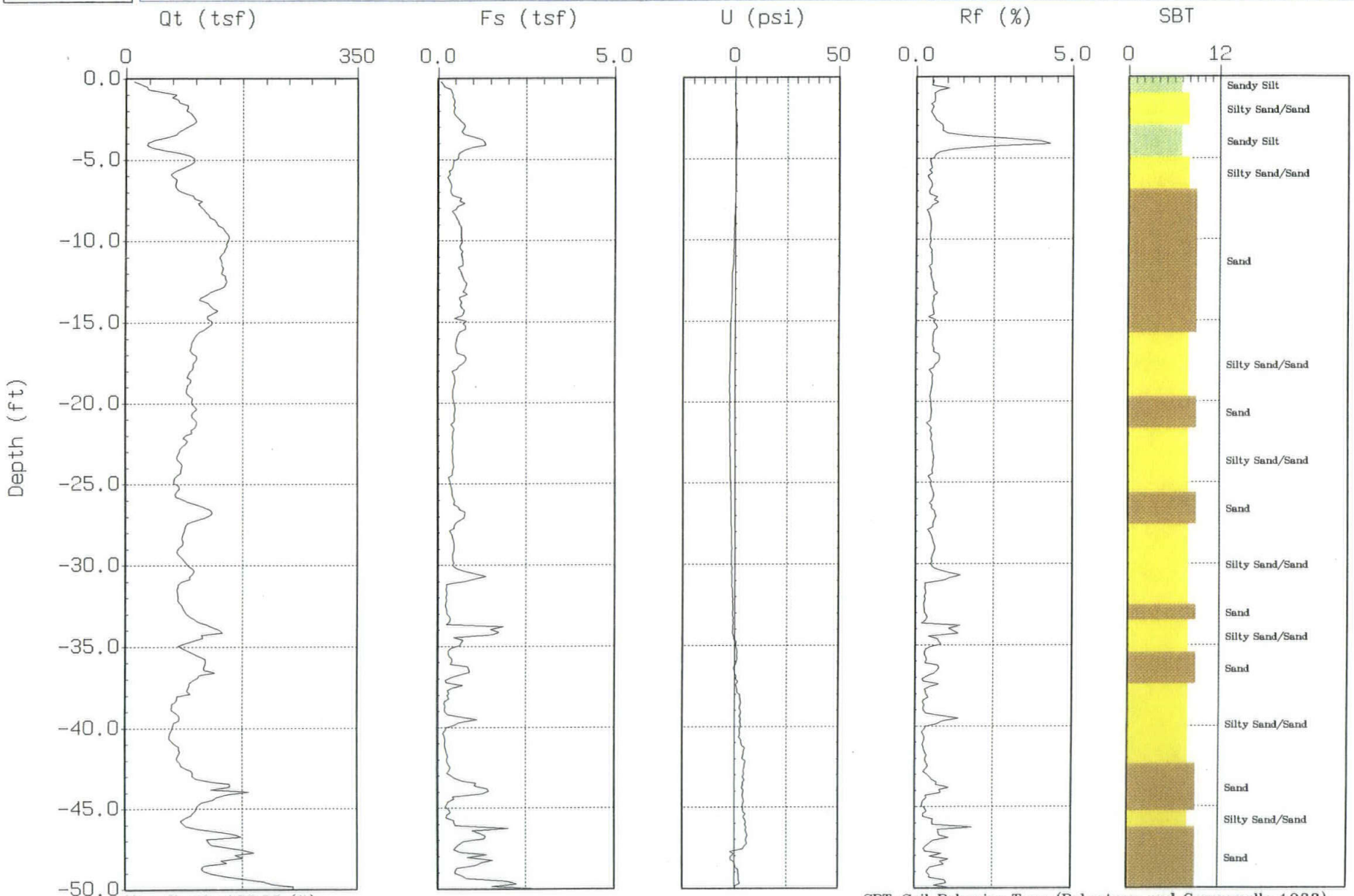
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-10

Geologist : JOSE CERCONE
Date : 11:03:97 09:30



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

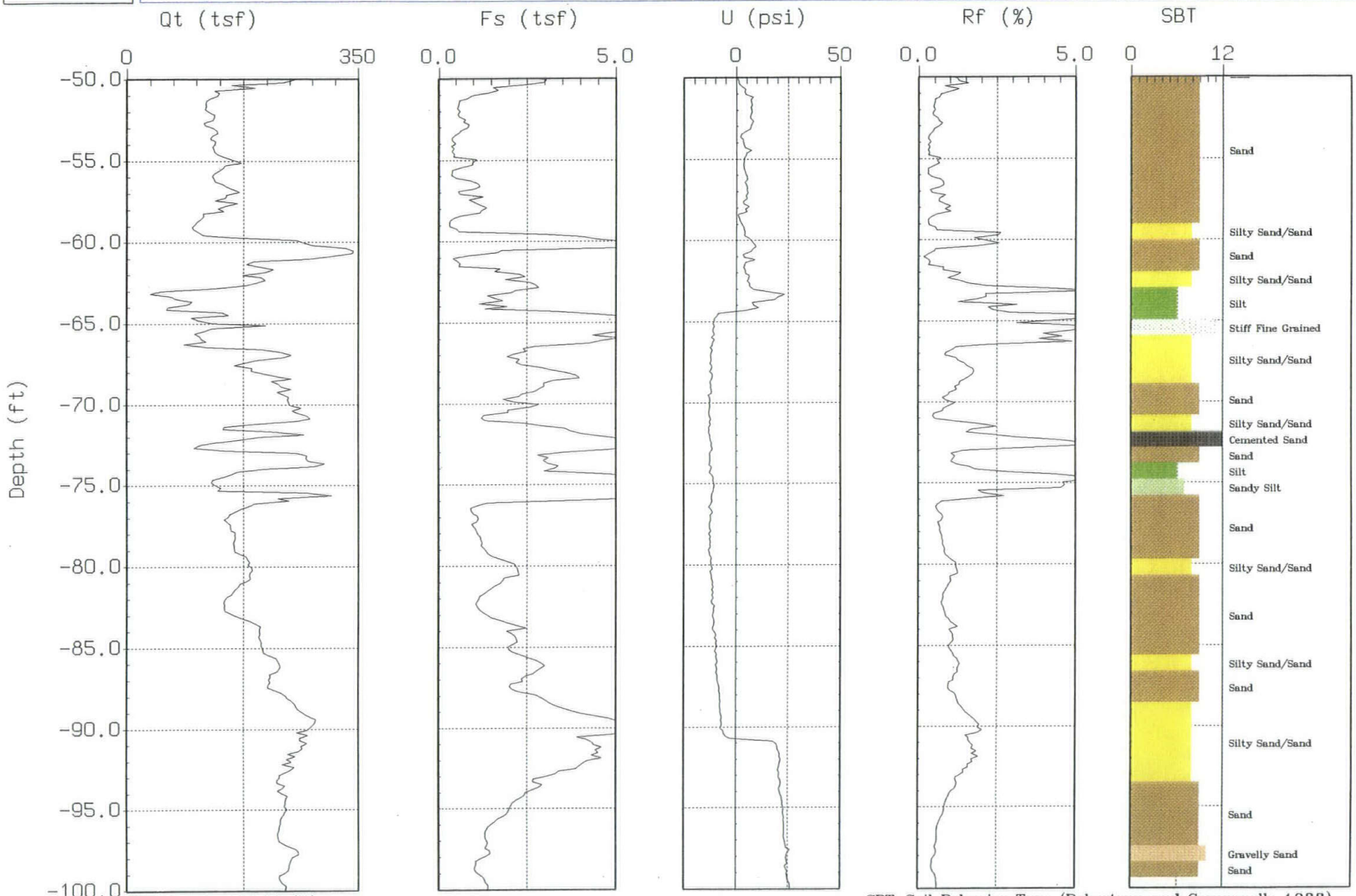
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-10

Geologist : JOSE CERCONE
Date : 11:03:97 09:30



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

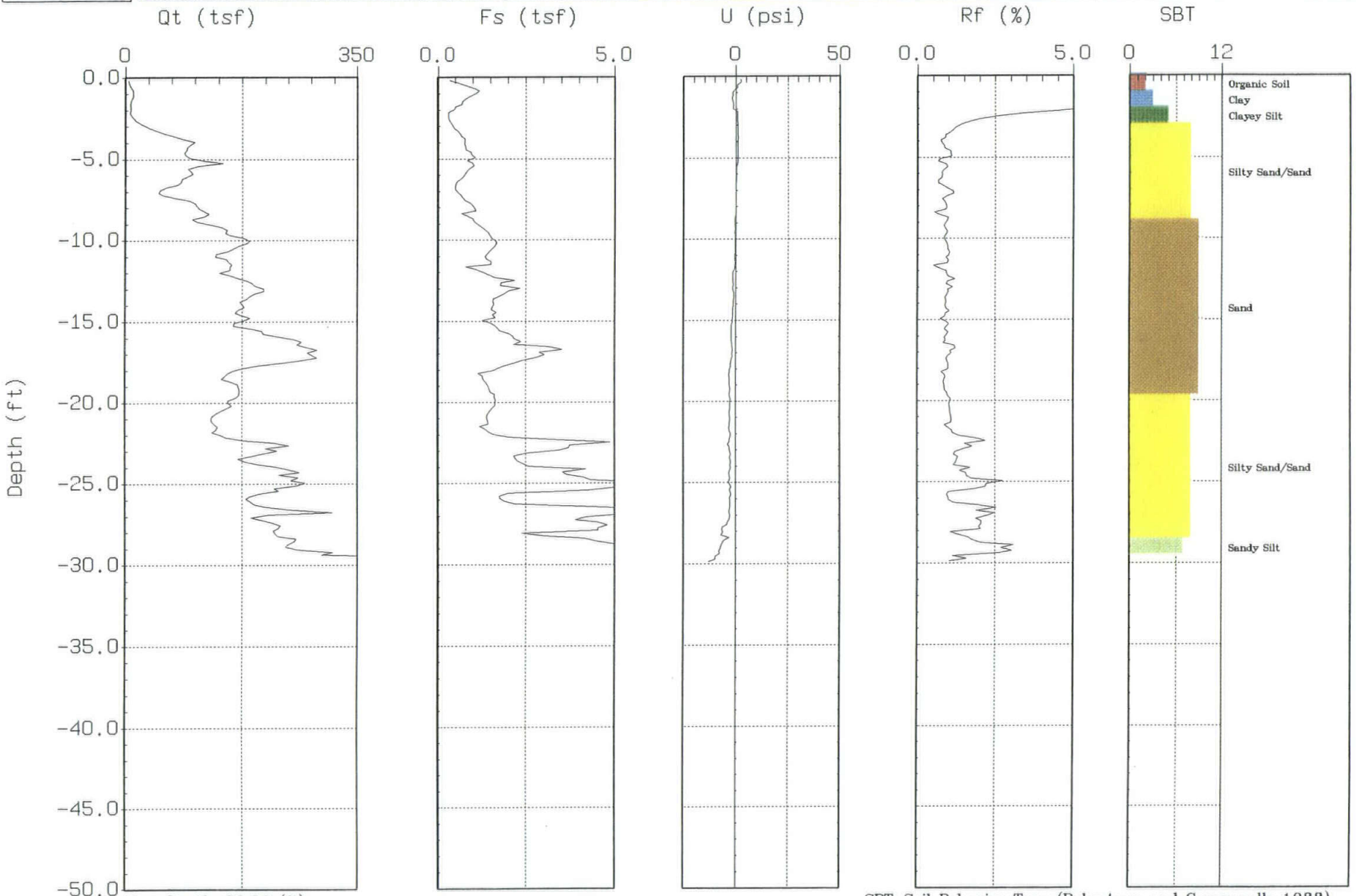
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-11

Geologist : JOSE CERCONE
Date : 11:05:97 07:46



Max. Depth: 29.86 (ft)

Depth Inc.: 0.164 (ft)

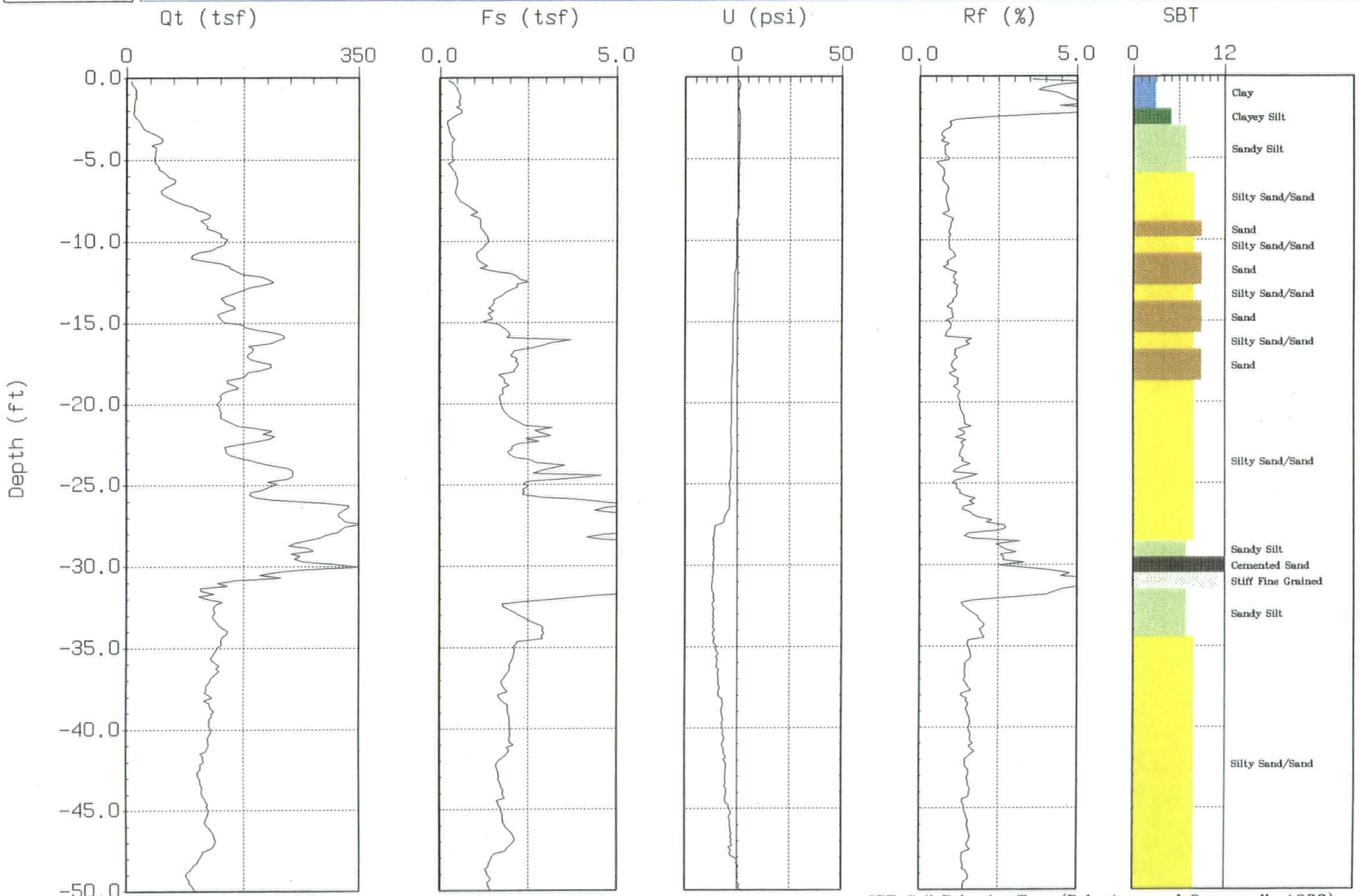
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-11A

Geologist : JOSE CERCONE
Date : 11:05:97 08:21



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

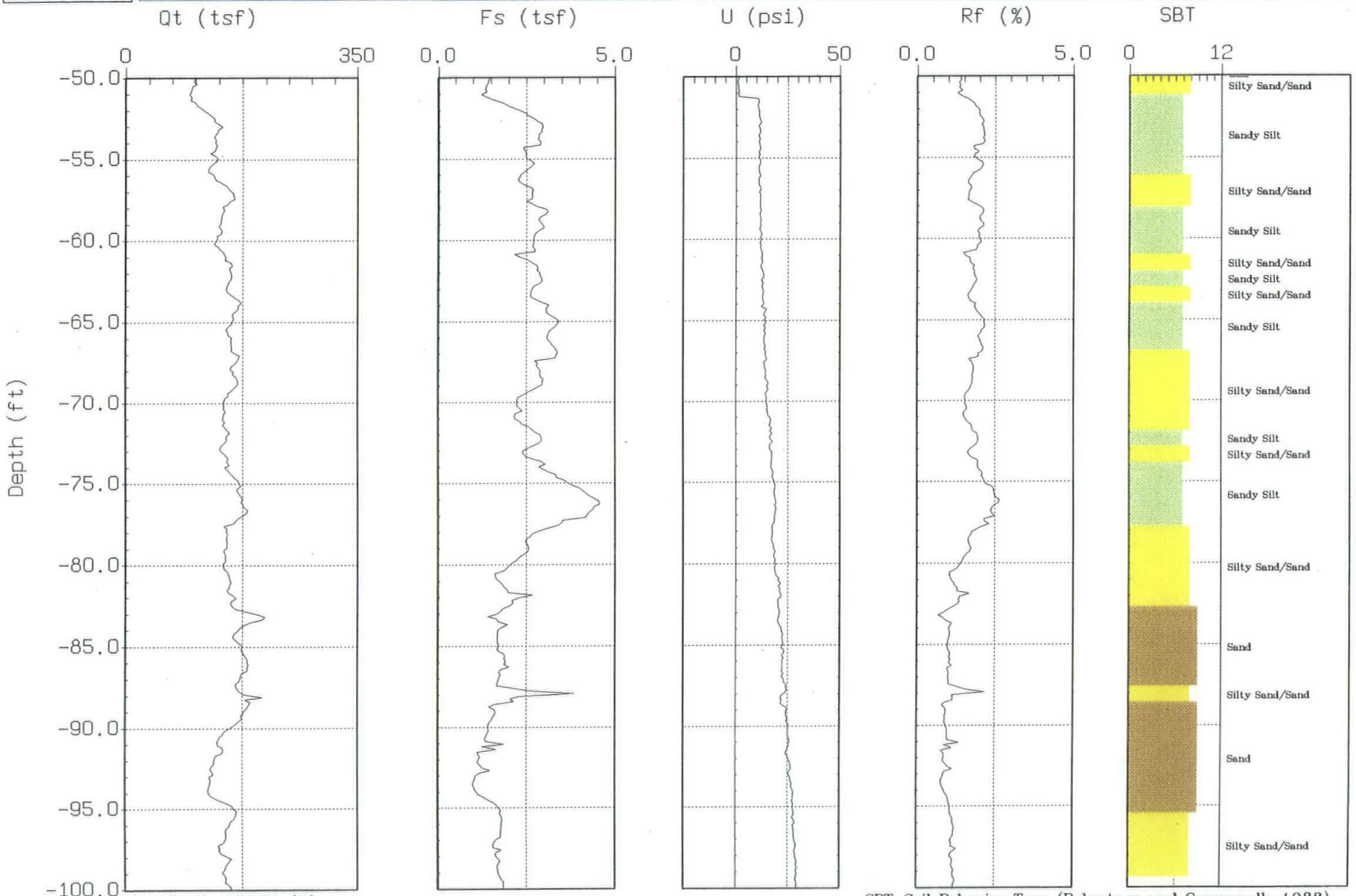
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-11A

Geologist : JOSE CERCONE
Date : 11:05:97 08:21



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

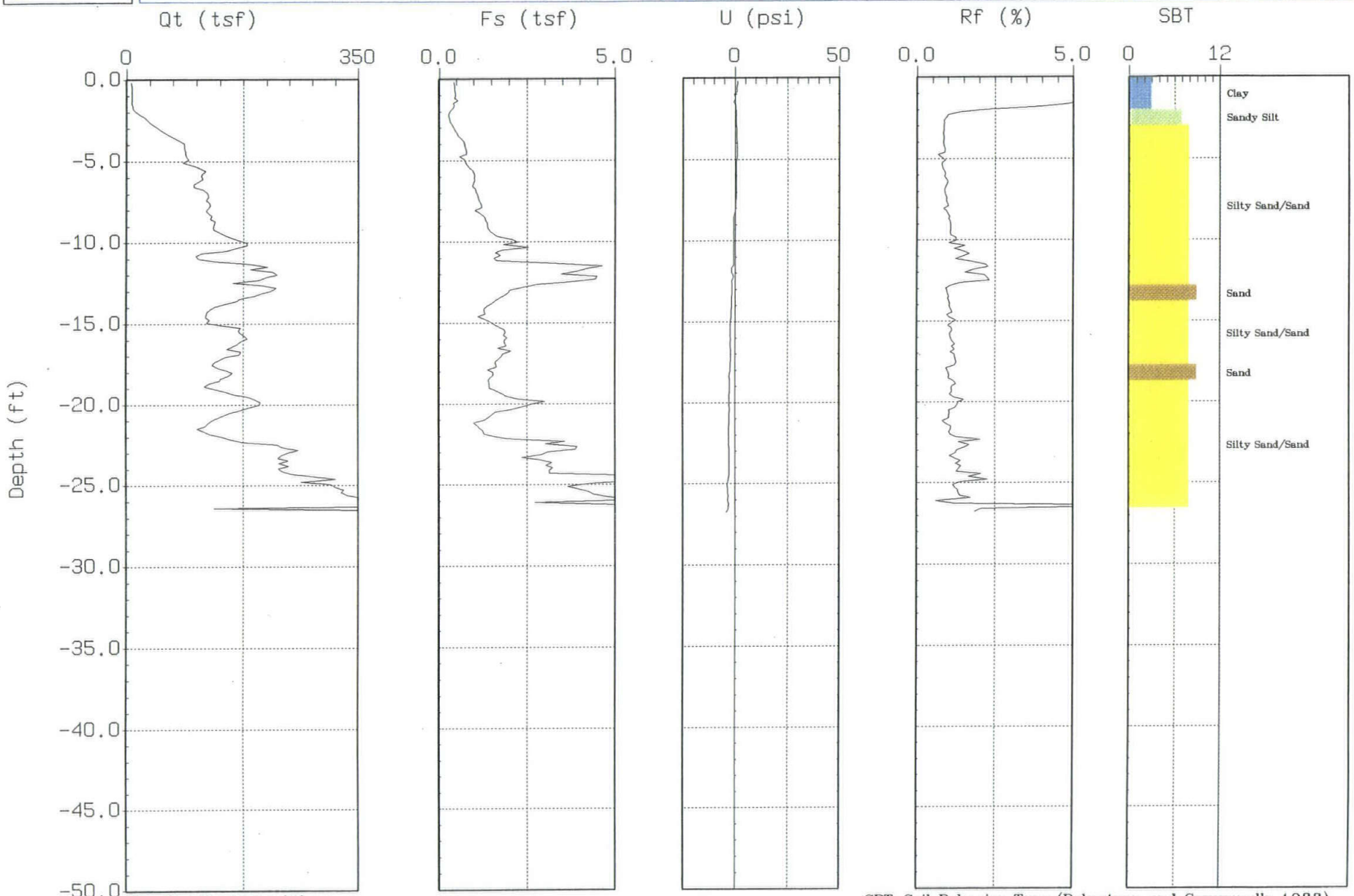
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : AÑOKA PARK
Location : W1-12

Geologist : JOSE CERCONE
Date : 11:05:97 09:33



Max. Depth: 26.74 (ft)

Depth Inc.: 0.164 (ft)

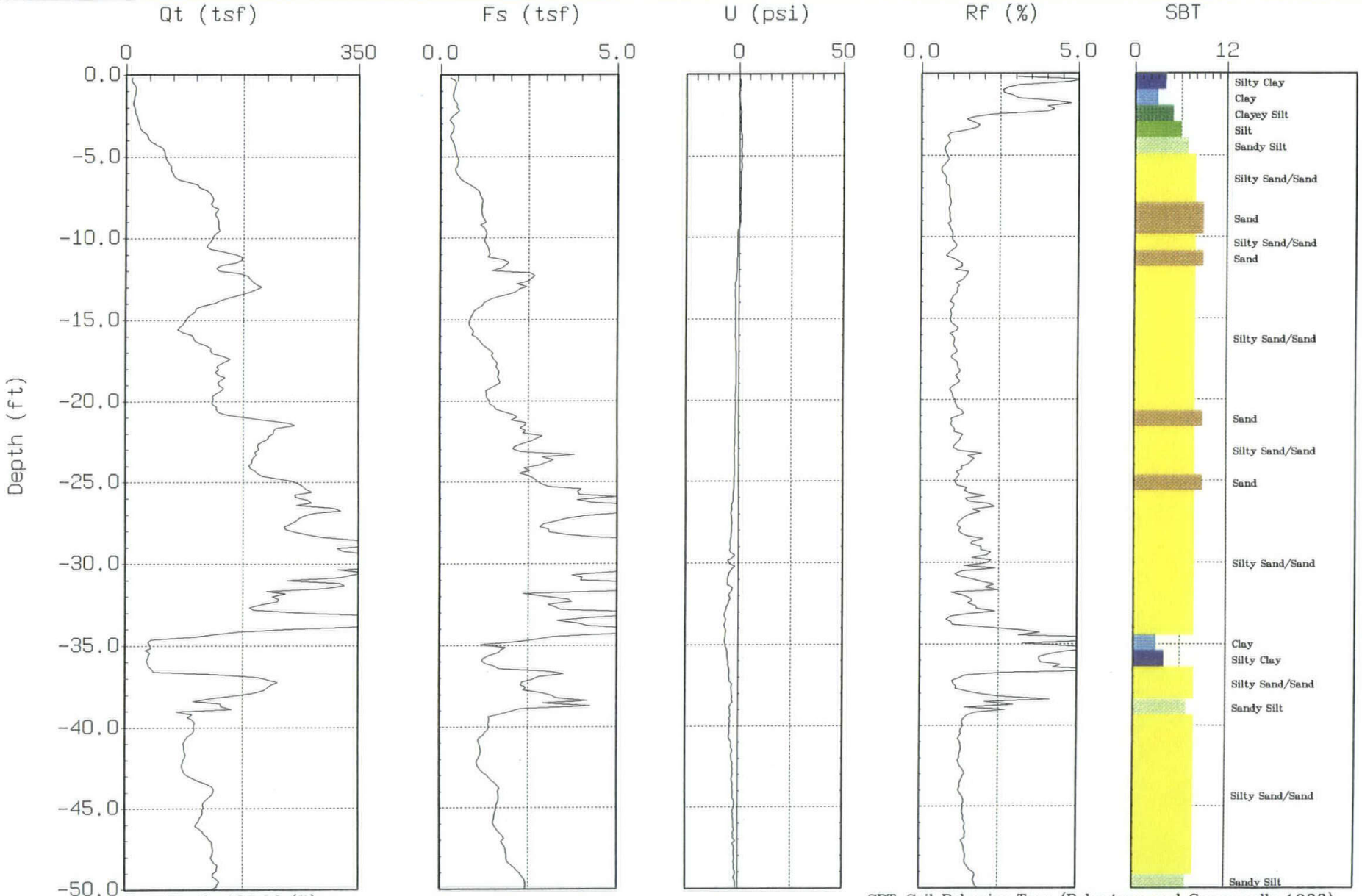
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-12A

Geologist : JOSE CERCONE
Date : 11:05:97 10:05



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

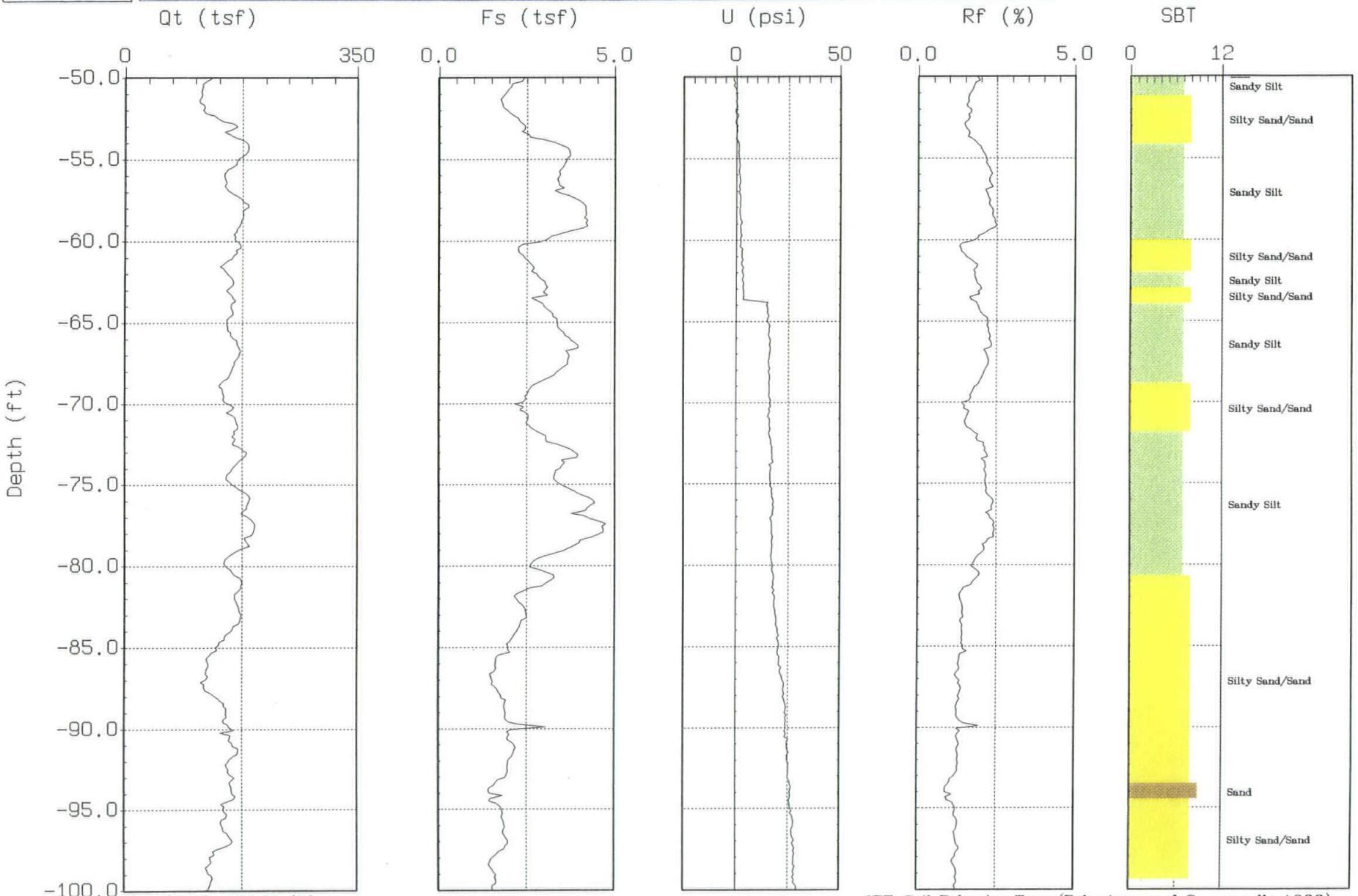
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-12A

Geologist : JOSE CERCONE
Date : 11:05:97 10:05



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

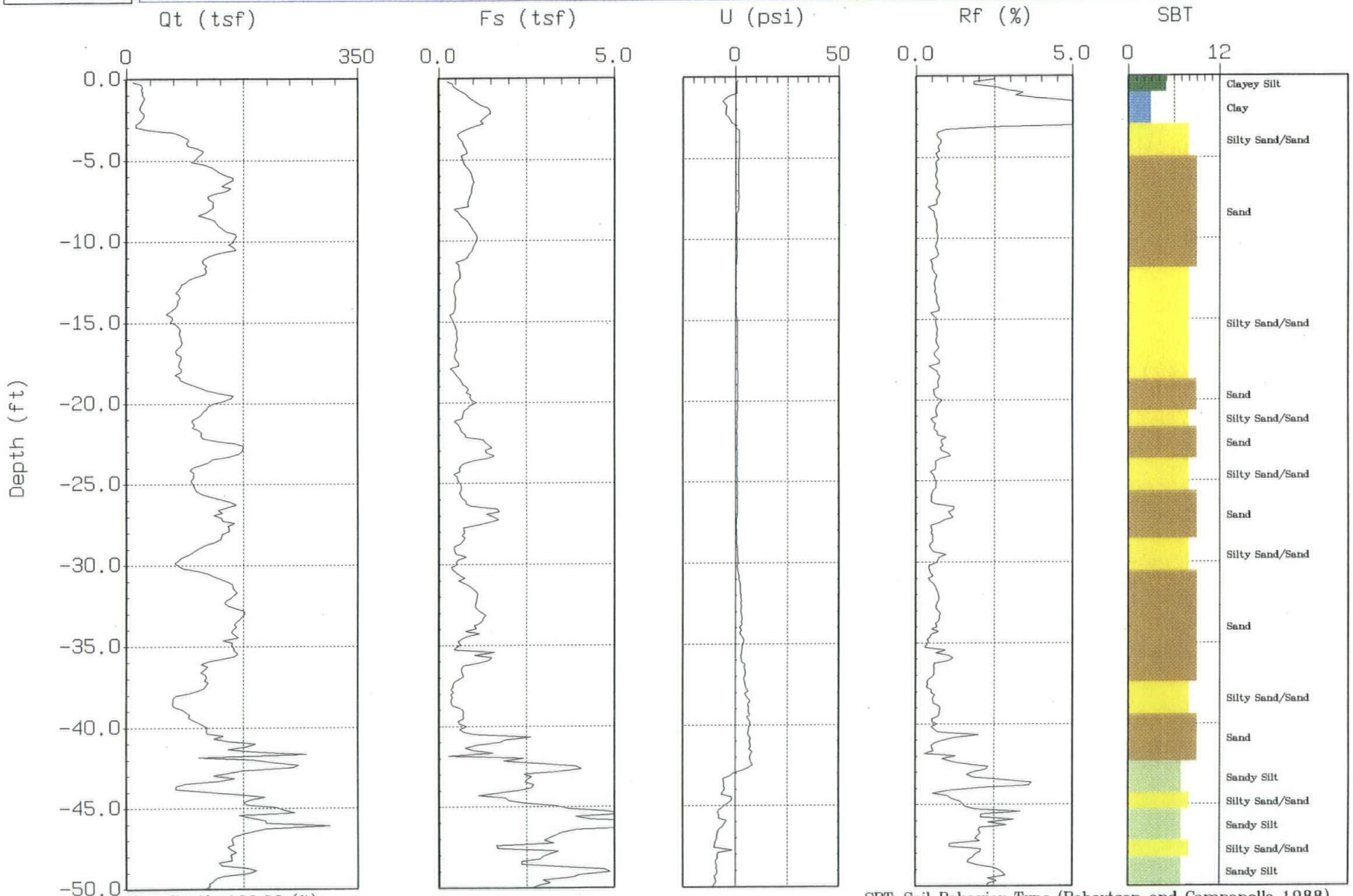
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-13

Geologist : JOSE CERCONE
Date : 11:05:97 12:25



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

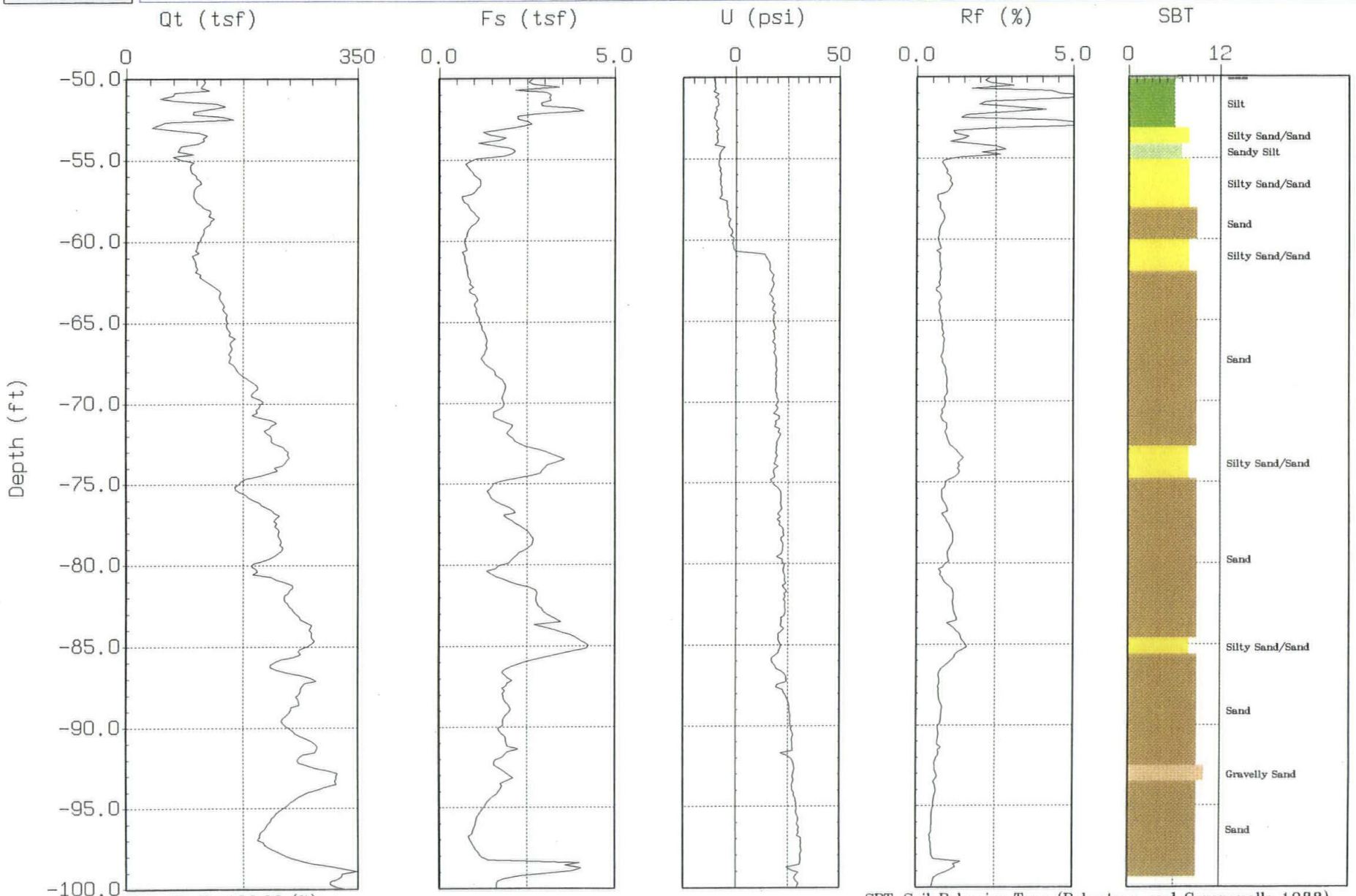
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-13

Geologist : JOSE CERCONE
Date : 11:05:97 12:25



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

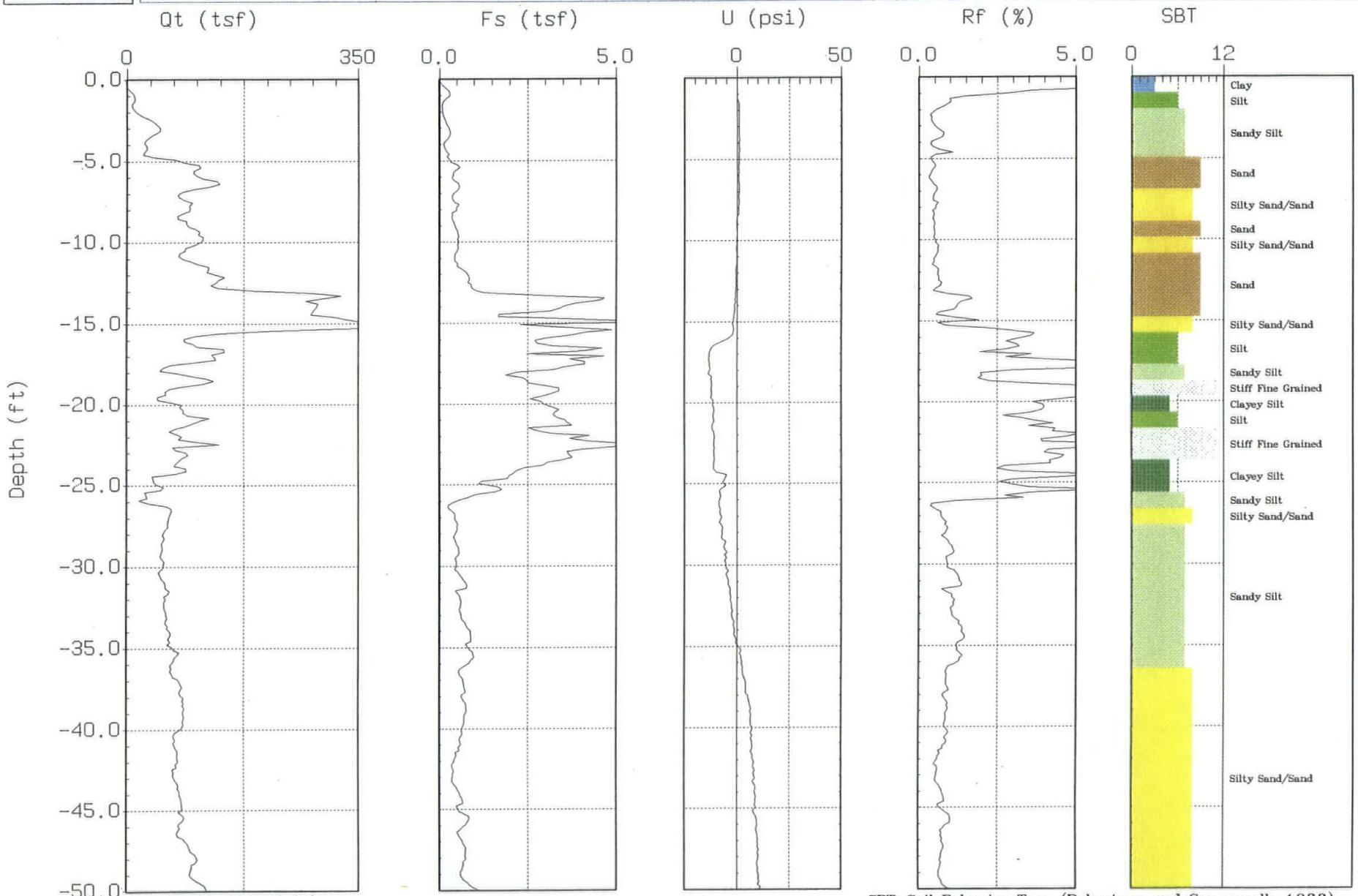
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-1

Geologist : JOSE CERCONE
Date : 11:02:97 08:38



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

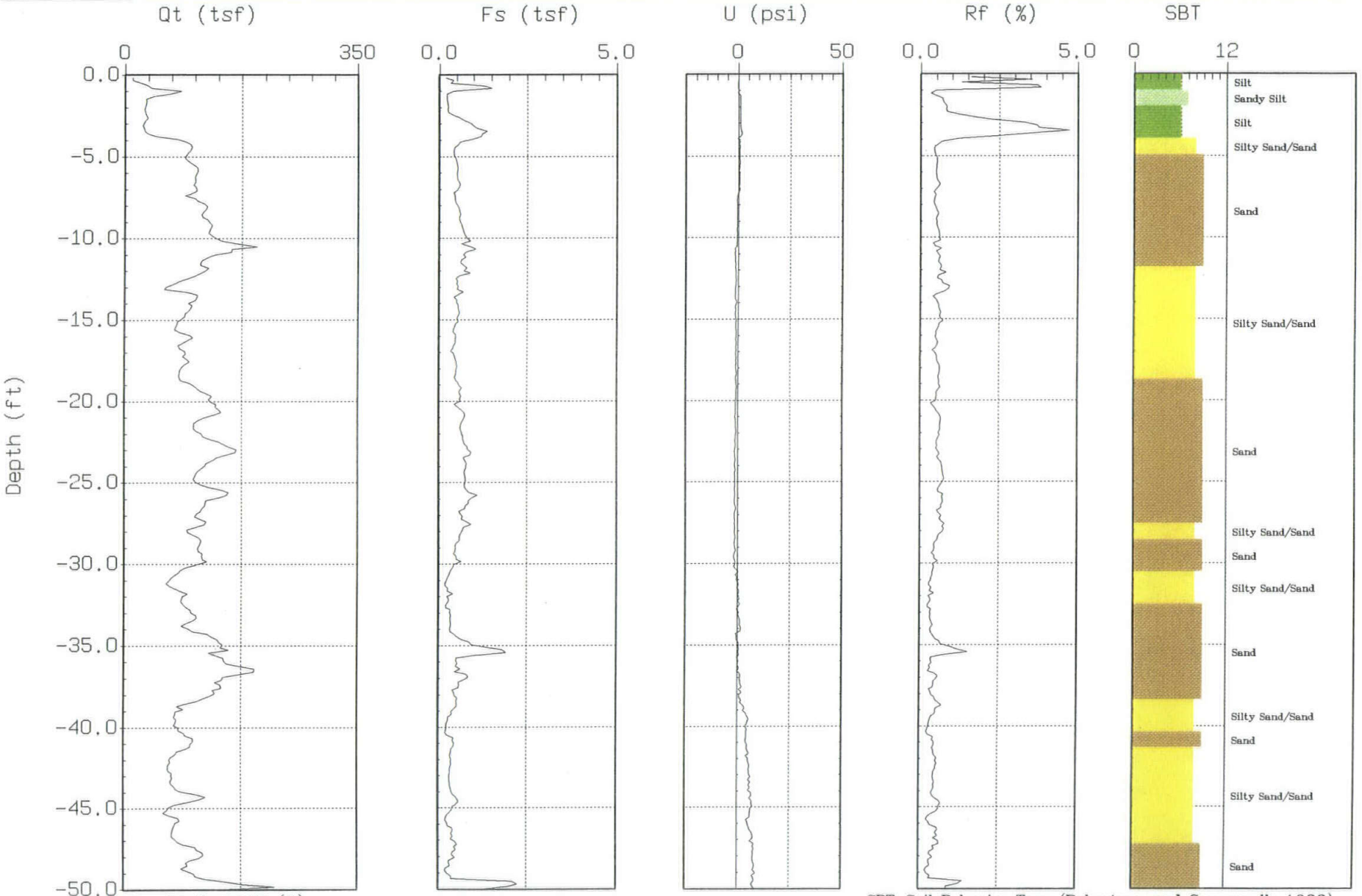
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-14

Geologist : JOSE SERCONE
Date : 11:06:97 09:36



Max. Depth: 66.76 (ft)

Depth Inc.: 0.164 (ft)

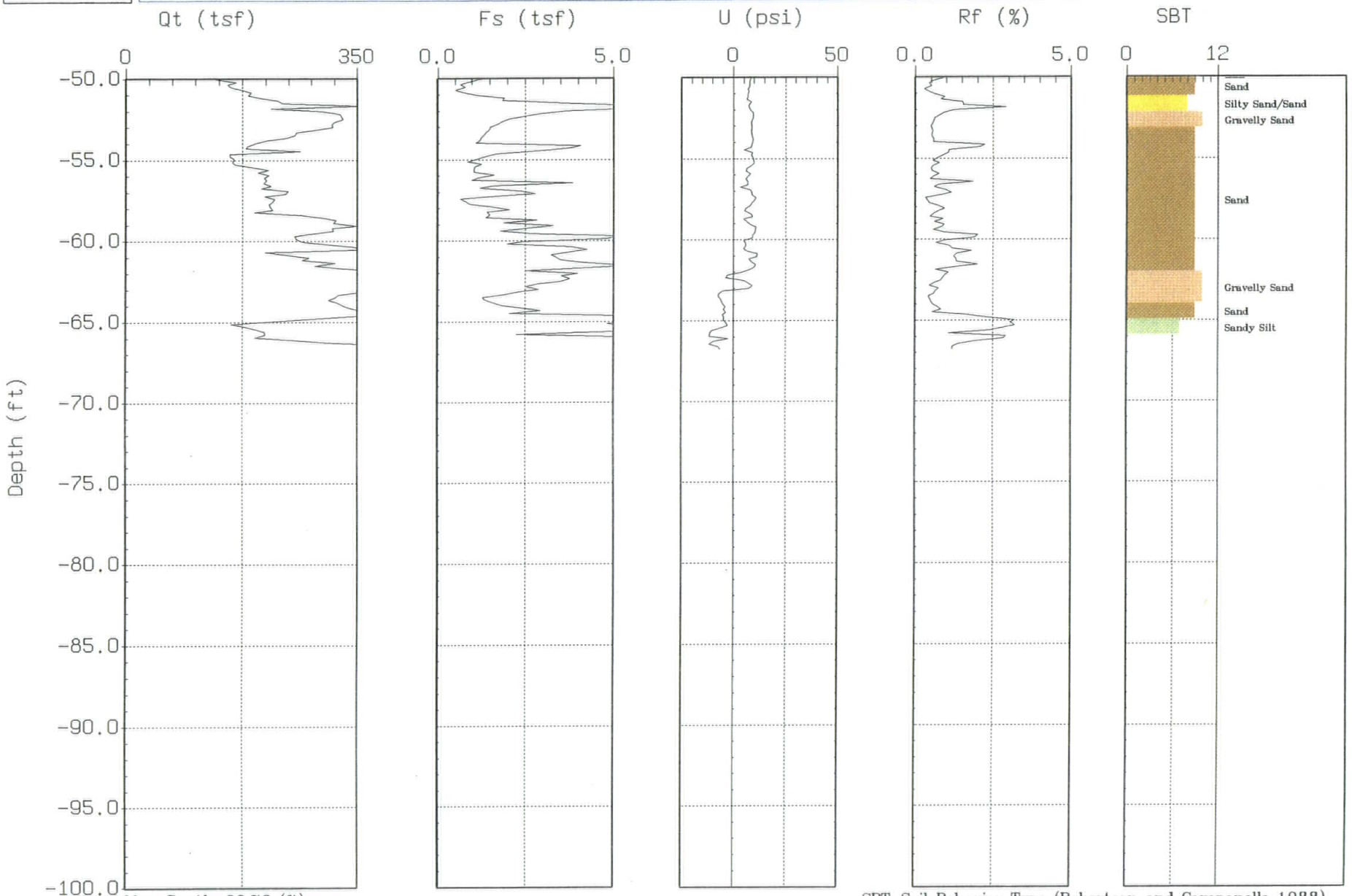
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-14

Geologist : JOSE SERCONE
Date : 11:06:97 09:36



Max. Depth: 66.76 (ft)

Depth Inc.: 0.164 (ft)

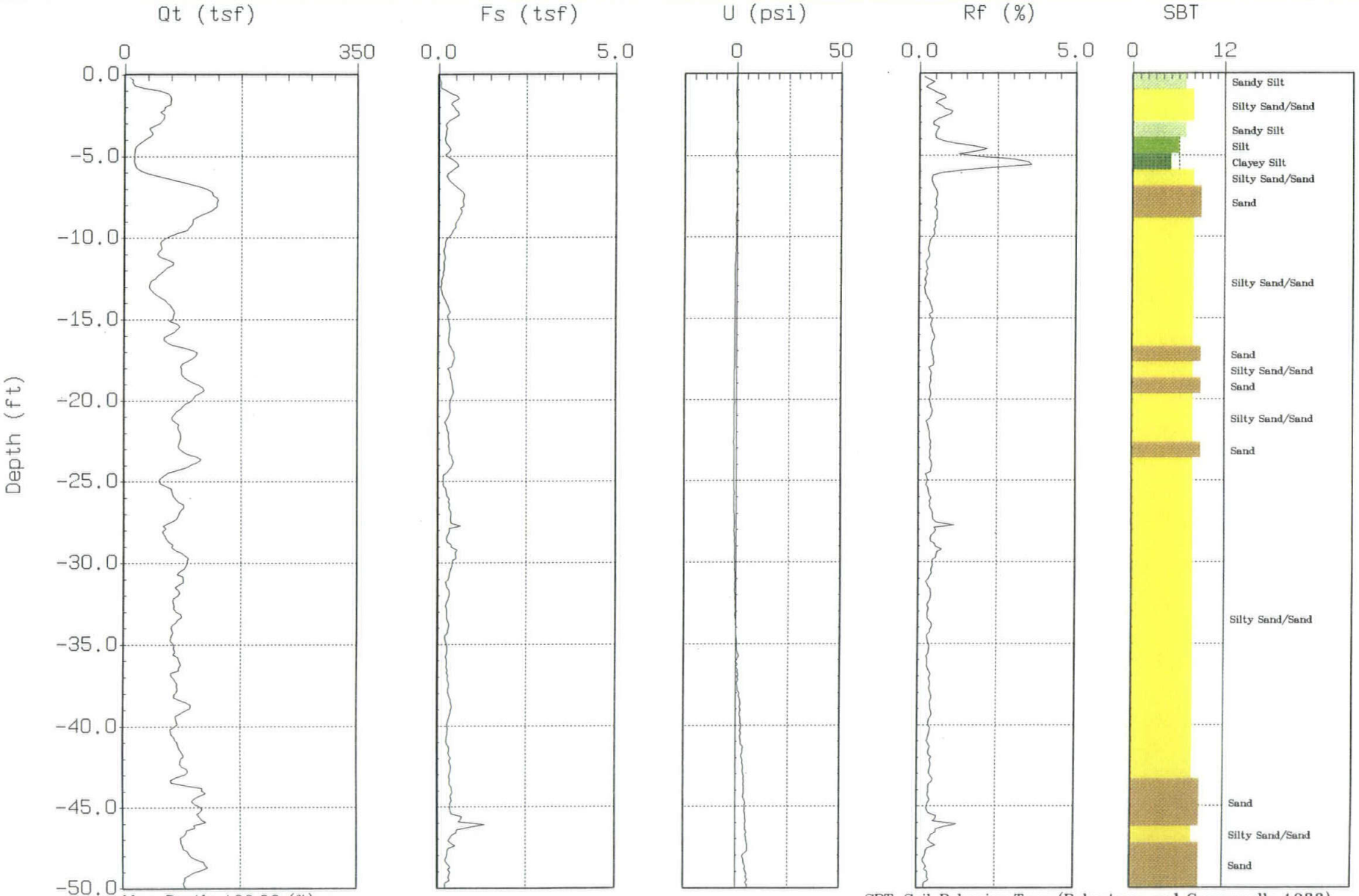
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-15

Geologist : JOSE CERCONE
Date : 11:06:97 10:51



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

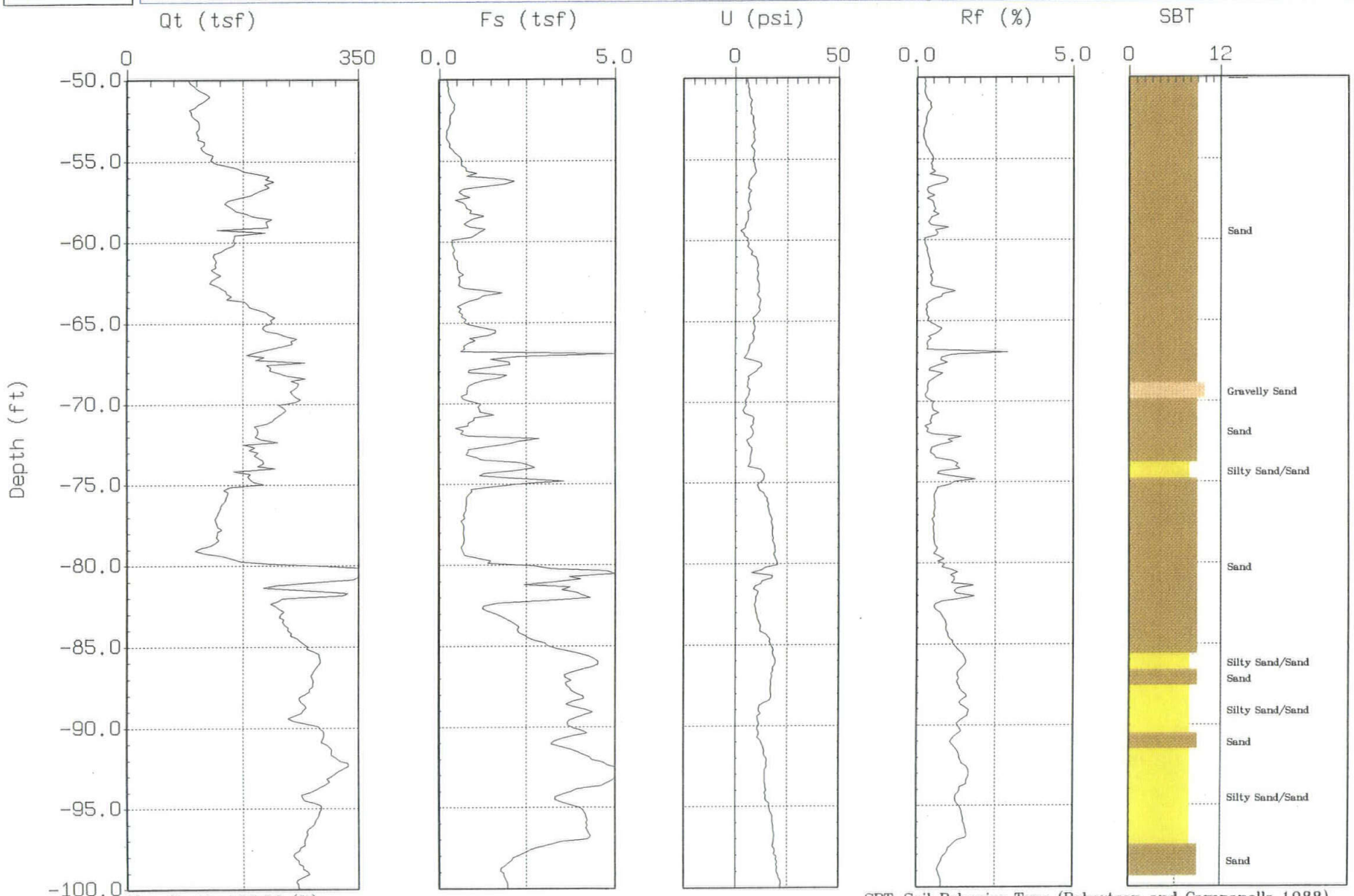
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-15

Geologist : JOSE CERCONE
Date : 11:06:97 10:51



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

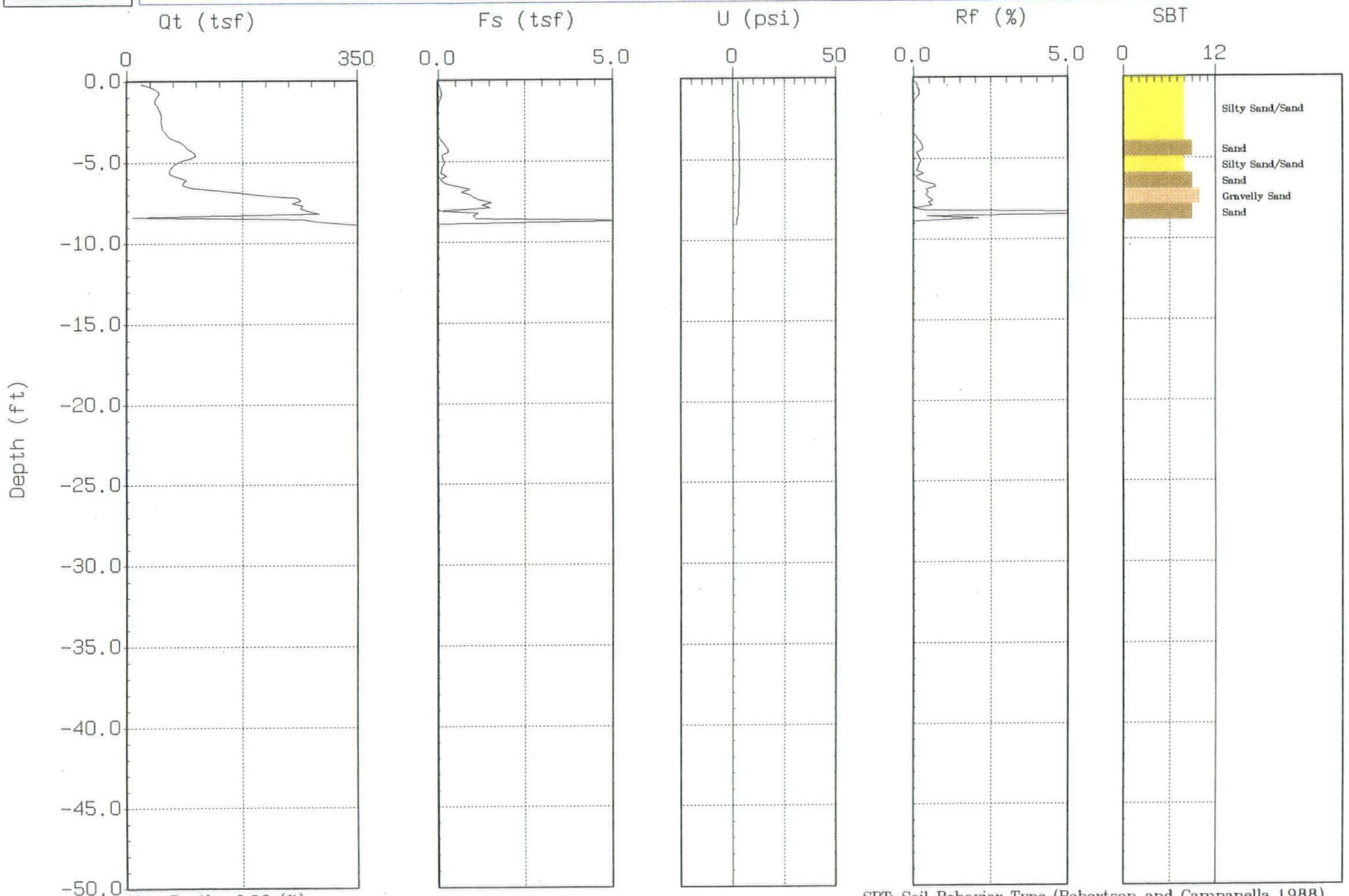
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-16

Geologist : JOSE CERCONE
Date : 11:12:97 13:20



Max. Depth: 9.02 (ft)

Depth Inc.: 0.164 (ft)

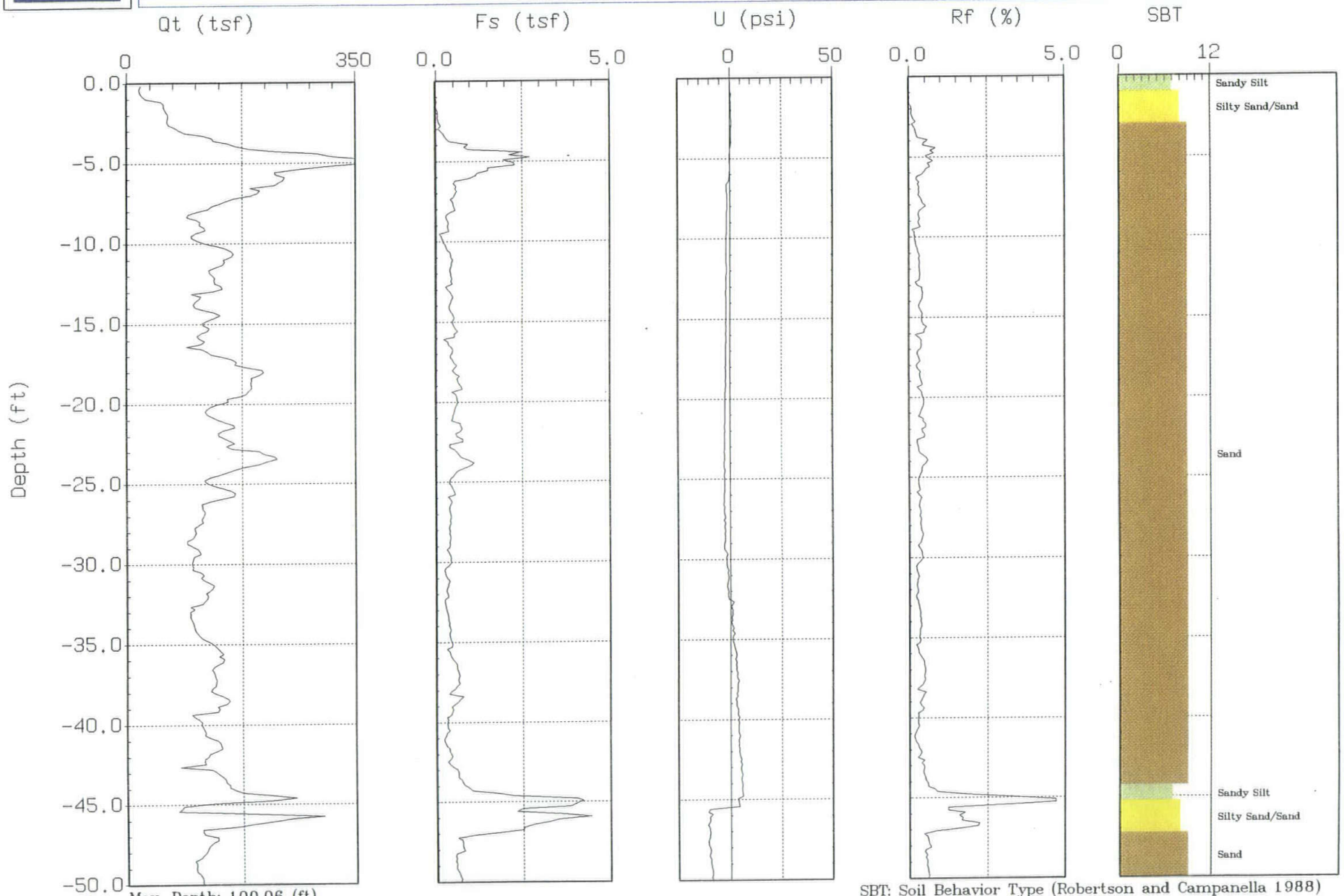
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-16A

Geologist : JOSE CERCONE
Date : 11:12:97 13:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

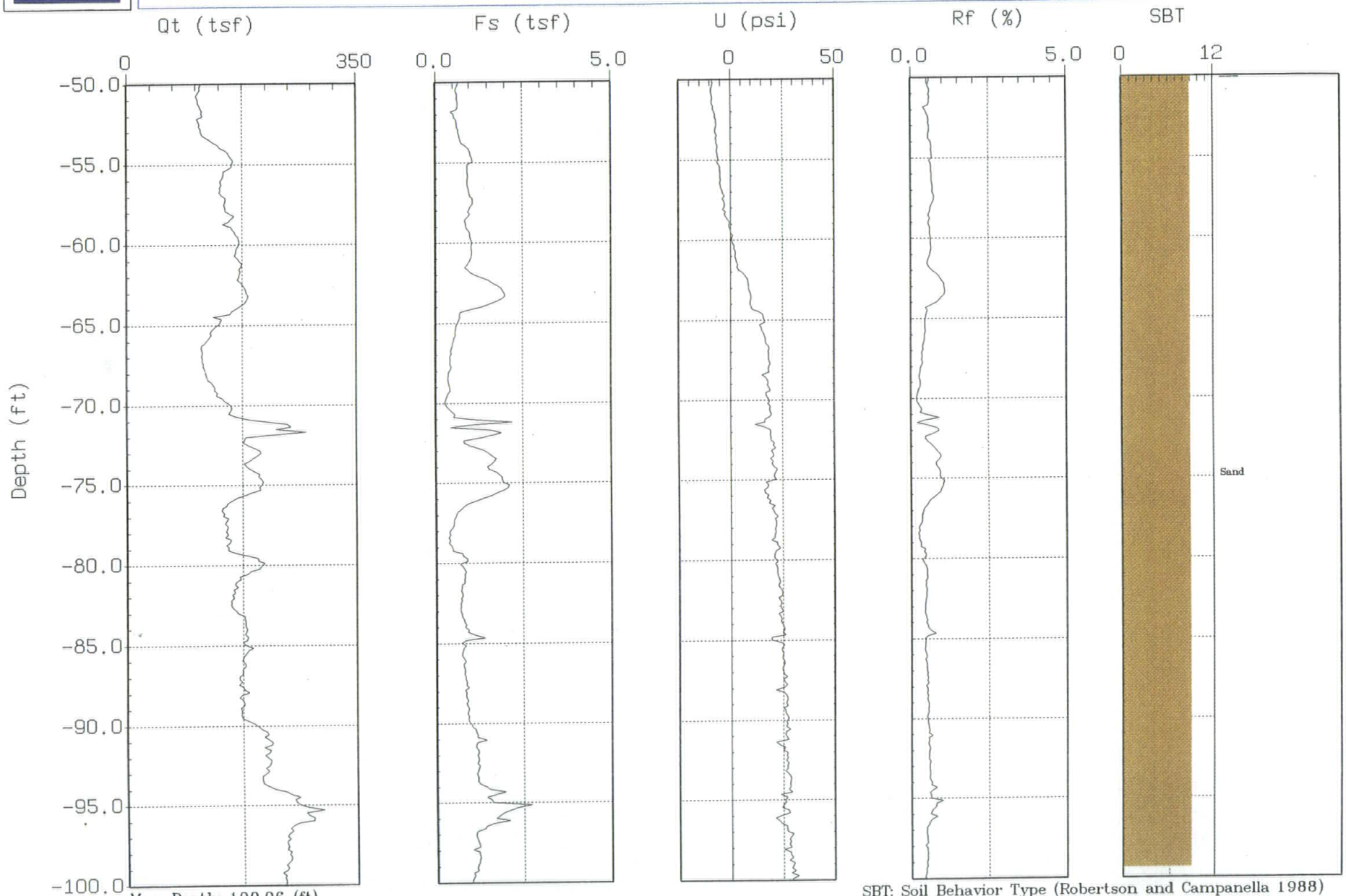
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-16A

Geologist : JOSE CERCONE
Date : 11:12:97 13:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

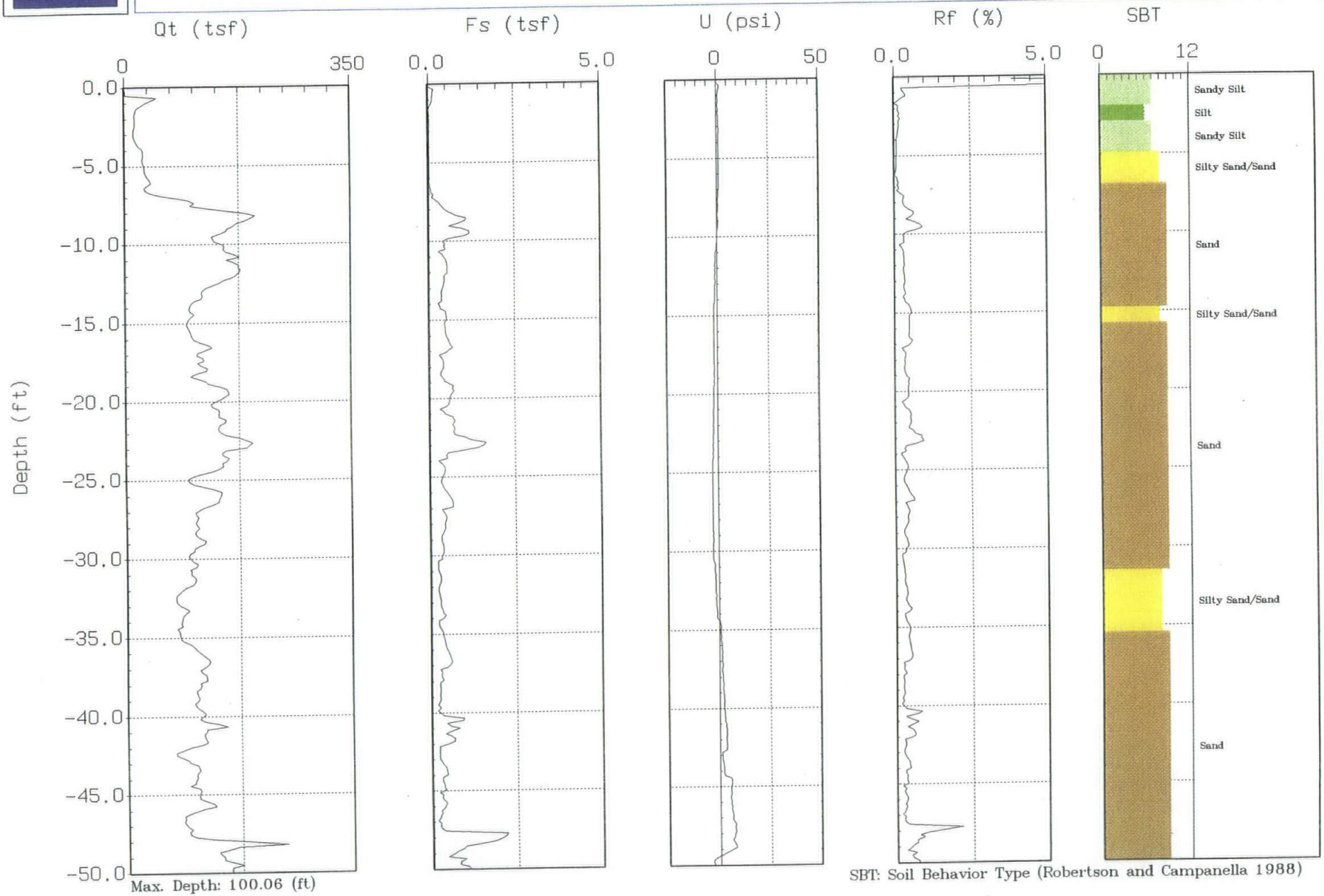
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-17

Geologist : JOSE CERCONE
Date : 11:12:97 11:12



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

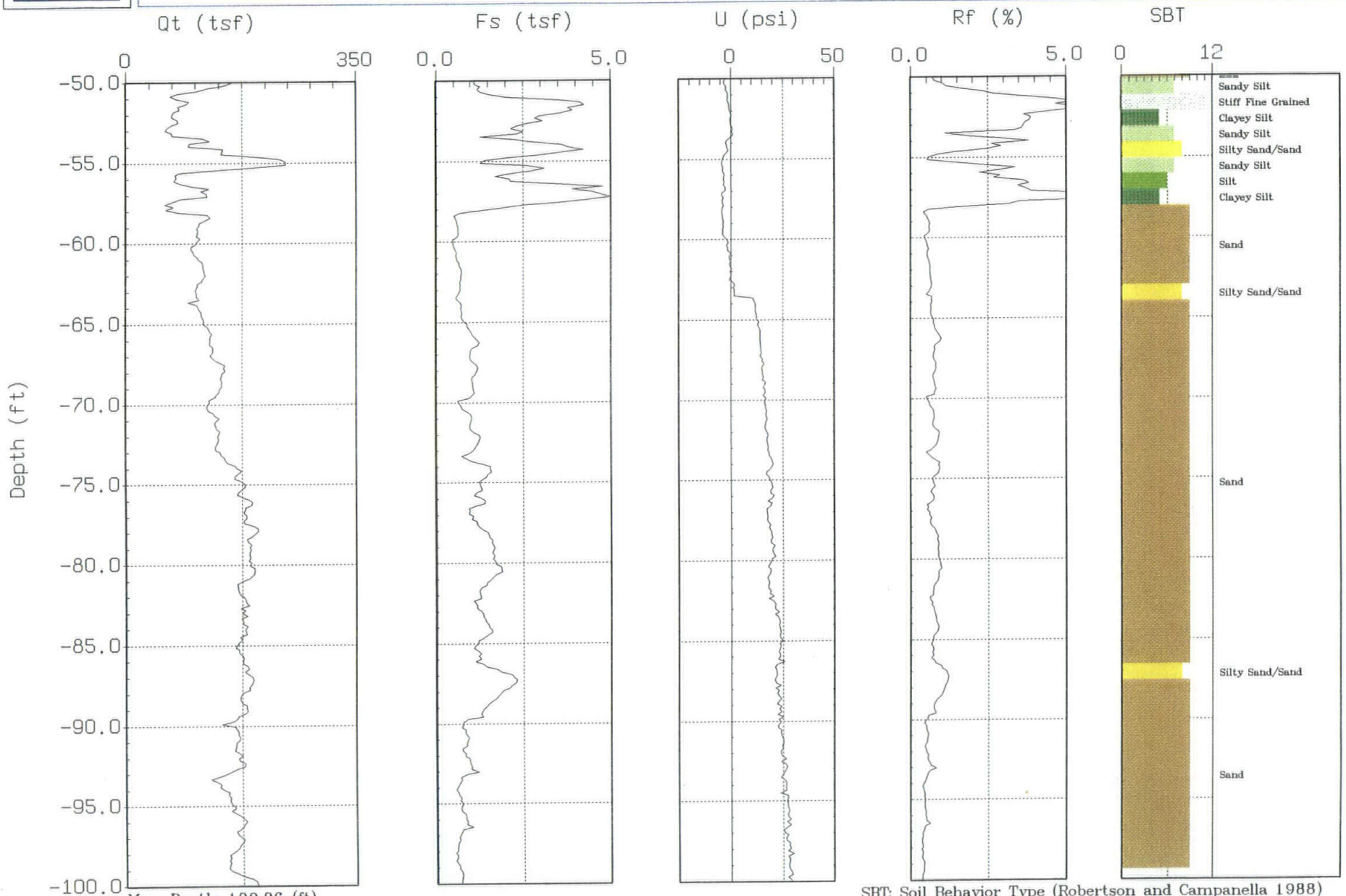
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-17

Geologist : JOSE CERCONE
Date : 11:12:97 11:12



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

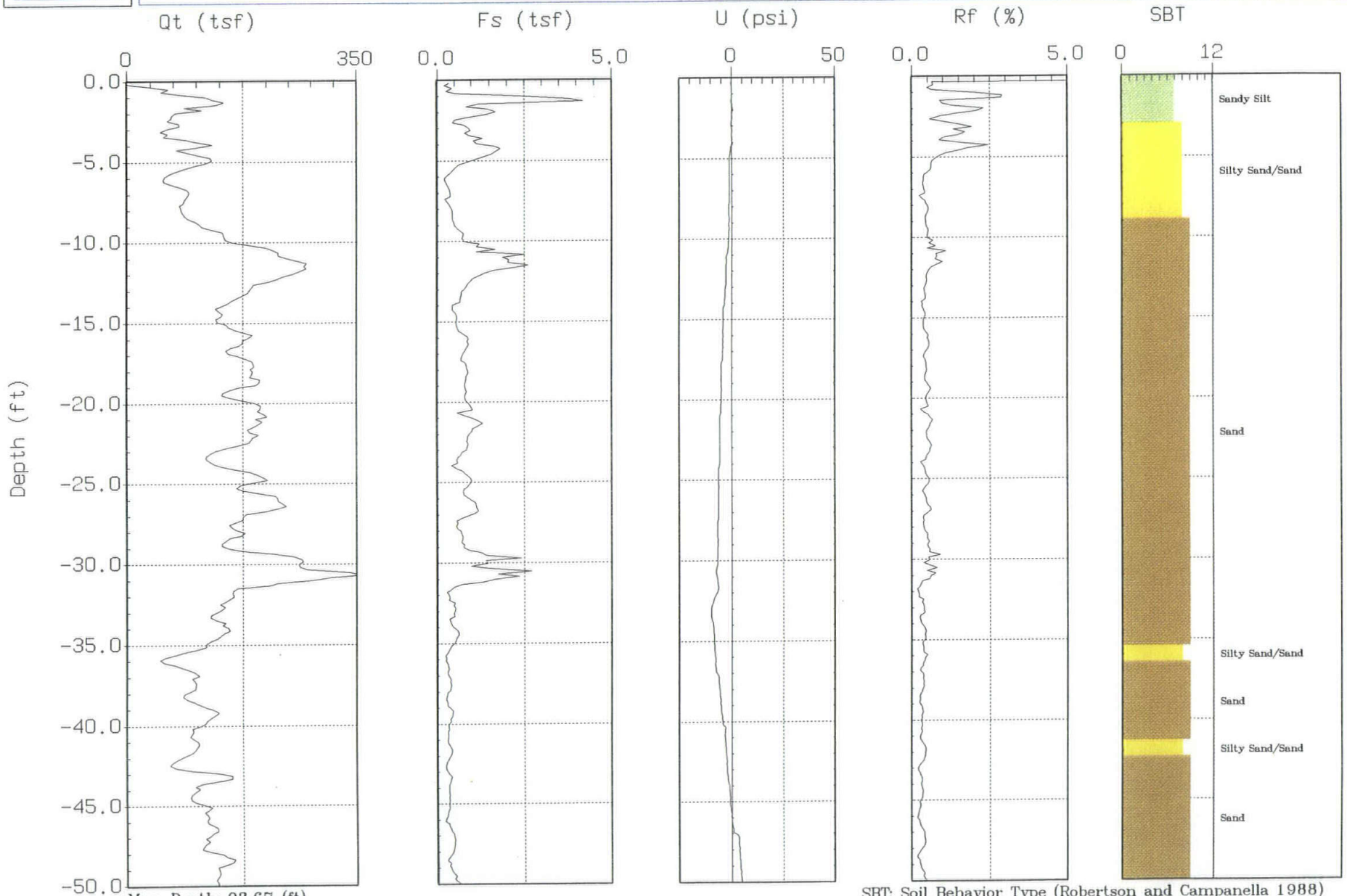
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-18

Geologist : JOSE CERCONE
Date : 11:12:97 10:04



Max. Depth: 93.67 (ft)

Depth Inc.: 0.164 (ft)

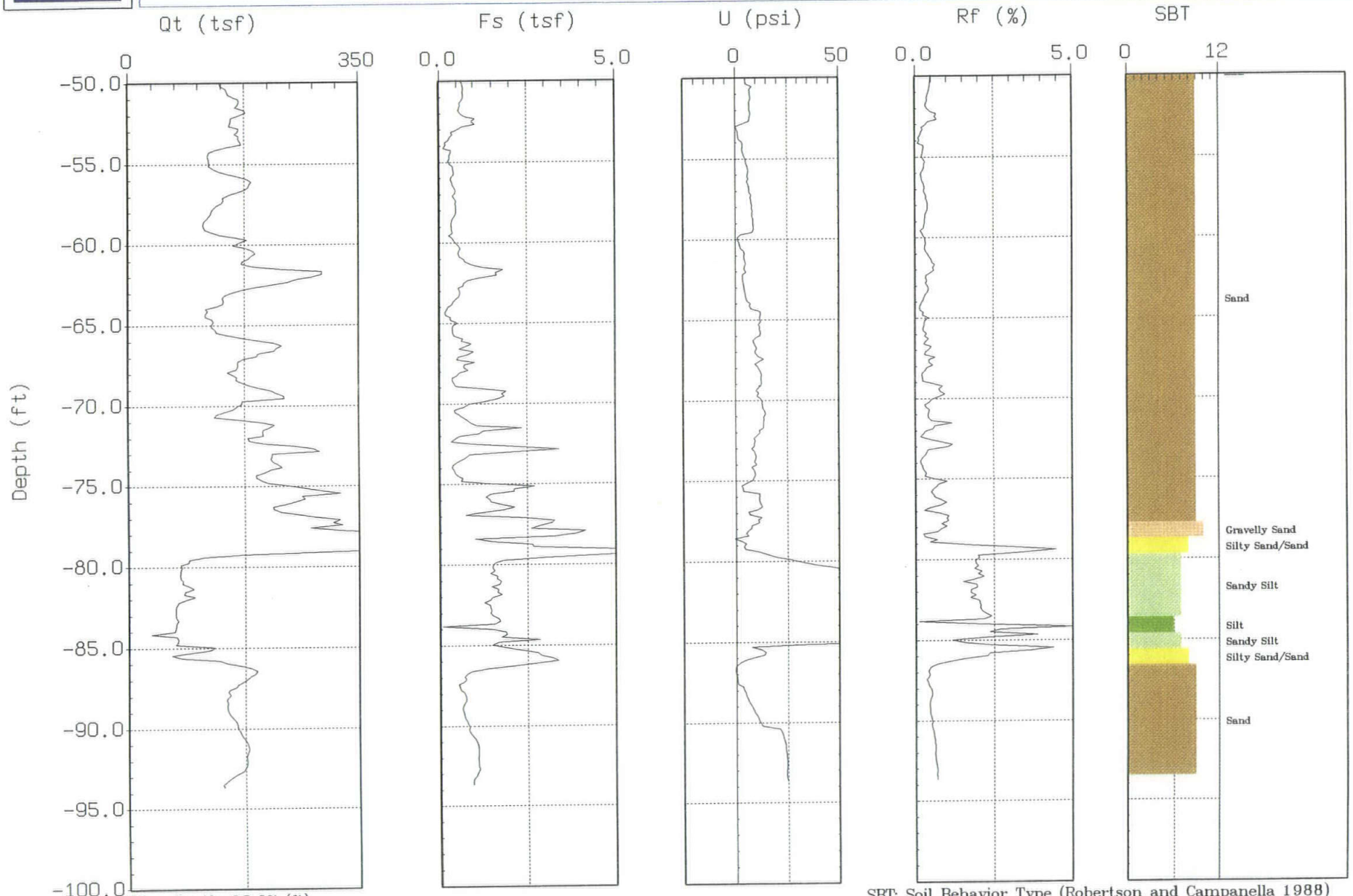
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-18

Geologist : JOSE CERCONE
Date : 11:12:97 10:04



Max. Depth: 93.67 (ft)

Depth Inc.: 0.164 (ft)

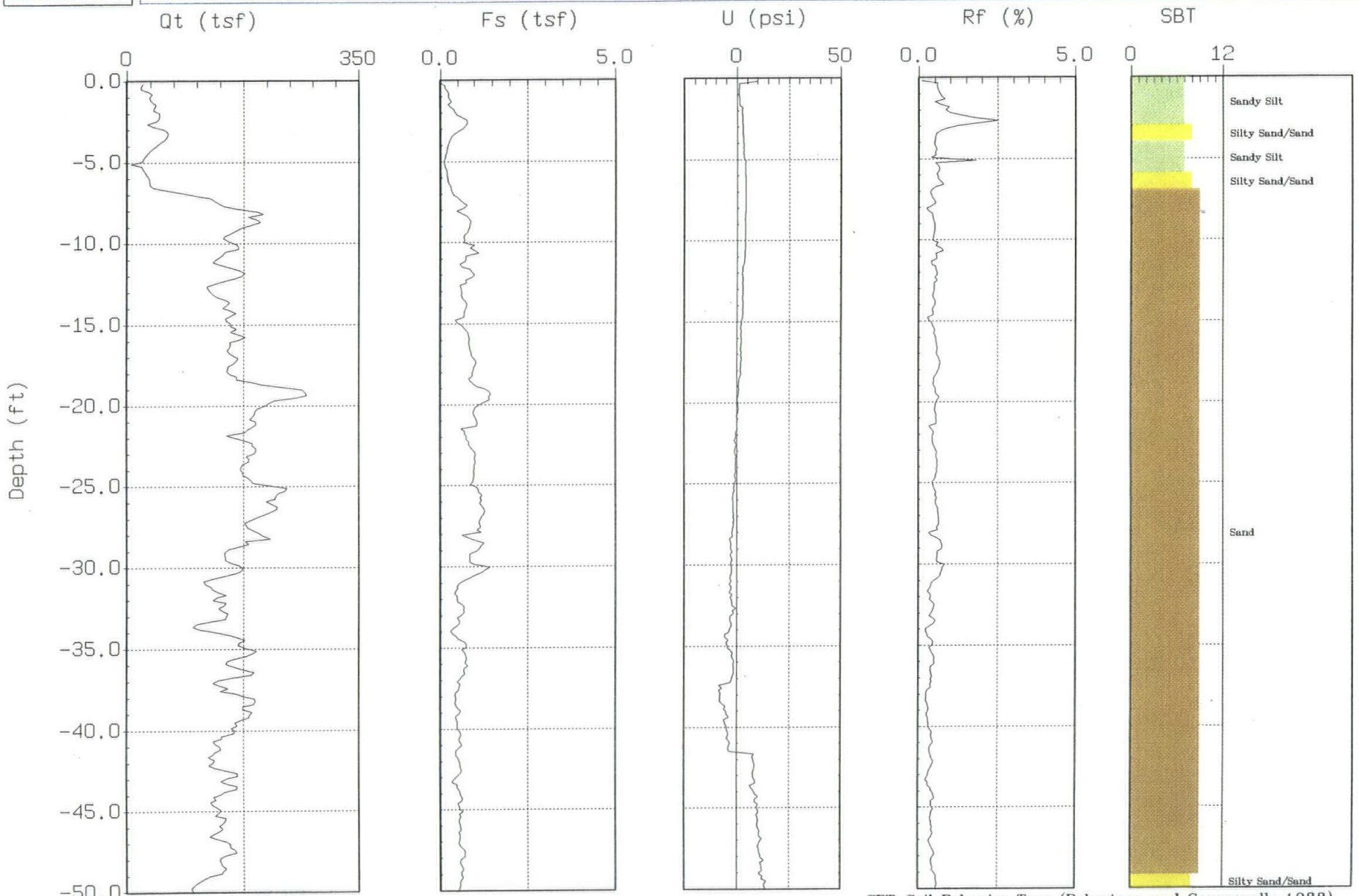
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-19

Geologist : JOSE CERCONE
Date : 11:12:97 08:50



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

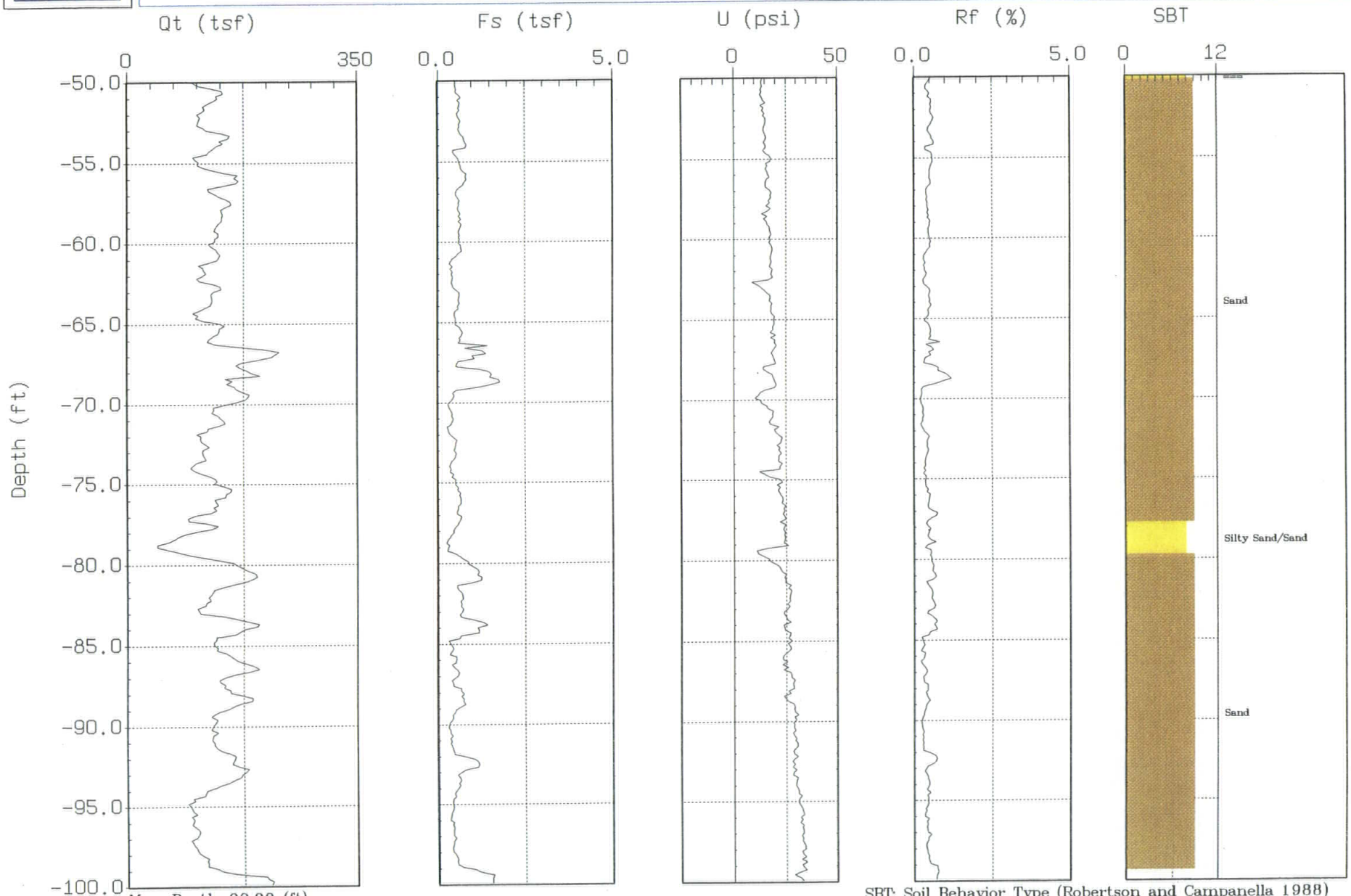
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-19

Geologist : JOSE CERCONE
Date : 11:12:97 08:50



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

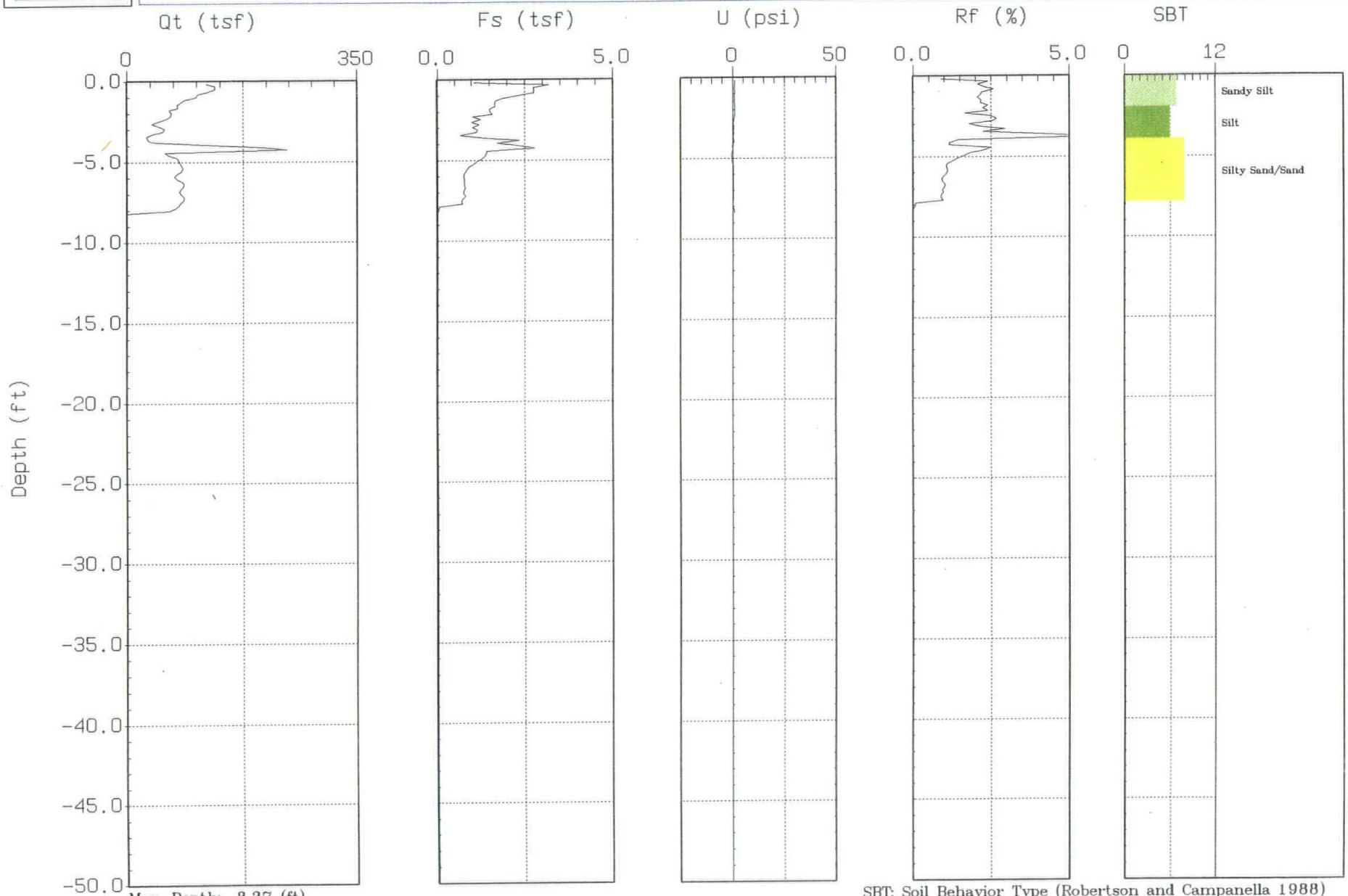
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-20

Geologist : JOSE CERCONE
Date : 11:06:97 13:04



Max. Depth: 8.37 (ft)

Depth Inc.: 0.164 (ft)

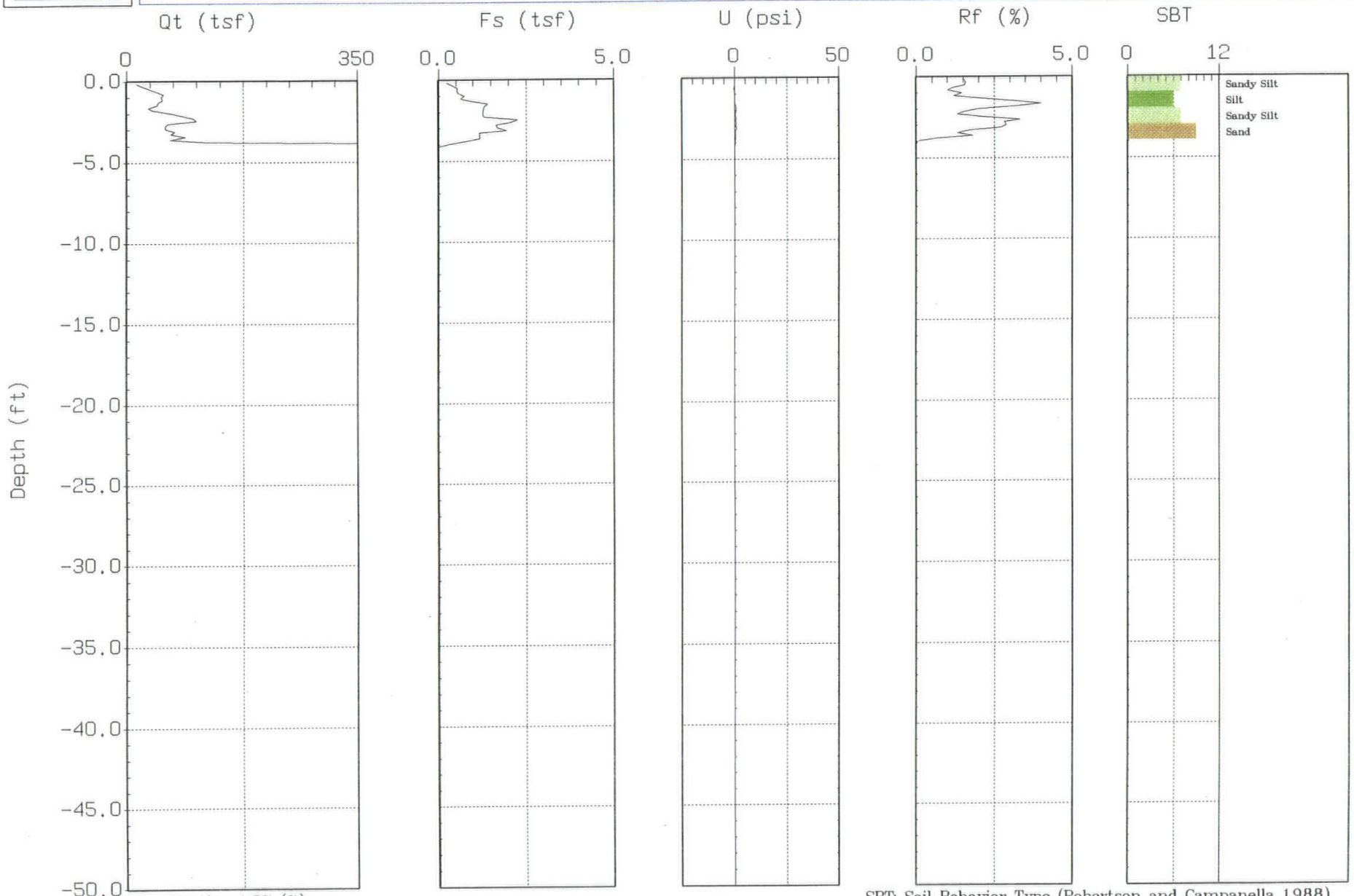
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-20A

Geologist : JOSE CERCONE
Date : 11:06:97 13:48



Max. Depth: 4.27 (ft)

Depth Inc.: 0.164 (ft)

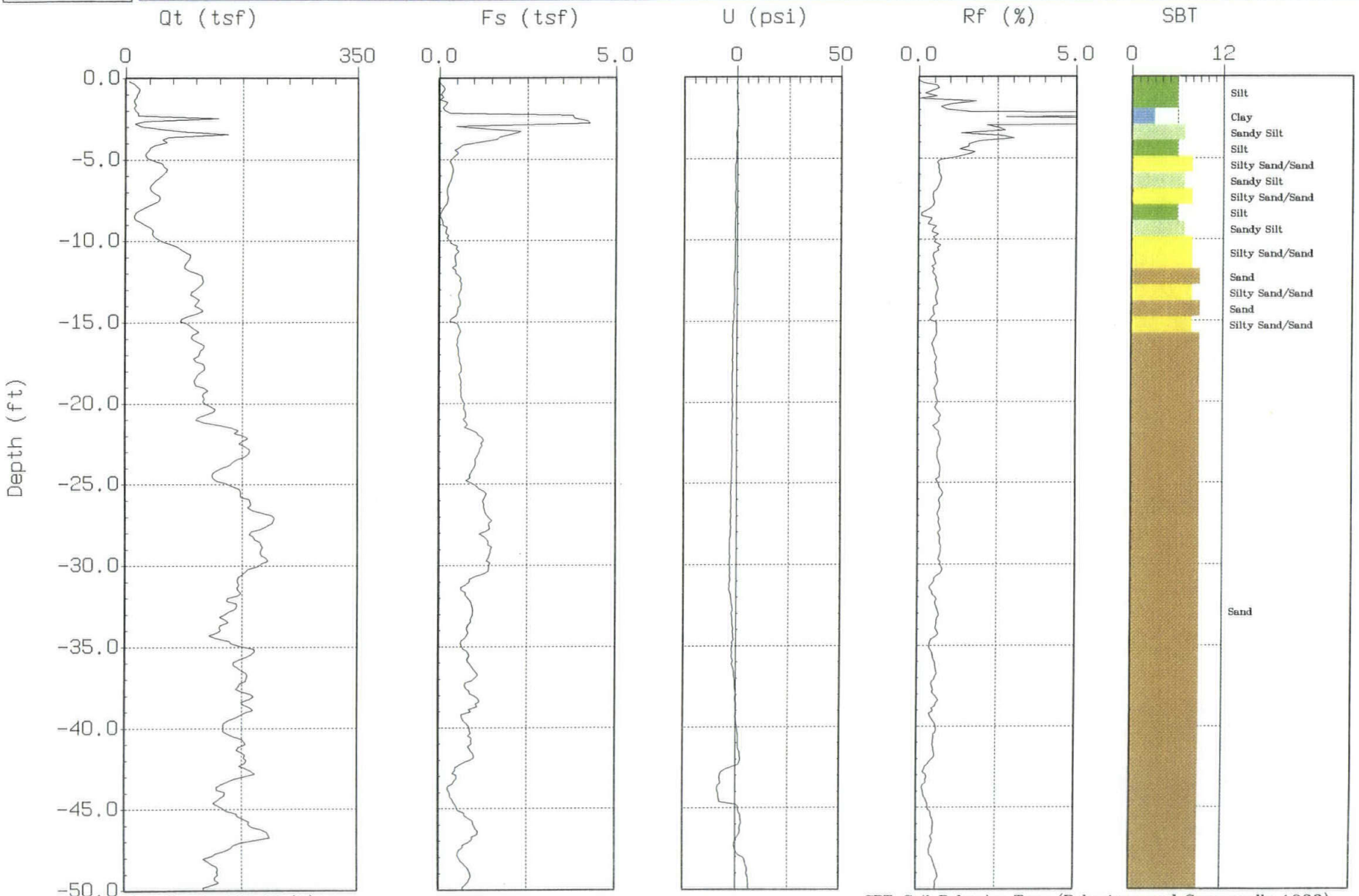
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-20B

Geologist : JOSE CERCONE
Date : 11:06:97 13:58



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

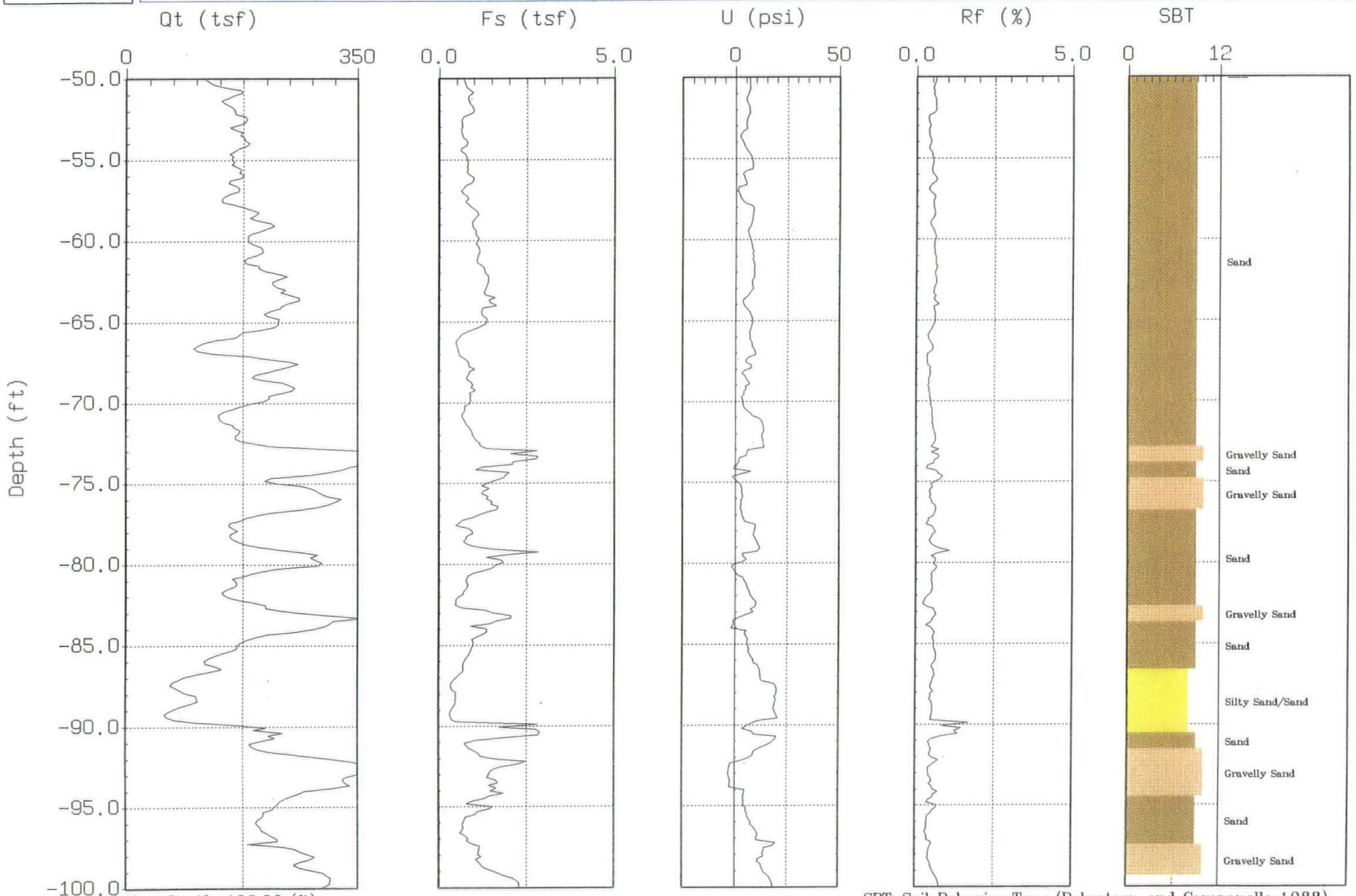
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-20B

Geologist : JOSE CERCONE
Date : 11:06:97 13:58



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

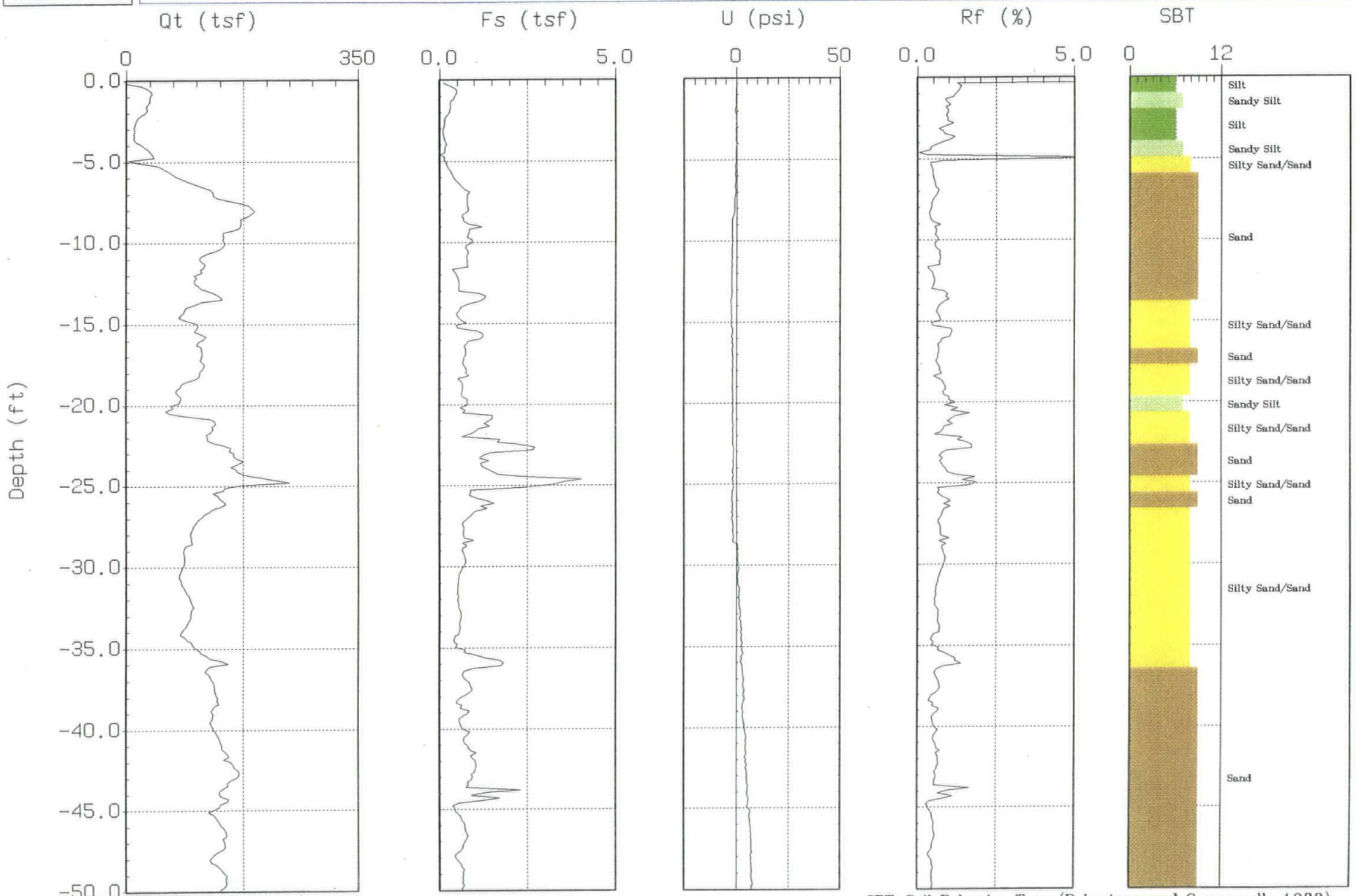
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-21

Geologist : JOSE CERCONE
Date : 10:31:97 08:12



Max. Depth: 66.60 (ft)

Depth Inc.: 0.164 (ft)

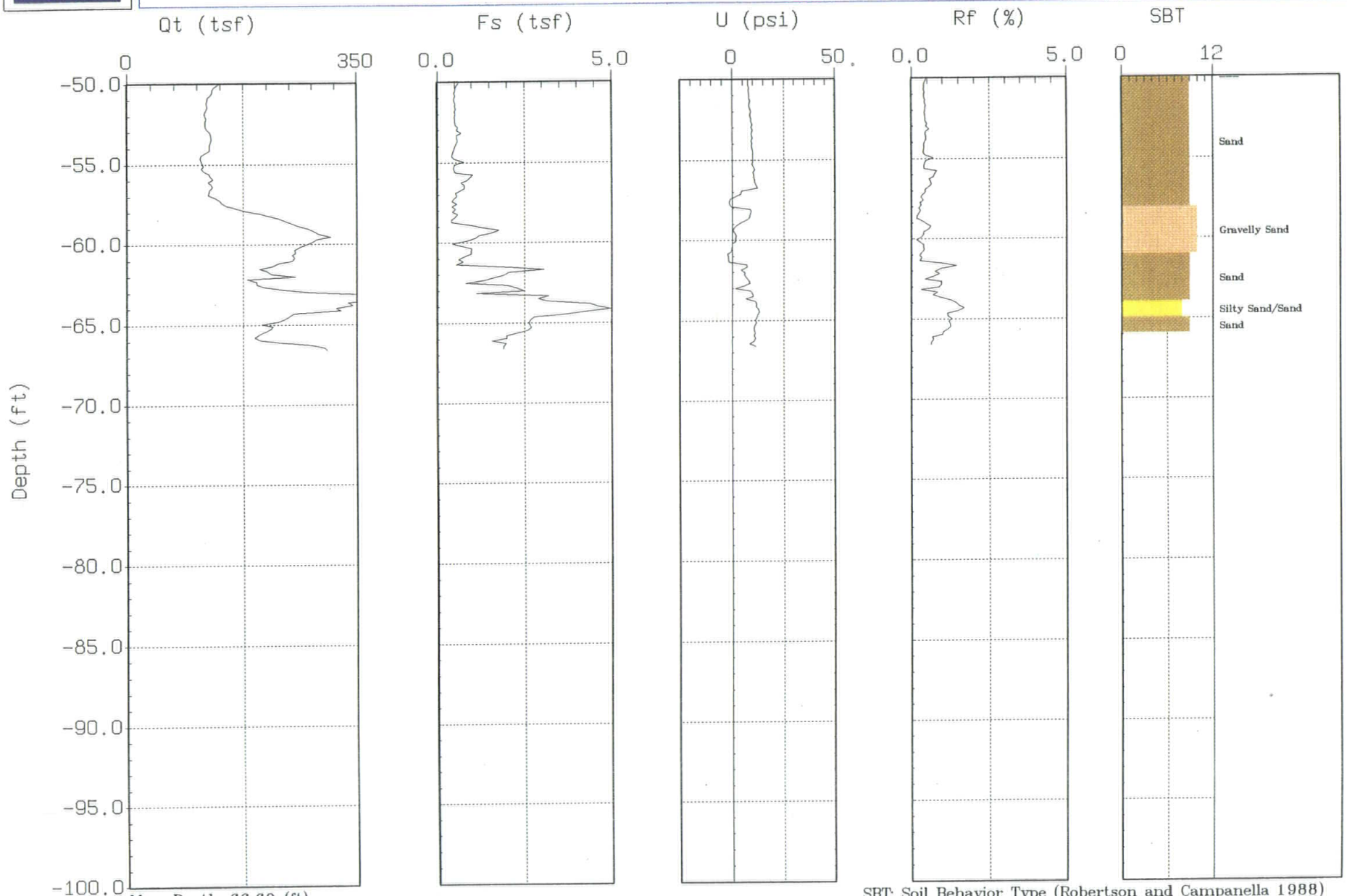
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-21

Geologist : JOSE CERCONE
Date : 10:31:97 08:12



Max. Depth: 66.60 (ft)

Depth Inc.: 0.164 (ft)

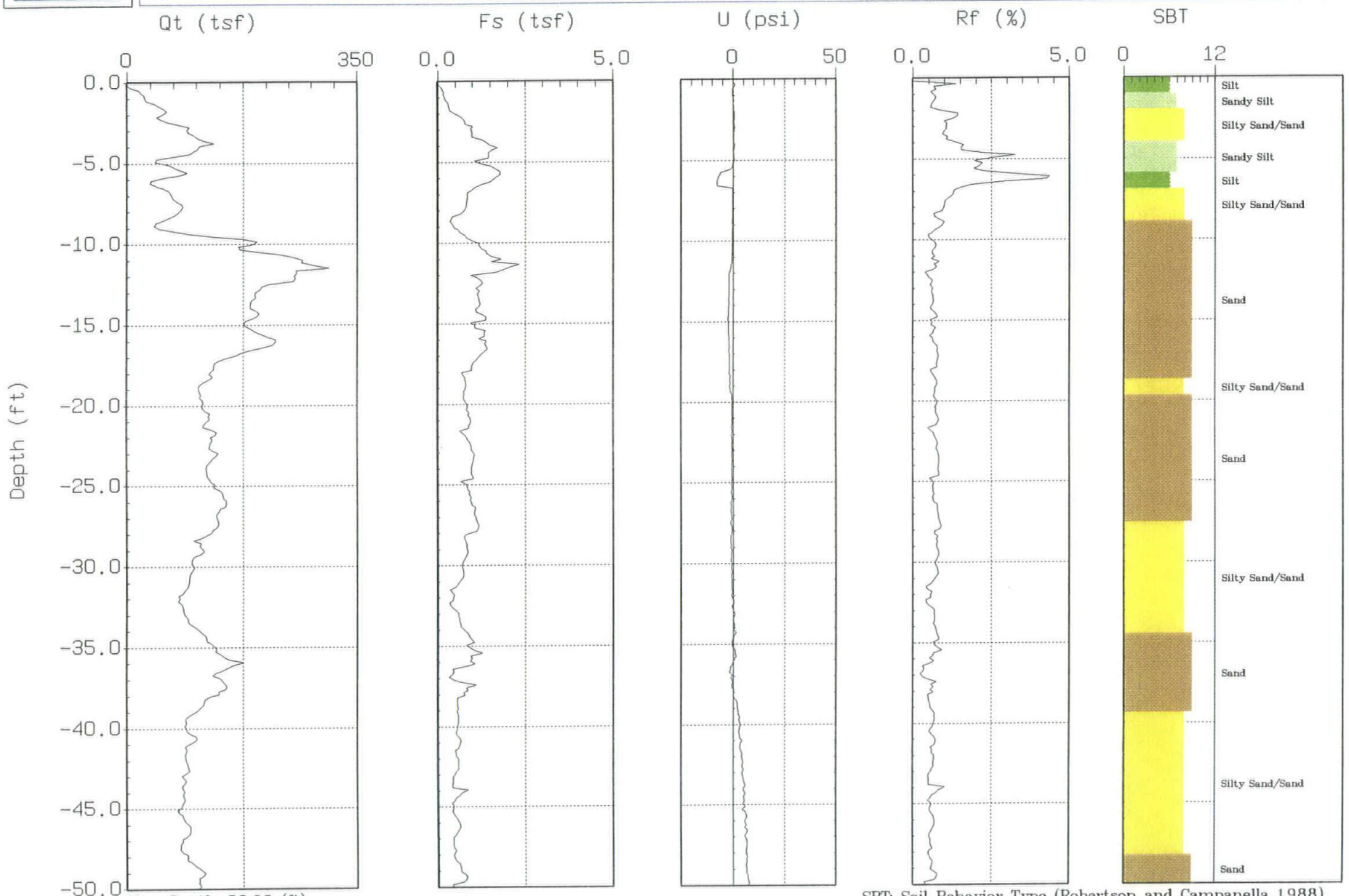
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-22

Geologist : JOSE CERCONE
Date : 10:31:97 09:26



Max. Depth: 83.00 (ft)

Depth Inc.: 0.164 (ft)

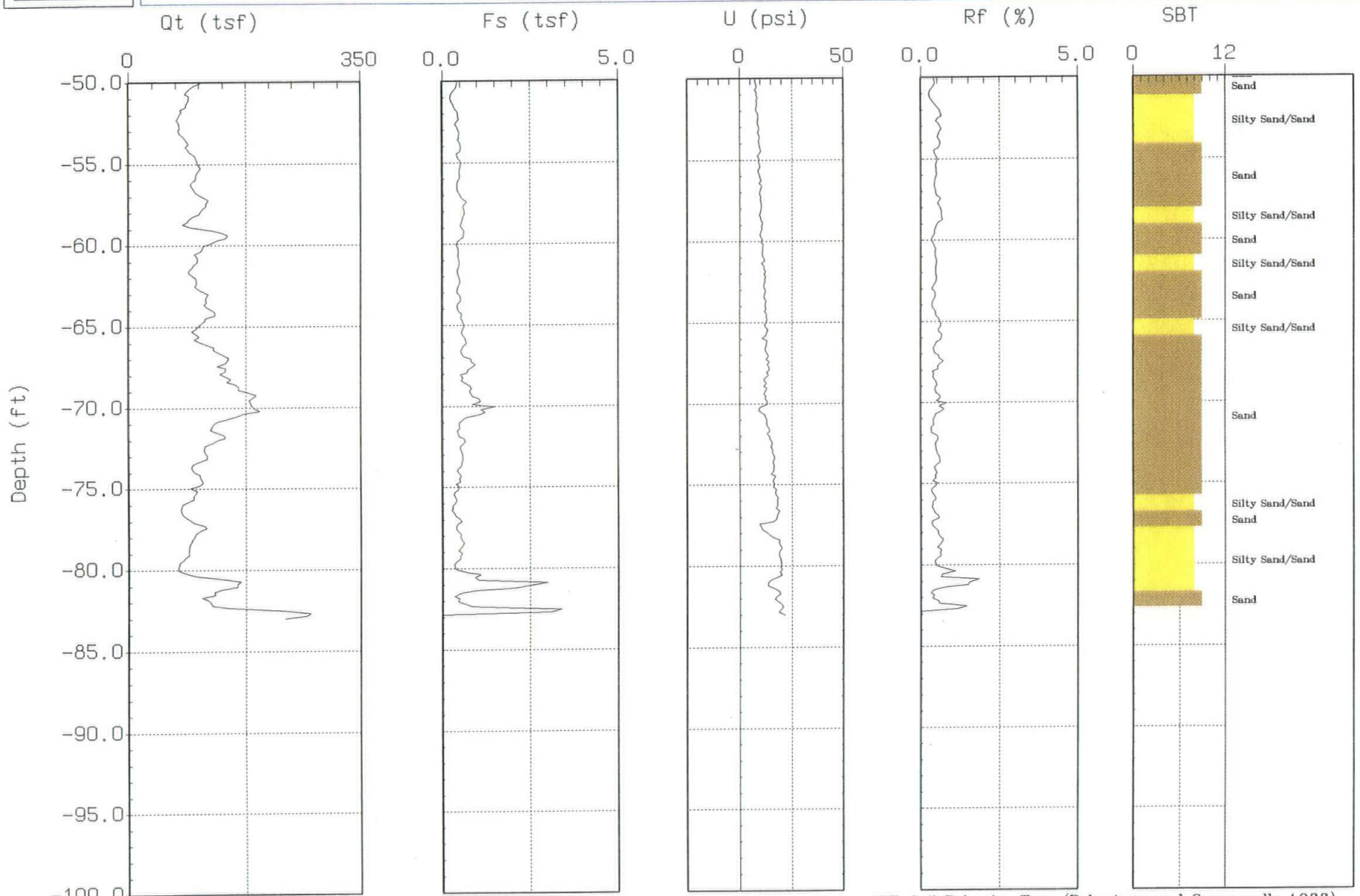
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-22

Geologist : JOSE CERCONE
Date : 10:31:97 09:26



Max. Depth: 83.00 (ft)

Depth Inc.: 0.164 (ft)

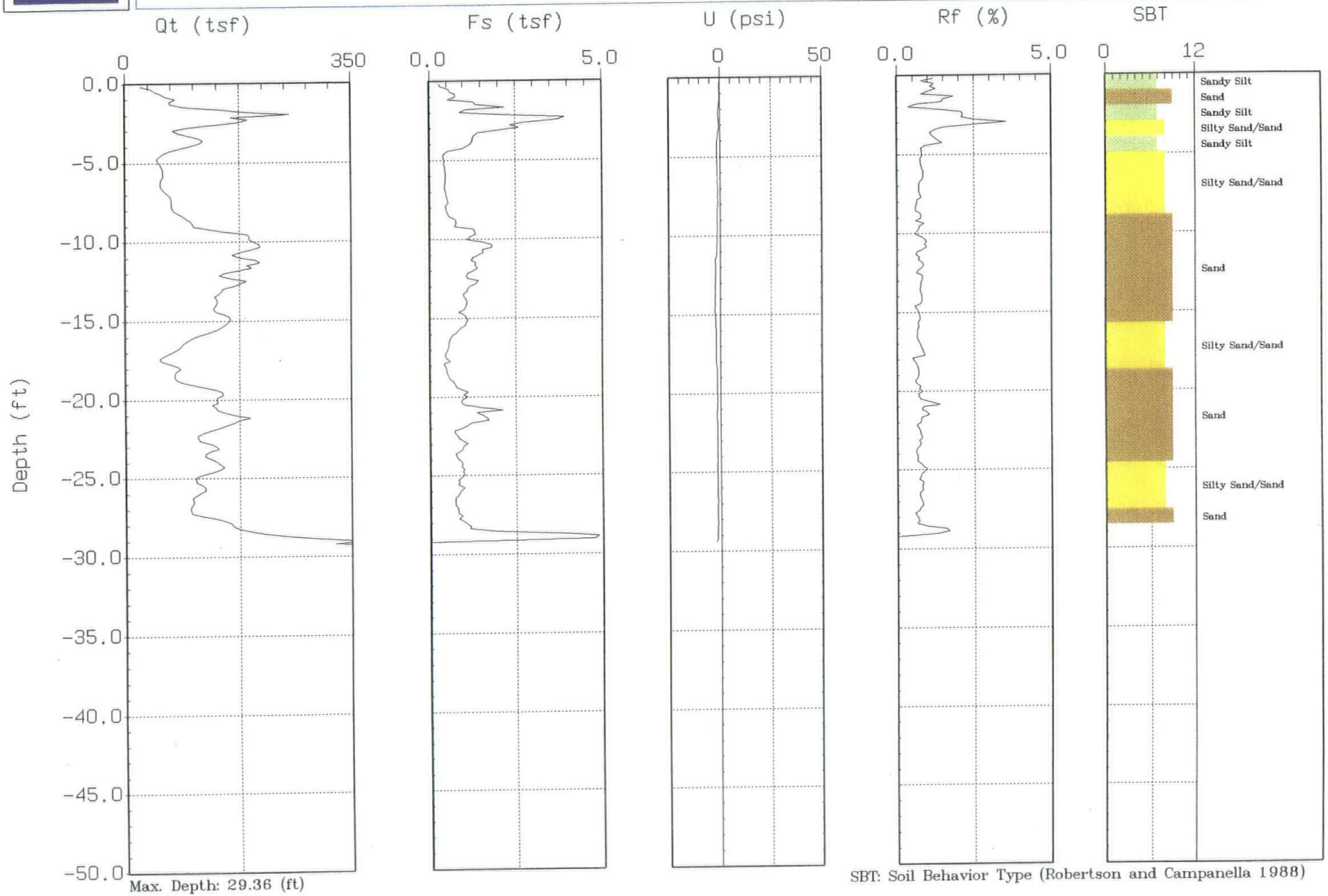
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-23

Geologist : JOSE CERCONE
Date : 10:31:97 10:37



Max. Depth: 29.36 (ft)

Depth Inc.: 0.164 (ft)

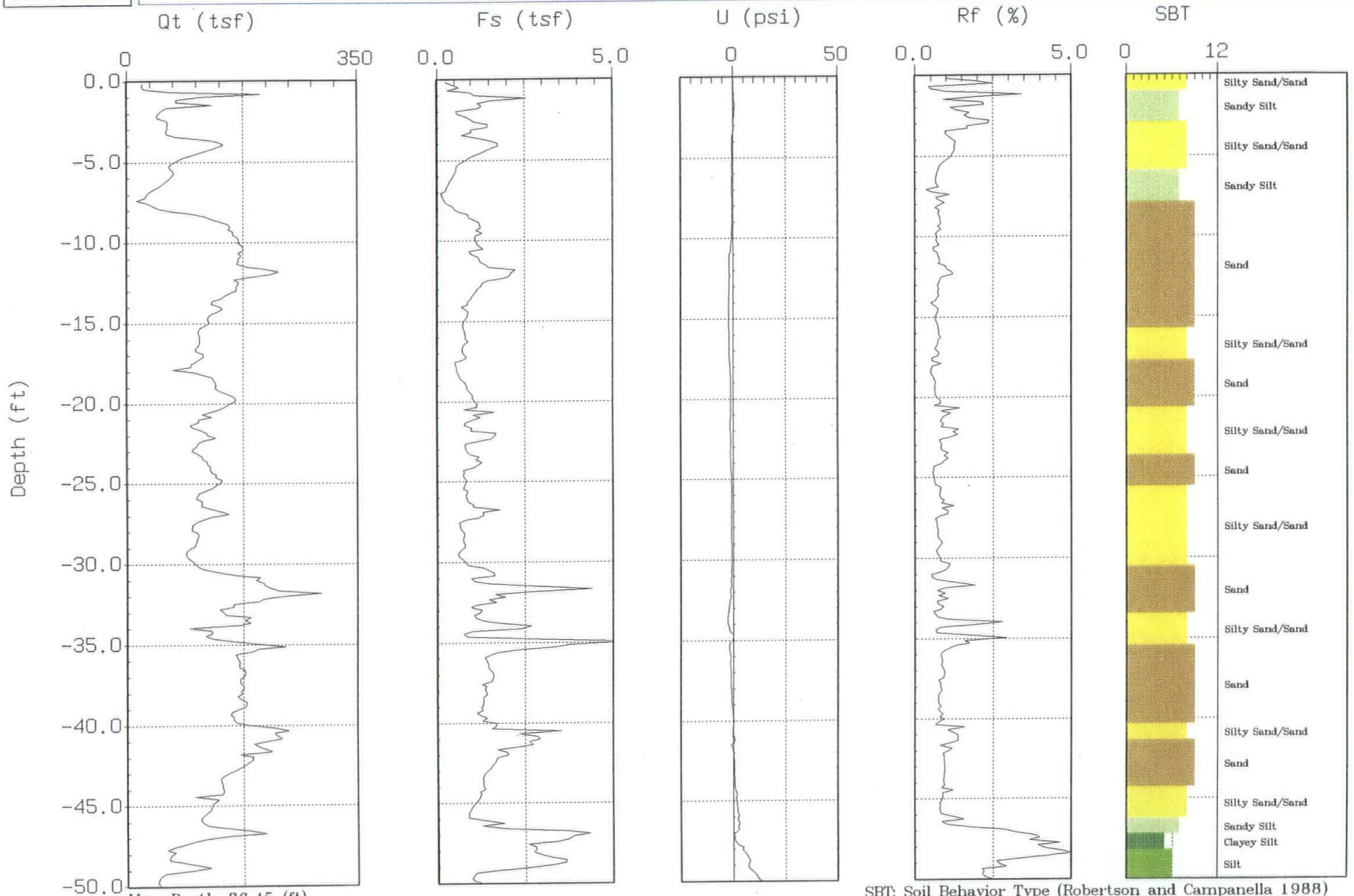
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-23A

Geologist : JOSE CERCONE
Date : 10:31:97 11:11



Max. Depth: 86.45 (ft)

Depth Inc.: 0.164 (ft)

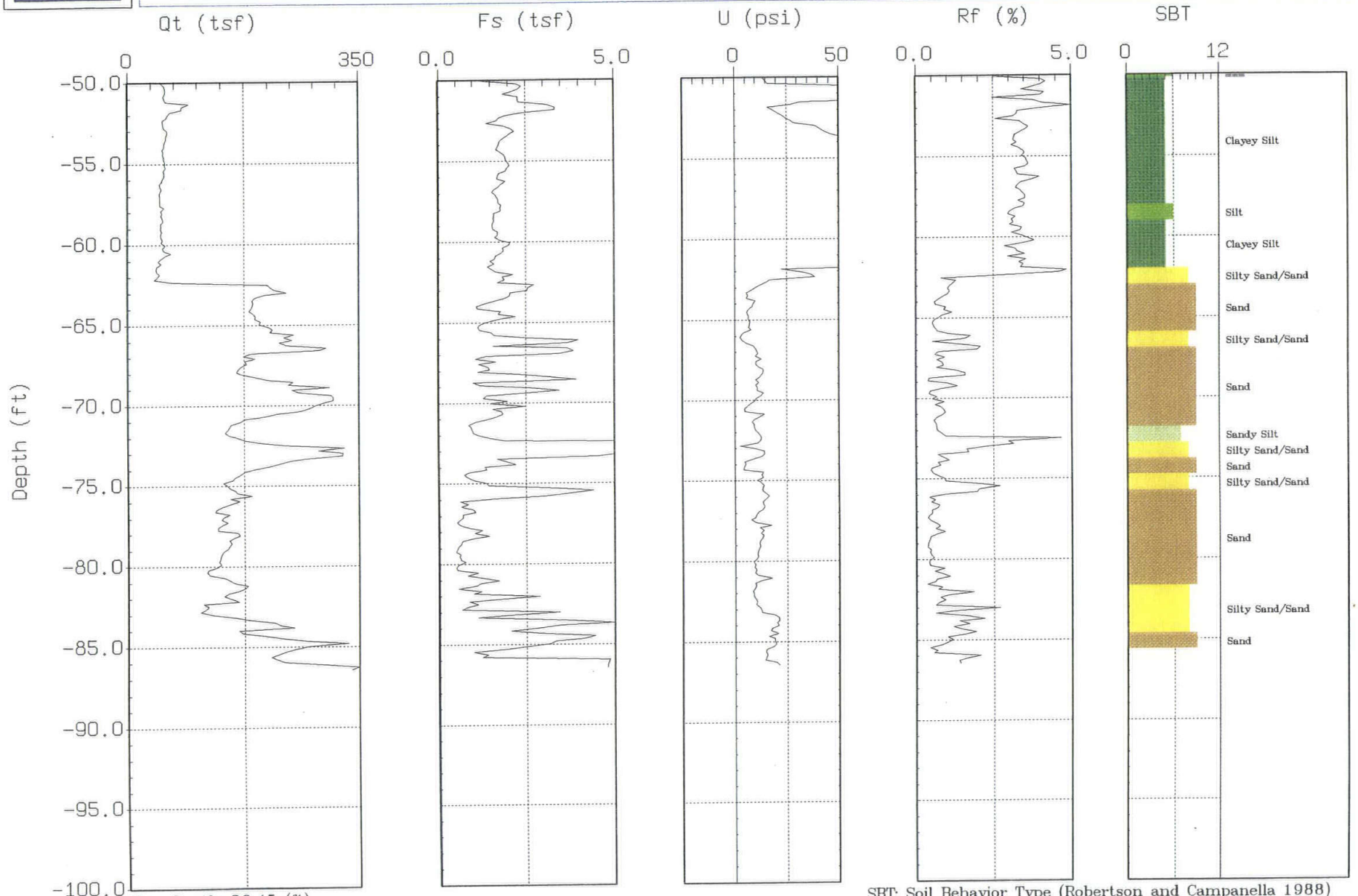
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-23A

Geologist : JOSE CERCONE
Date : 10:31:97 11:11



Max. Depth: 86.45 (ft)

Depth Inc.: 0.164 (ft)

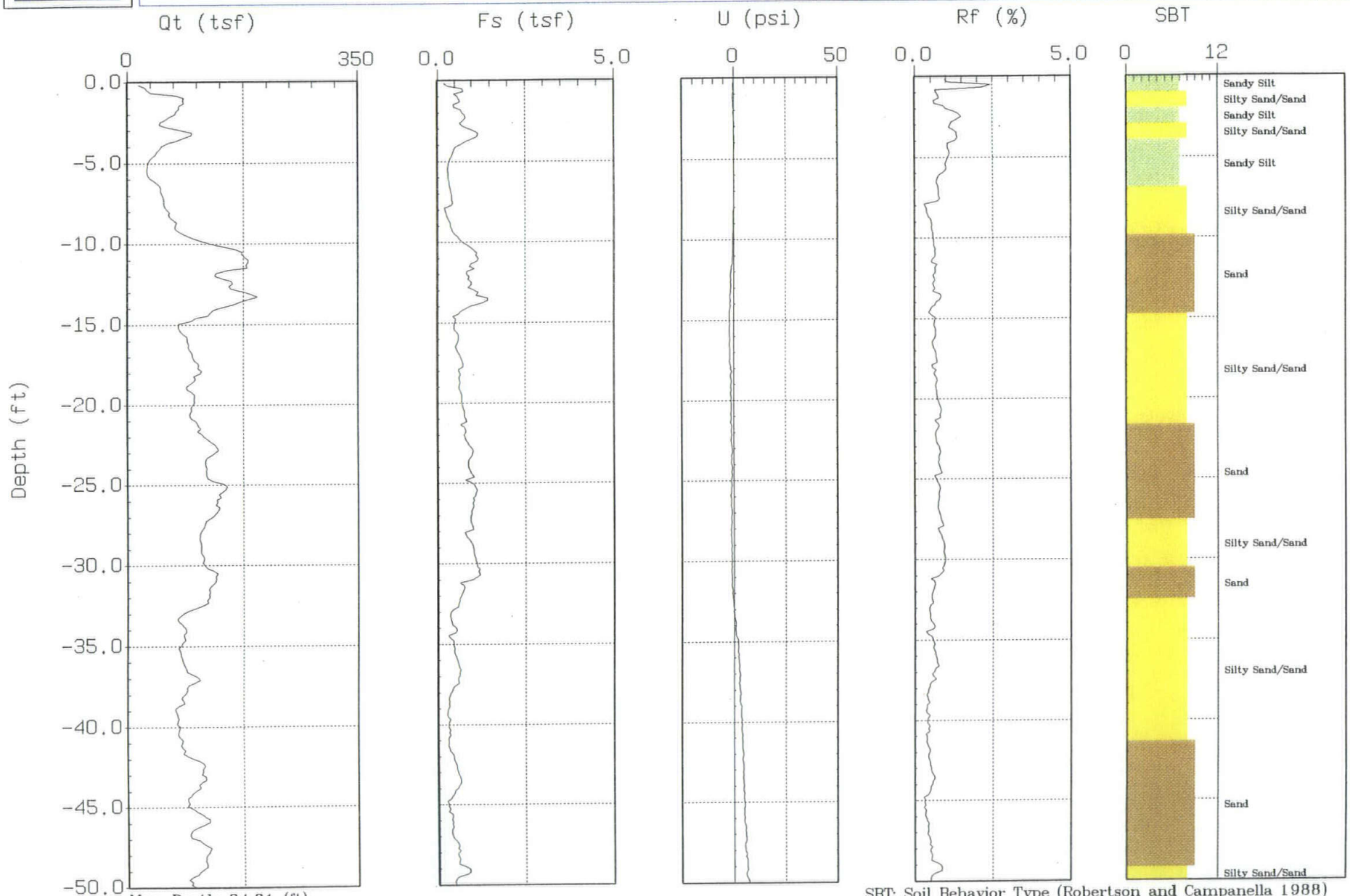
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-24

Geologist : JOSE CERCONE
Date : 10:31:97 13:37



Max. Depth: 84.81 (ft)

Depth Inc.: 0.164 (ft)

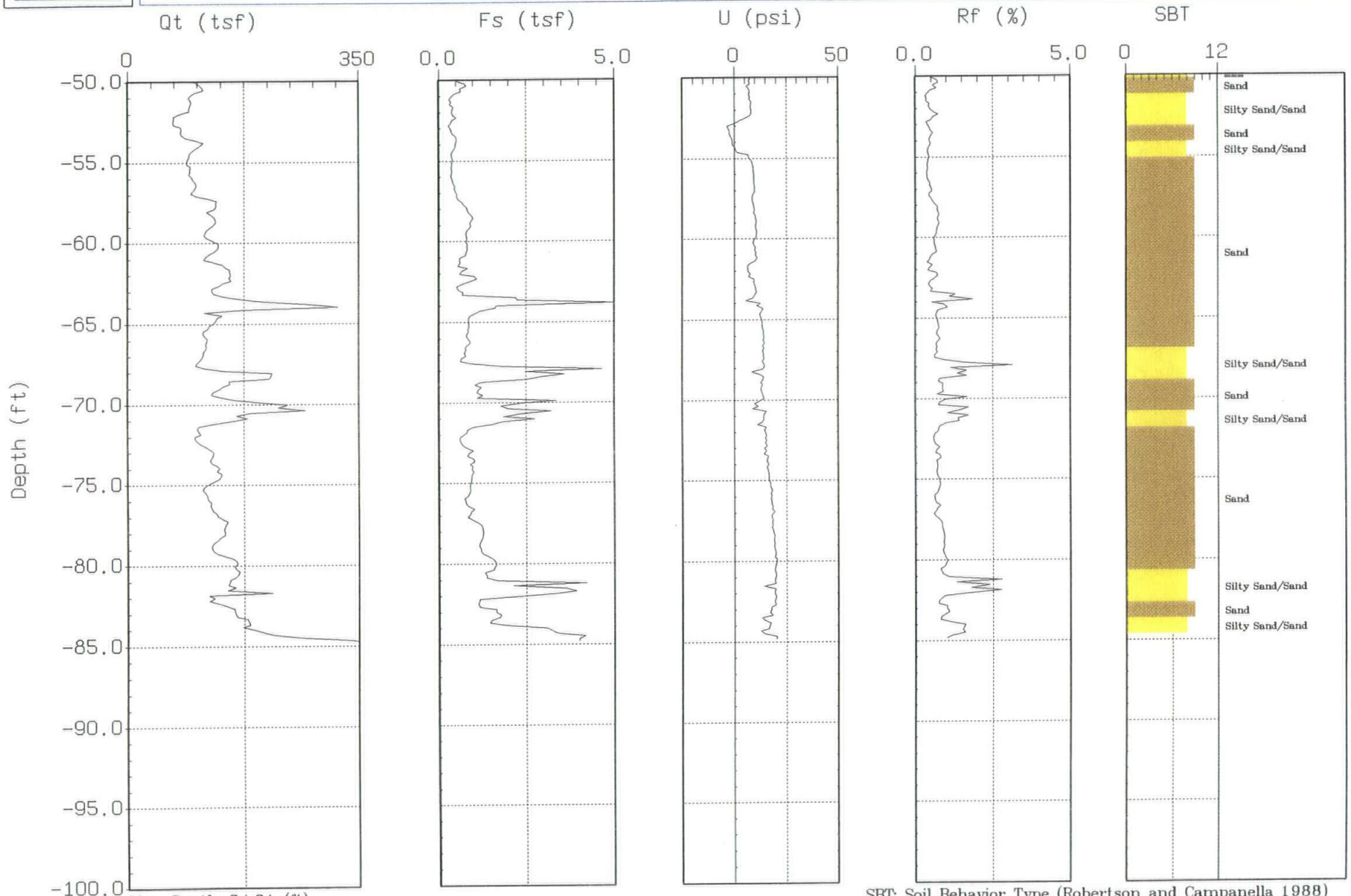
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-24

Geologist : JOSE CERCONE
Date : 10:31:97 13:37



Max. Depth: 84.81 (ft)

Depth Inc.: 0.164 (ft)

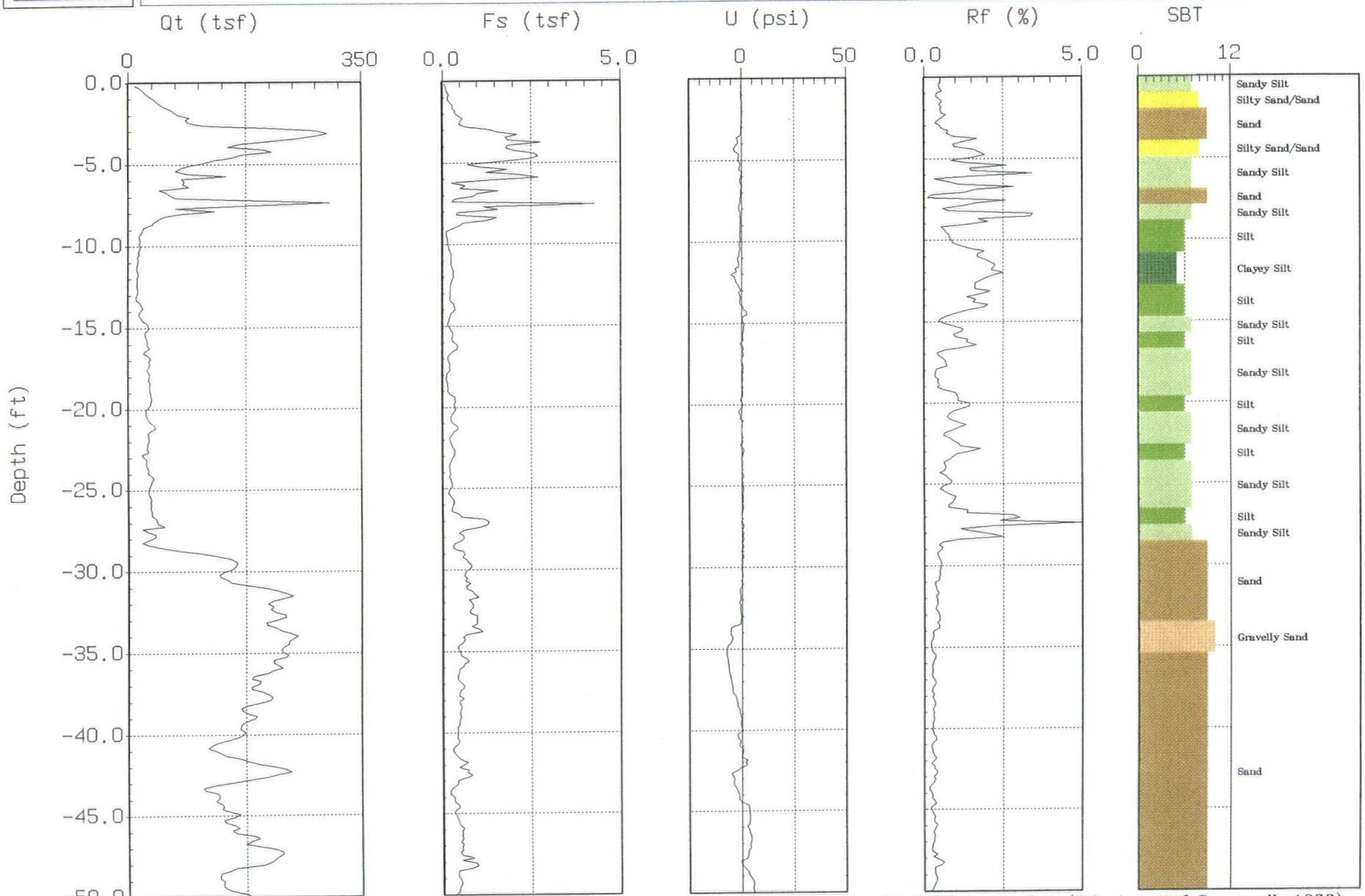
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-25

Geologist : JOSE CERCONE
Date : 11:01:97 09:42



Max. Depth: 90.55 (ft)

Depth Inc.: 0.164 (ft)

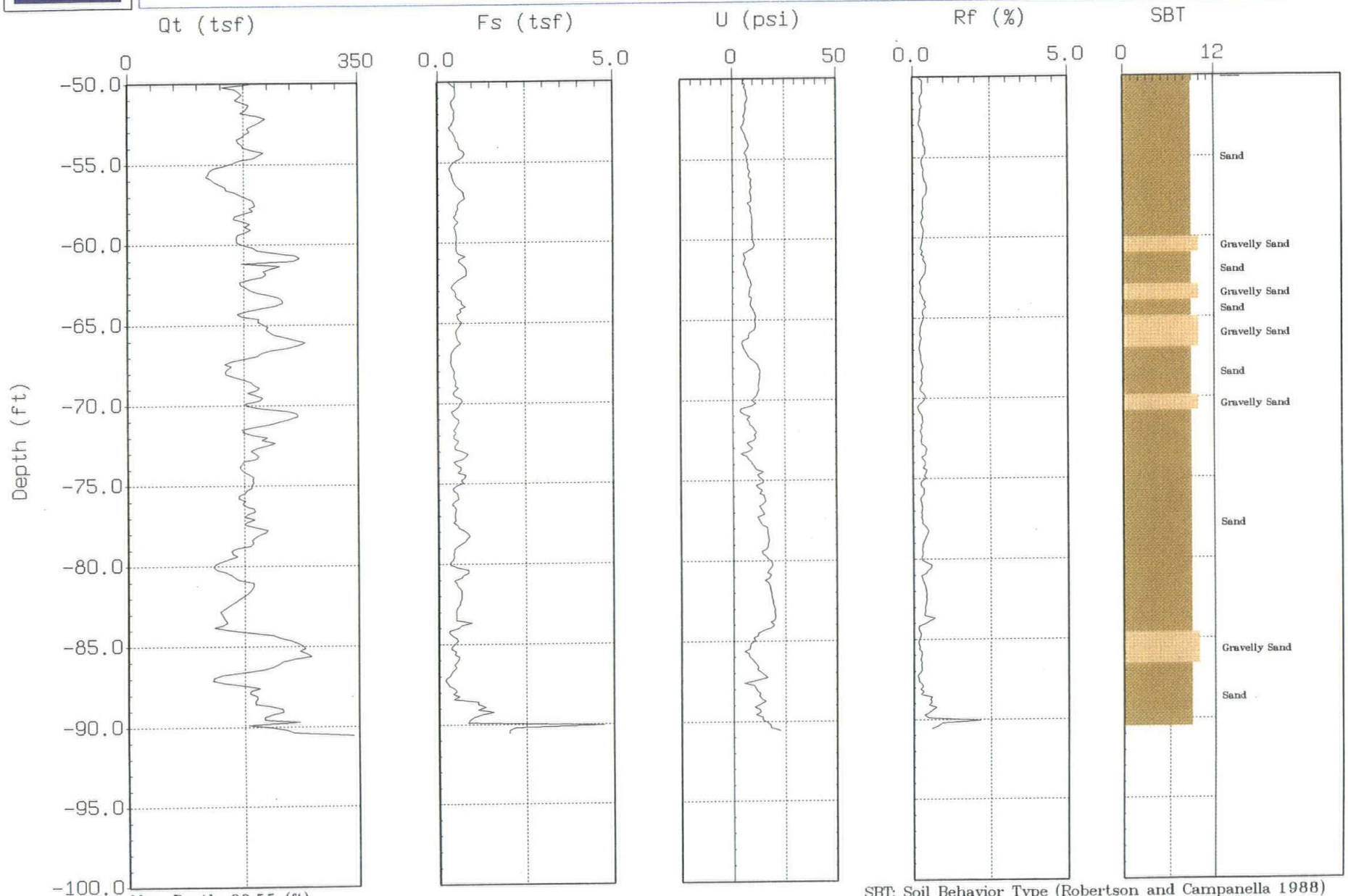
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W1-25

Geologist : JOSE CERCONE
Date : 11:01:97 09:42



Max. Depth: 90.55 (ft)

Depth Inc.: 0.164 (ft)

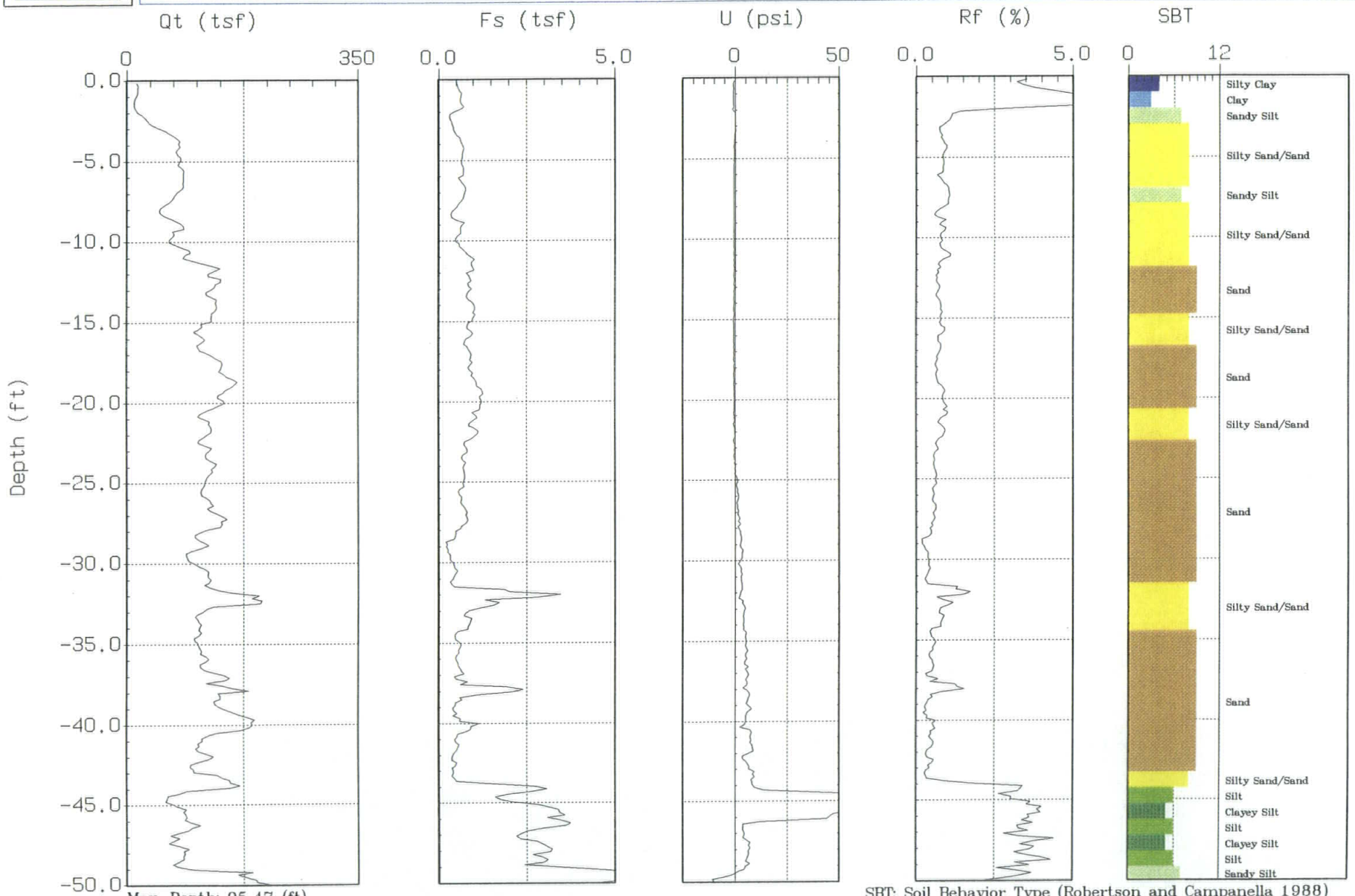
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-1

Geologist : JOSE CERCONE
Date : 11:14:97 13:10



Max. Depth: 95.47 (ft)

Depth Inc.: 0.164 (ft)

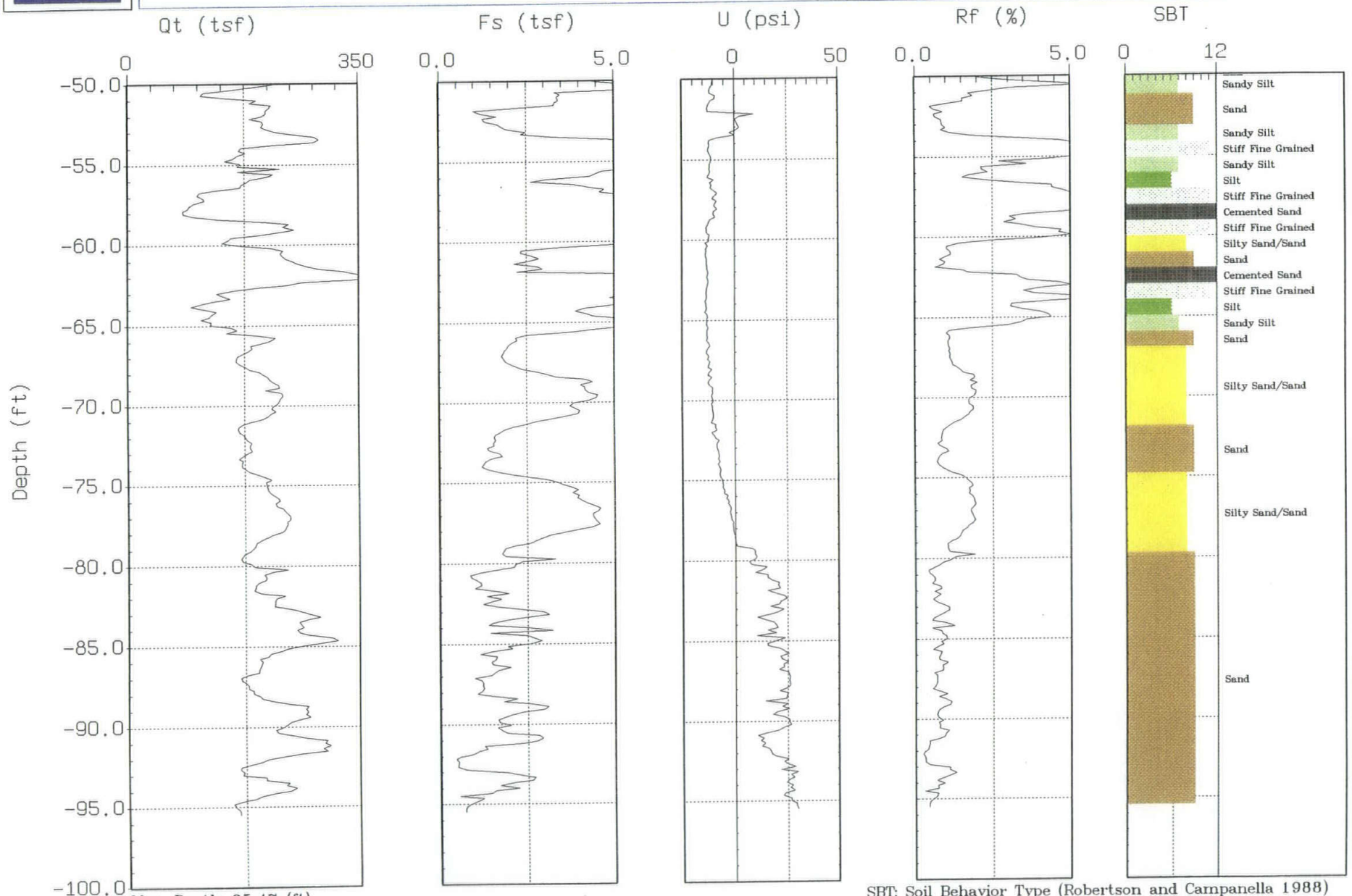
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-1

Geologist : JOSE CERCONE
Date : 11:14:97 13:10



Max. Depth: 95.47 (ft)

Depth Inc.: 0.164 (ft)

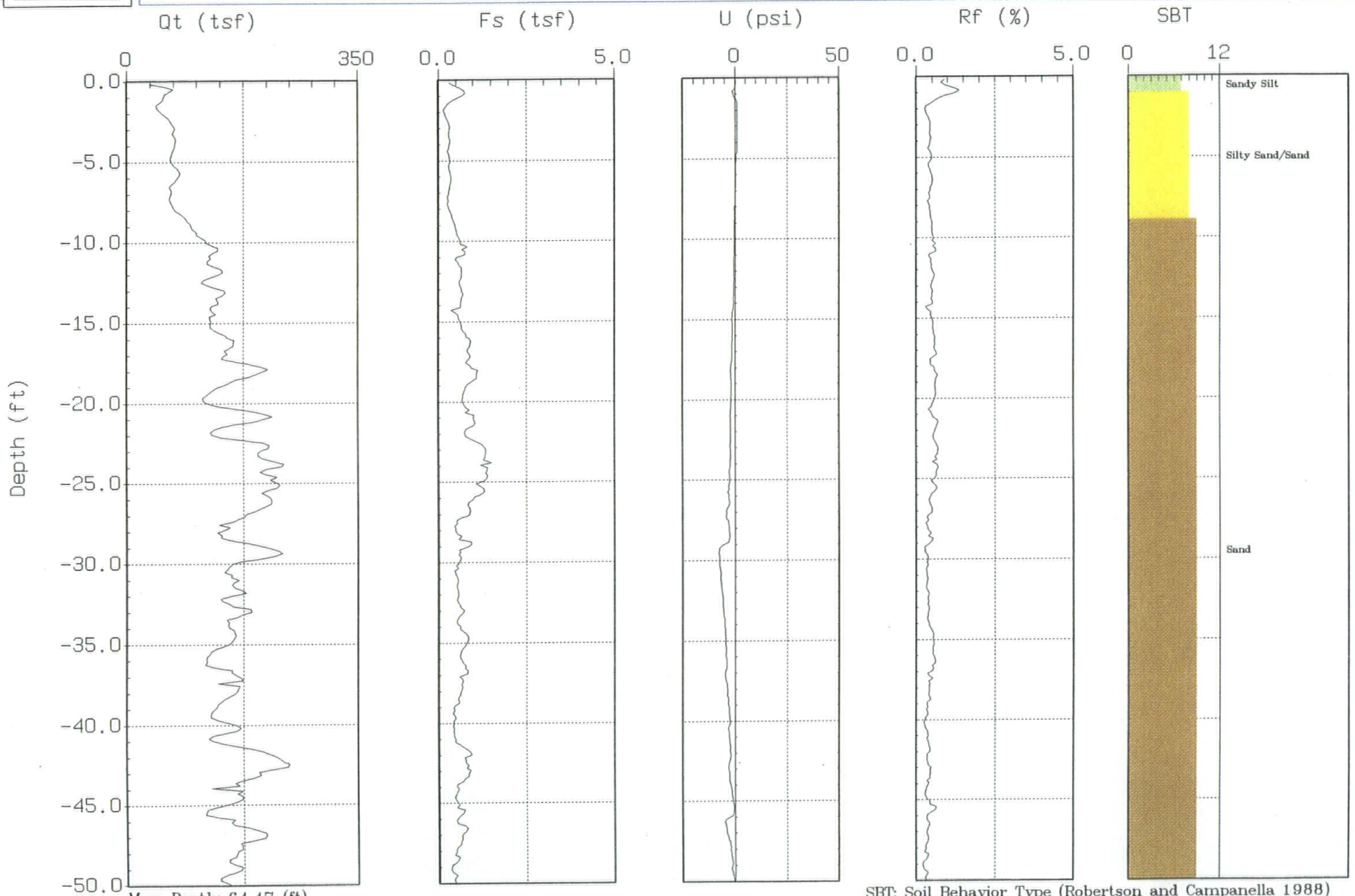
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-2

Geologist : JOSE CERCONE
Date : 11:14:97 10:29



Max. Depth: 64.47 (ft)

Depth Inc.: 0.164 (ft)

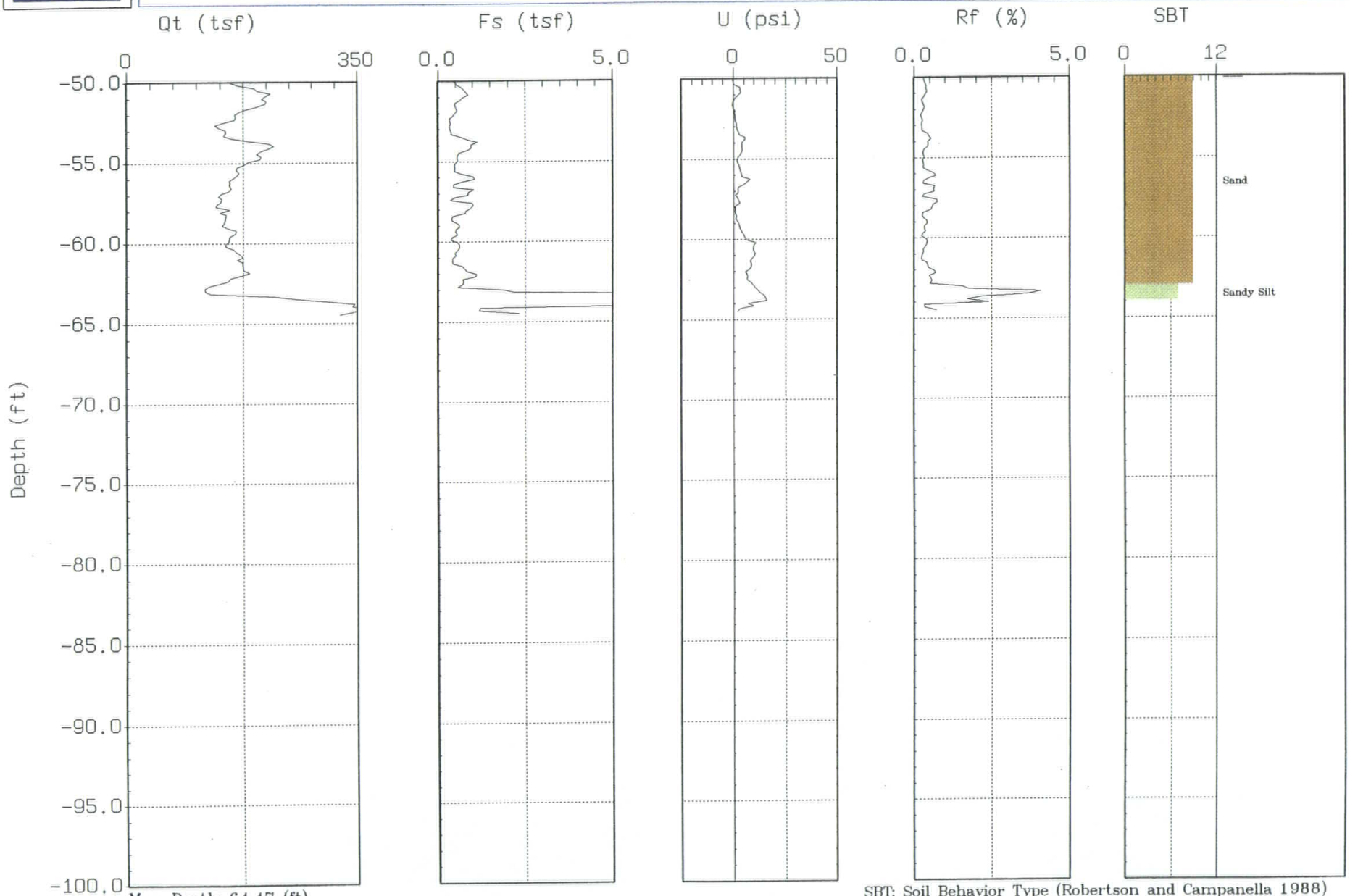
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-2

Geologist : JOSE CERCONE
Date : 11:14:97 10:29



Max. Depth: 64.47 (ft)

Depth Inc.: 0.164 (ft)

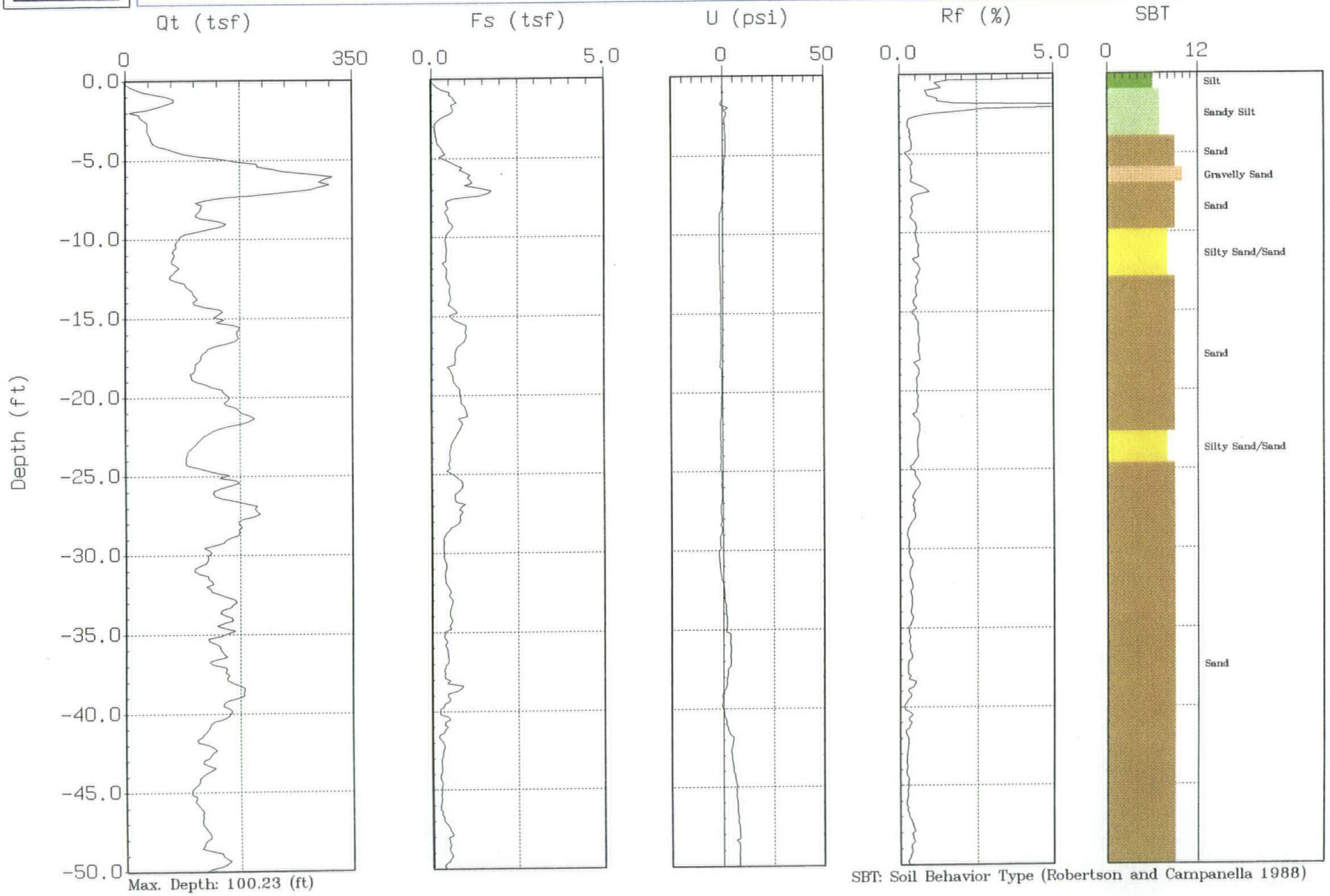
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-3

Geologist : JOSE CERCONE
Date : 11:14:97 09:17



Max. Depth: 100.23 (ft)

Depth Inc.: 0.164 (ft)

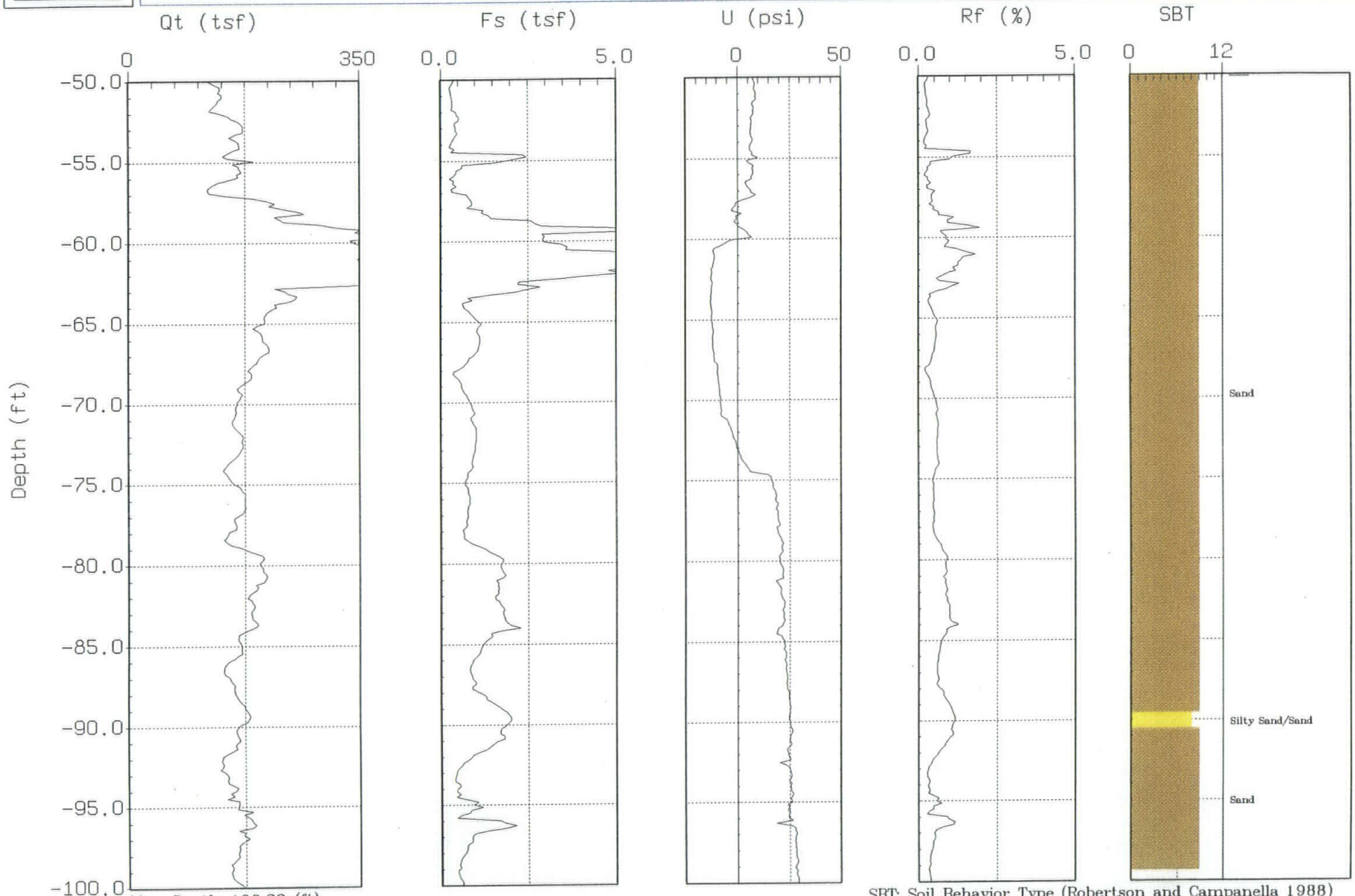
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-3

Geologist : JOSE CERCONE
Date : 11:14:97 09:17



Max. Depth: 100.23 (ft)

Depth Inc.: 0.164 (ft)

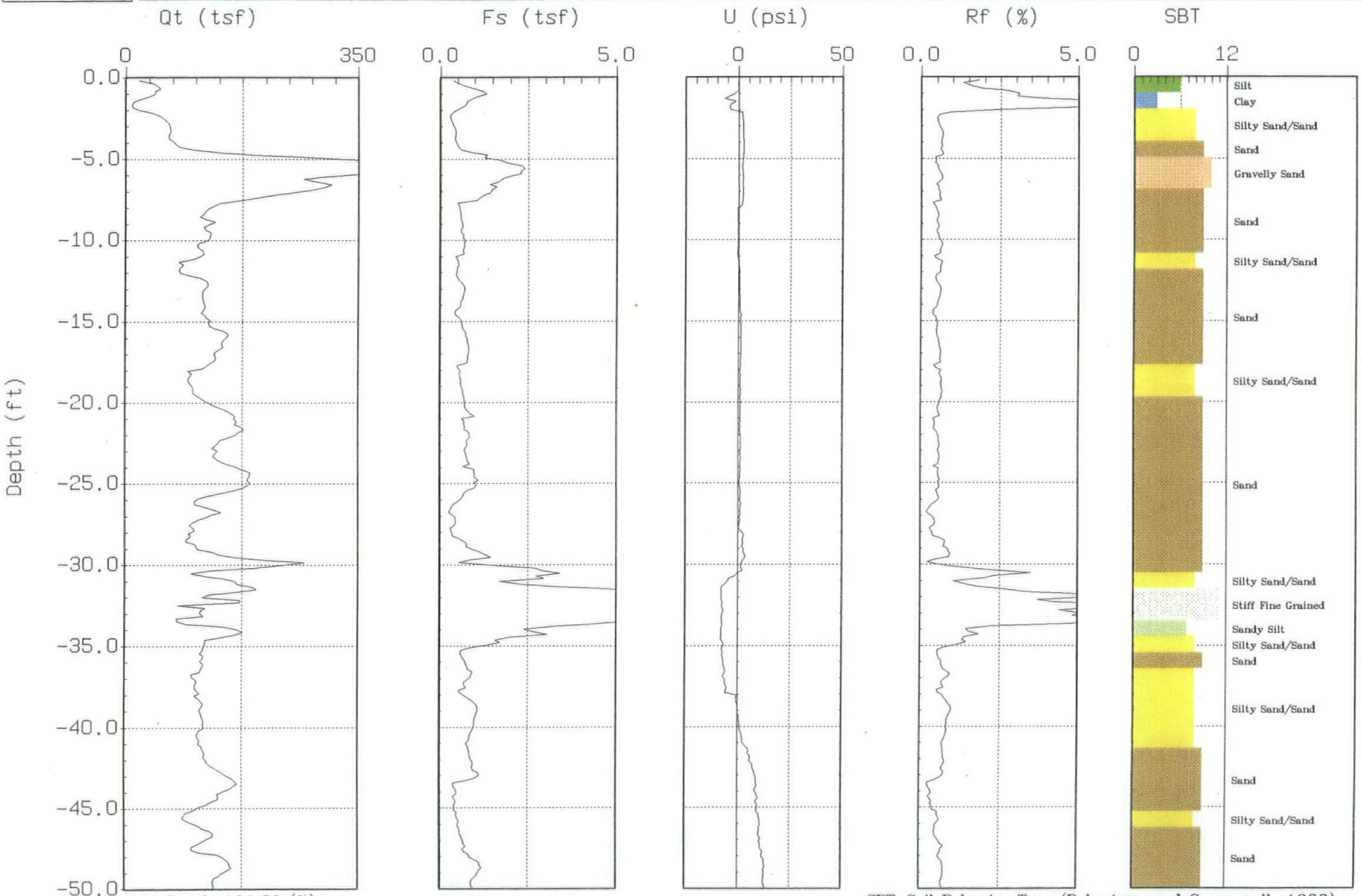
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-4

Geologist : JOSE CERCONE
Date : 11:14:97 08:07



Max. Depth: 100.39 (ft)

Depth Inc.: 0.164 (ft)

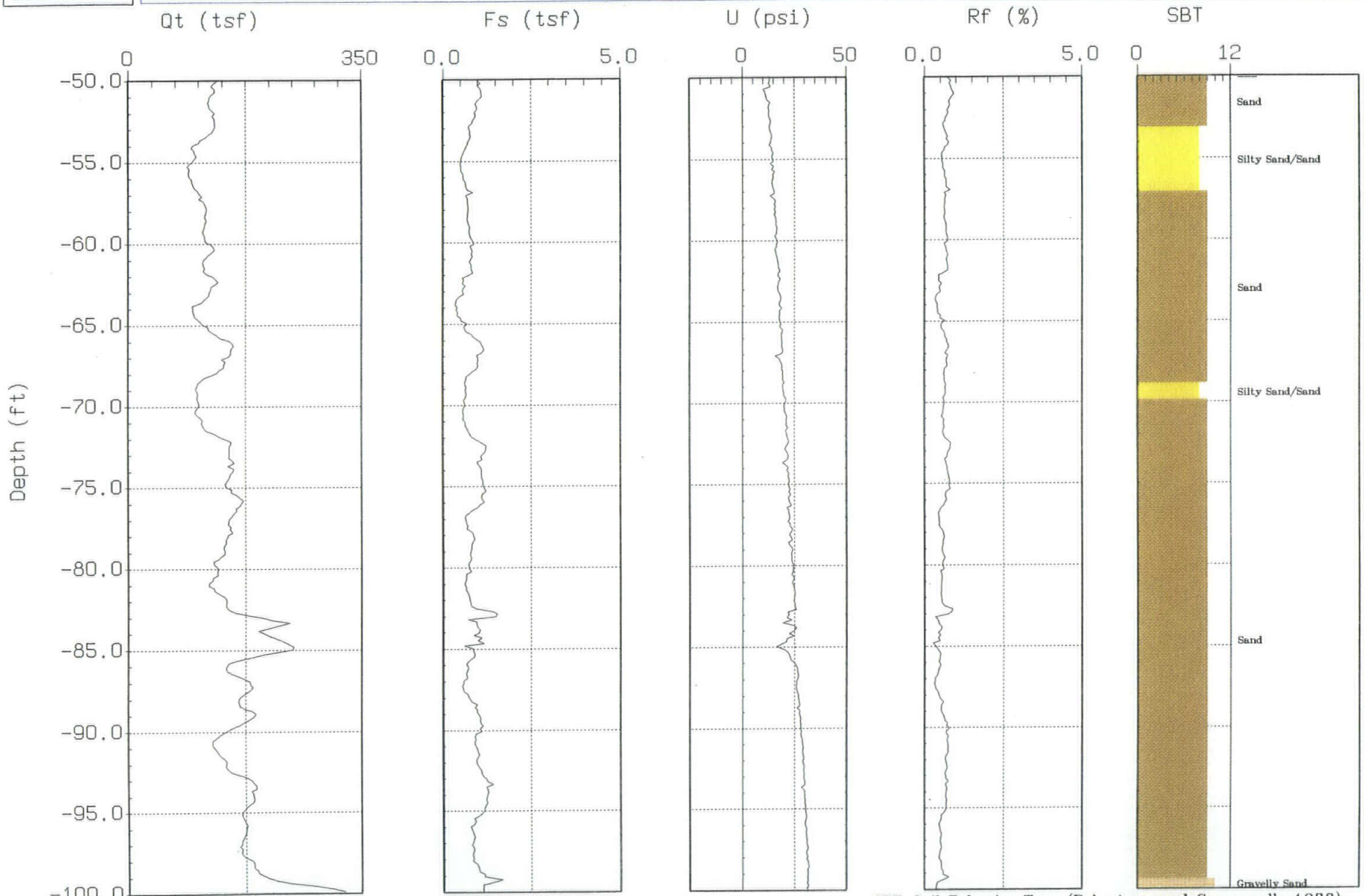
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-4

Geologist : JOSE CERCONE
Date : 11:14:97 08:07



Max. Depth: 100.39 (ft)

Depth Inc.: 0.164 (ft)

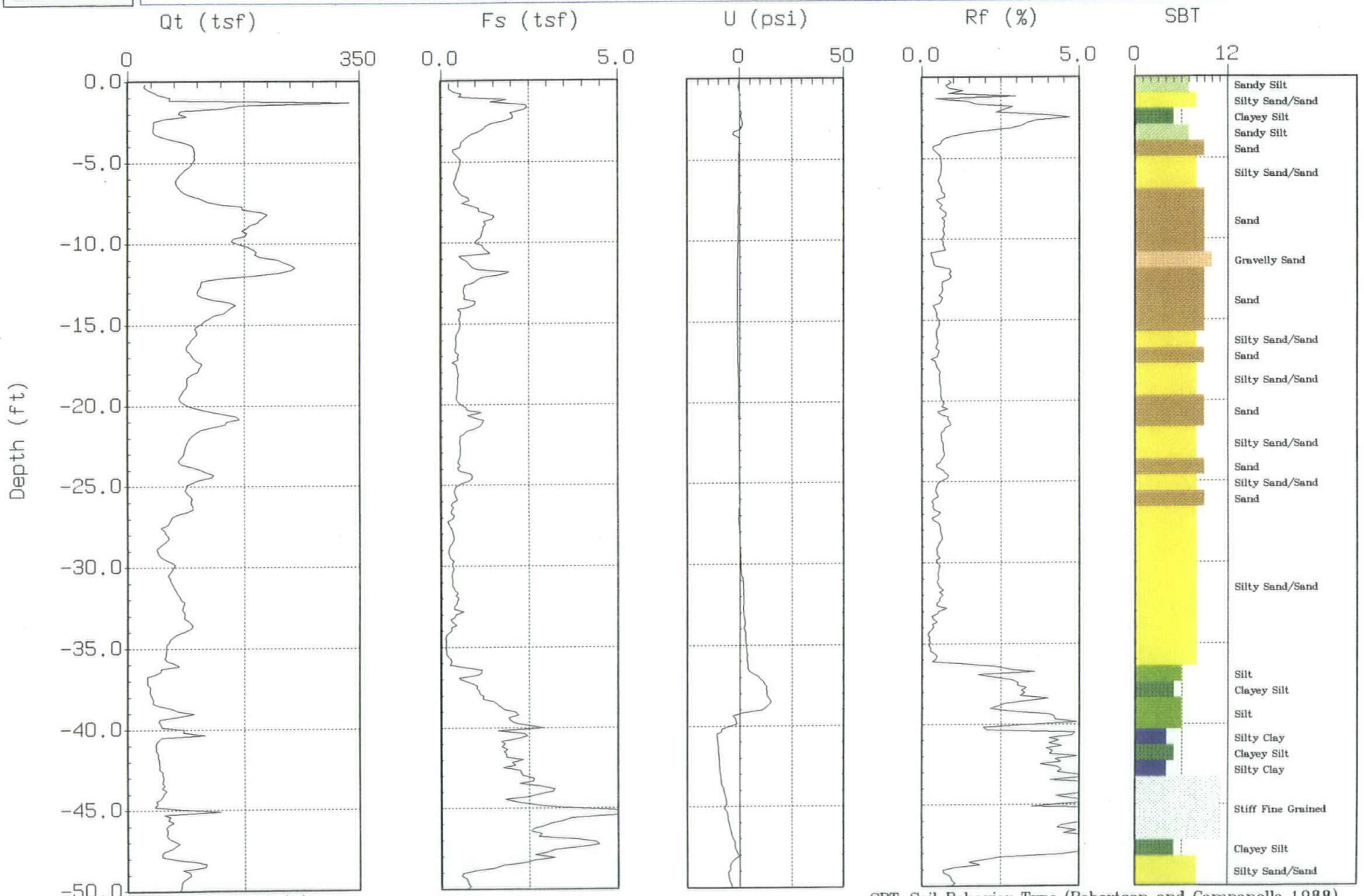
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-6

Geologist : JOSE CERCONE
Date : 11:14:97 14:42



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

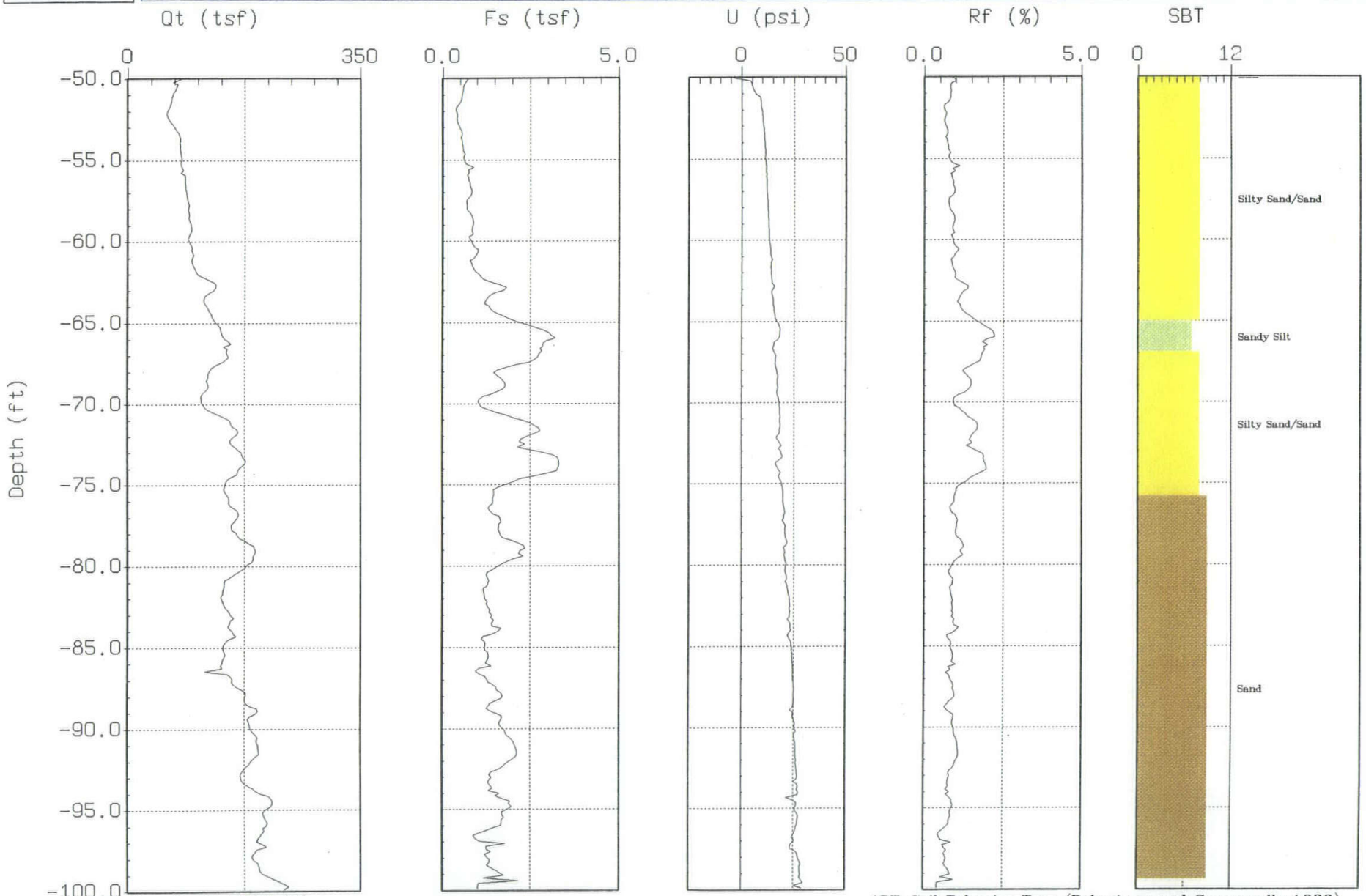
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-6

Geologist : JOSE CERCONE
Date : 11:14:97 14:42



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

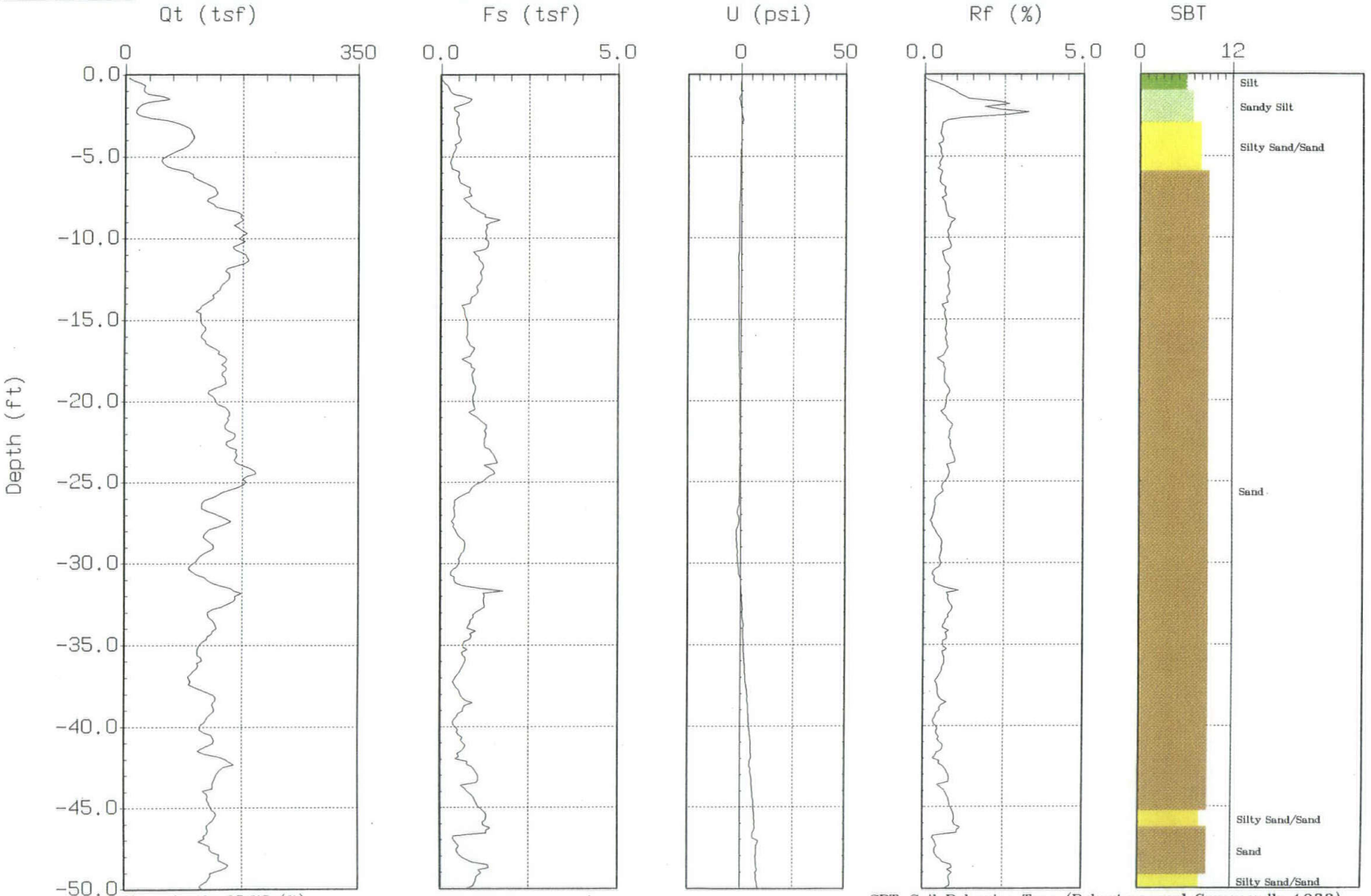
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-7

Geologist : JOSE CERCONE
Date : 11:14:97 15:57



Max. Depth: 65.78 (ft)

Depth Inc.: 0.164 (ft)

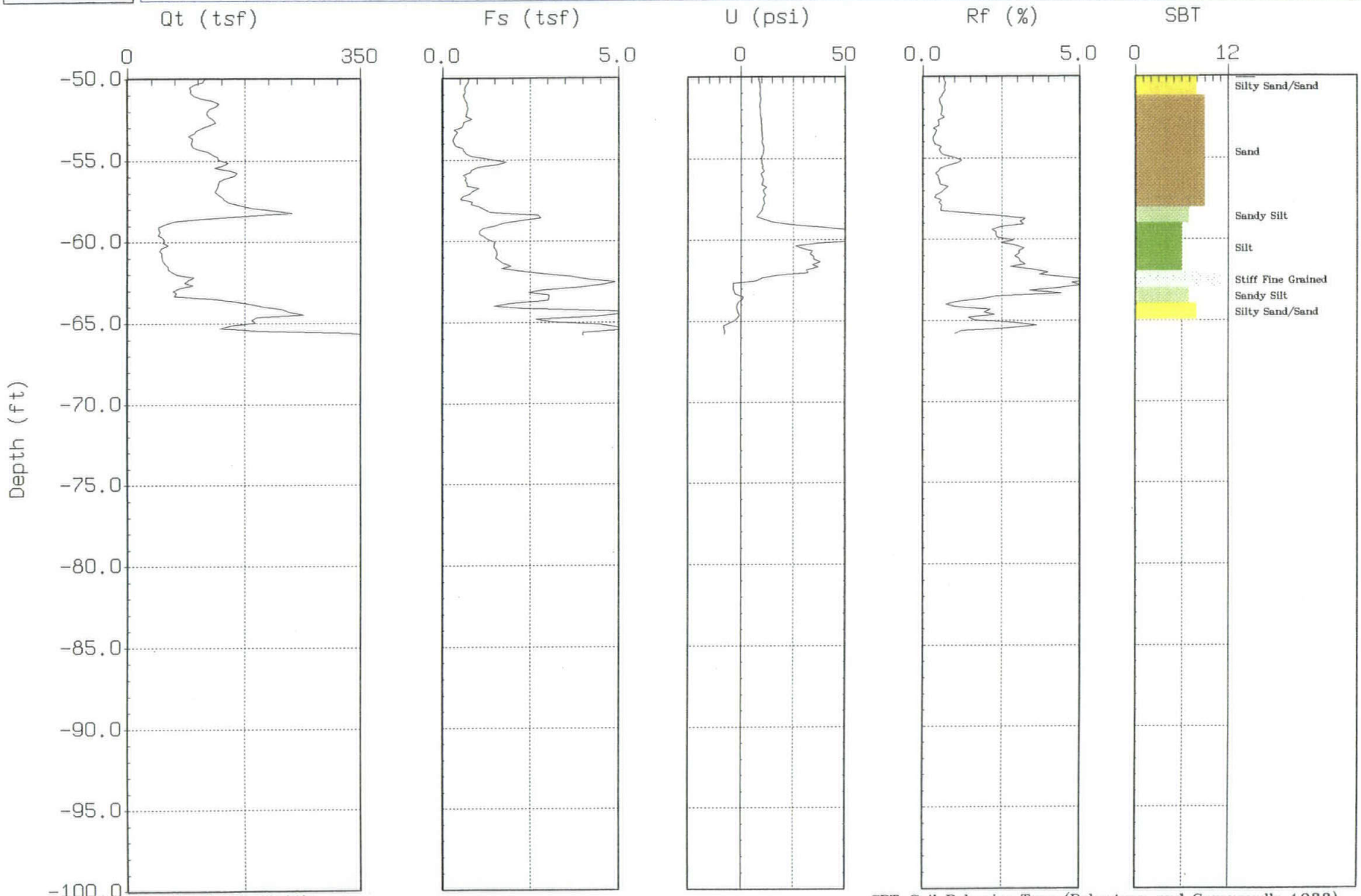
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-7

Geologist : JOSE CERCONE
Date : 11:14:97 15:57



Max. Depth: 65.78 (ft)

Depth Inc.: 0.164 (ft)

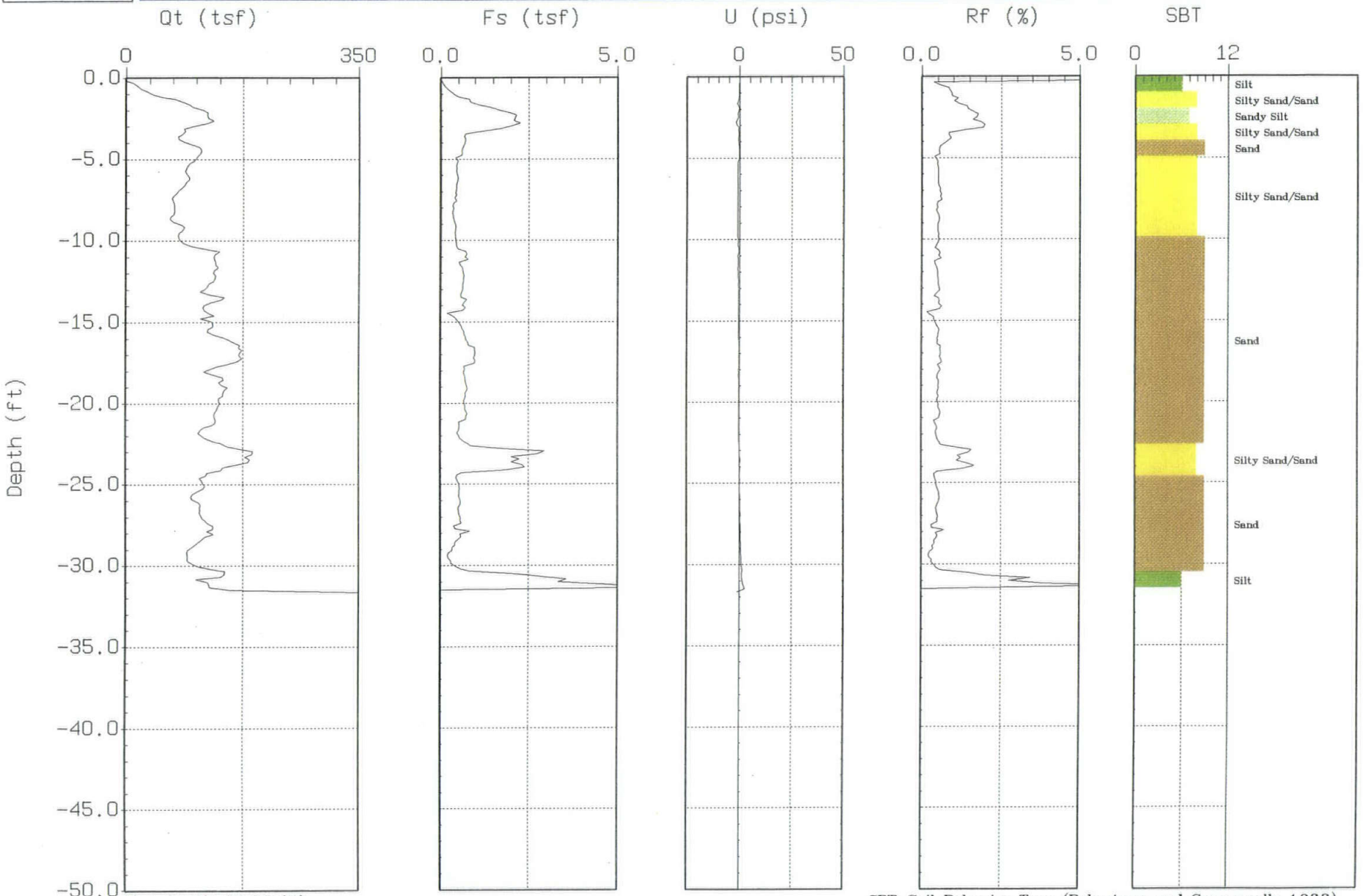
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-8

Geologist : JOSE CERCONE
Date : 11:19:97 11:09



Max. Depth: 31.66 (ft)

Depth Inc.: 0.164 (ft)

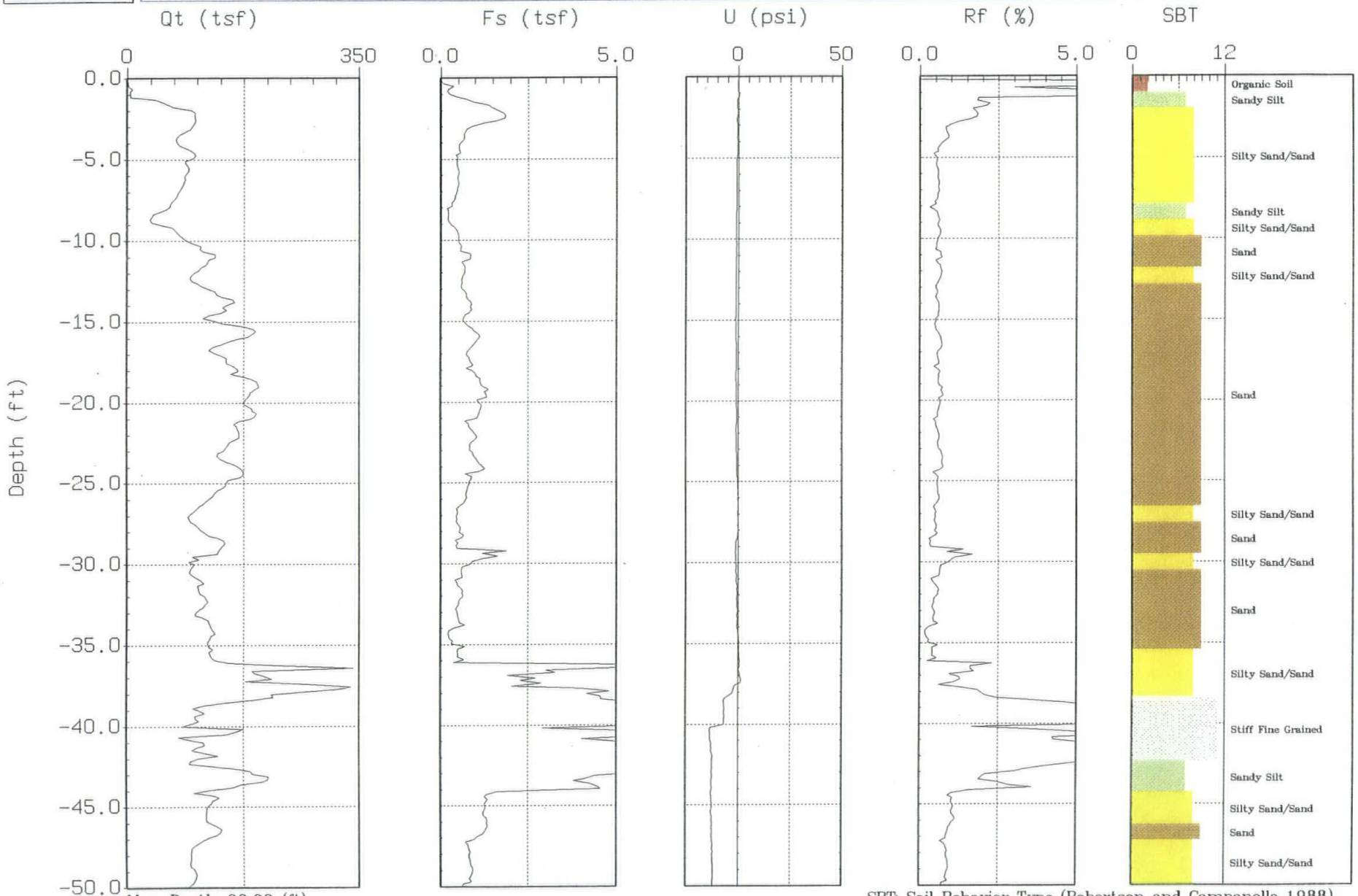
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-8A

Geologist : JOSE CERCONE
Date : 11:19:97 11:31



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

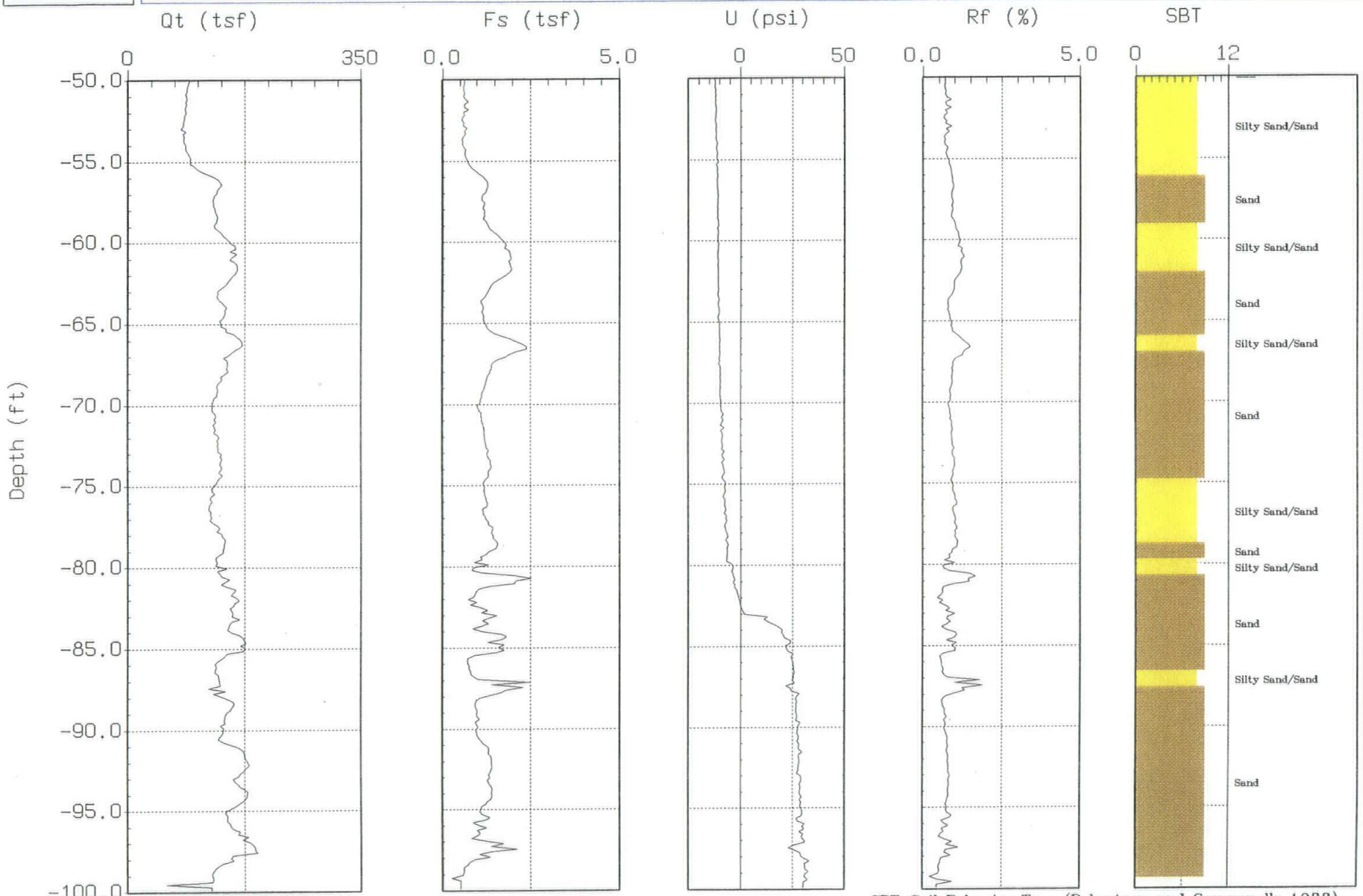
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-8A

Geologist : JOSE CERCONE
Date : 11:19:97 11:31



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

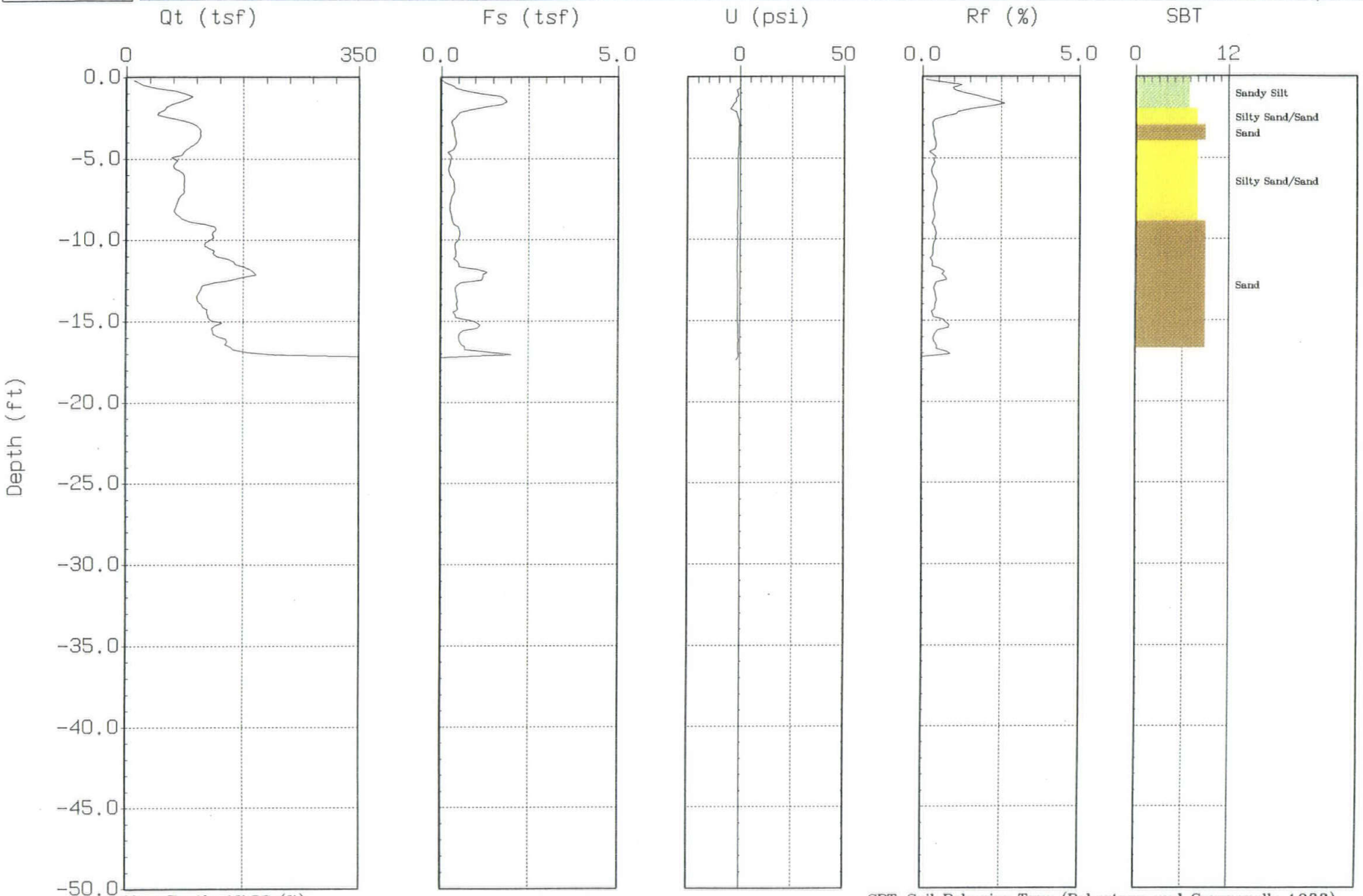
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-9

Geologist : JOSE CERCONE
Date : 11:18:97 12:56



Max. Depth: 17.39 (ft)

Depth Inc.: 0.164 (ft)

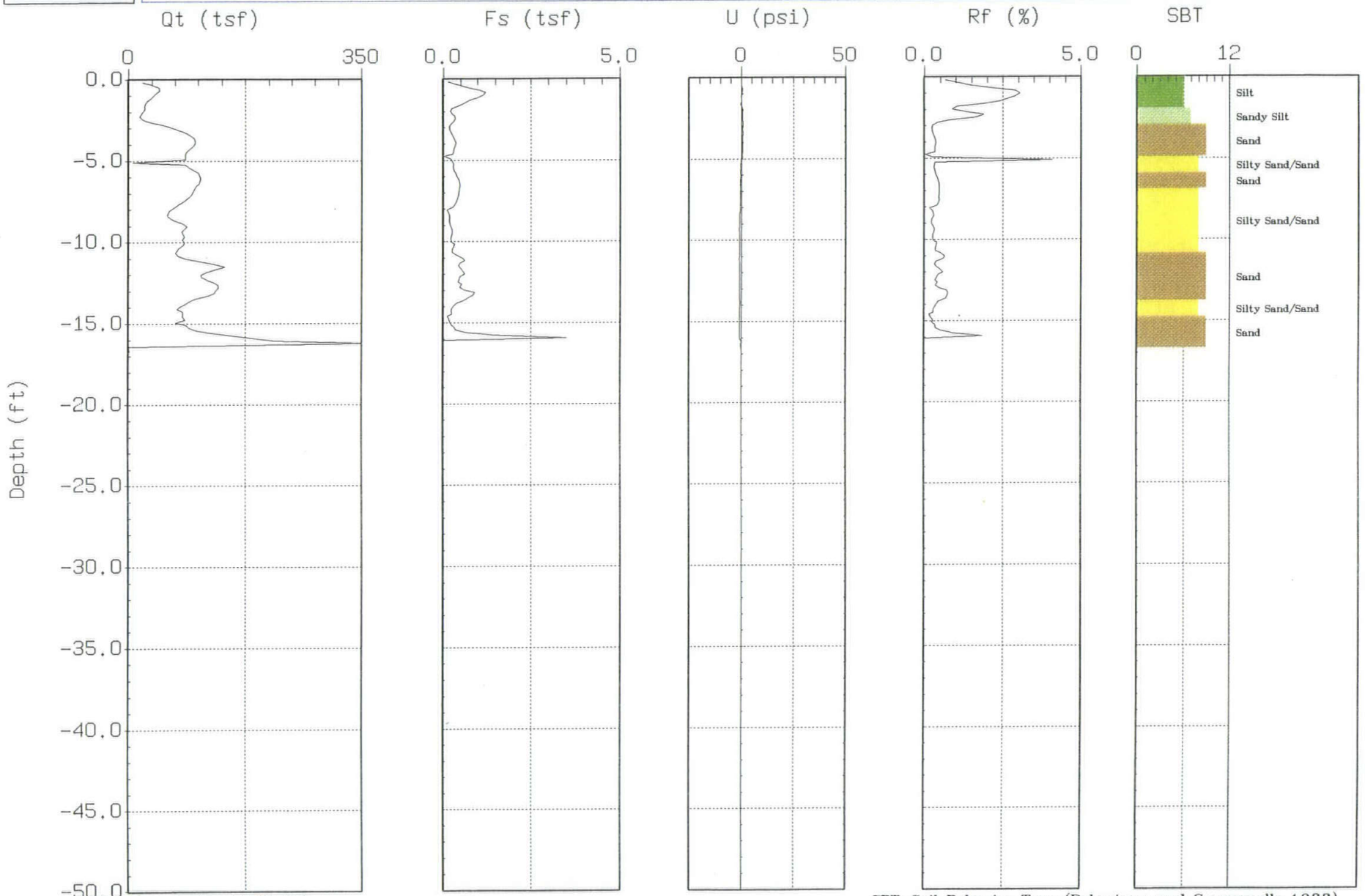
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-9A

Geologist : JOSE CERCONE
Date : 11:18:97 13:15



Max. Depth: 16.73 (ft)

Depth Inc.: 0.164 (ft)

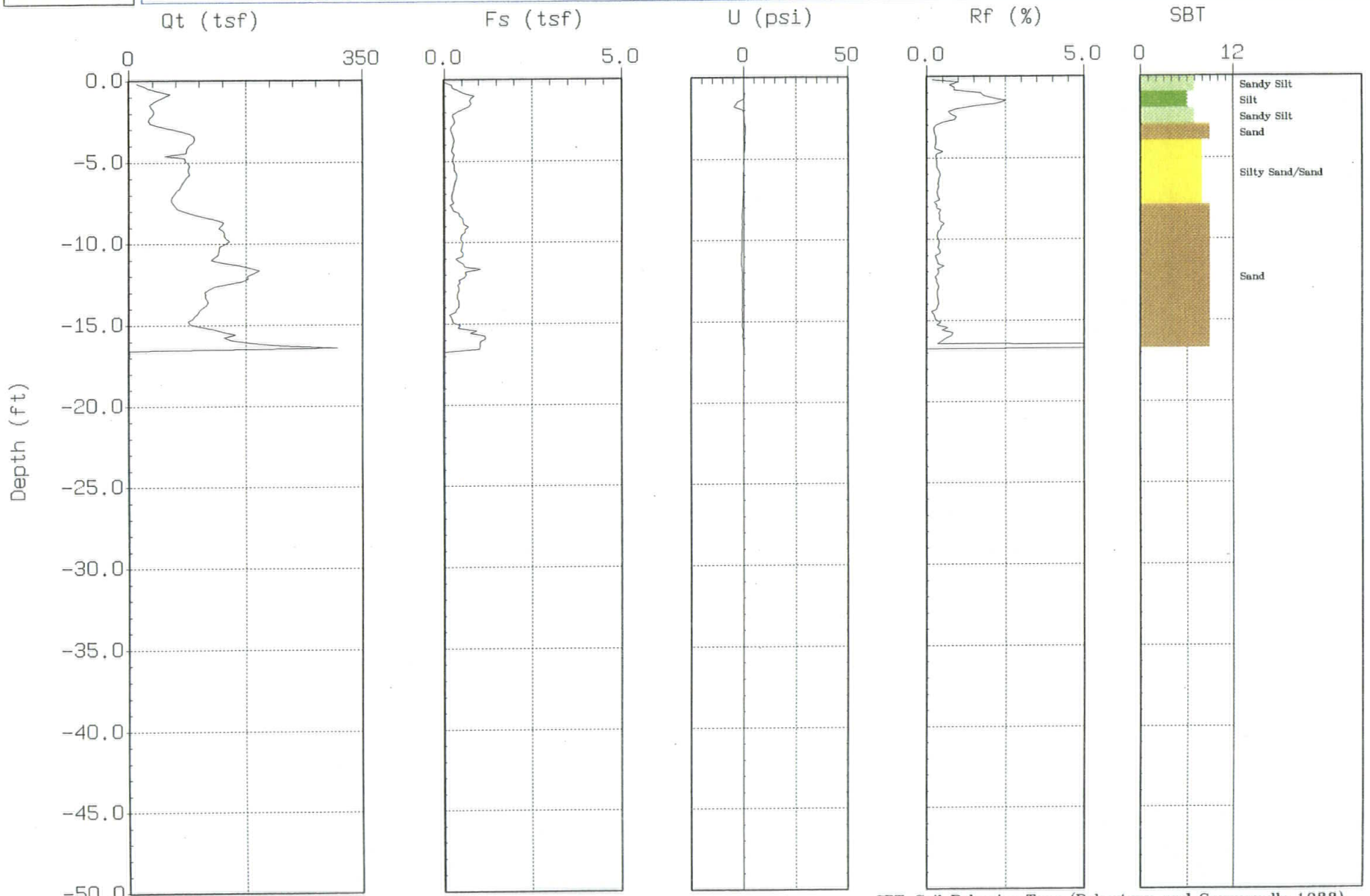
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-9B

Geologist : JOSE CERCONE
Date : 11:18:97 13:29



Max. Depth: 16.90 (ft)

Depth Inc.: 0.164 (ft)

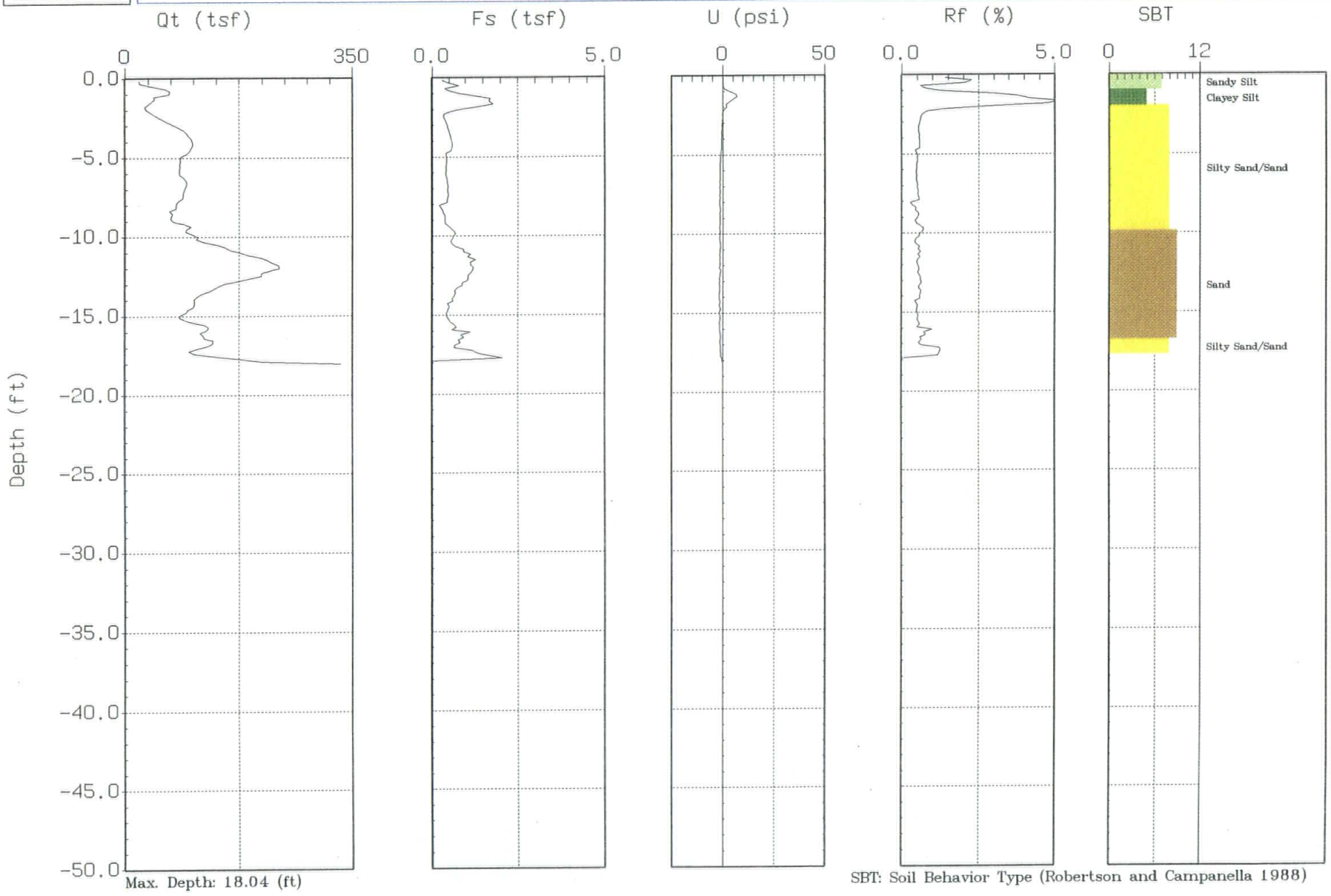
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-9C

Geologist : JOSE CERCONE
Date : 11:19:97 09:41



Max. Depth: 18.04 (ft)

Depth Inc.: 0.164 (ft)

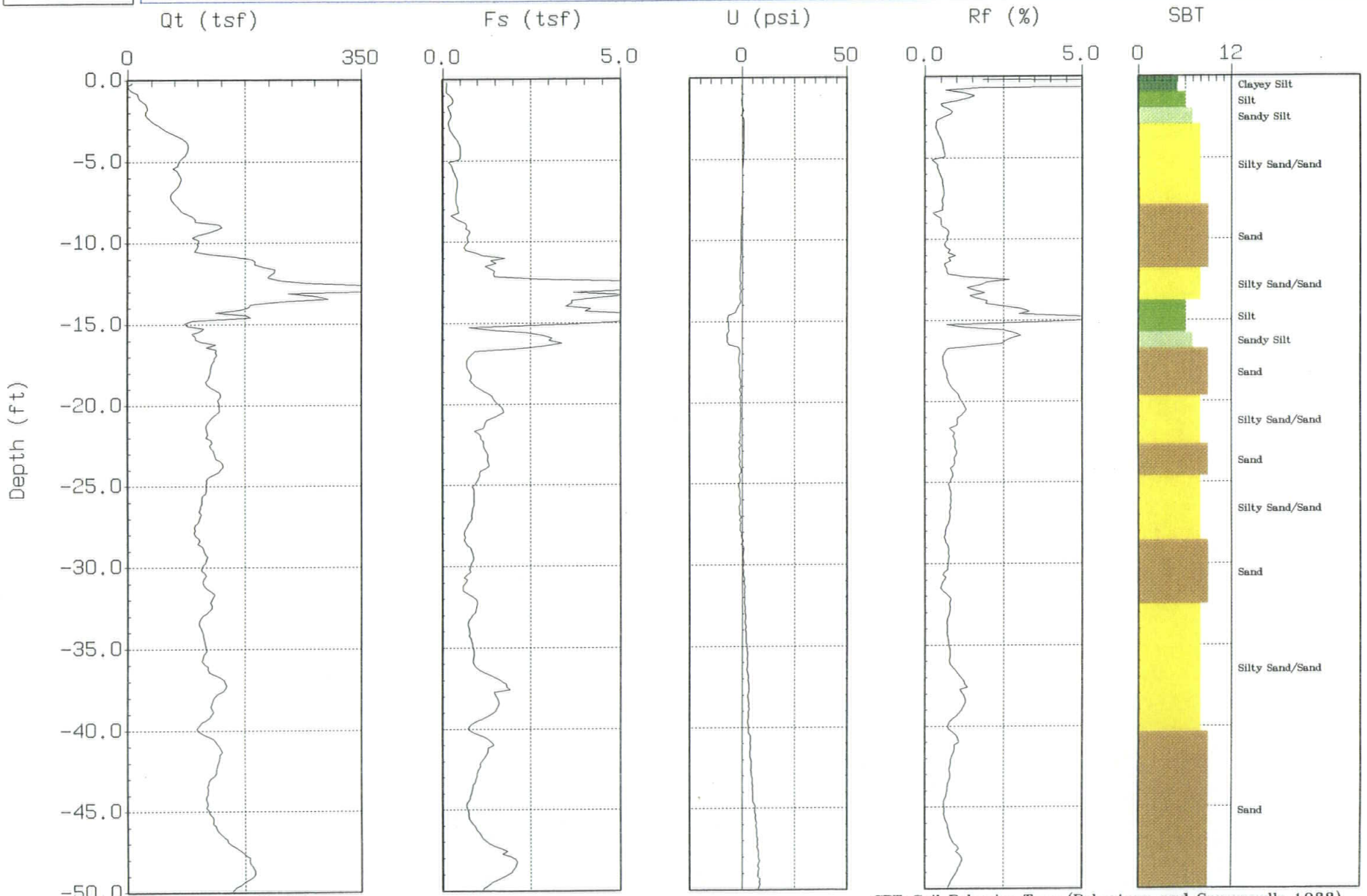
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-10

Geologist : JOSE CERCONE
Date : 11:19:97 09:59



Max. Depth: 92.35 (ft)

Depth Inc.: 0.164 (ft)

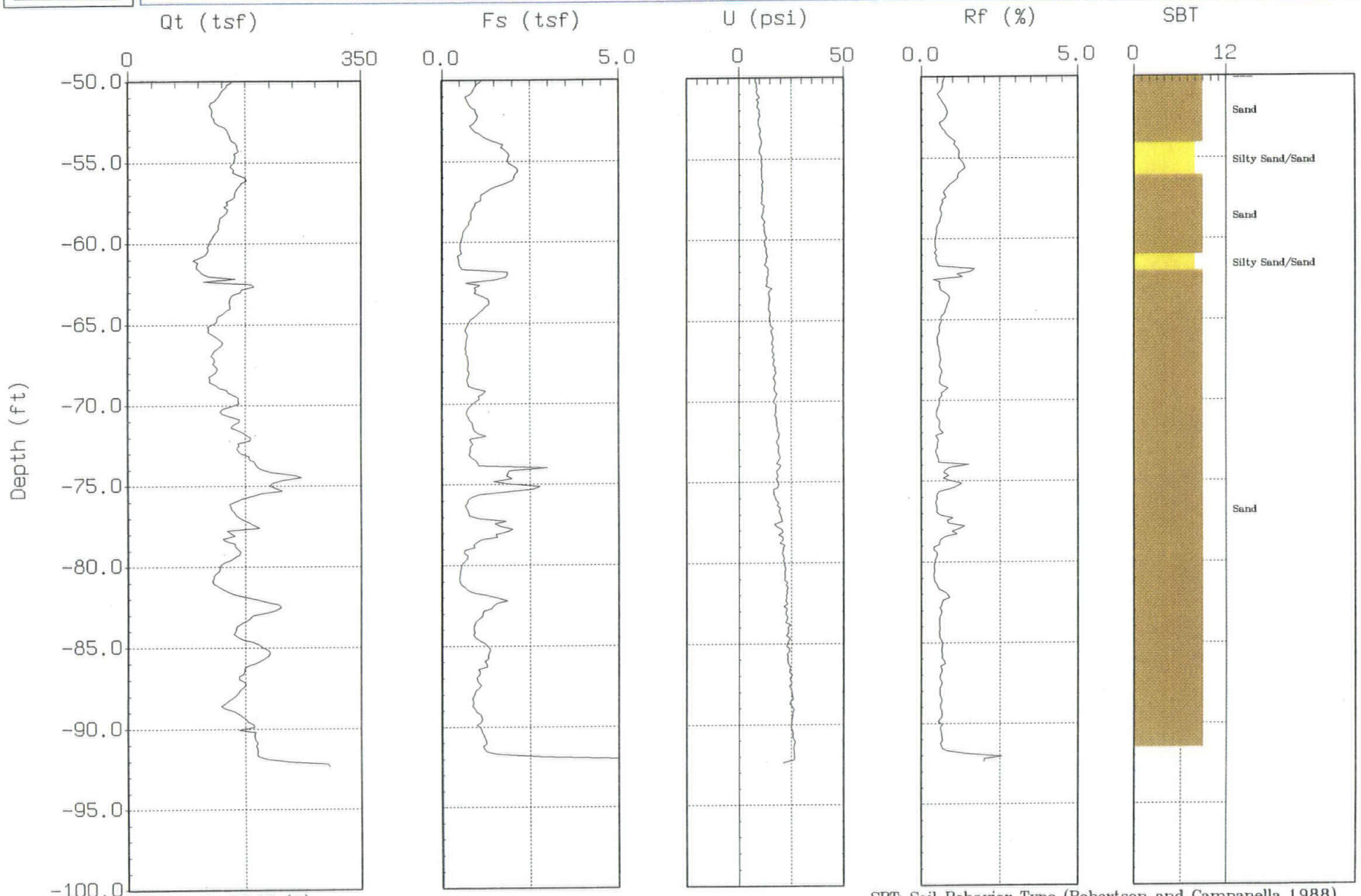
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-10

Geologist : JOSE CERCONE
Date : 11:19:97 09:59



Max. Depth: 92.35 (ft)

Depth Inc.: 0.164 (ft)

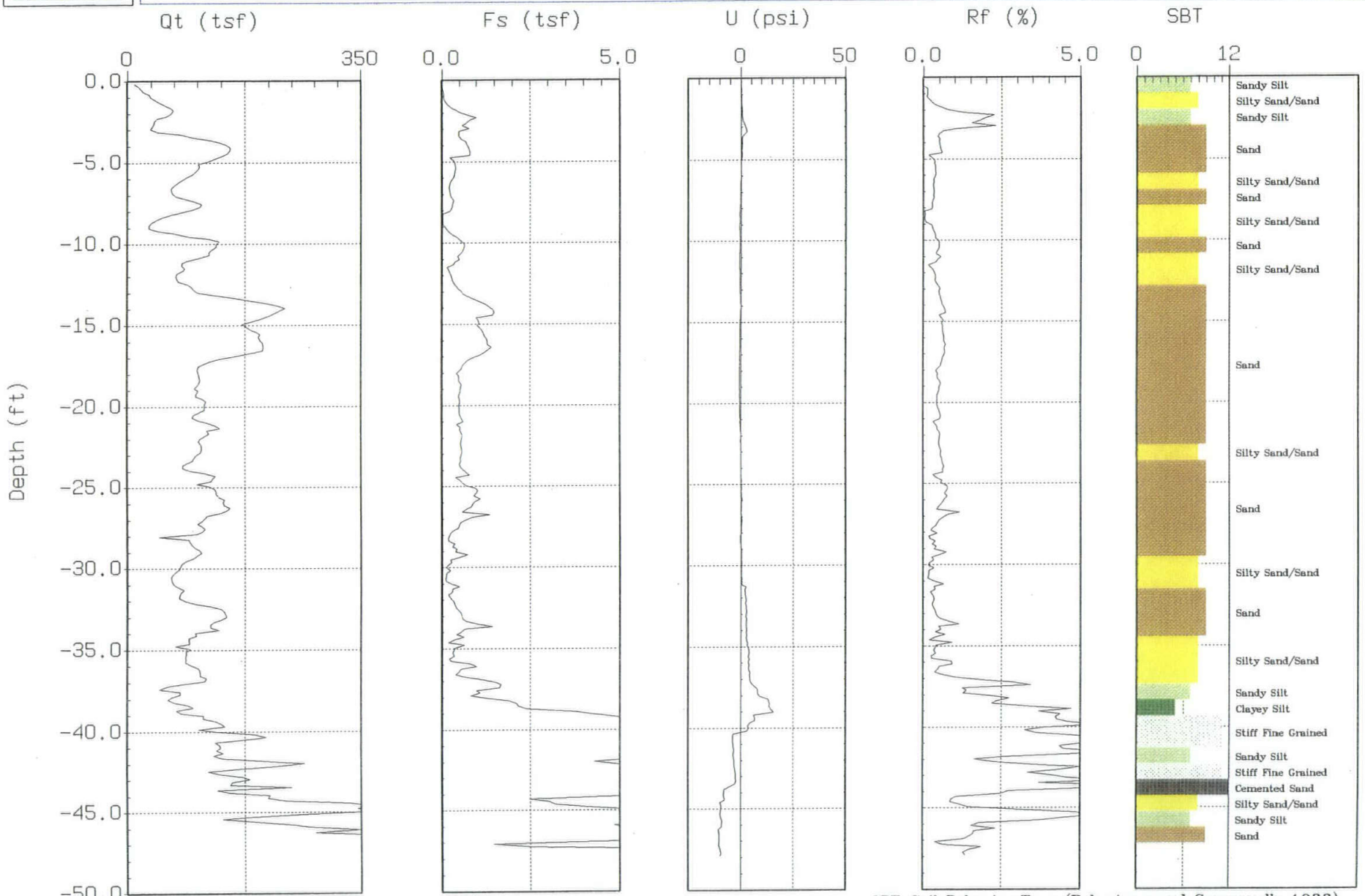
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-11

Geologist : JOSE CERCONE
Date : 11:19:97 15:20



Max. Depth: 47.90 (ft)

Depth Inc.: 0.164 (ft)

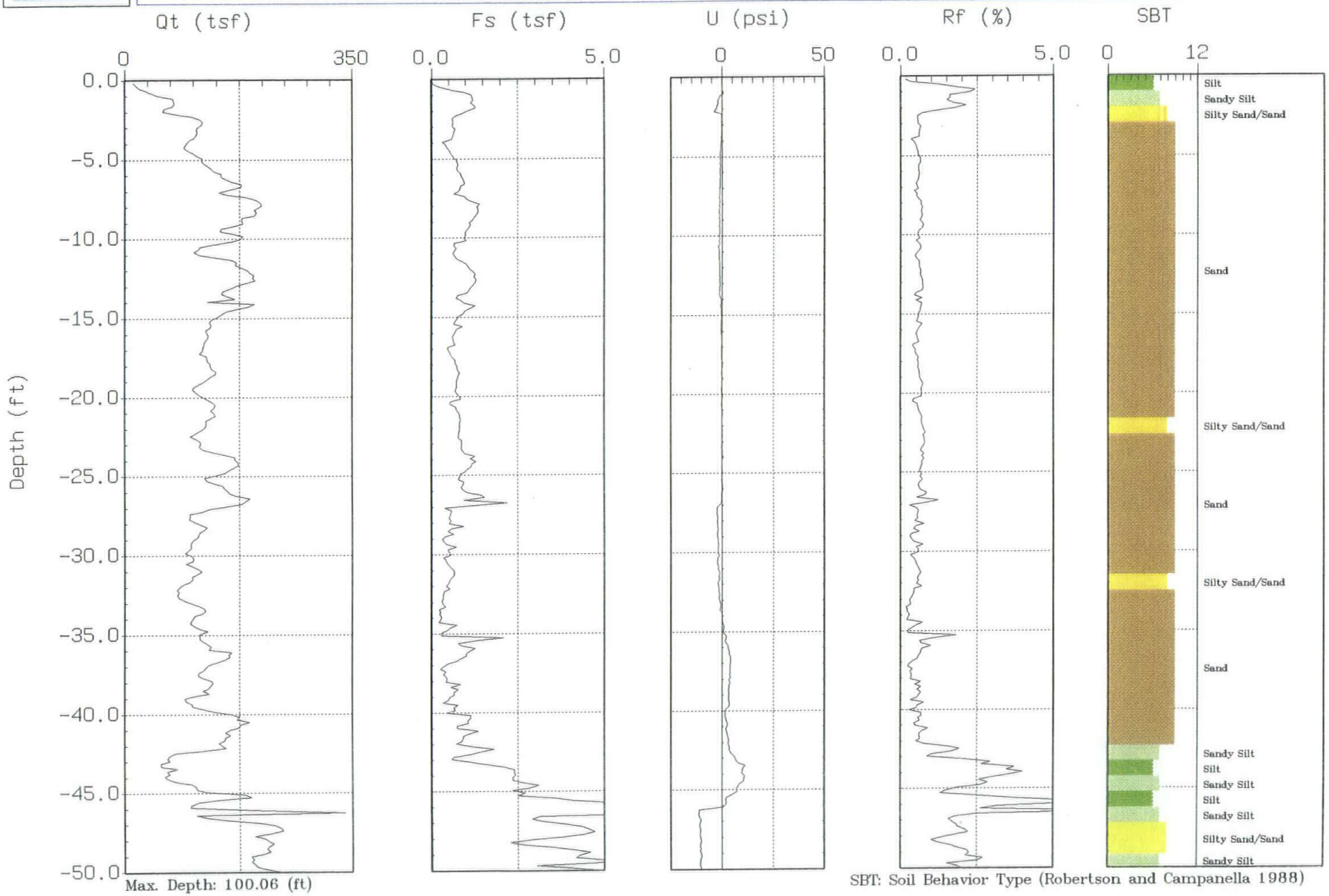
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-12

Geologist : JOSE CERCONE
Date : 11:19:97 13:46



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

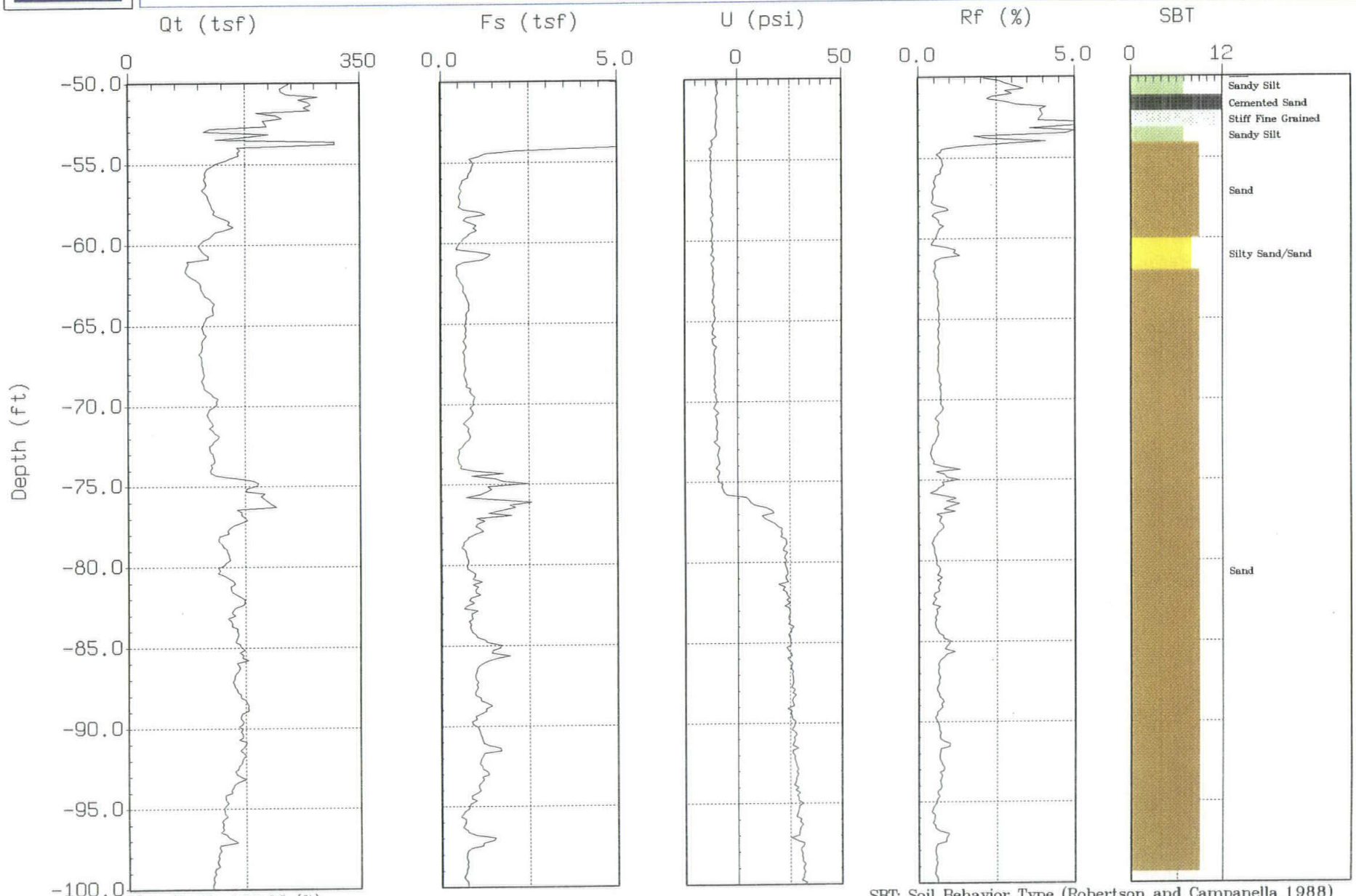
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-12

Geologist : JOSE CERCONE
Date : 11:19:97 13:46



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

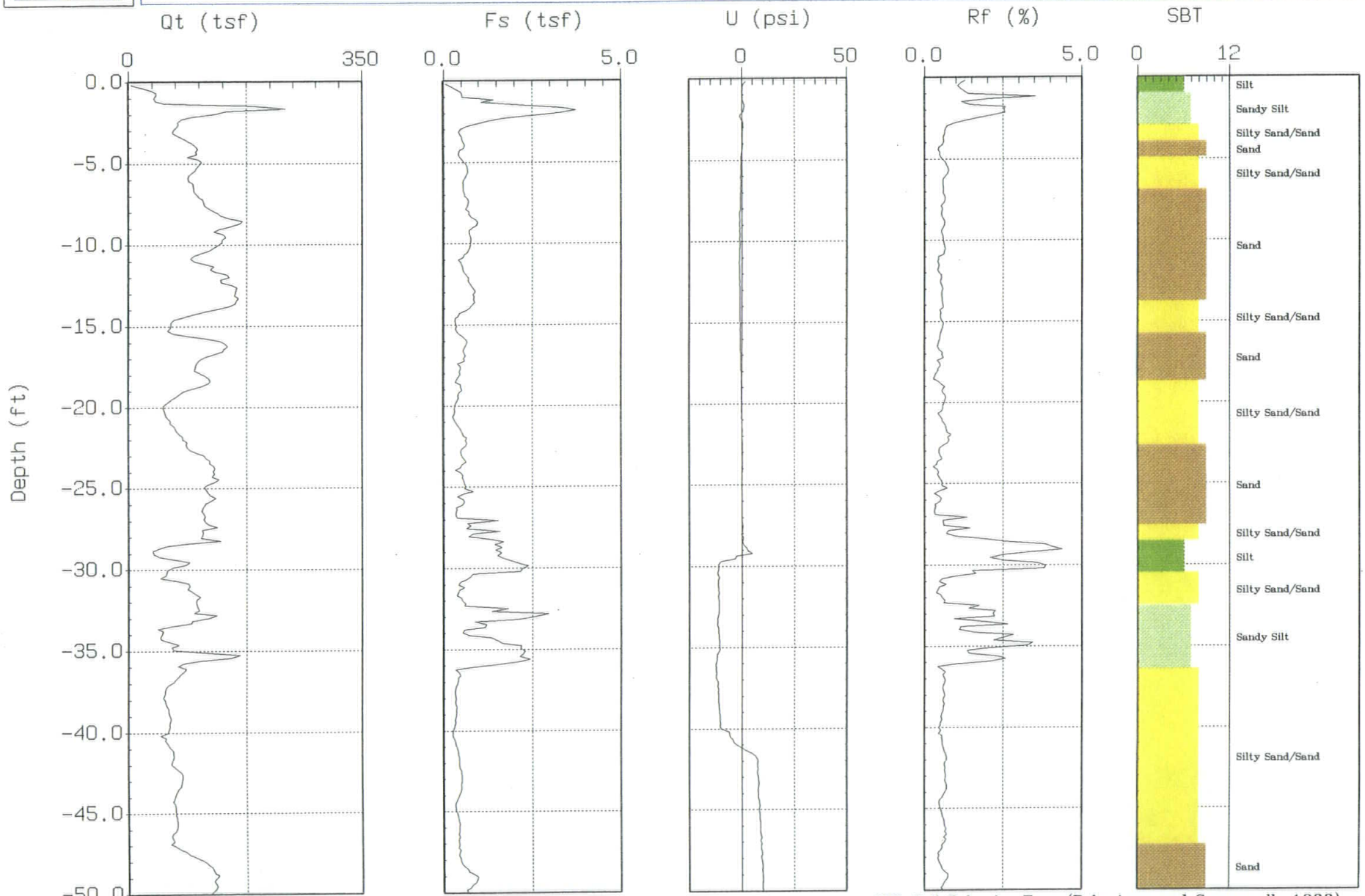
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-13

Geologist : JOSE CERCONE
Date : 11:18:97 10:32



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

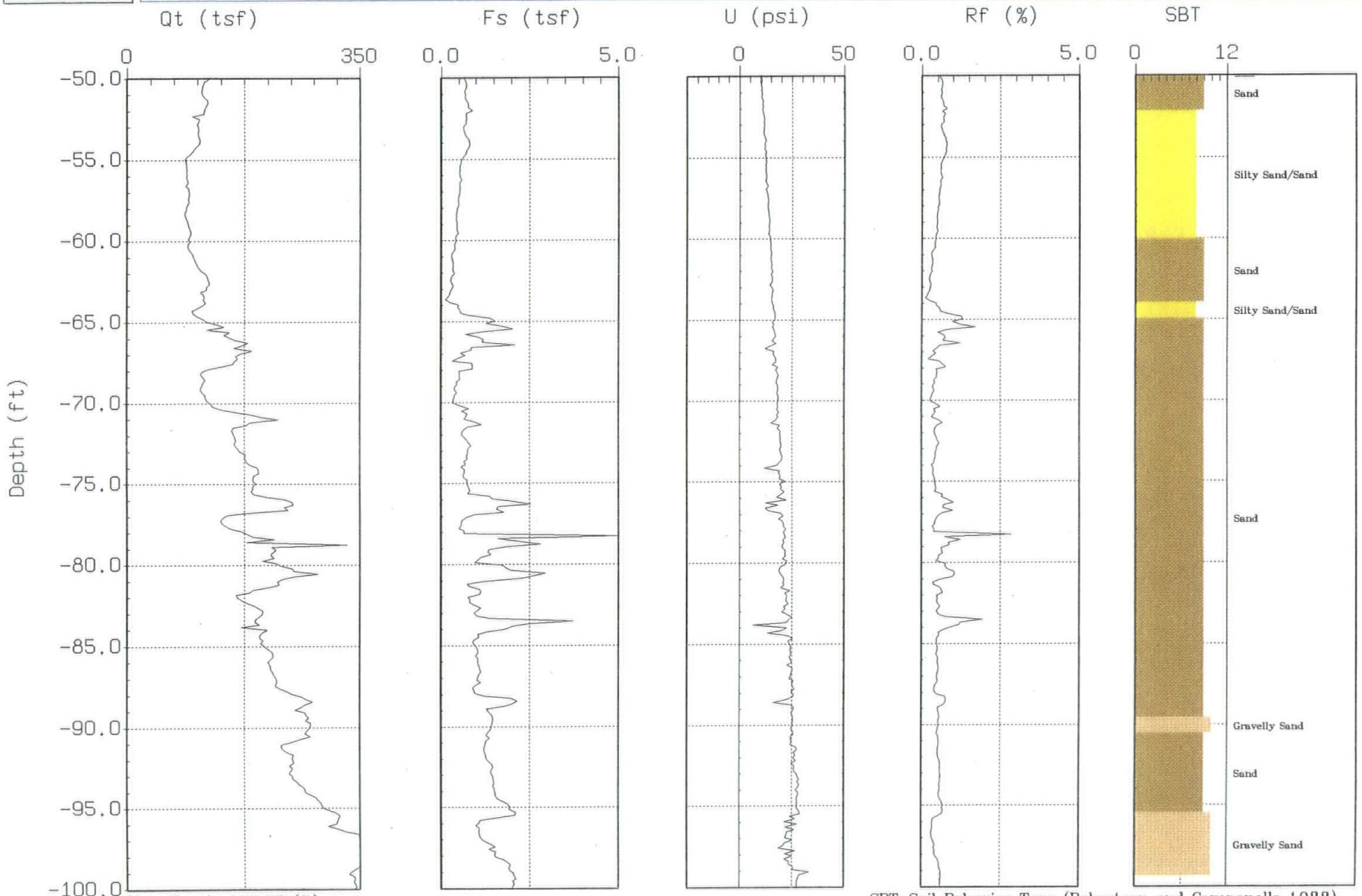
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-13

Geologist : JOSE CERCONE
Date : 11:18:97 10:32



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

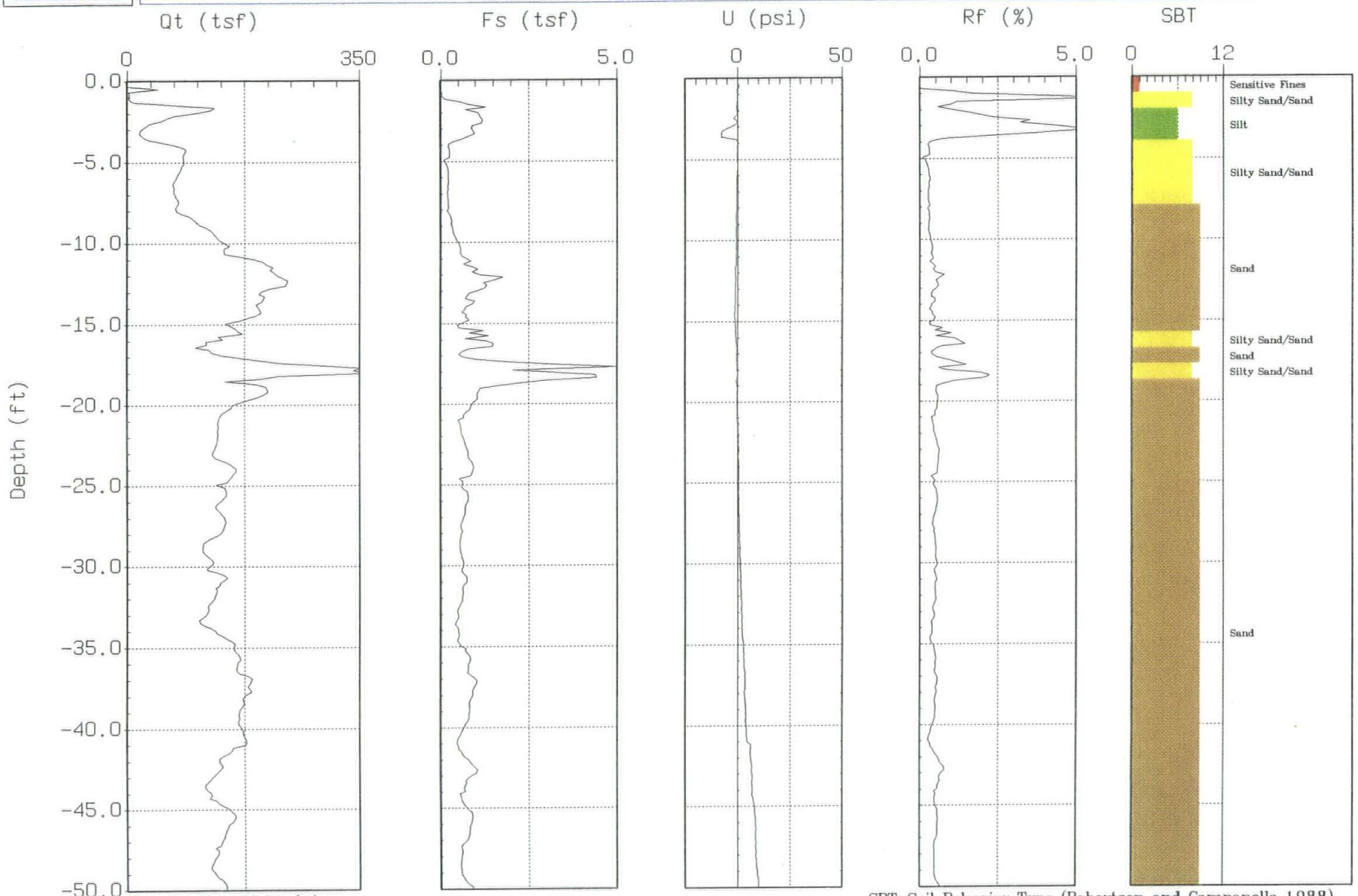
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-14

Geologist : JOSE CERCONE
Date : 11:18:97 11:45



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

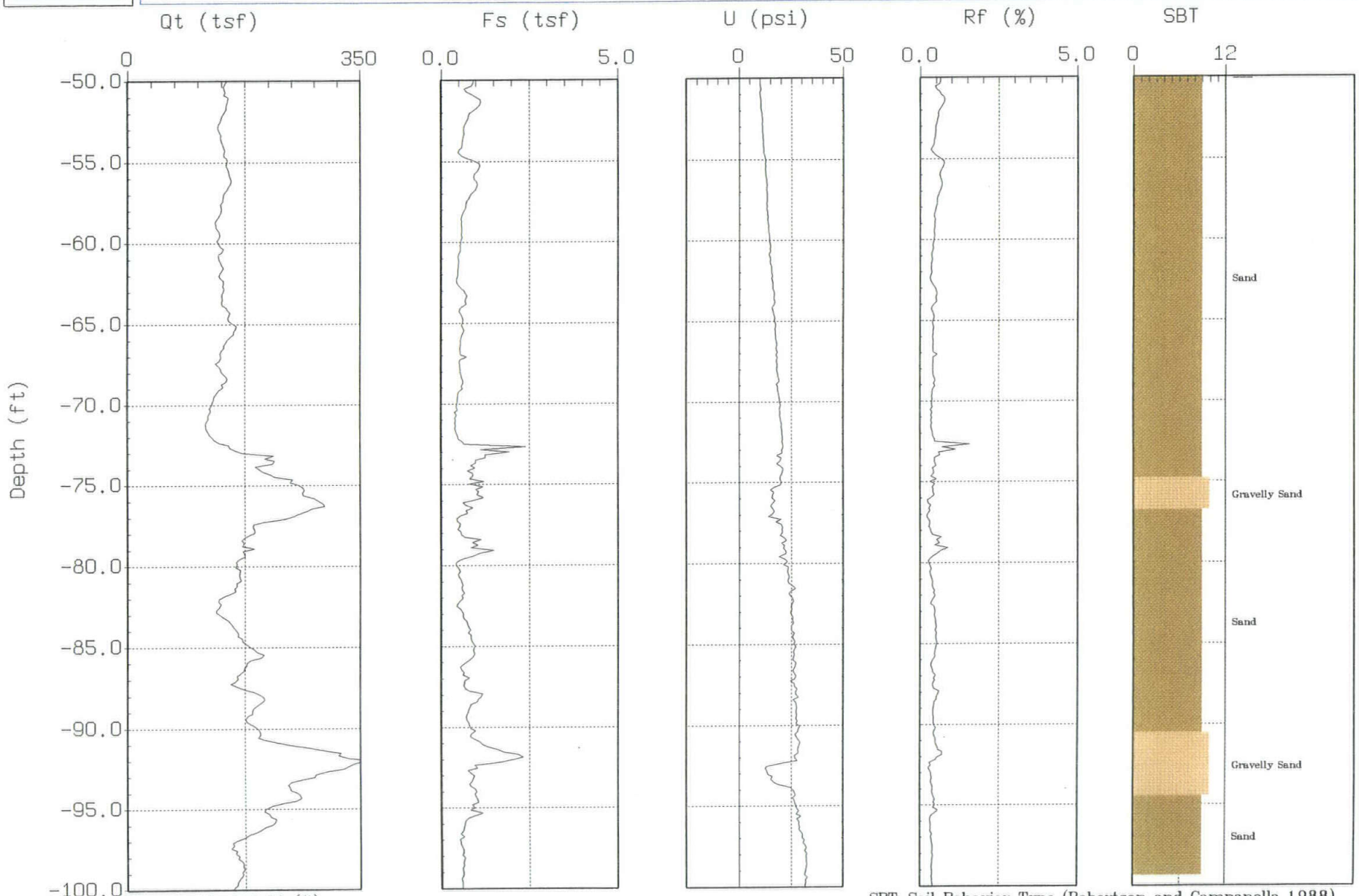
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-14

Geologist : JOSE CERCONE
Date : 11:18:97 11:45



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

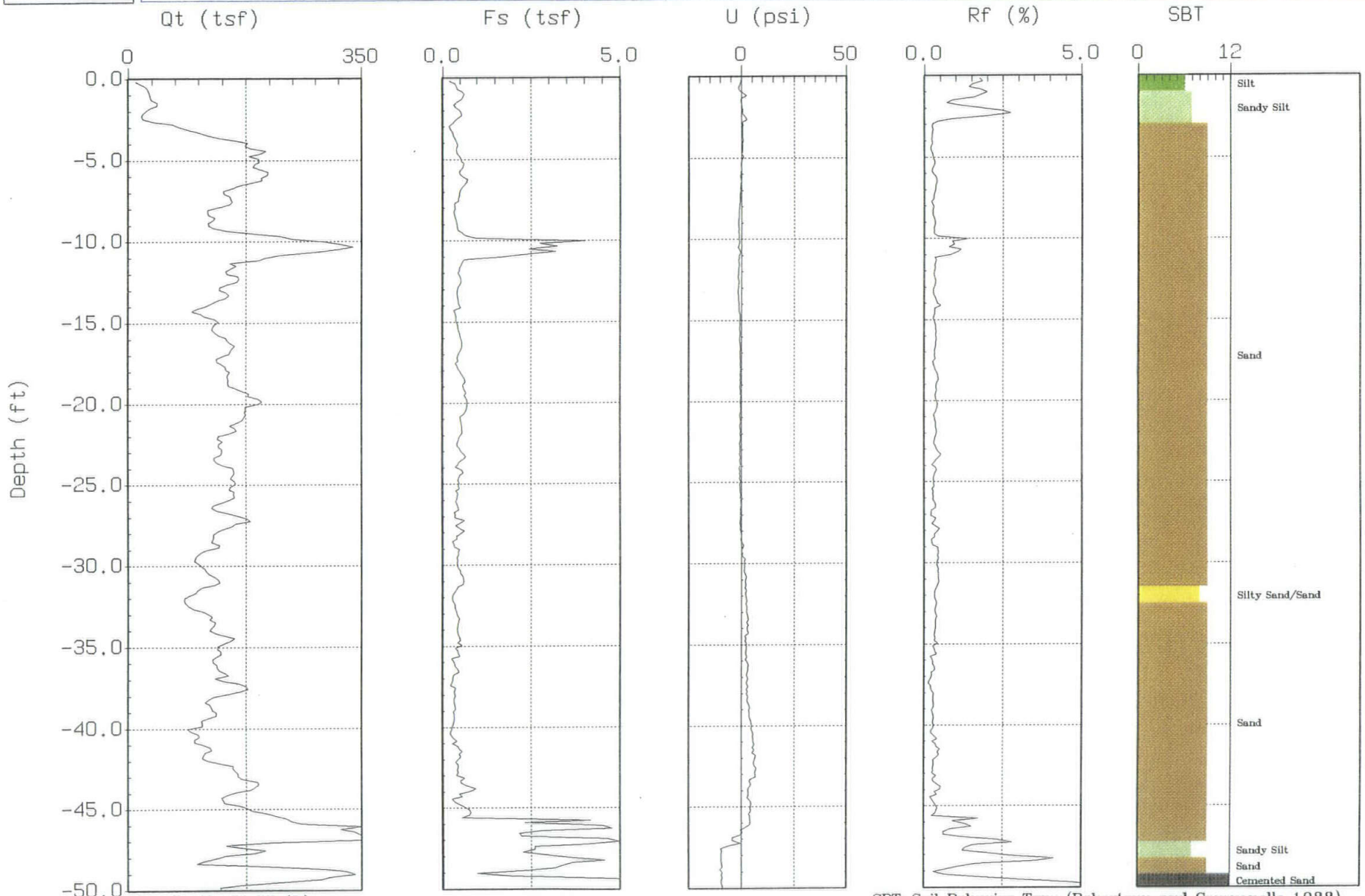
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-16

Geologist : JOSE CERCONE
Date : 11:18:97 07:32



Max. Depth: 61.02 (ft)

Depth Inc.: 0.164 (ft)

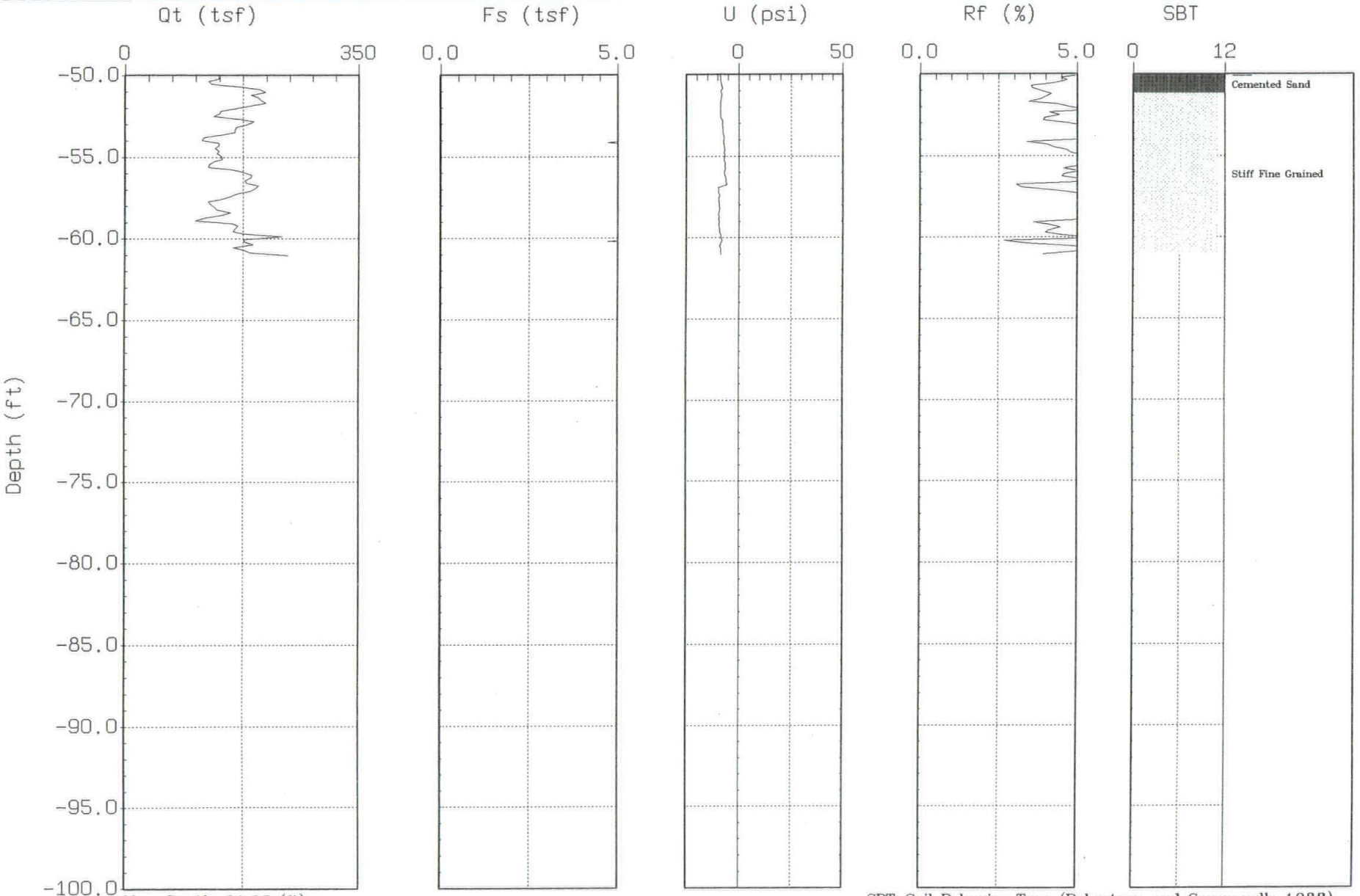
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-16

Geologist : JOSE CERCONE
Date : 11:18:97 07:32



Max. Depth: 61.02 (ft)

Depth Inc.: 0.164 (ft)

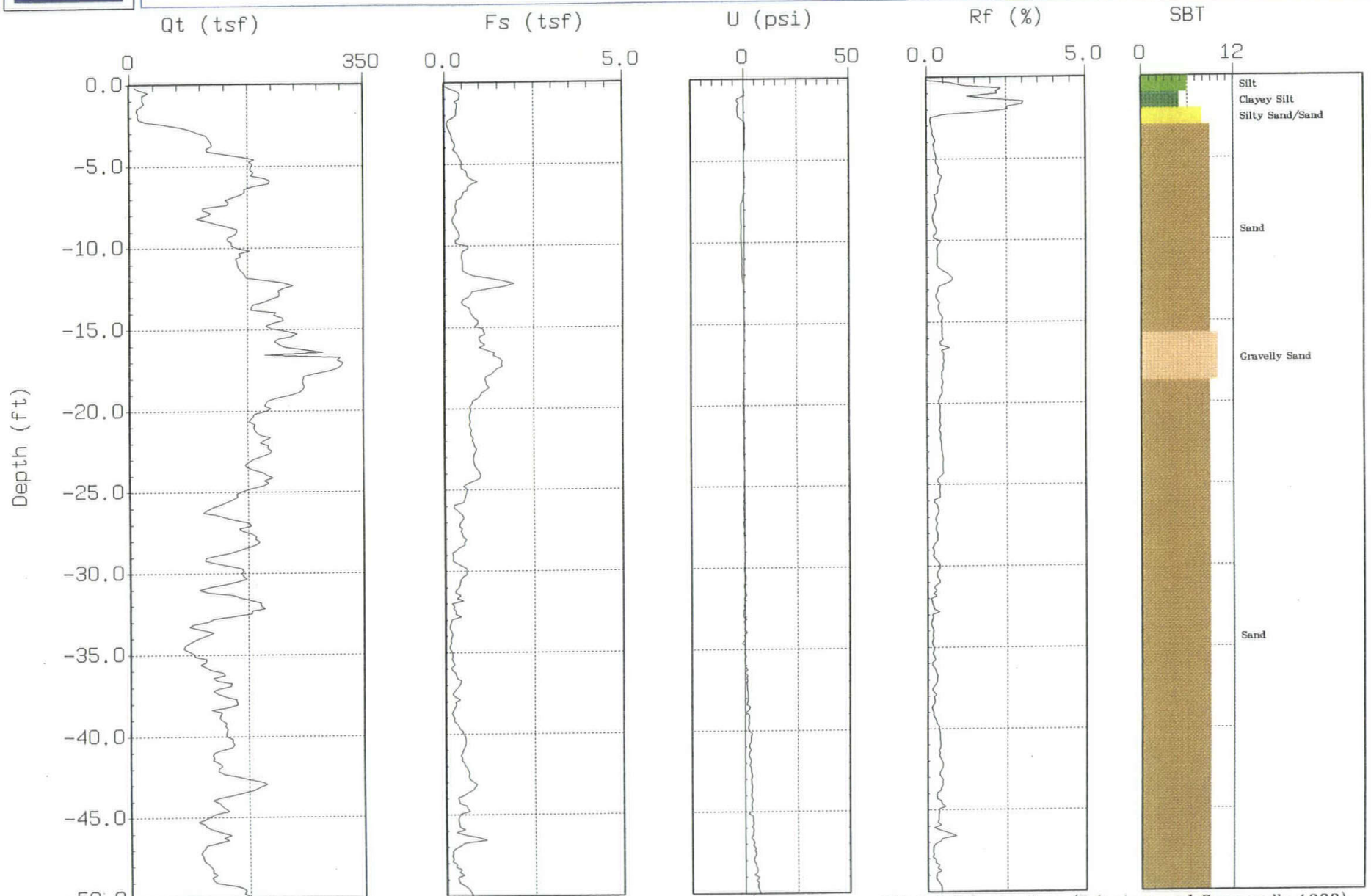
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-17

Geologist : JOSE CERCONE
Date : 11:18:97 08:13



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

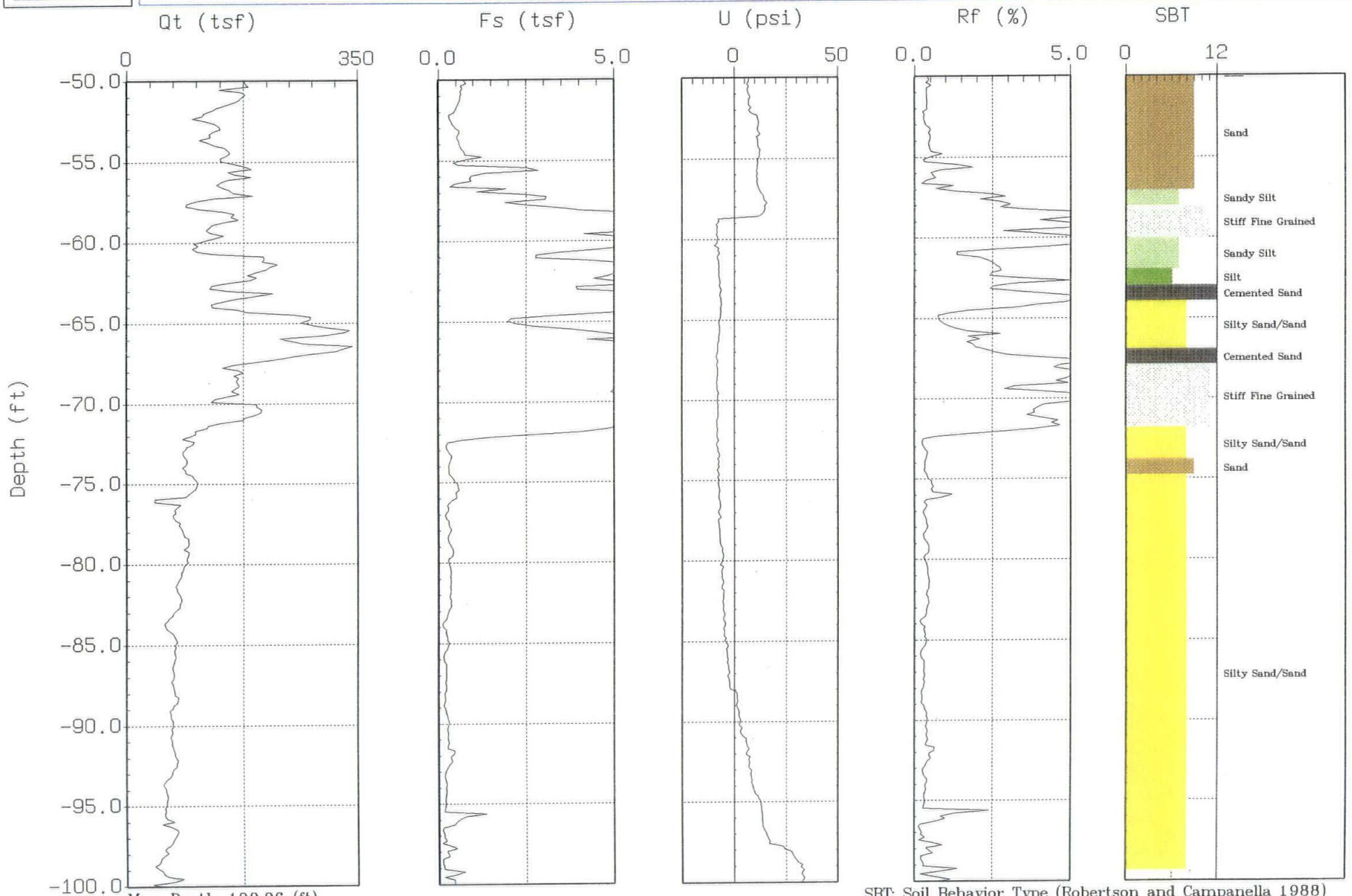
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-17

Geologist : JOSE CERCONE
Date : 11:18:97 08:13



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

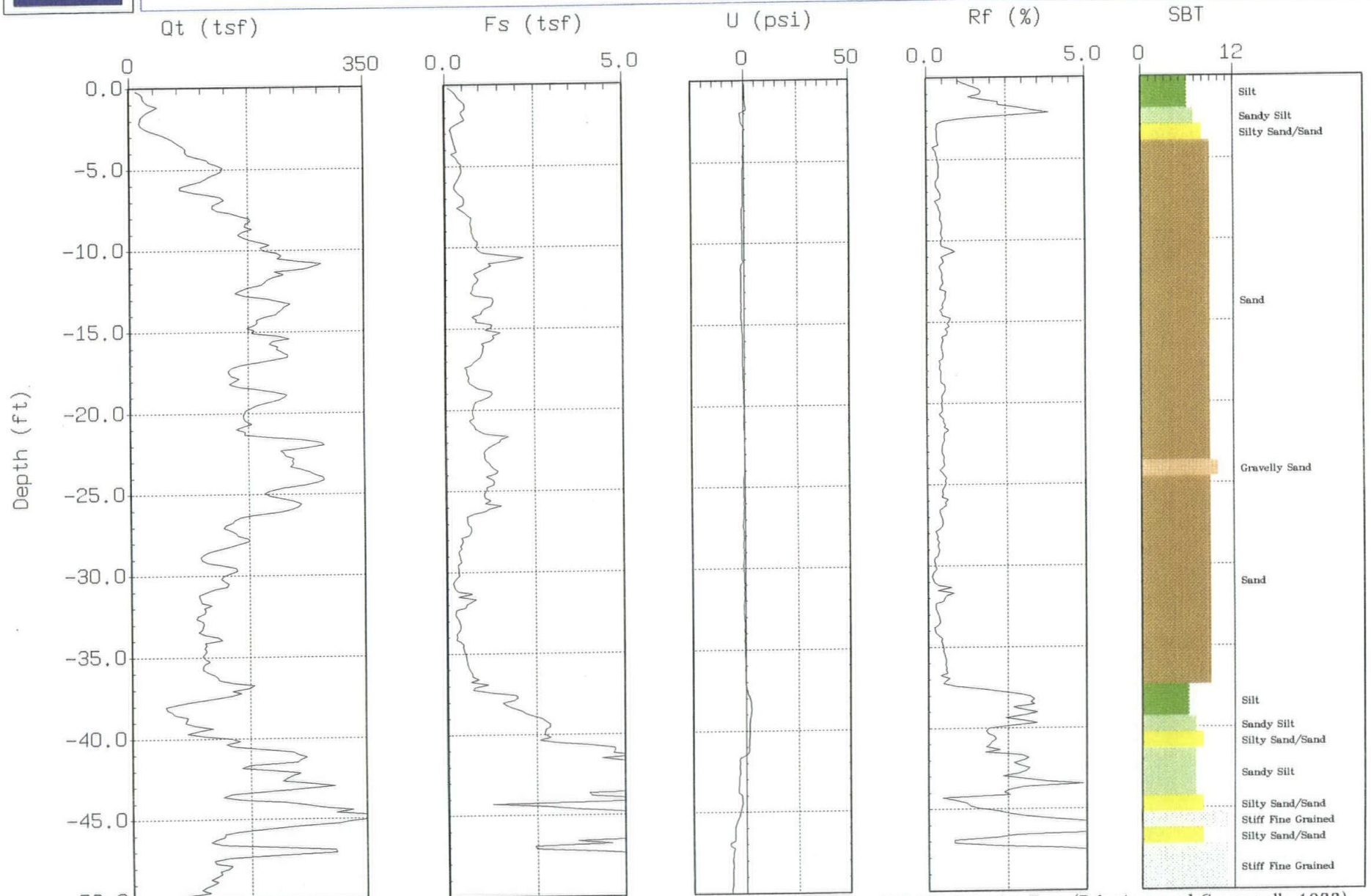
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-18

Geologist : JOSE CERCONE
Date : 11:18:97 09:22



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

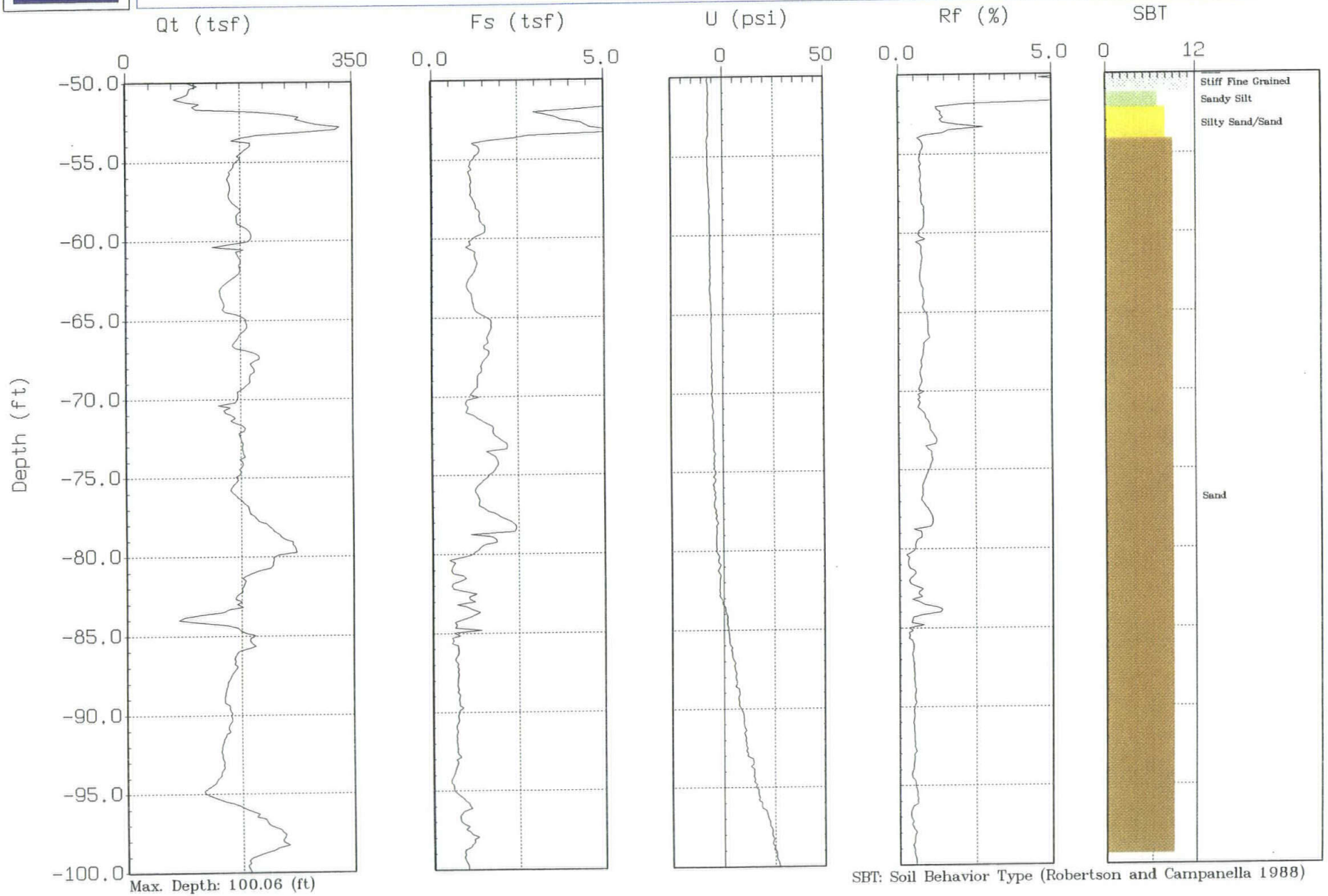
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-18

Geologist : JOSE CERCONE
Date : 11:18:97 09:22



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

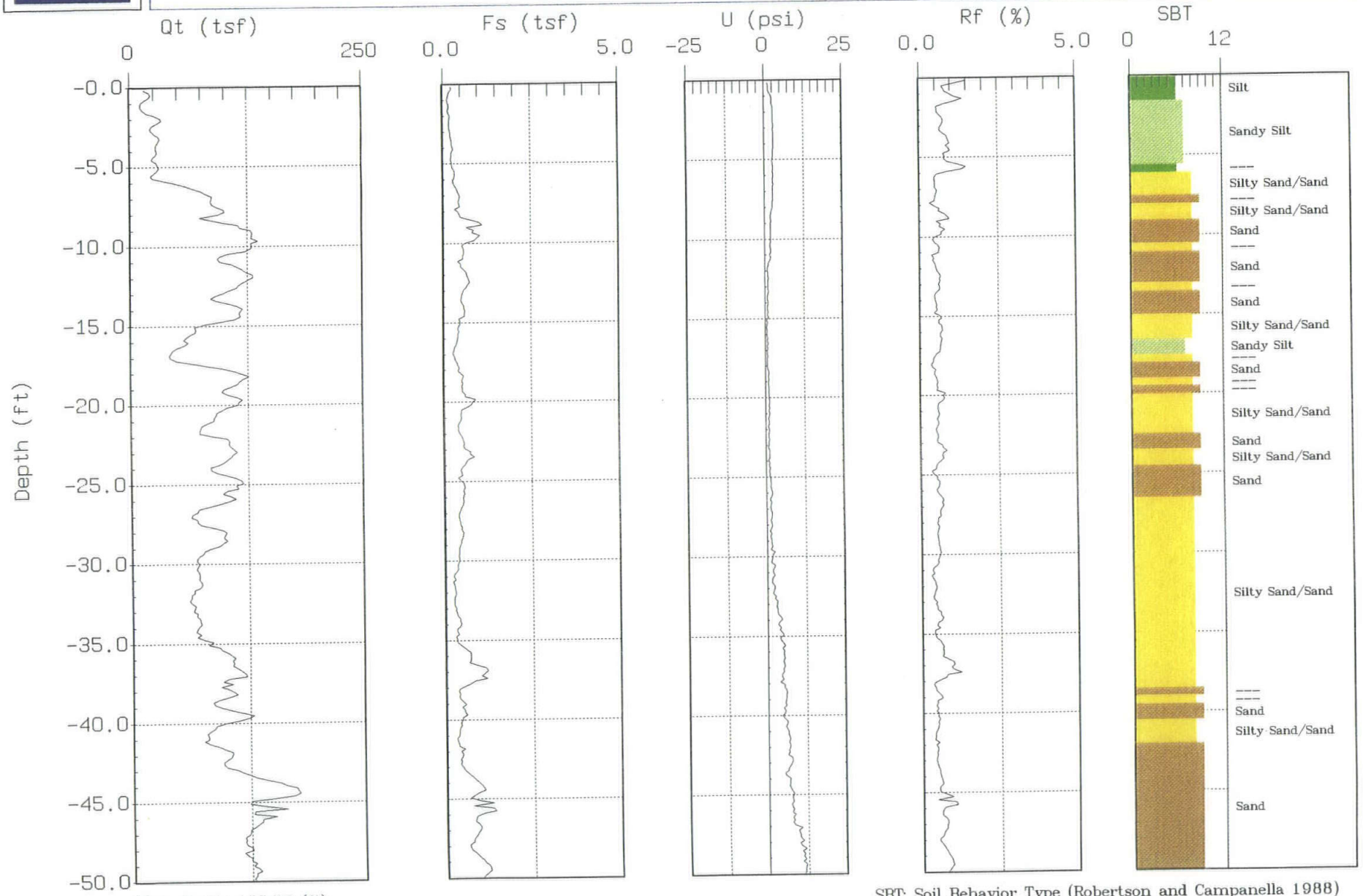
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-20A

Geologist : JOSE CERCONE
Date : 11:13:97 08:19



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

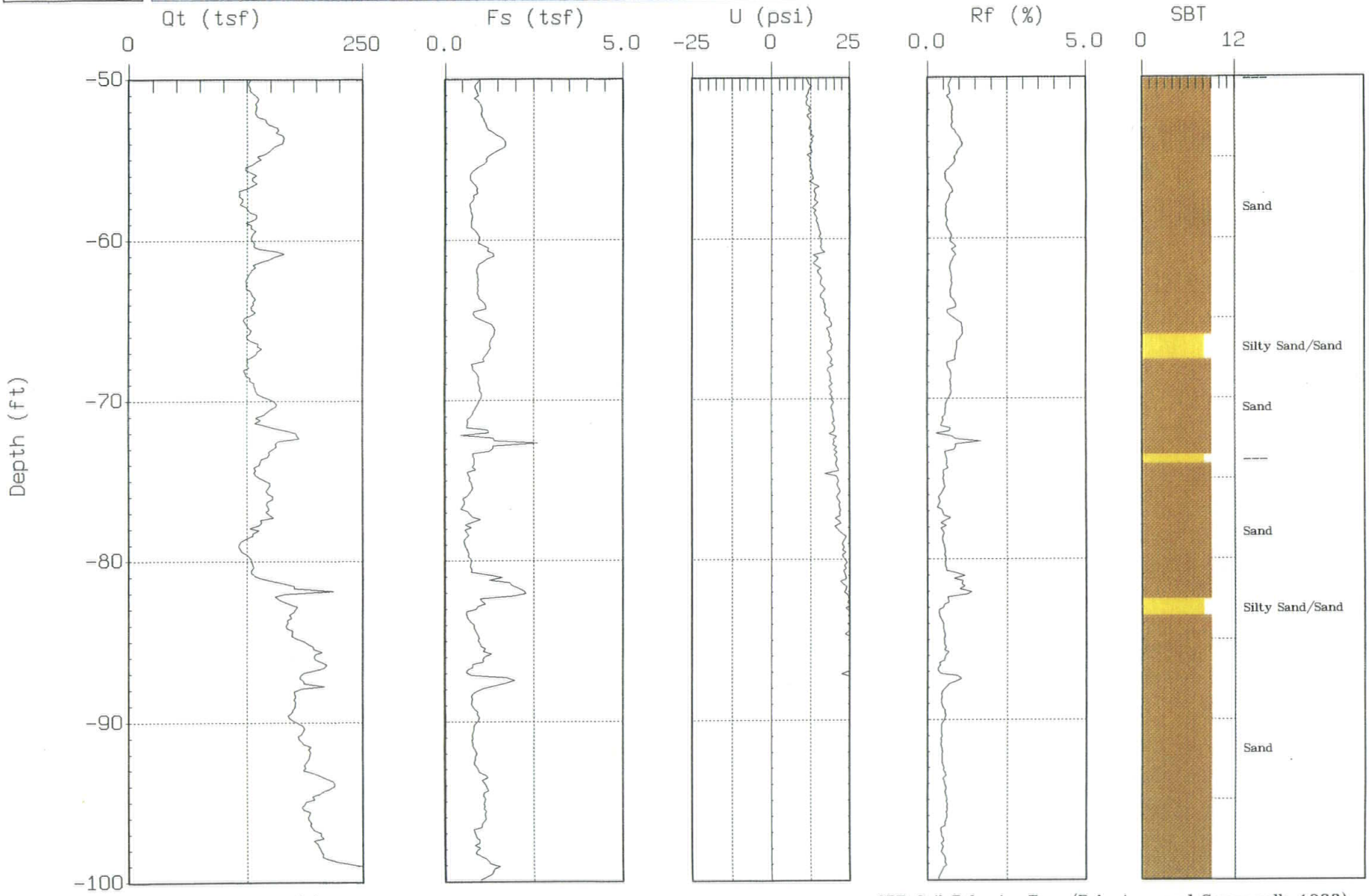
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-20A

Geologist : JOSE CERCONE
Date : 11:13:97 08:19



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

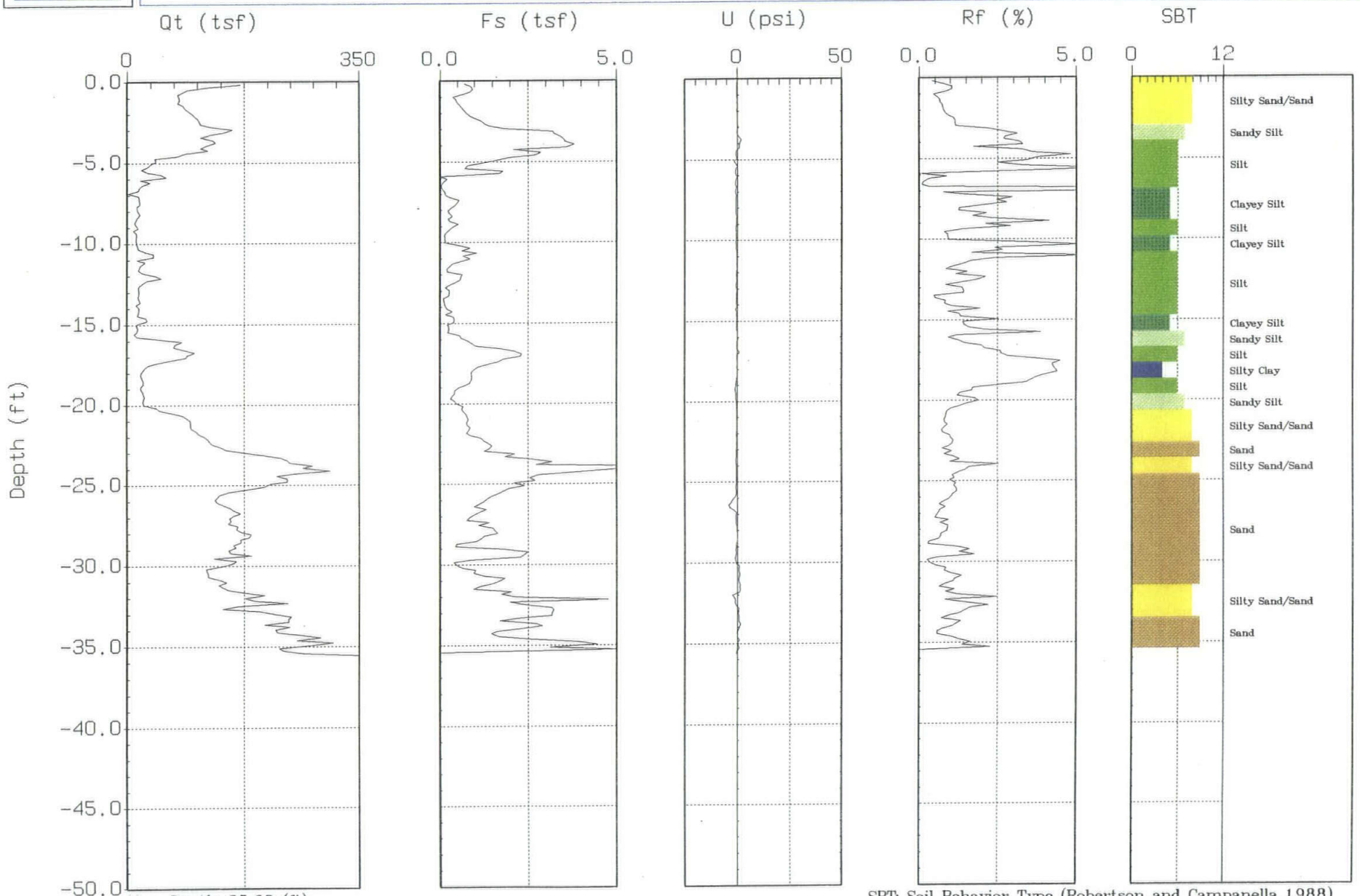
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-21

Geologist : JOSE CERCONE
Date : 11:17:97 14:24



Max. Depth: 35.60 (ft)

Depth Inc.: 0.164 (ft)

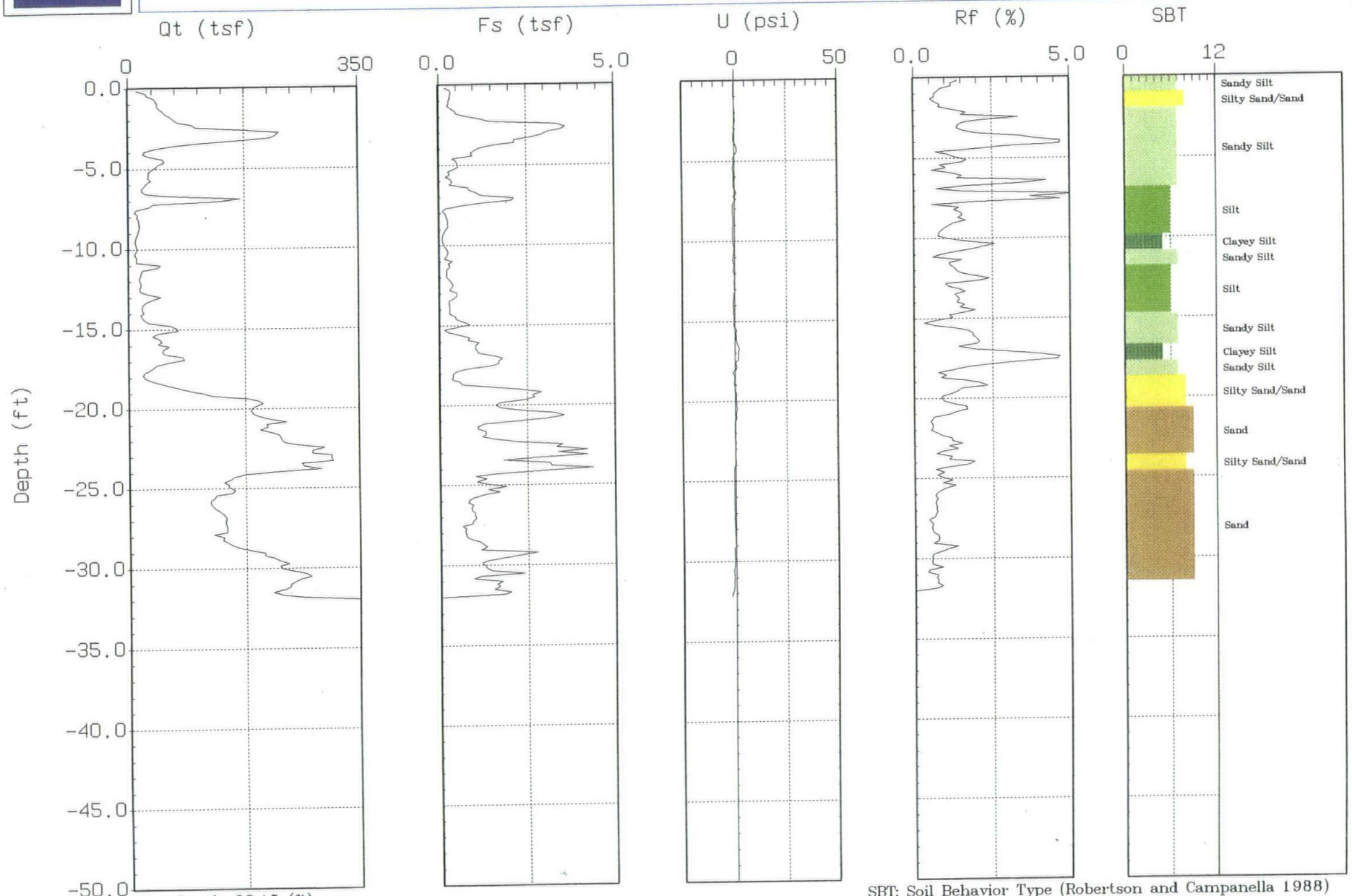
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-21A

Geologist : JOSE CERCONE
Date : 11:17:97 15:03



Max. Depth: 32.15 (ft)

Depth Inc.: 0.164 (ft)

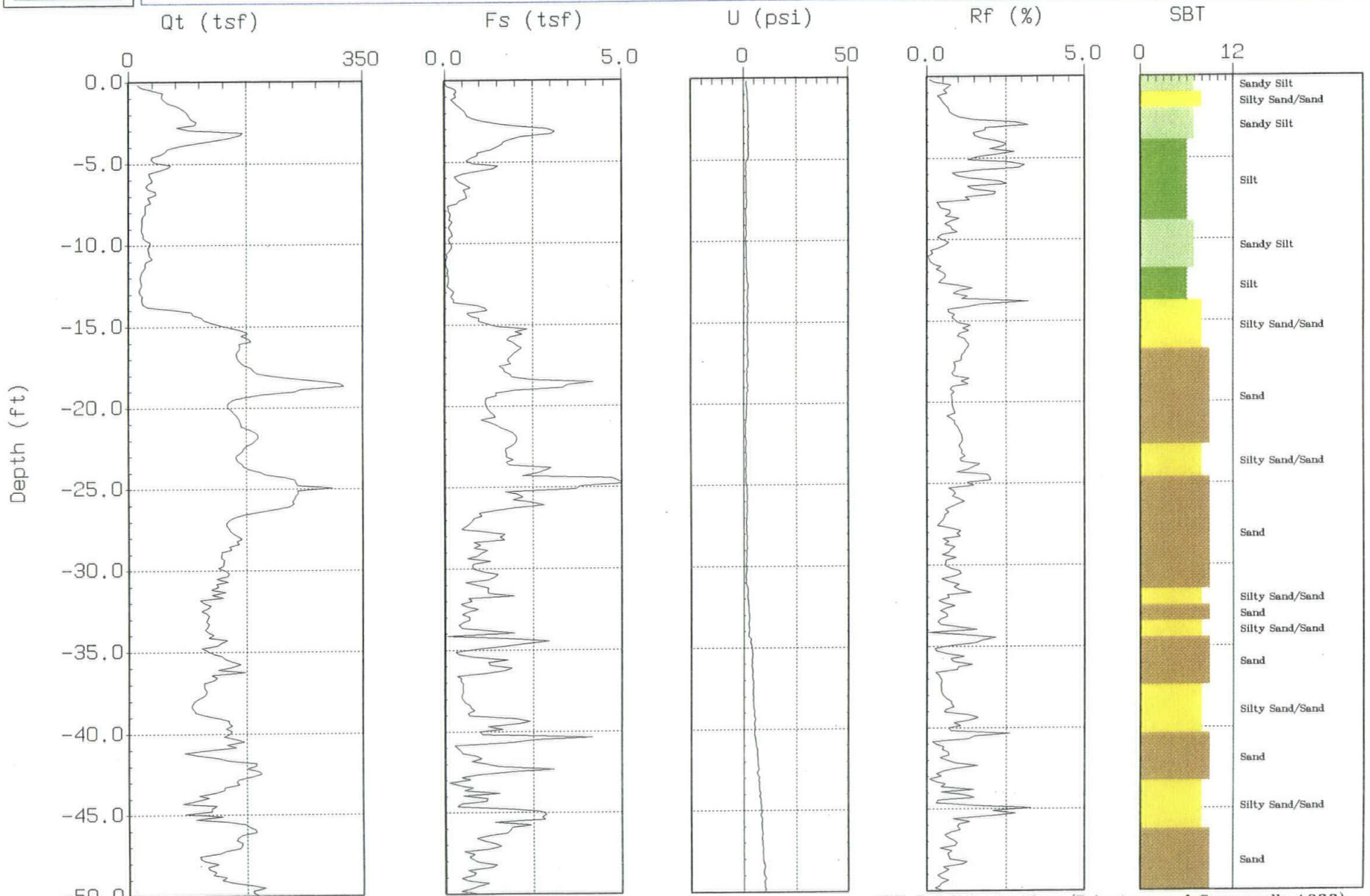
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-21B

Geologist : JOSE CERCONE
Date : 11:17:97 15:32



Max. Depth: 52.82 (ft)

Depth Inc.: 0.164 (ft)

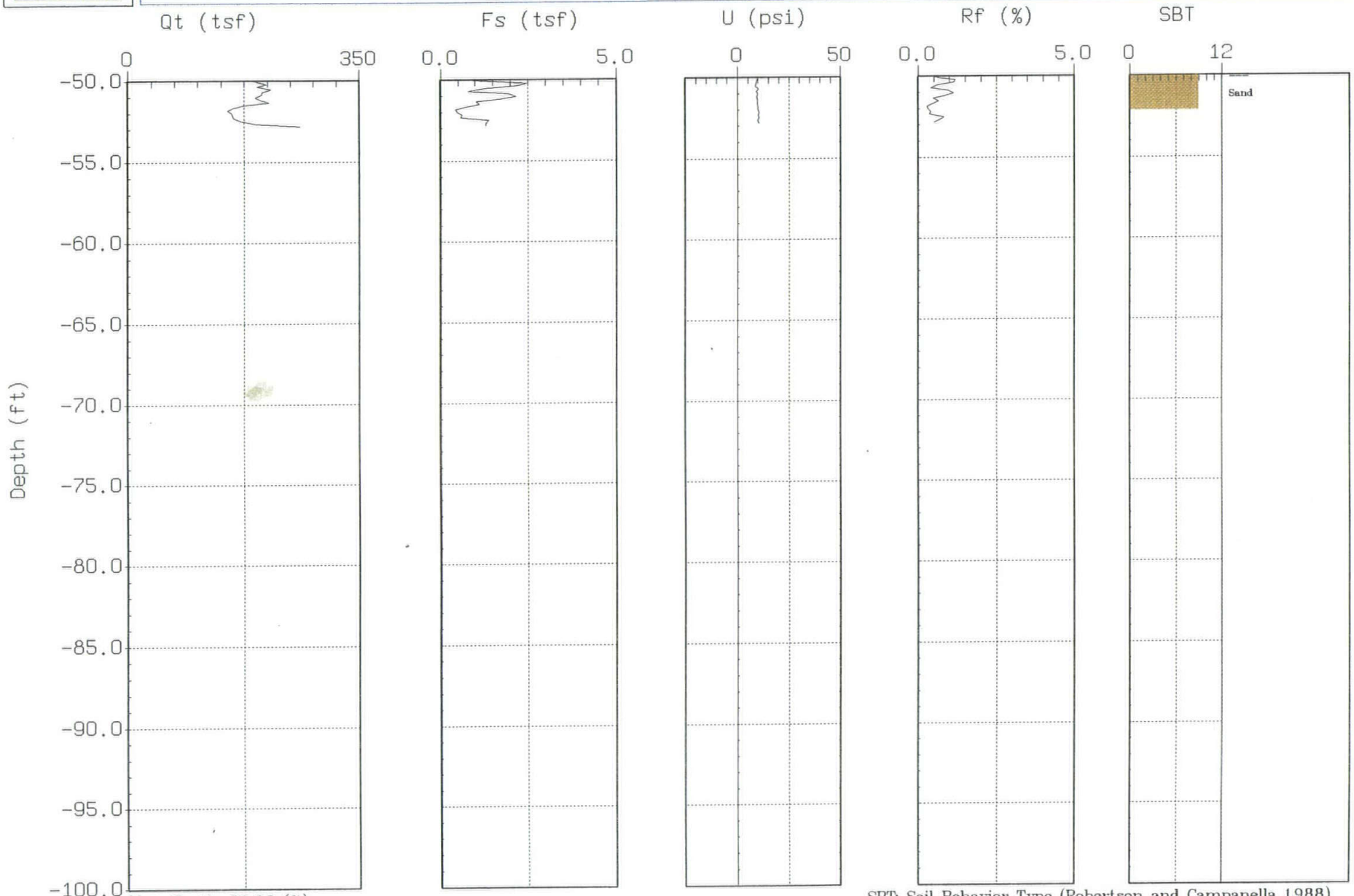
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-21B

Geologist : JOSE CERCONE
Date : 11:17:97 15:32



Max. Depth: 52.82 (ft)

Depth Inc.: 0.164 (ft)

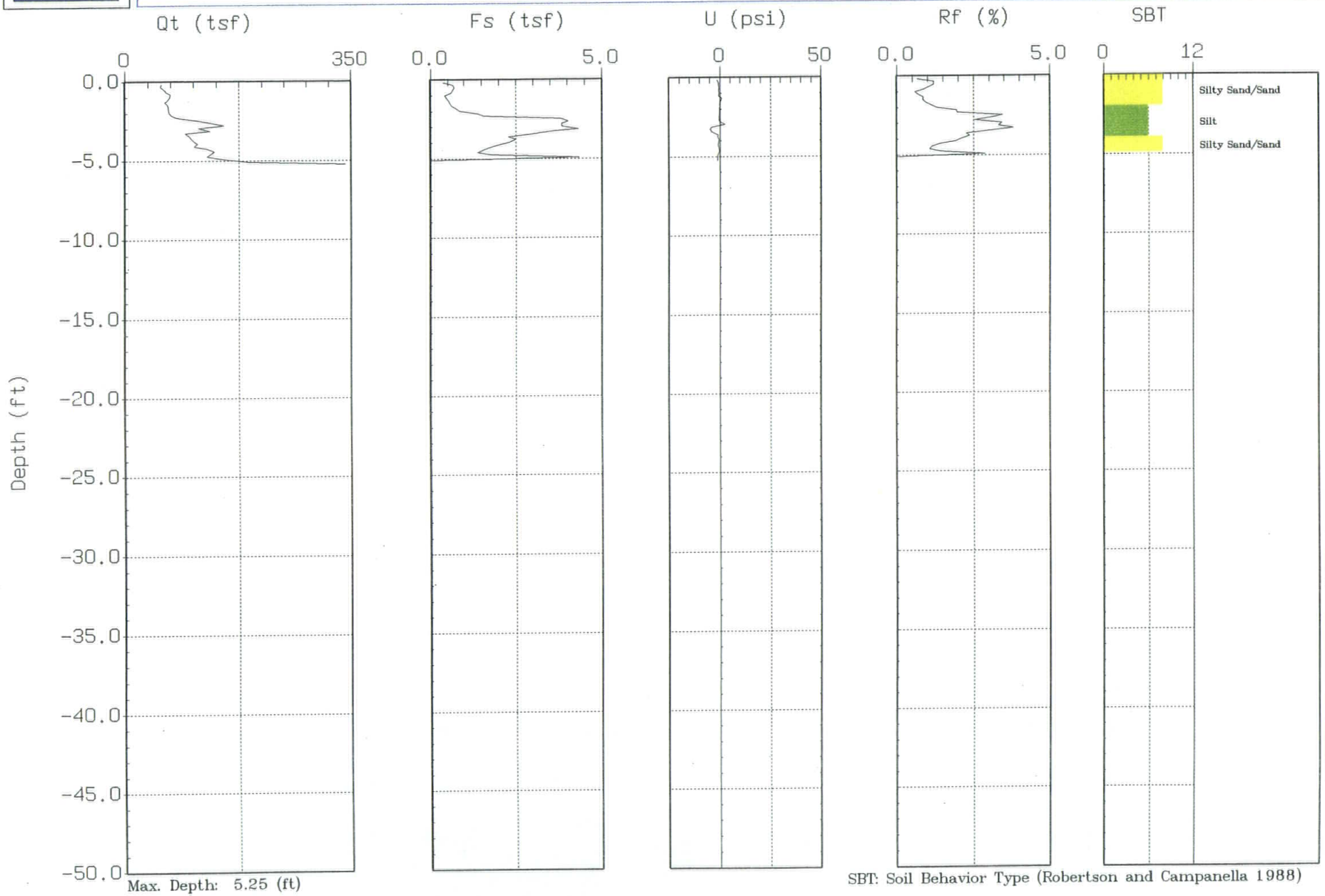
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-22

Geologist : JOSE CERCONE
Date : 11:17:97 13:17



Max. Depth: 5.25 (ft)

Depth Inc.: 0.164 (ft)

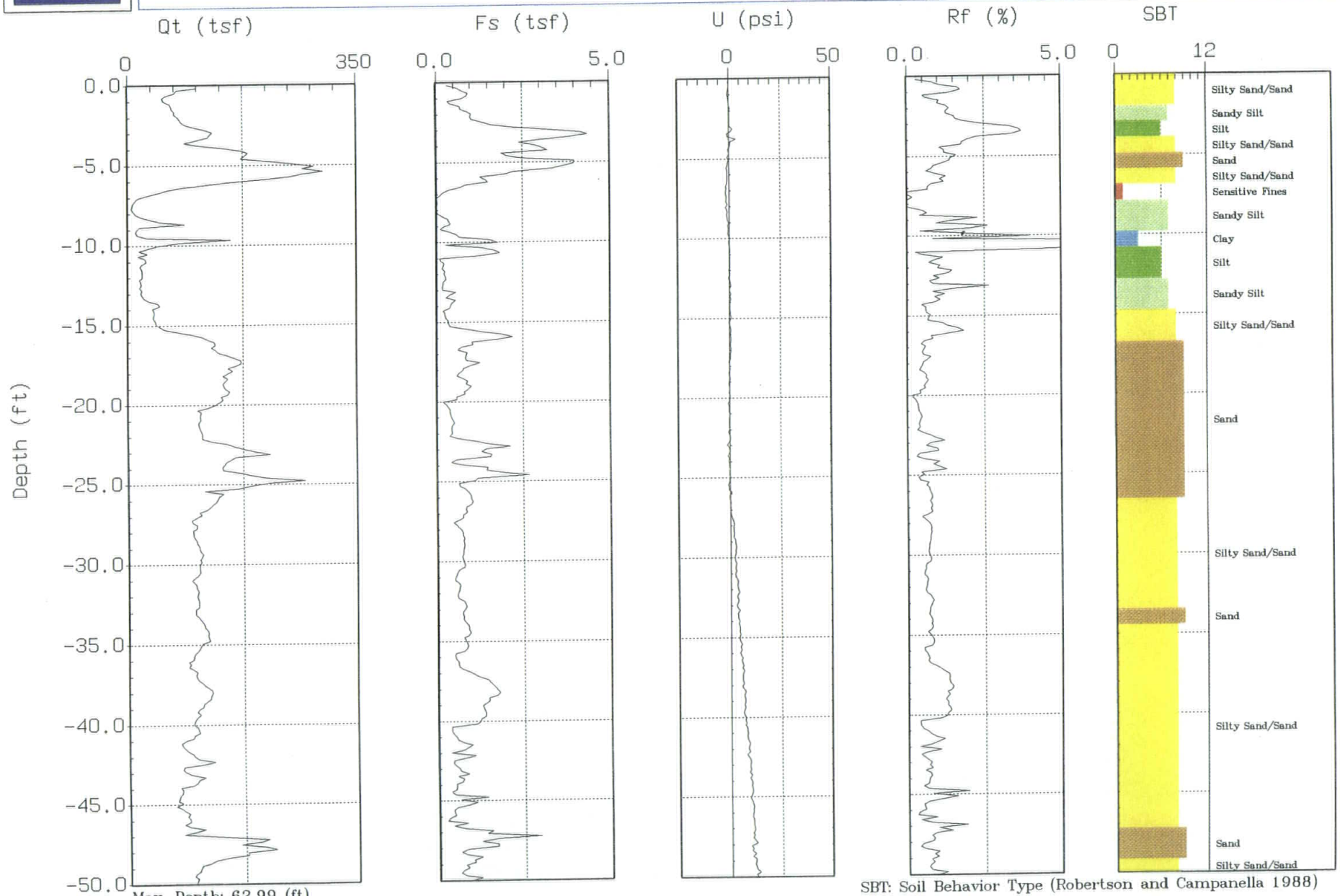
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-22

Geologist : JOSE CERCONE
Date : 11:17:97 13:30



Max. Depth: 62.99 (ft)

Depth Inc.: 0.164 (ft)

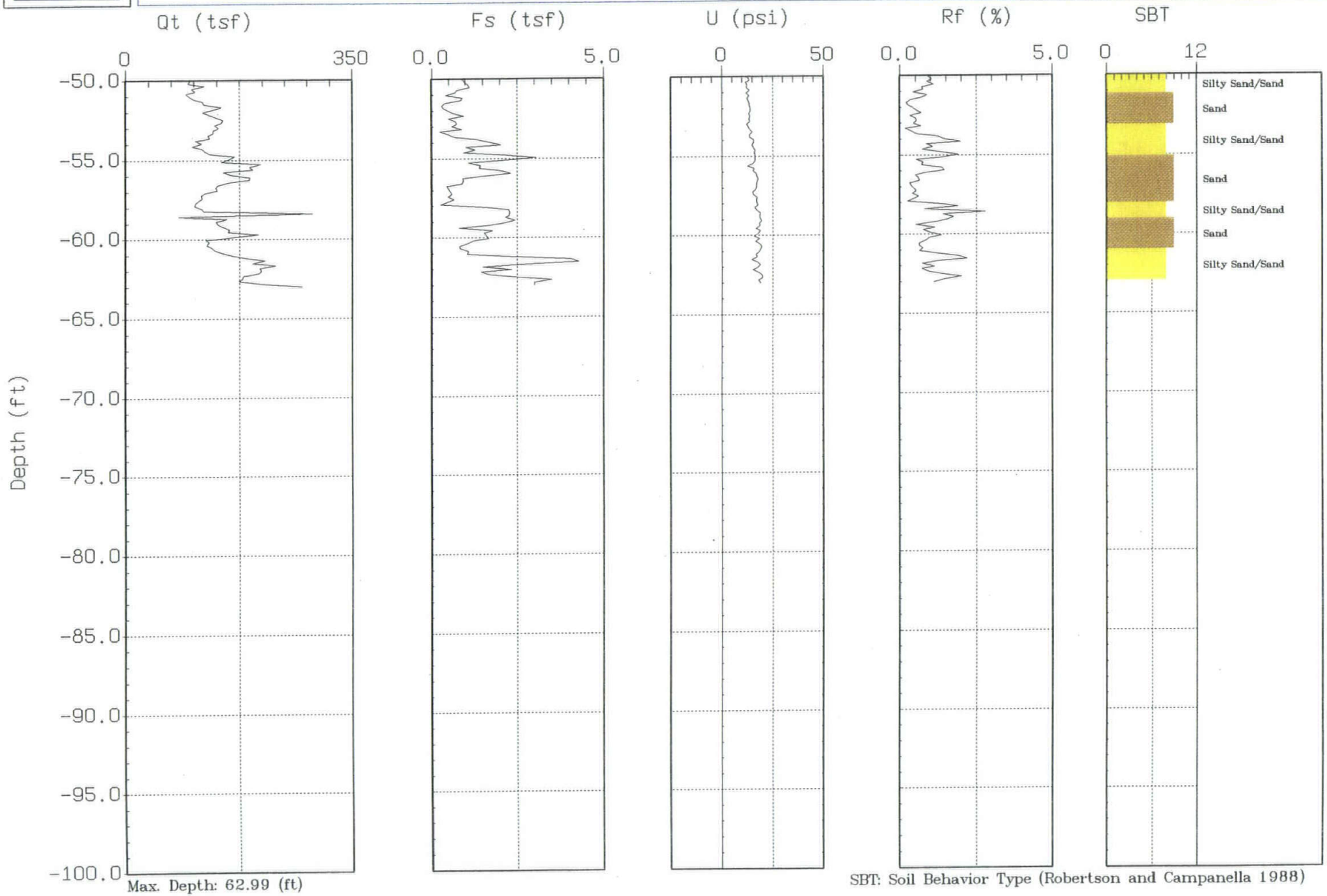
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-22

Geologist : JOSE CERCONE
Date : 11:17:97 13:30



Max. Depth: 62.99 (ft)

Depth Inc.: 0.164 (ft)

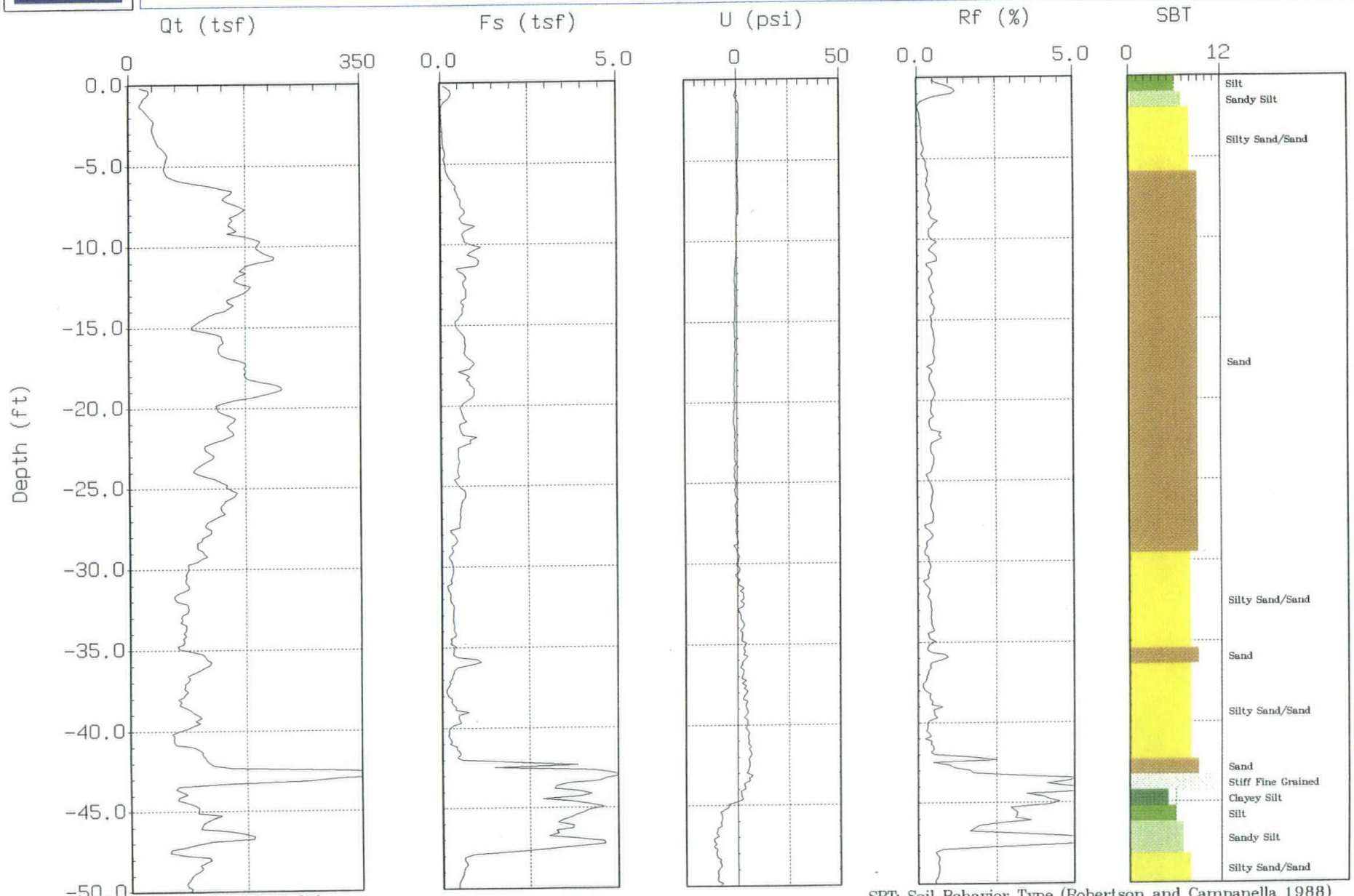
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-24A

Geologist : JOSE CERCONE
Date : 11:13:97 09:43



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

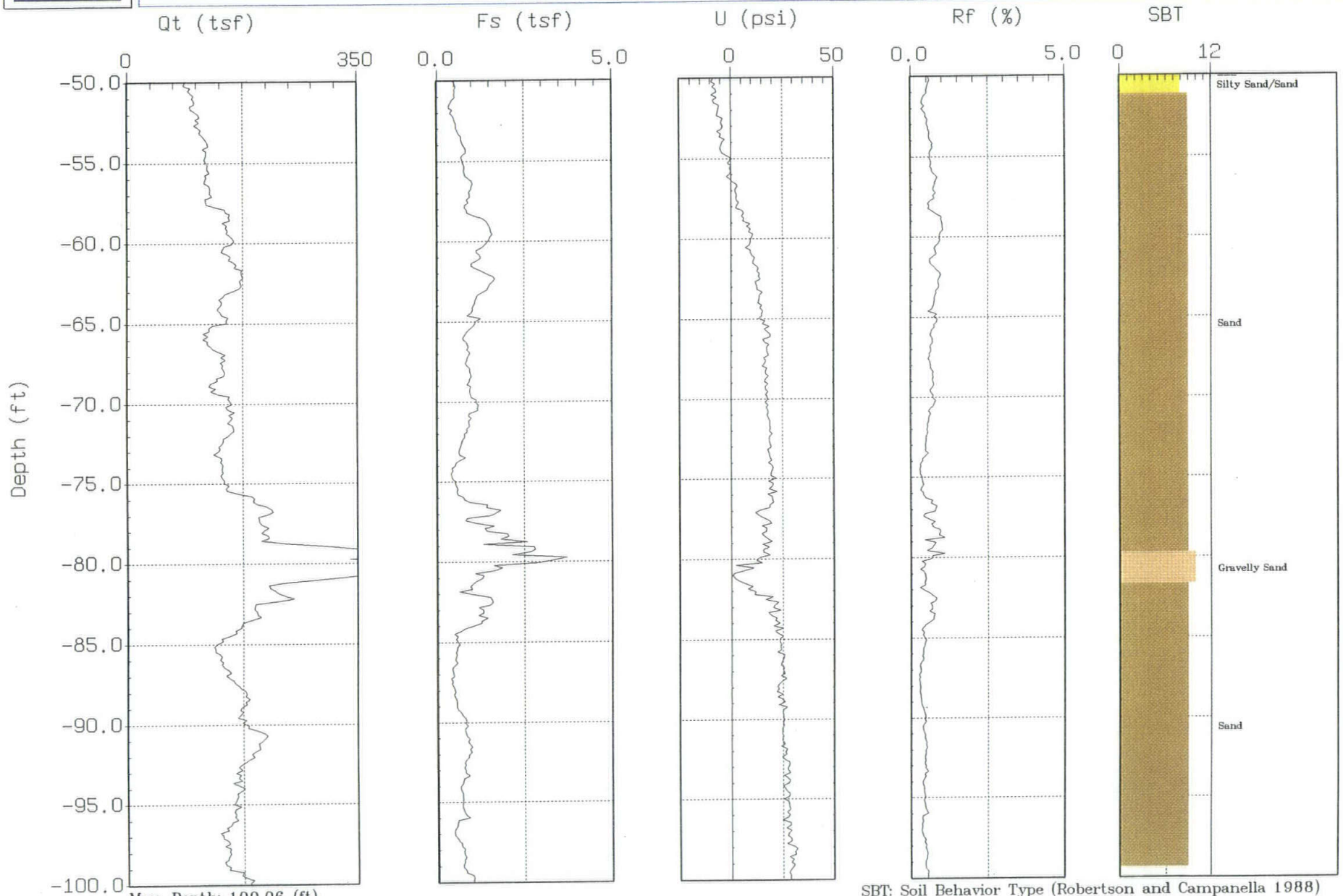
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-24A

Geologist : JOSE CERCONE
Date : 11:13:97 09:43



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

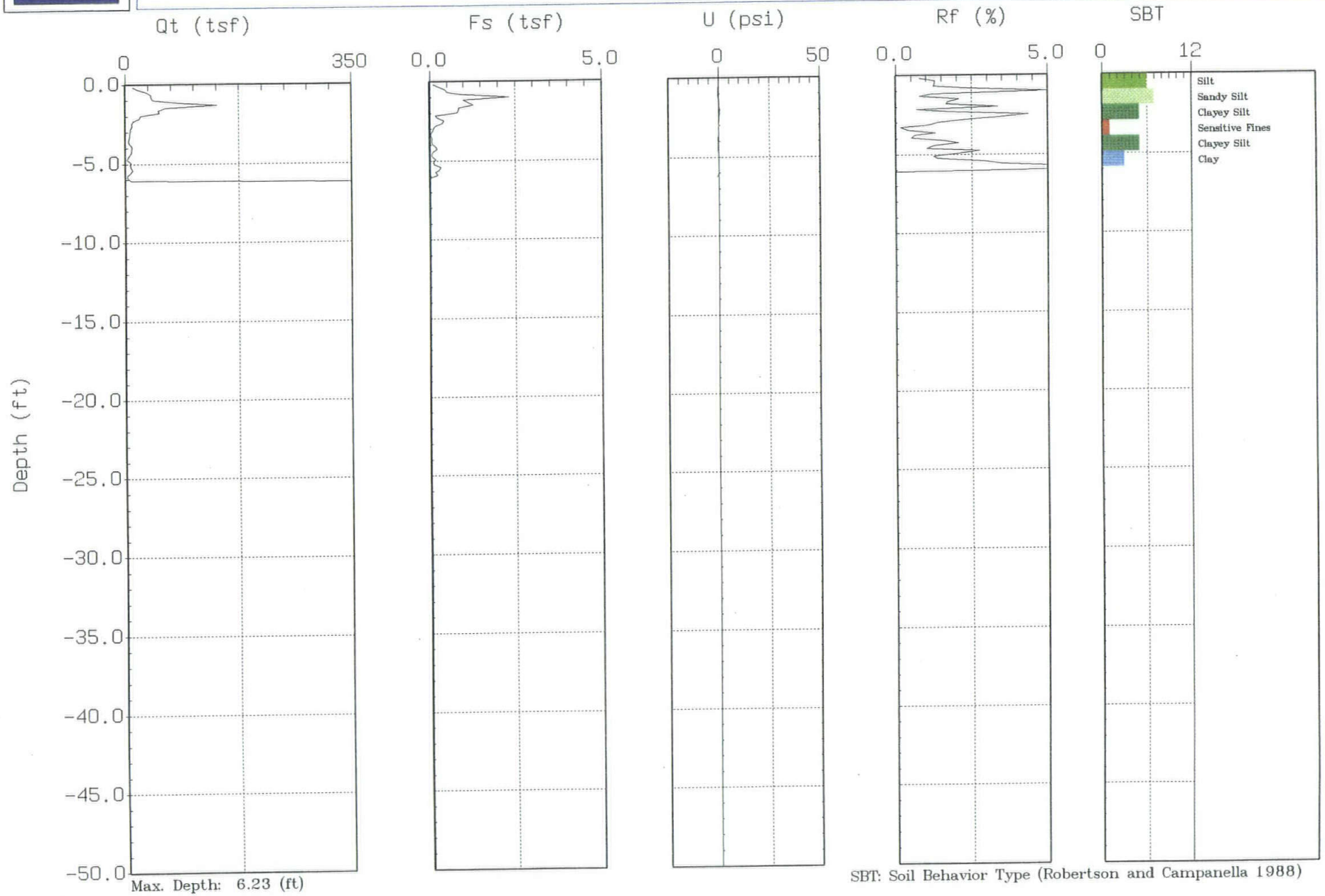
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-25A

Geologist : JOSE CERCONE
Date : 10:30:97 15:34



Max. Depth: 6.23 (ft)

Depth Inc.: 0.164 (ft)

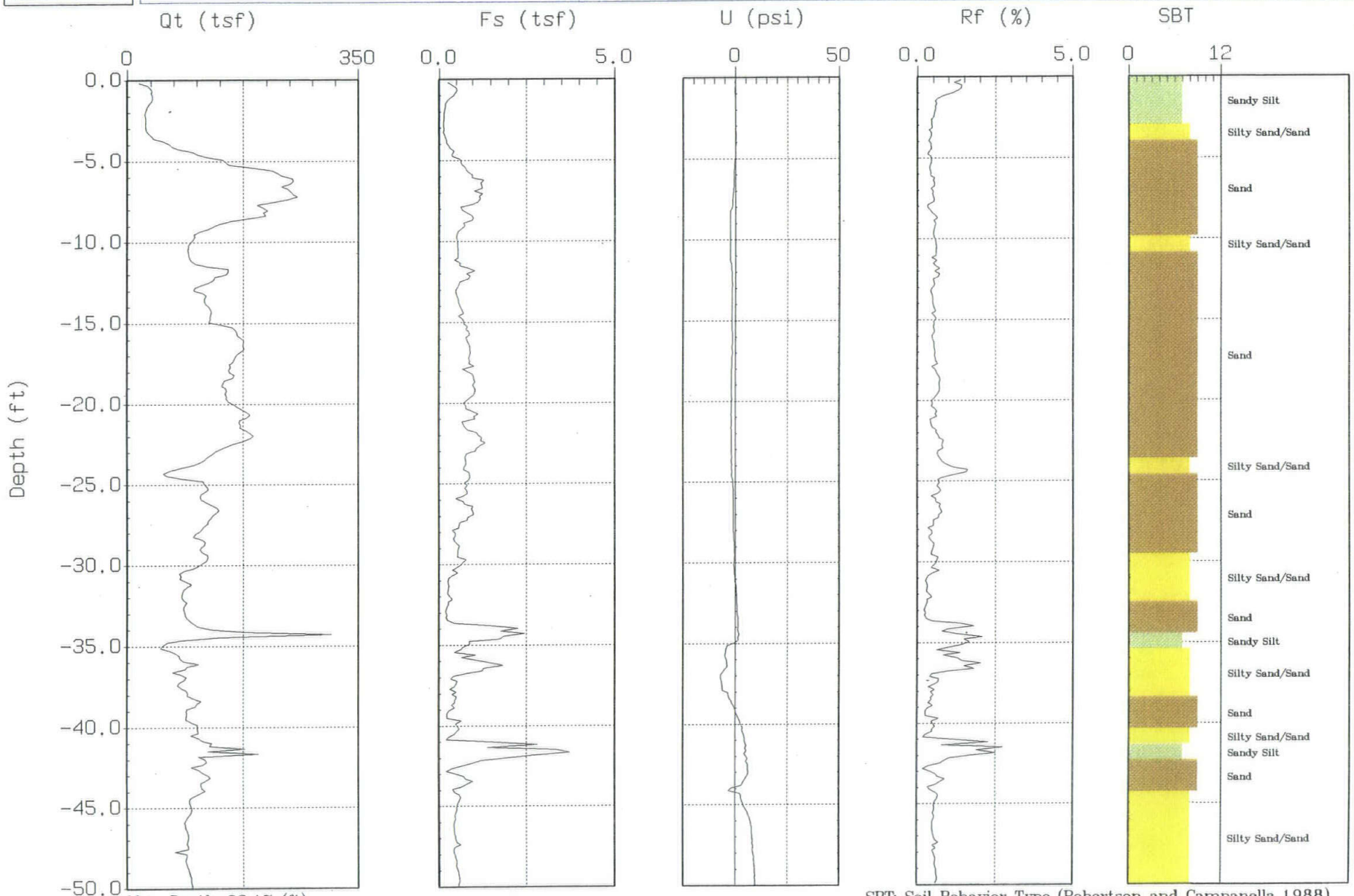
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-25B

Geologist : JOSE CERCONE
Date : 10:30:97 15:46



Max. Depth: 93.17 (ft)

Depth Inc.: 0.164 (ft)

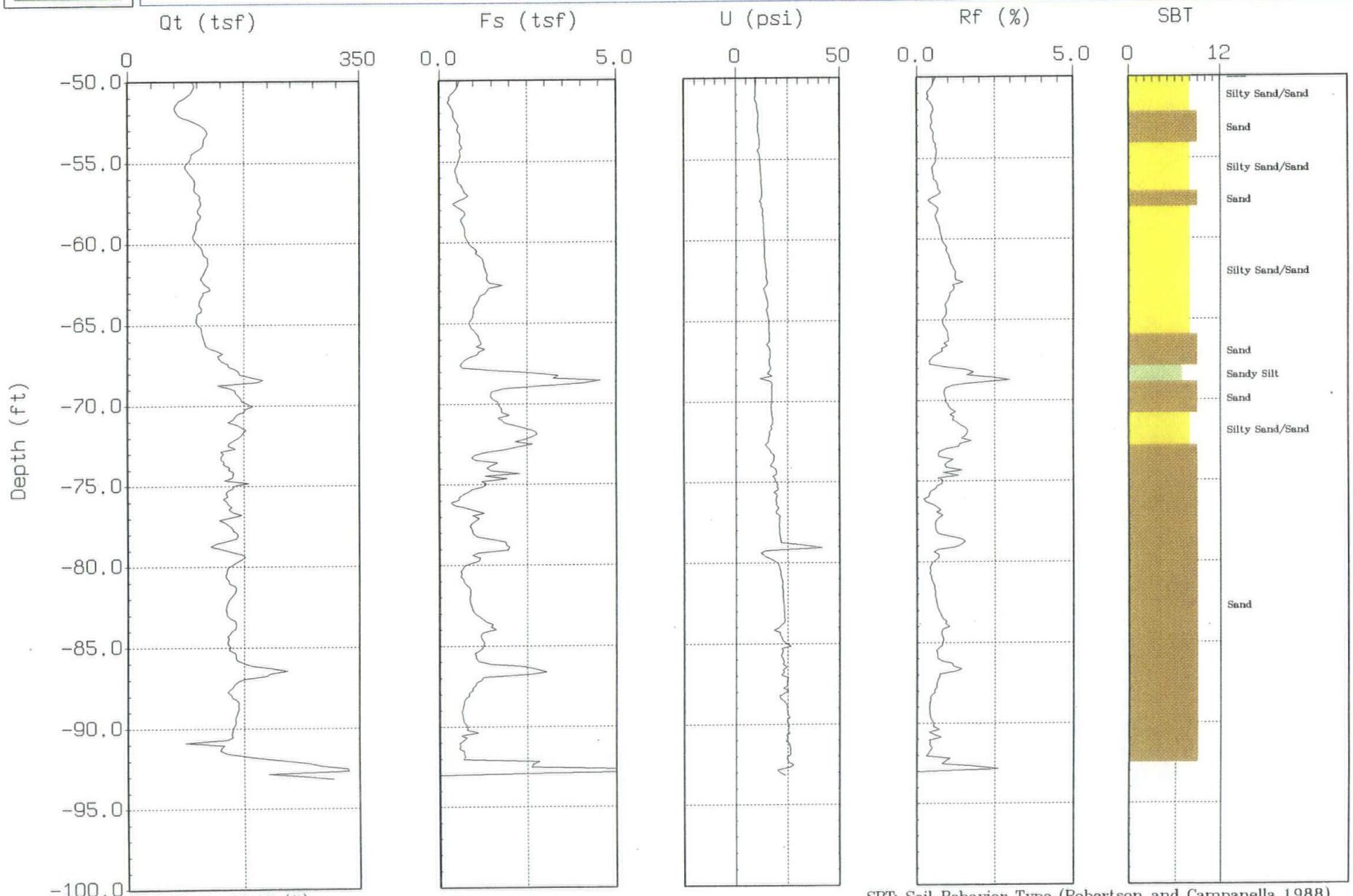
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W2-25B

Geologist : JOSE CERCONE
Date : 10:30:97 15:46



Max. Depth: 93.17 (ft)

Depth Inc.: 0.164 (ft)

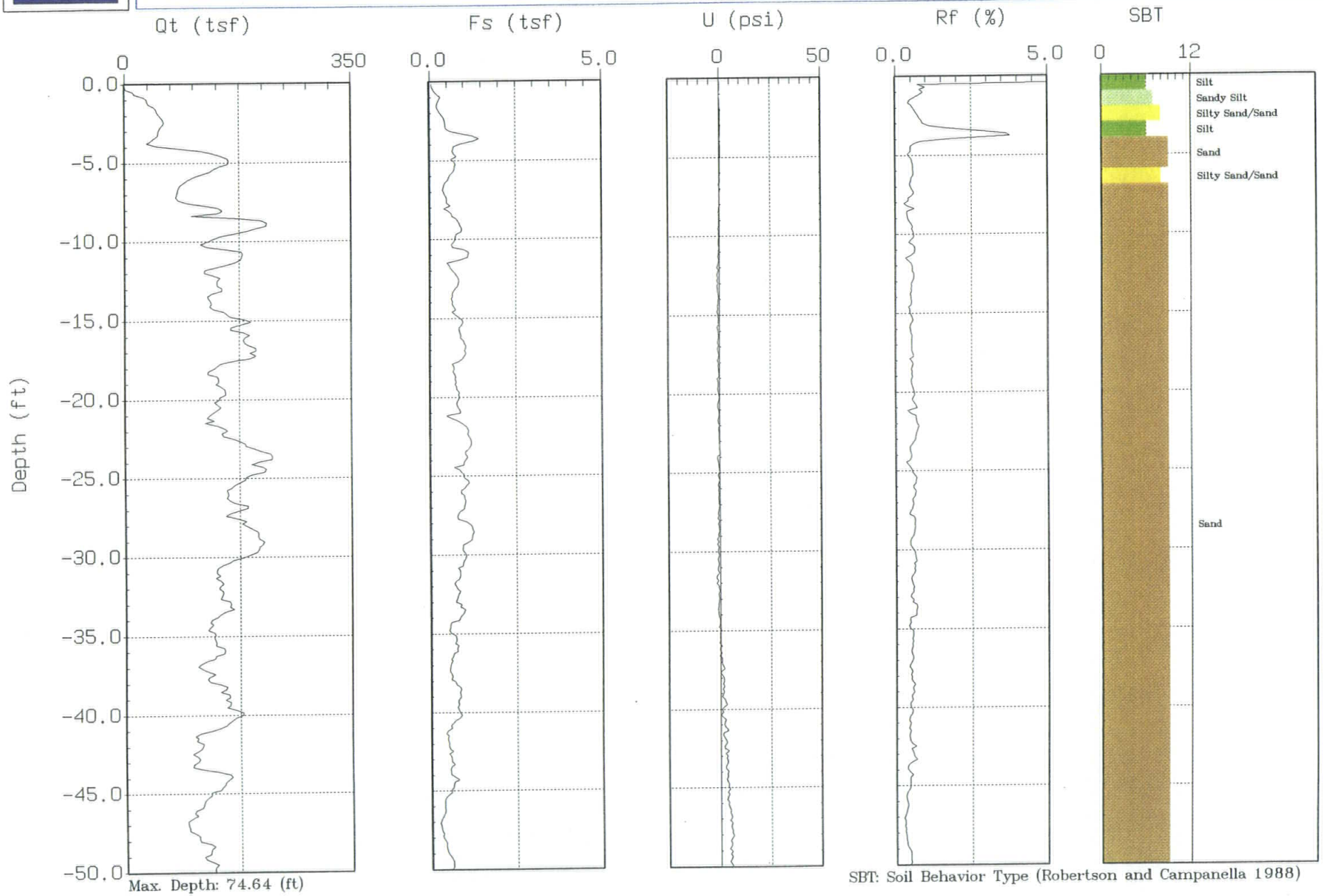
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-1

Geologist : JOSE CERCONE
Date : 11:20:97 08:27



Max. Depth: 74.64 (ft)

Depth Inc.: 0.164 (ft)

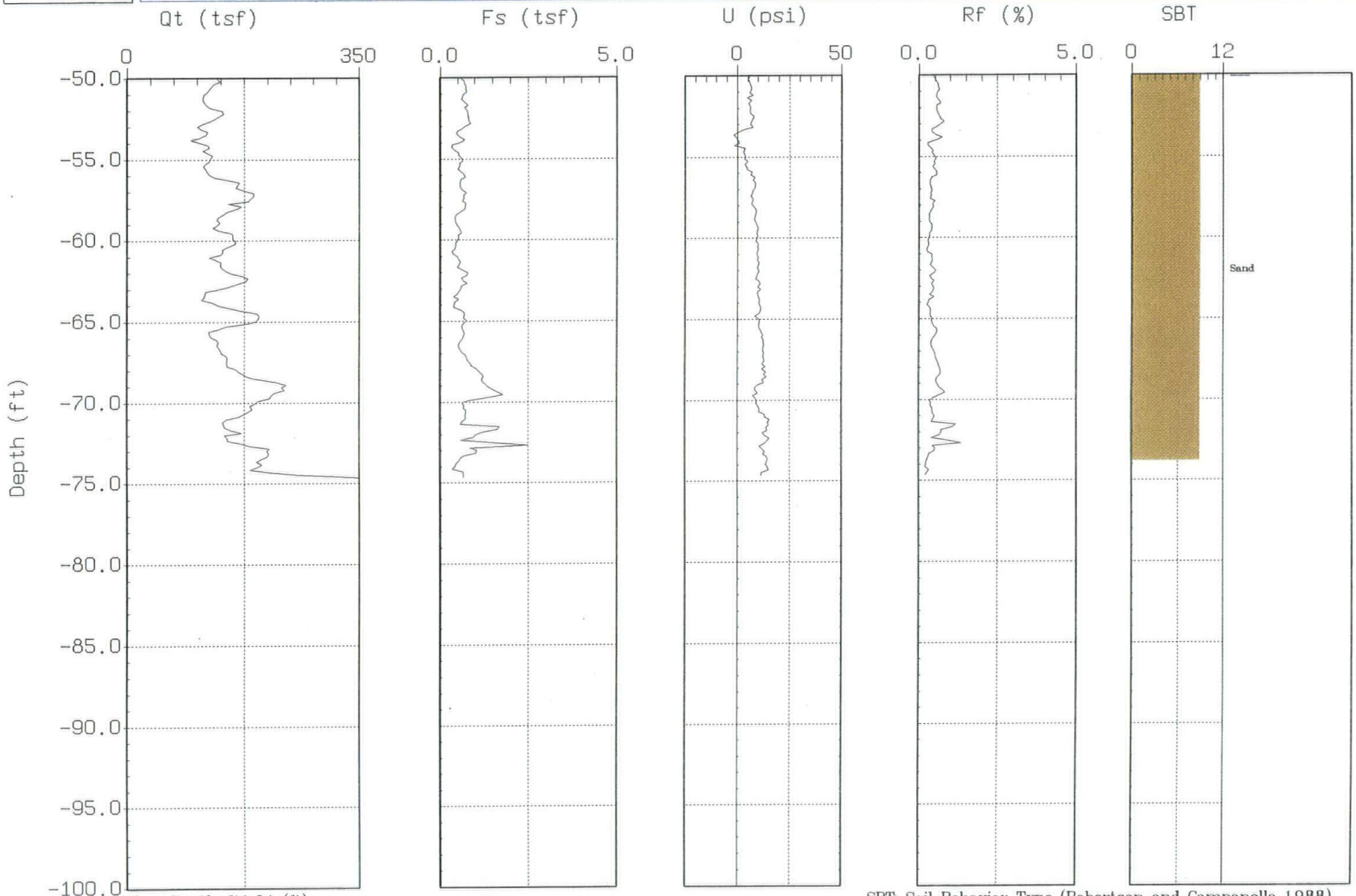
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-1

Geologist : JOSE CERCONE
Date : 11:20:97 08:27



Max. Depth: 74.64 (ft)

Depth Inc.: 0.164 (ft)

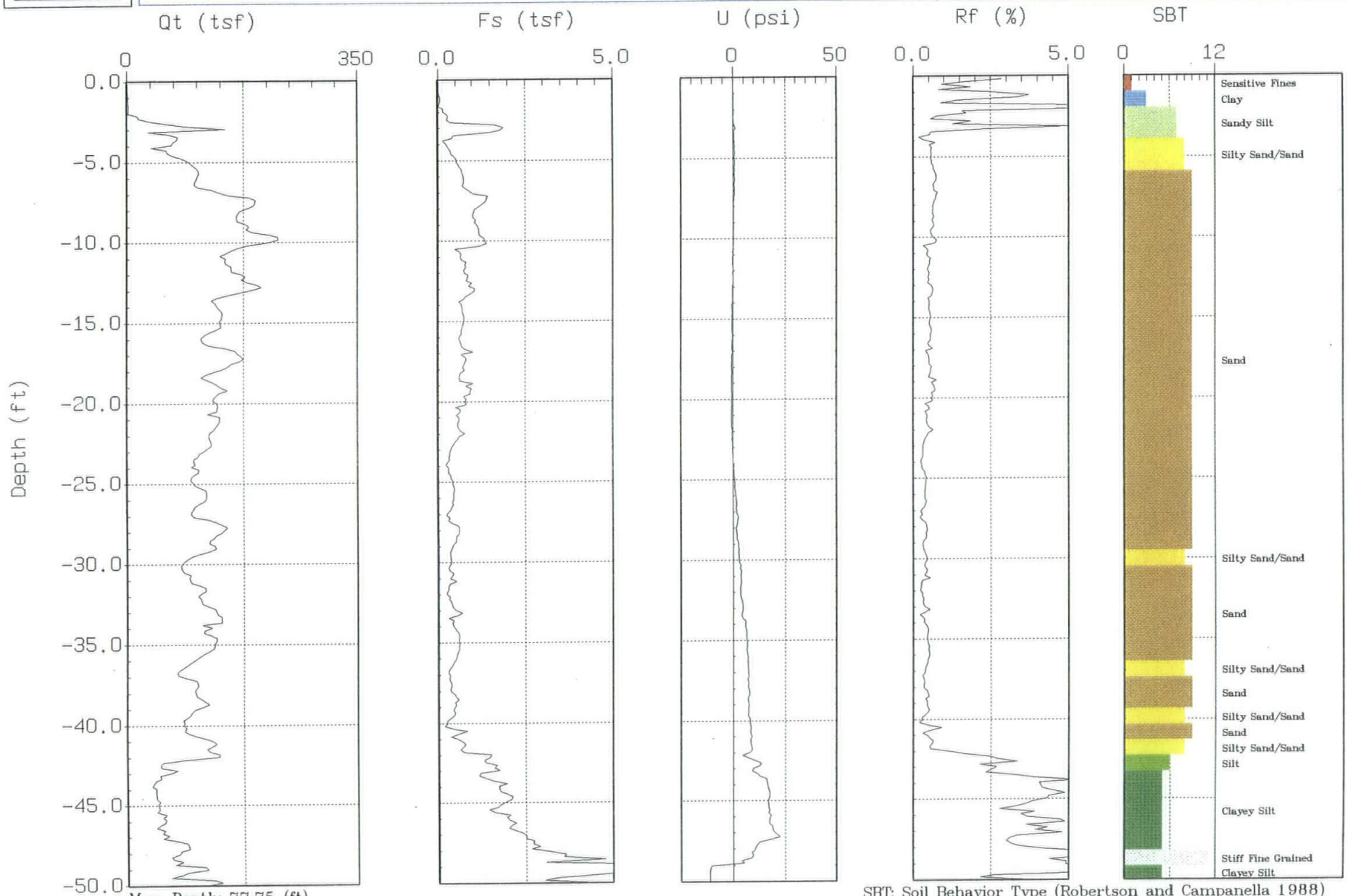
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-6

Geologist : JOSE CERCONE
Date : 12:07:97 11:14



Max. Depth: 77.75 (ft)

Depth Inc.: 0.164 (ft)

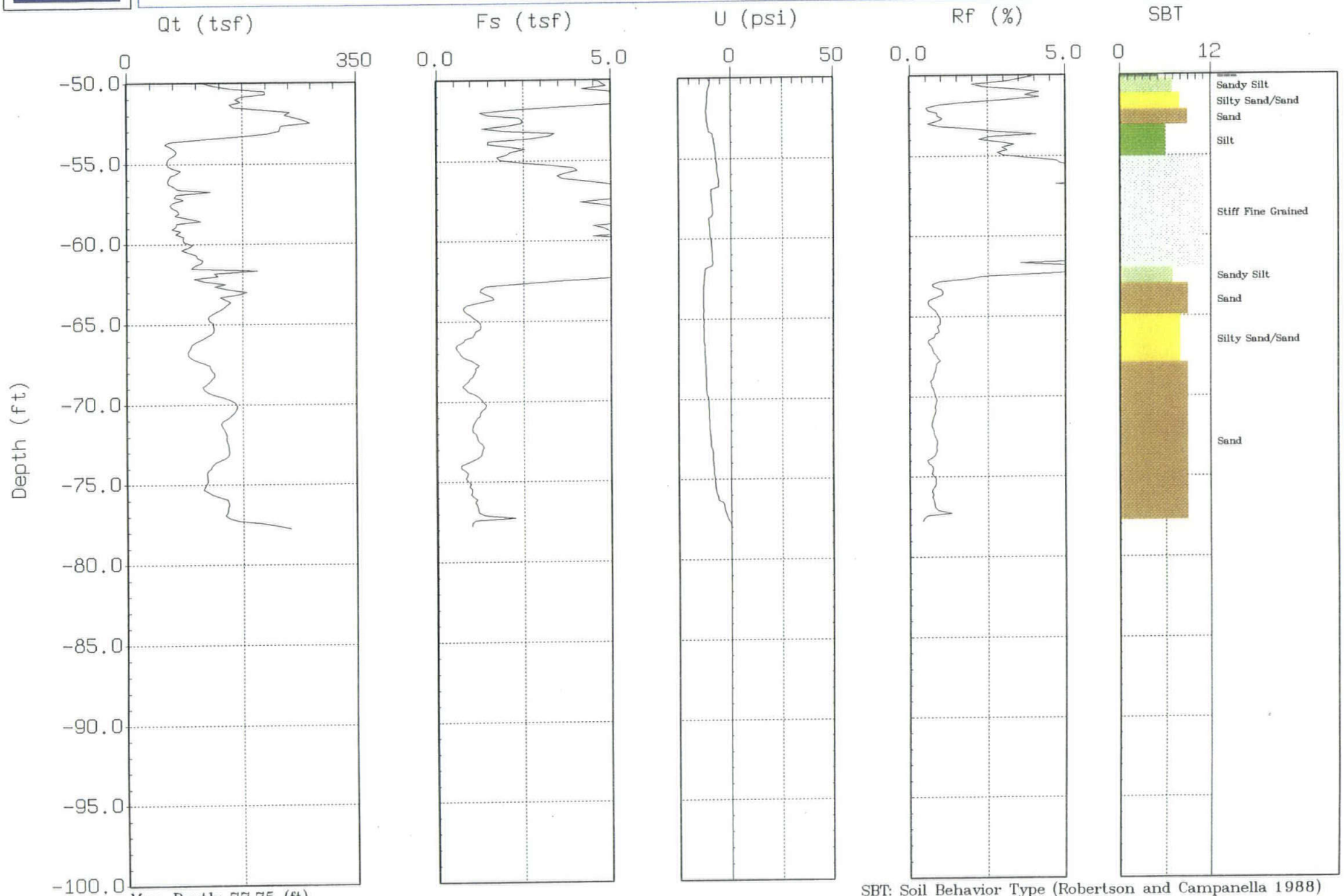
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-6

Geologist : JOSE CERCONE
Date : 12:07:97 11:14



Max. Depth: 77.75 (ft)

Depth Inc.: 0.164 (ft)

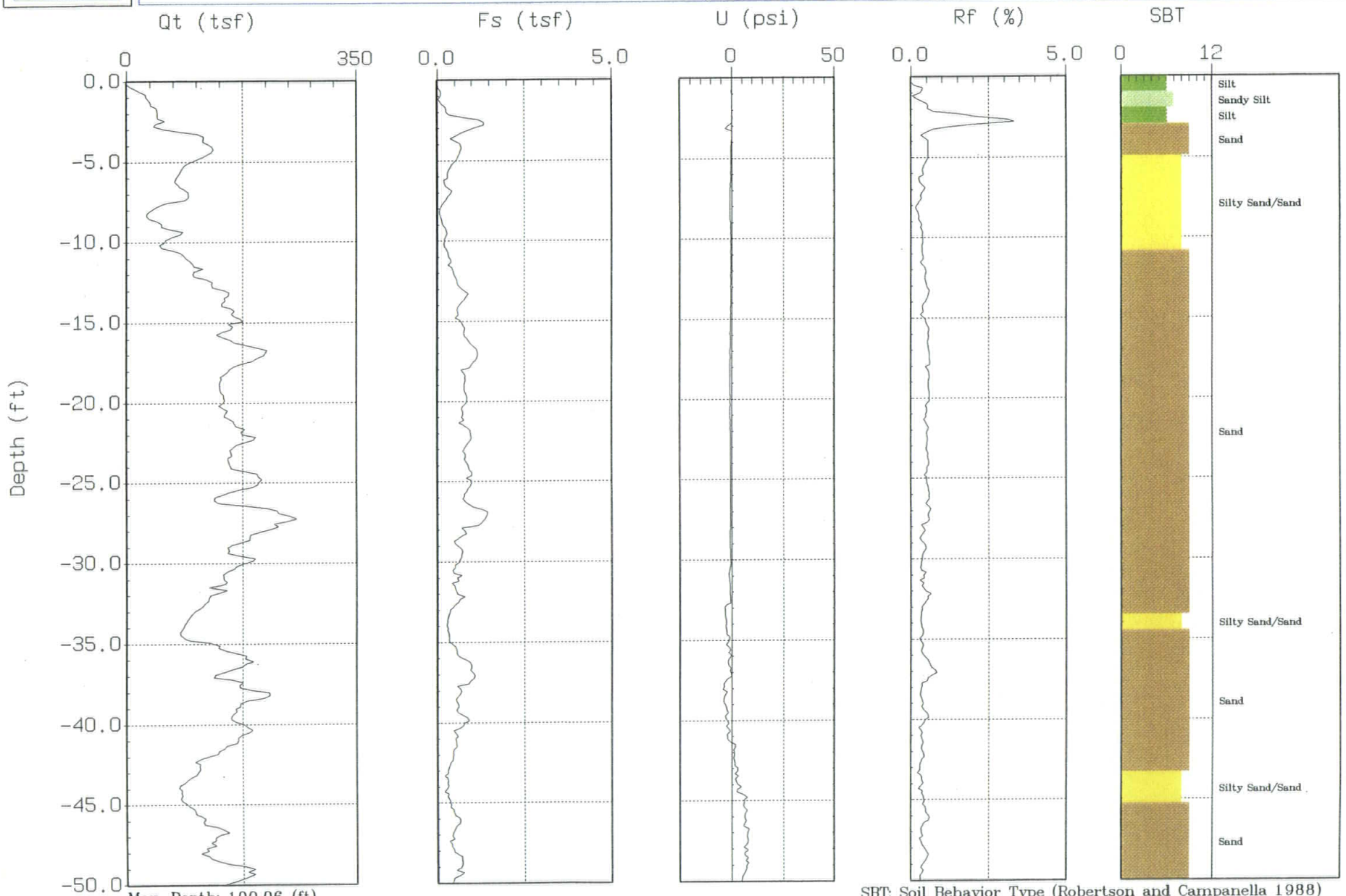
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-2

Geologist : JOSE CERCONE
Date : 11:20:97 09:30



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

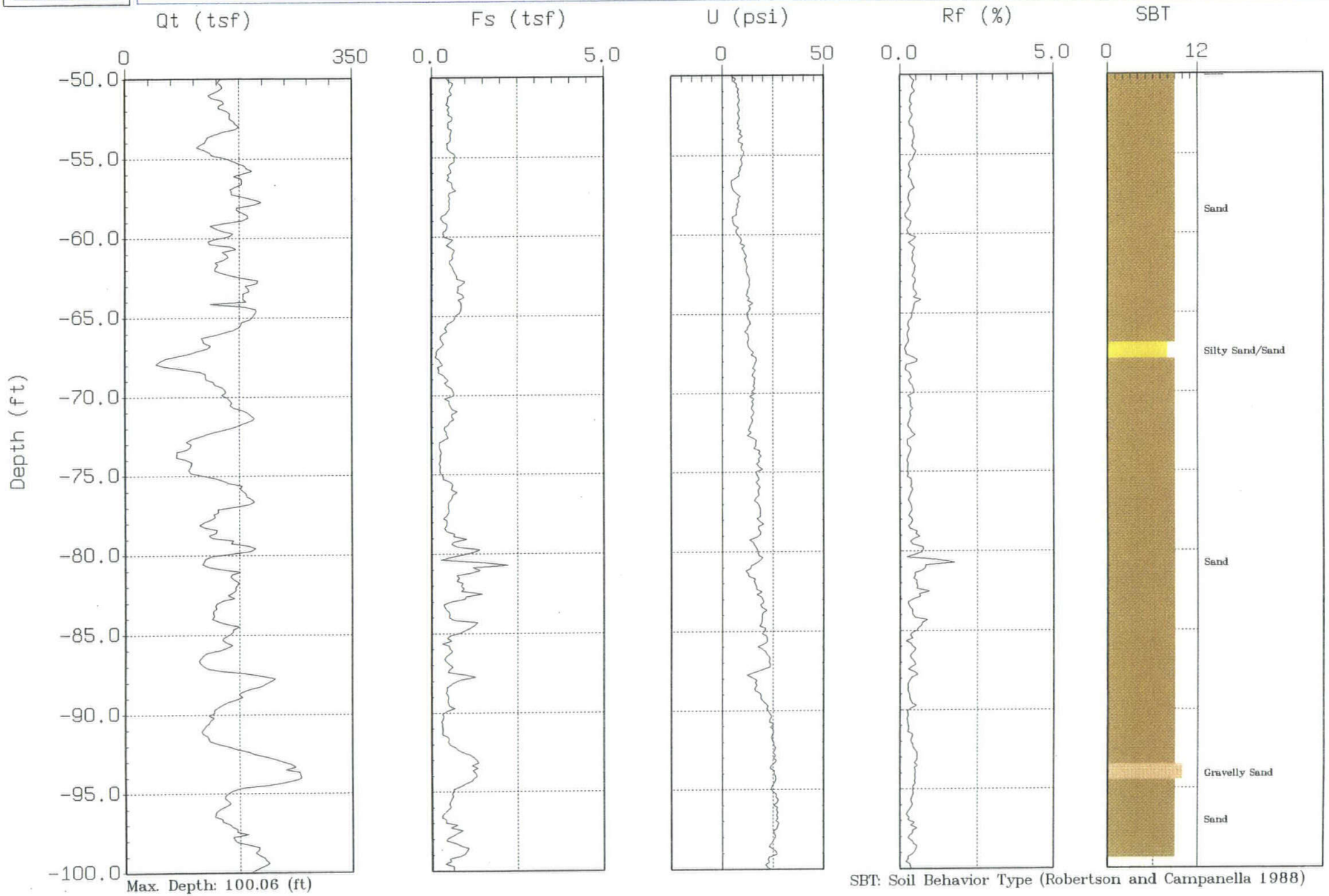
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-2

Geologist : JOSE CERCONE
Date : 11:20:97 09:30



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

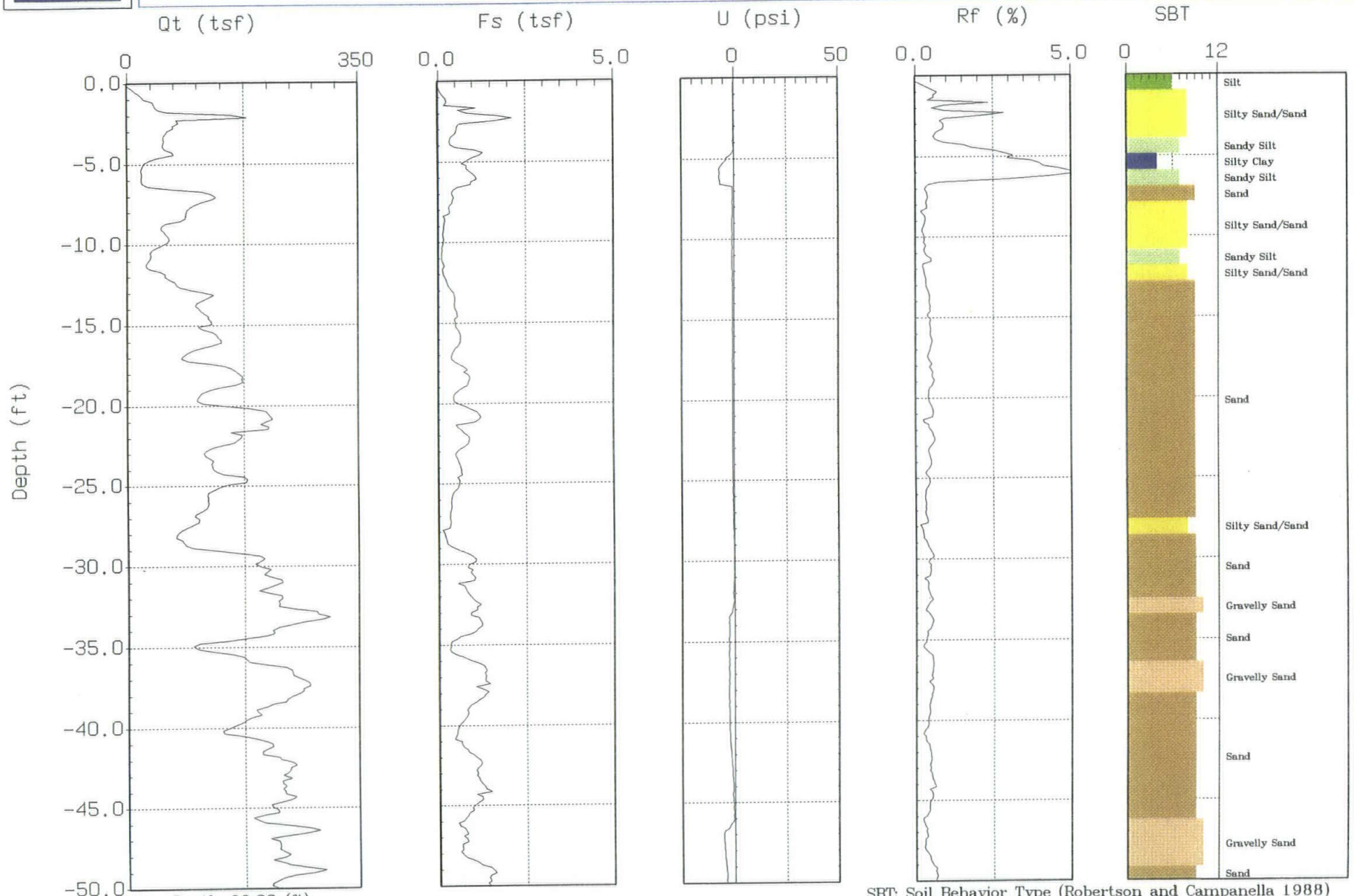
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-3

Geologist : JOSE CERCONE
Date : 11:20:97 10:30



Max. Depth: 90.22 (ft)

Depth Inc.: 0.164 (ft)

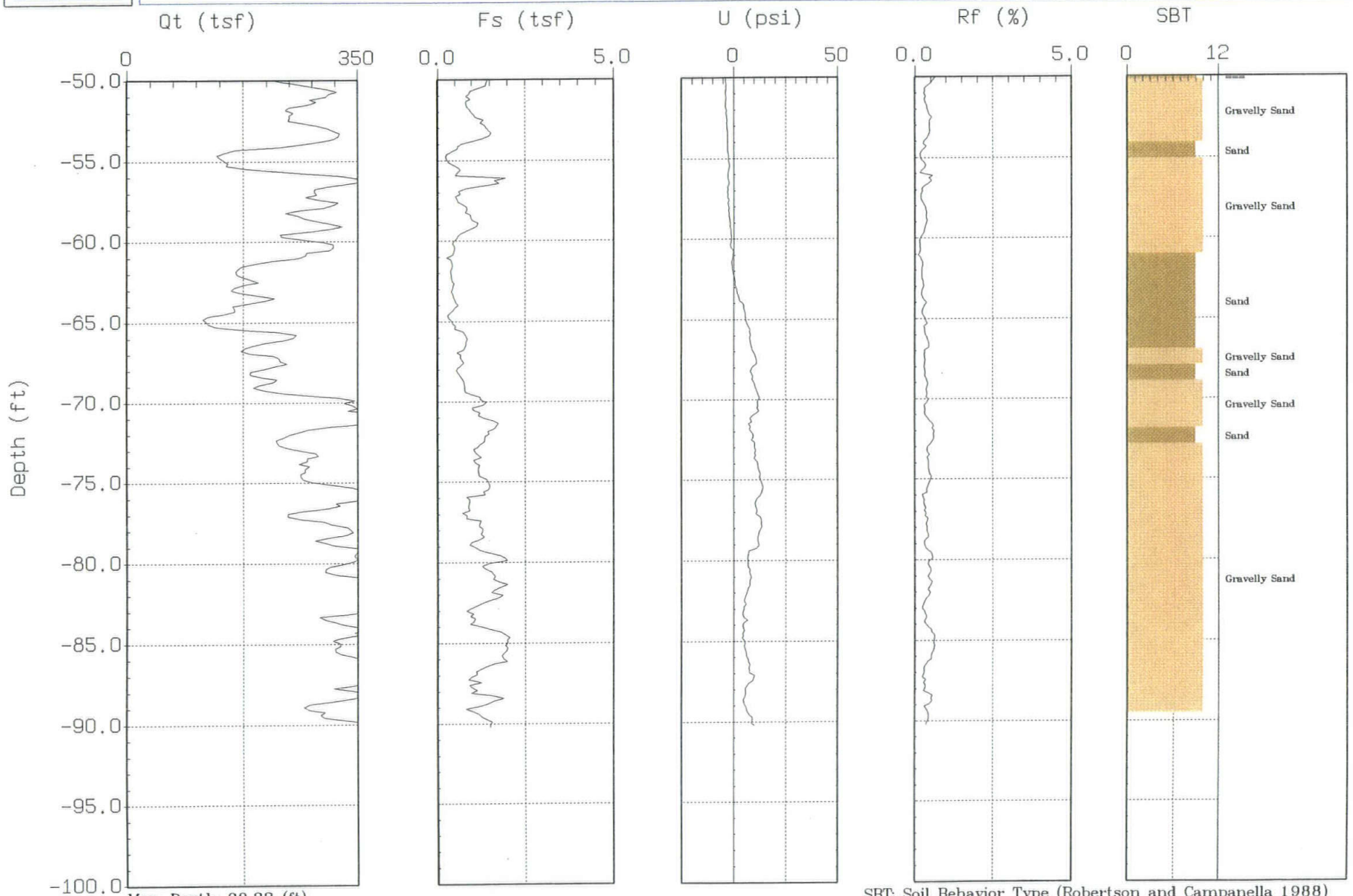
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-3

Geologist : JOSE CERCONE
Date : 11:20:97 10:30



Max. Depth: 90.22 (ft)

Depth Inc.: 0.164 (ft)

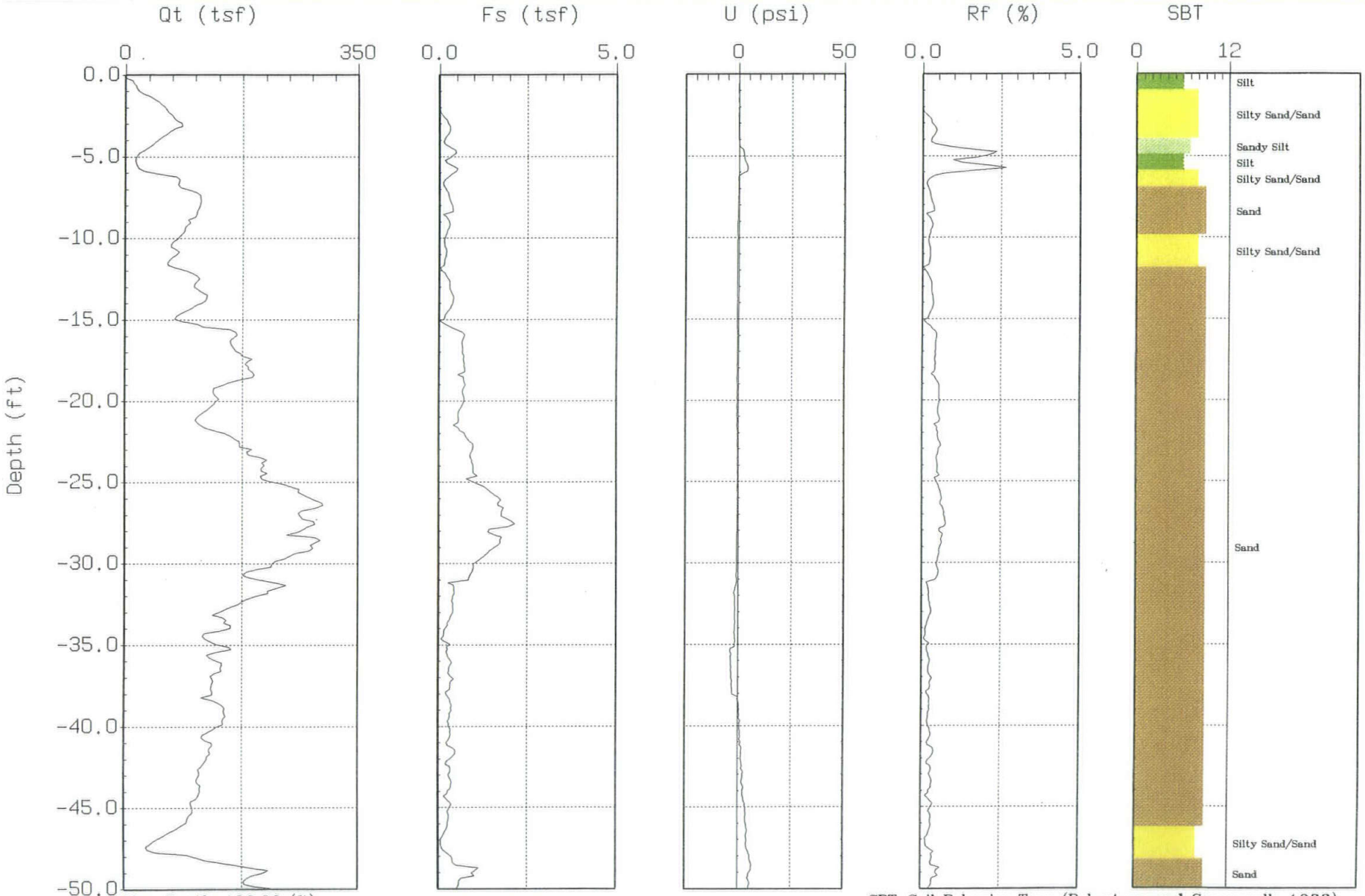
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-5

Geologist : JOSE CERCONE
Date : 11:20:97 12:34



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

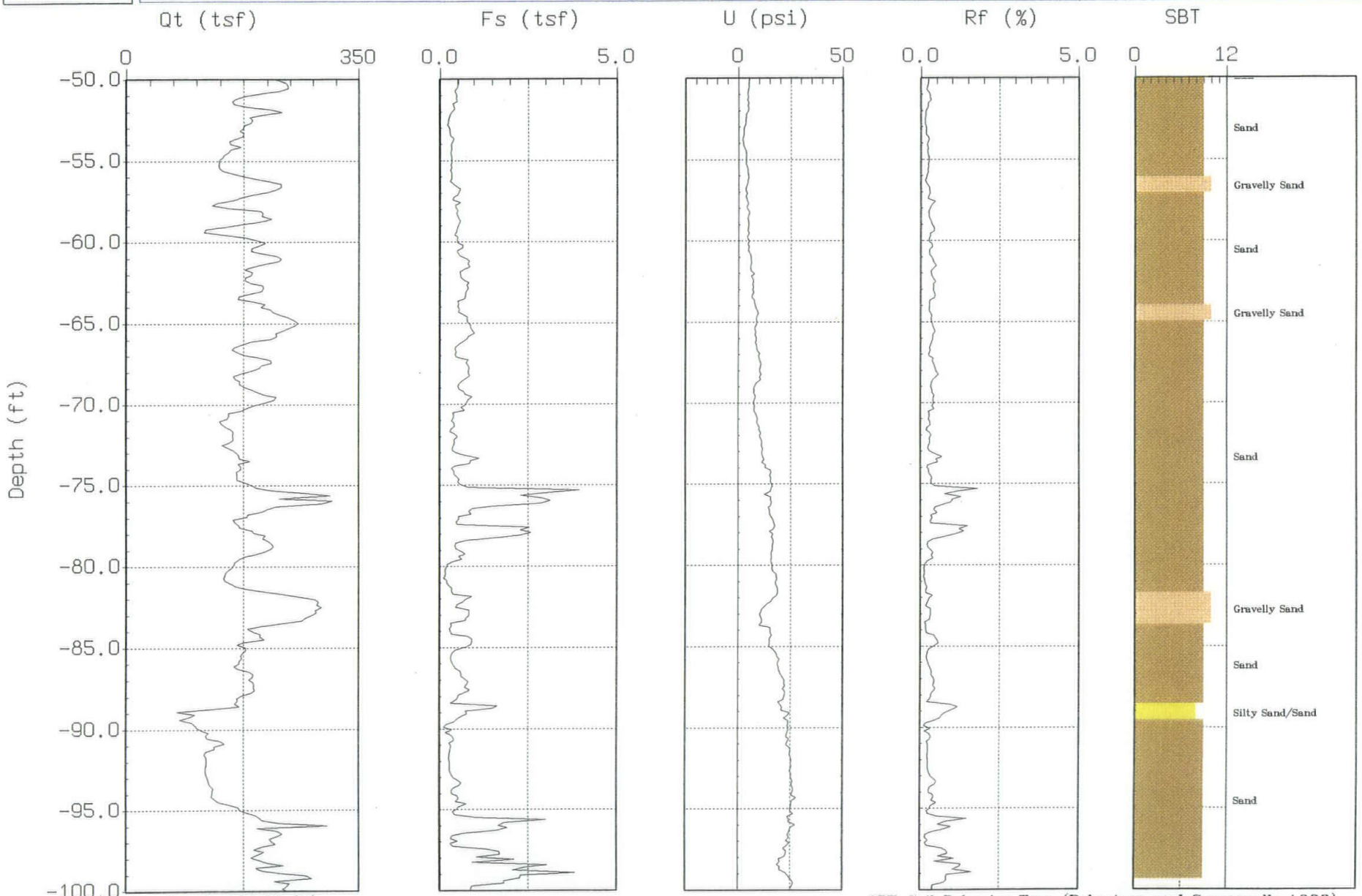
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-5

Geologist : JOSE CERCONE
Date : 11:20:97 12:34



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

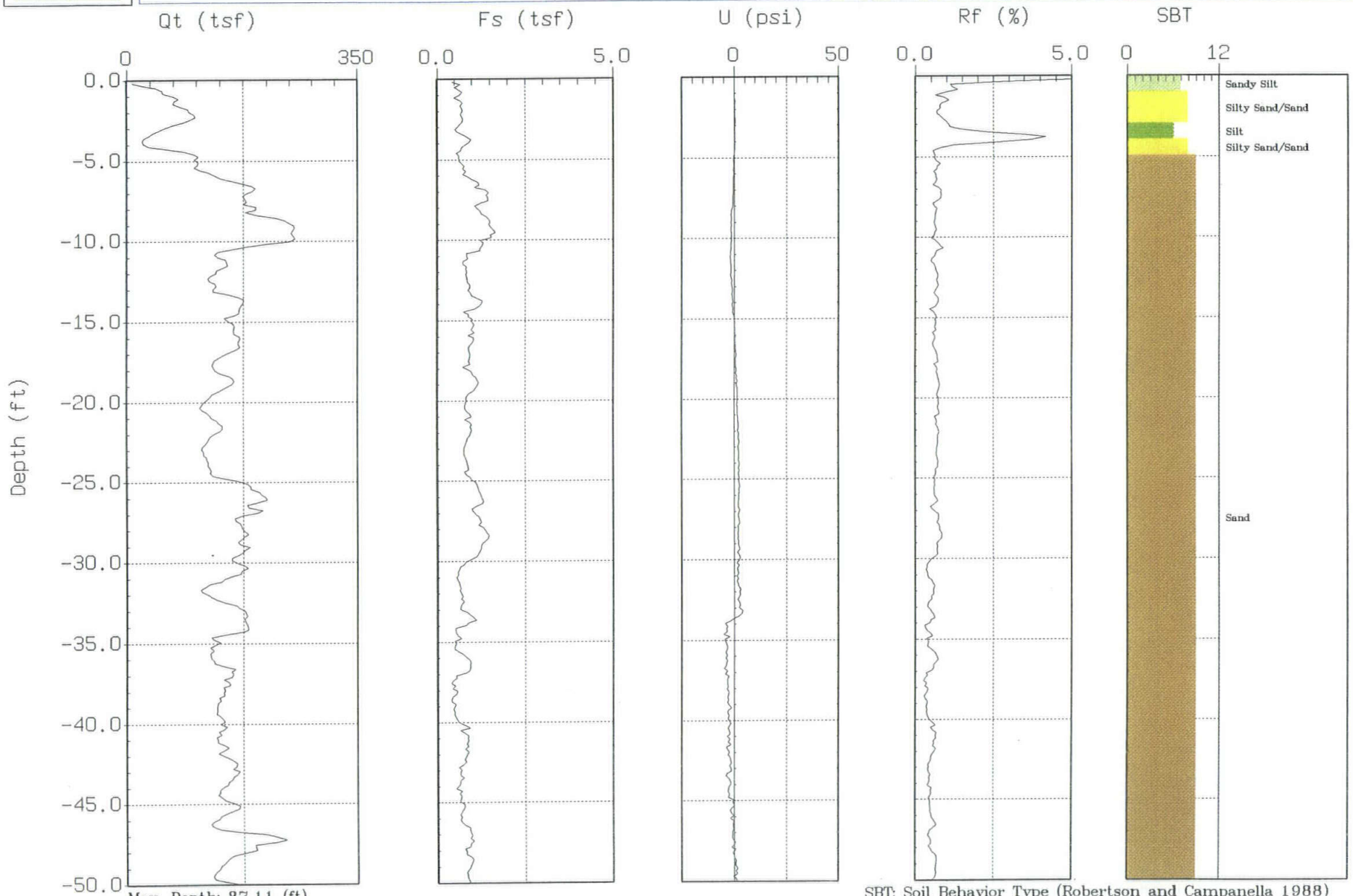
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-5

Geologist : JOSE CERCONE
Date : 12:03:97 13:44



Max. Depth: 87.11 (ft)

Depth Inc.: 0.164 (ft)

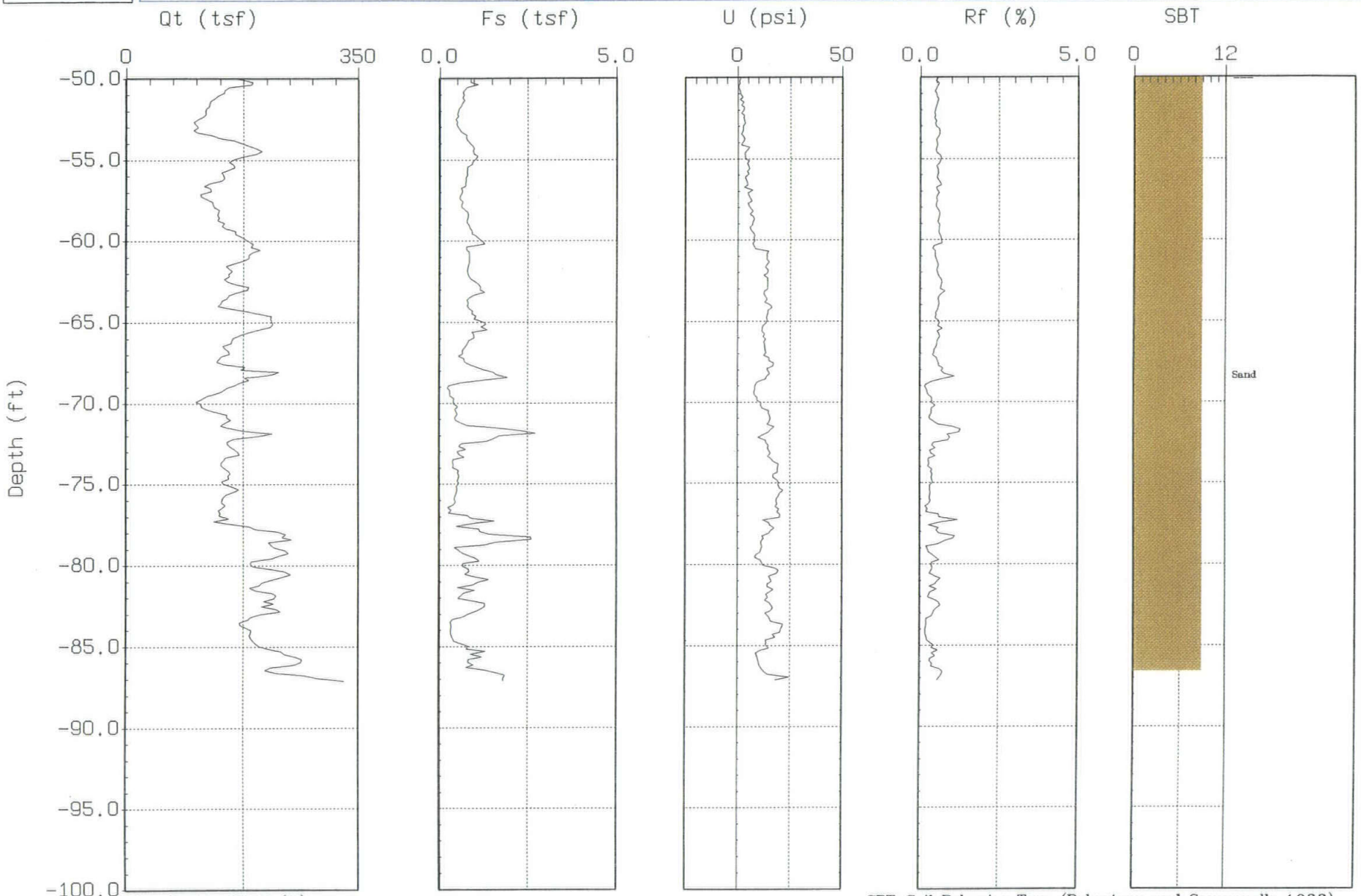
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-5

Geologist : JOSE CERCONE
Date : 12:03:97 13:44



Max. Depth: 87.11 (ft)

Depth Inc.: 0.164 (ft)

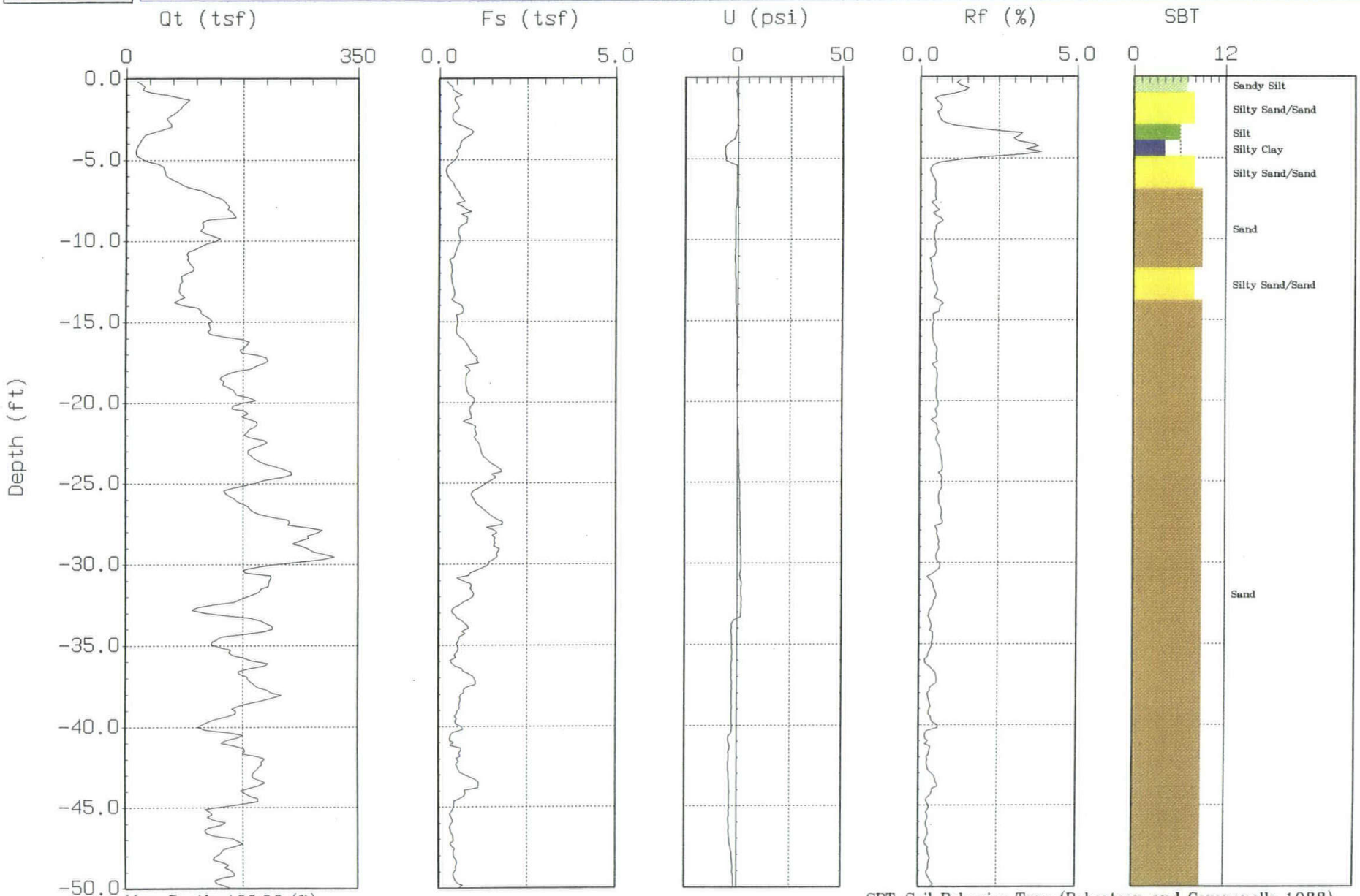
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-6

Geologist : JOSE CERCONE
Date : 12:03:97 14:36



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

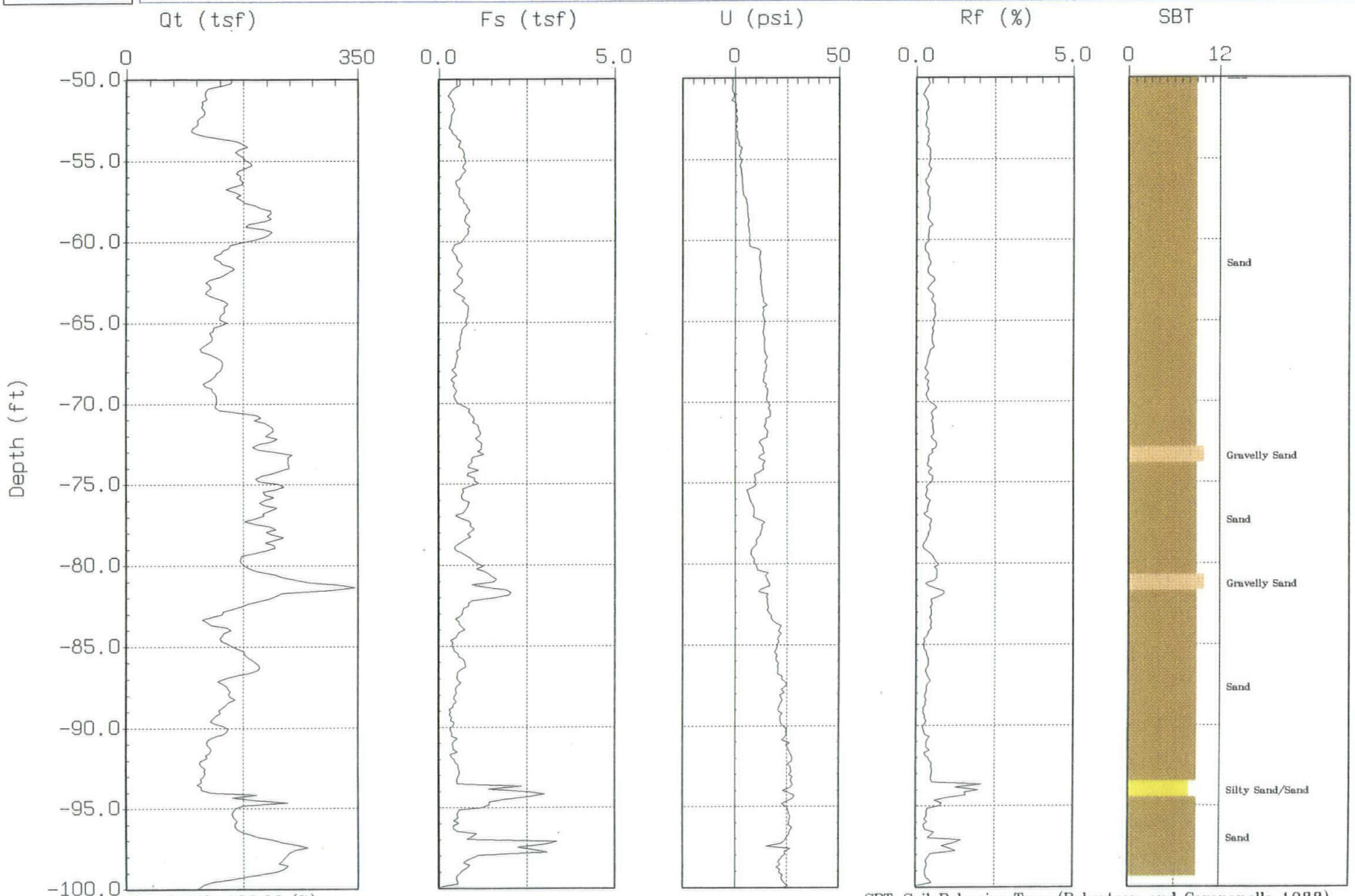
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-6

Geologist : JOSE CERCONE
Date : 12:03:97 14:36



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

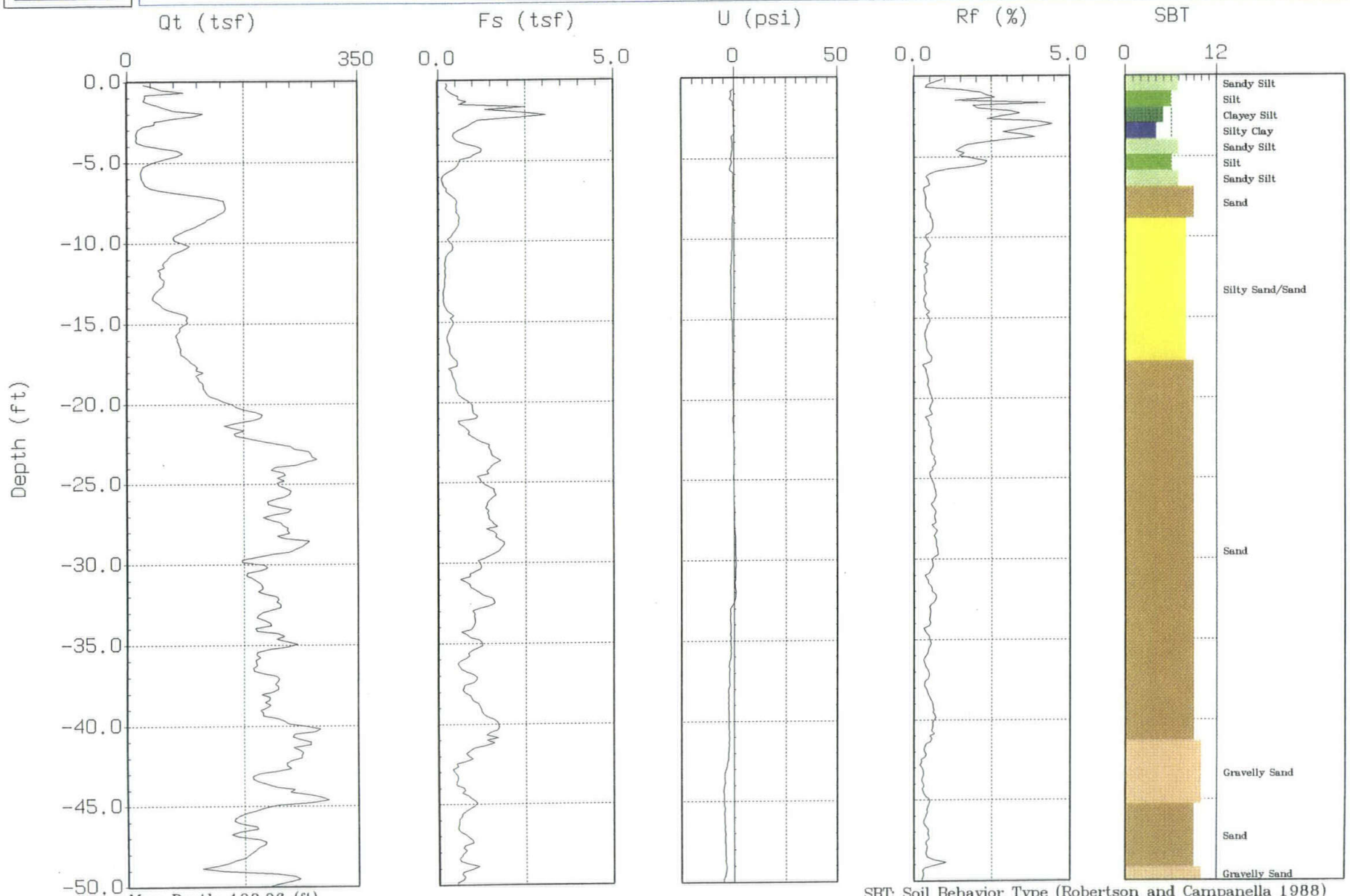
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-7

Geologist : JOSE CERCONE
Date : 12:03:97 15:40



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

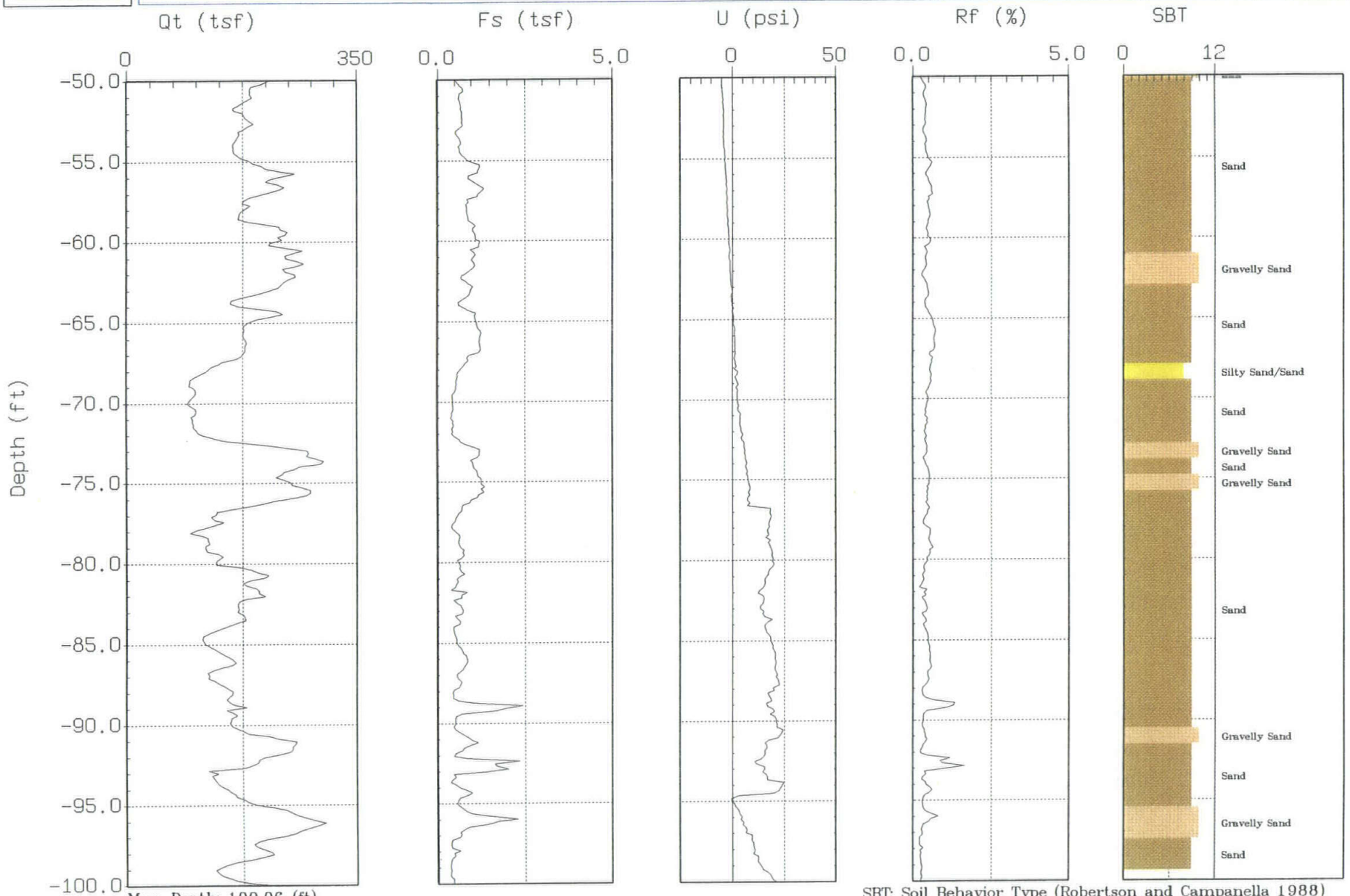
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-7

Geologist : JOSE CERCONE
Date : 12:03:97 15:40



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

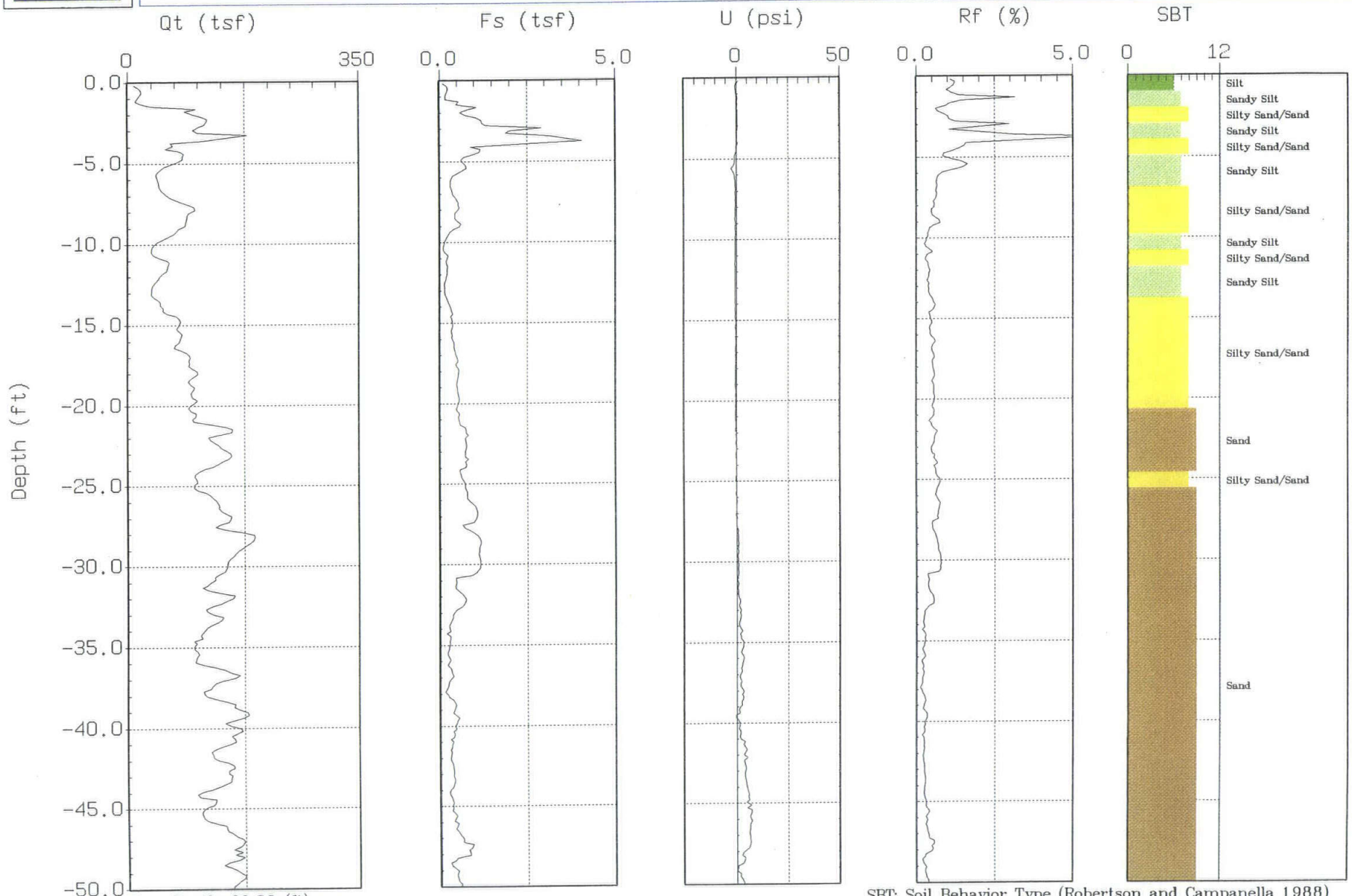
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-8

Geologist : JOSE CERCONE
Date : 12:04:97 07:43



Max. Depth: 69.39 (ft)

Depth Inc.: 0.164 (ft)

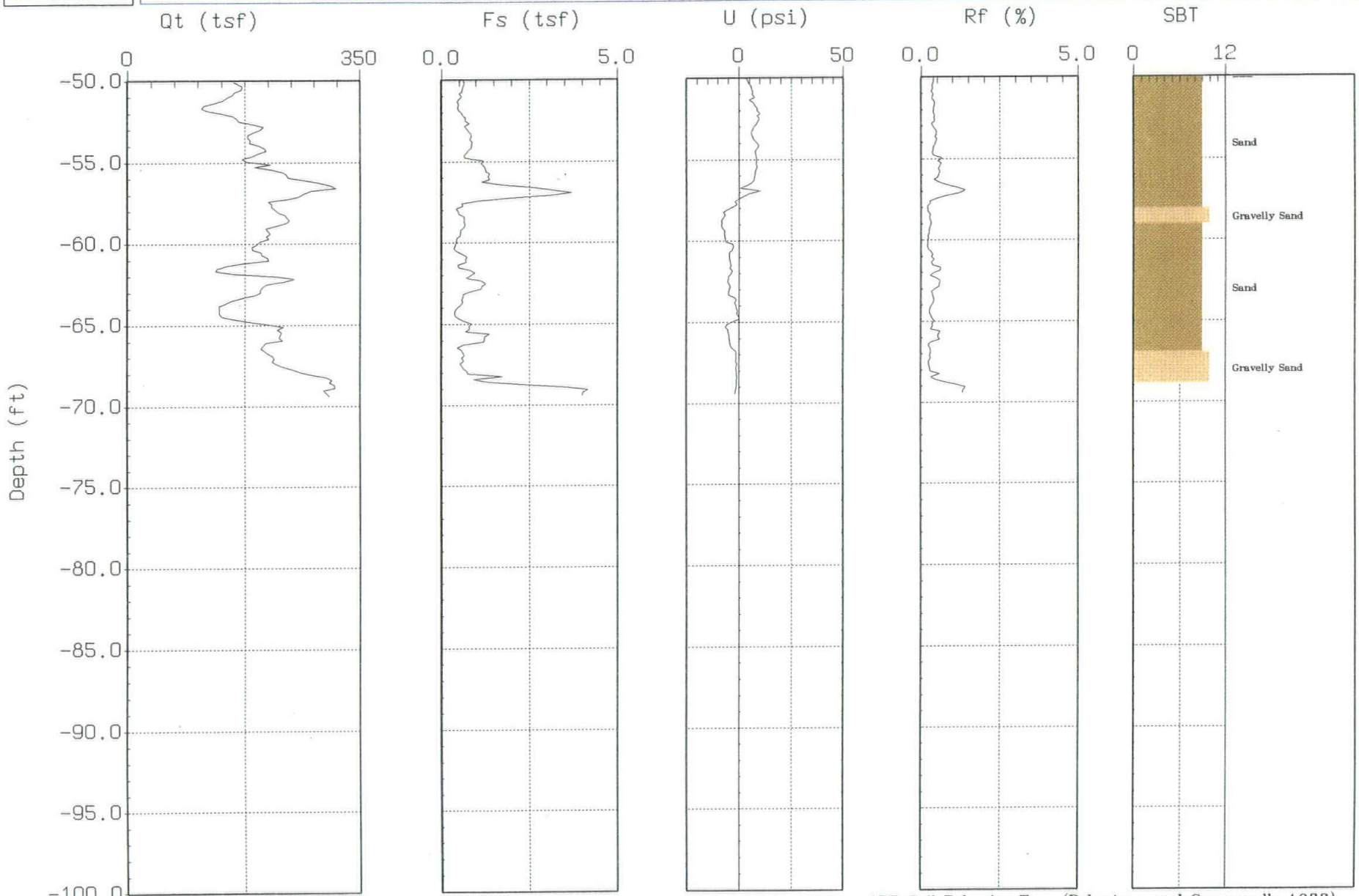
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-8

Geologist : JOSE CERCONE
Date : 12:04:97 07:43



Max. Depth: 69.39 (ft)

Depth Inc.: 0.164 (ft)

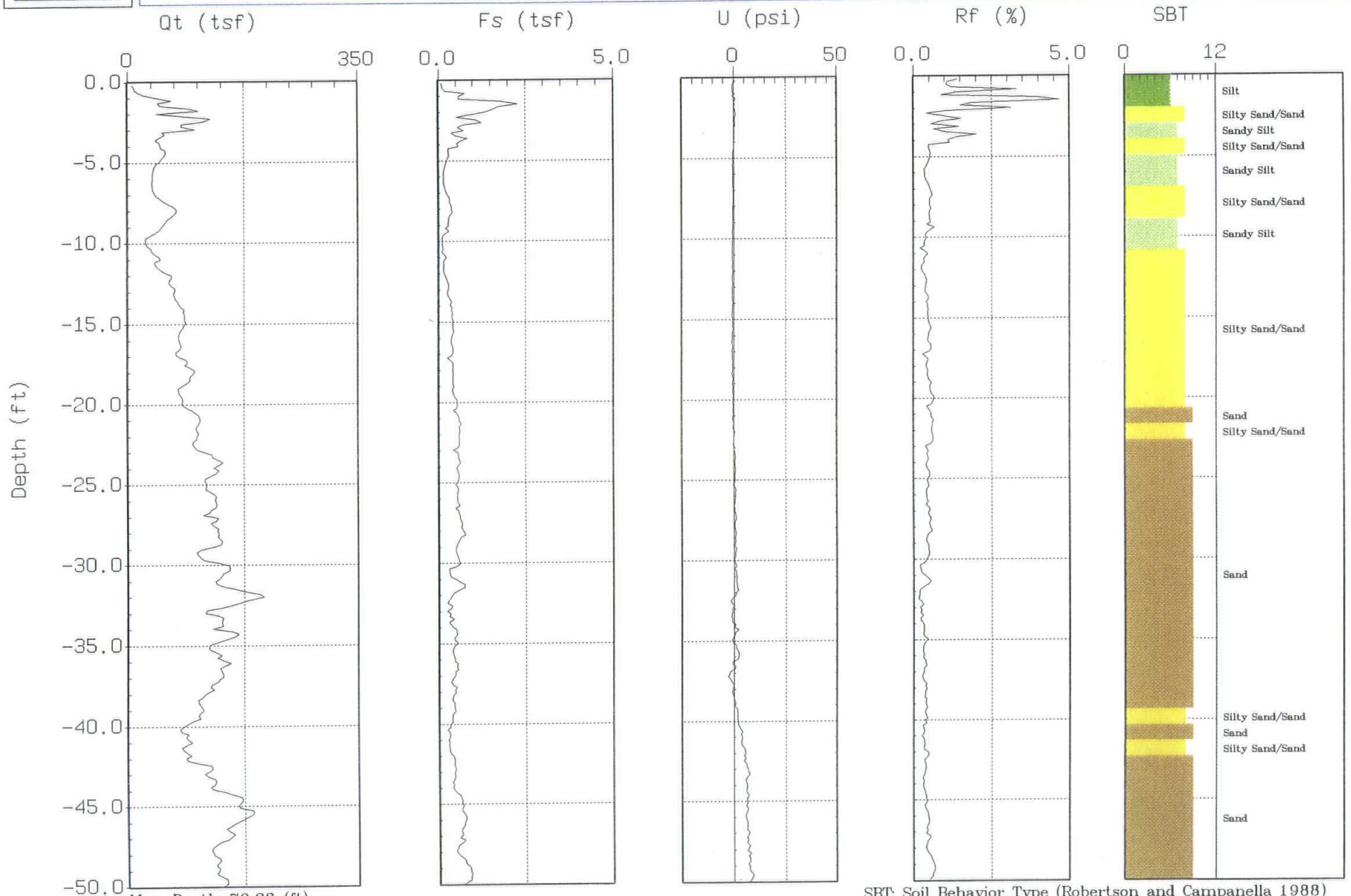
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-9

Geologist : JOSE CERCONE
Date : 12:05:97 16:06



Max. Depth: 79.23 (ft)

Depth Inc.: 0.164 (ft)

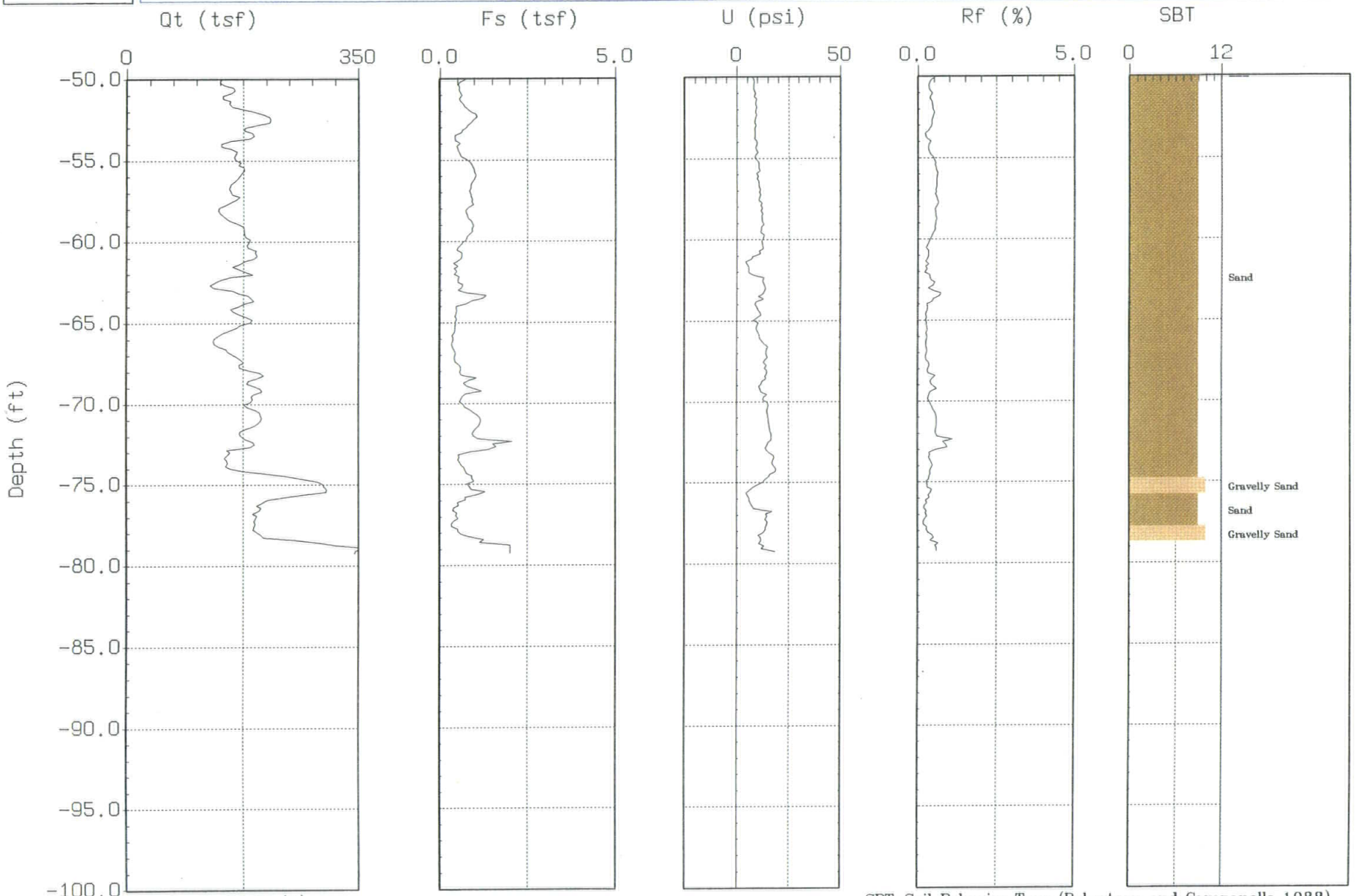
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-9

Geologist : JOSE CERCONE
Date : 12:05:97 16:06



Max. Depth: 79.23 (ft)

Depth Inc.: 0.164 (ft)

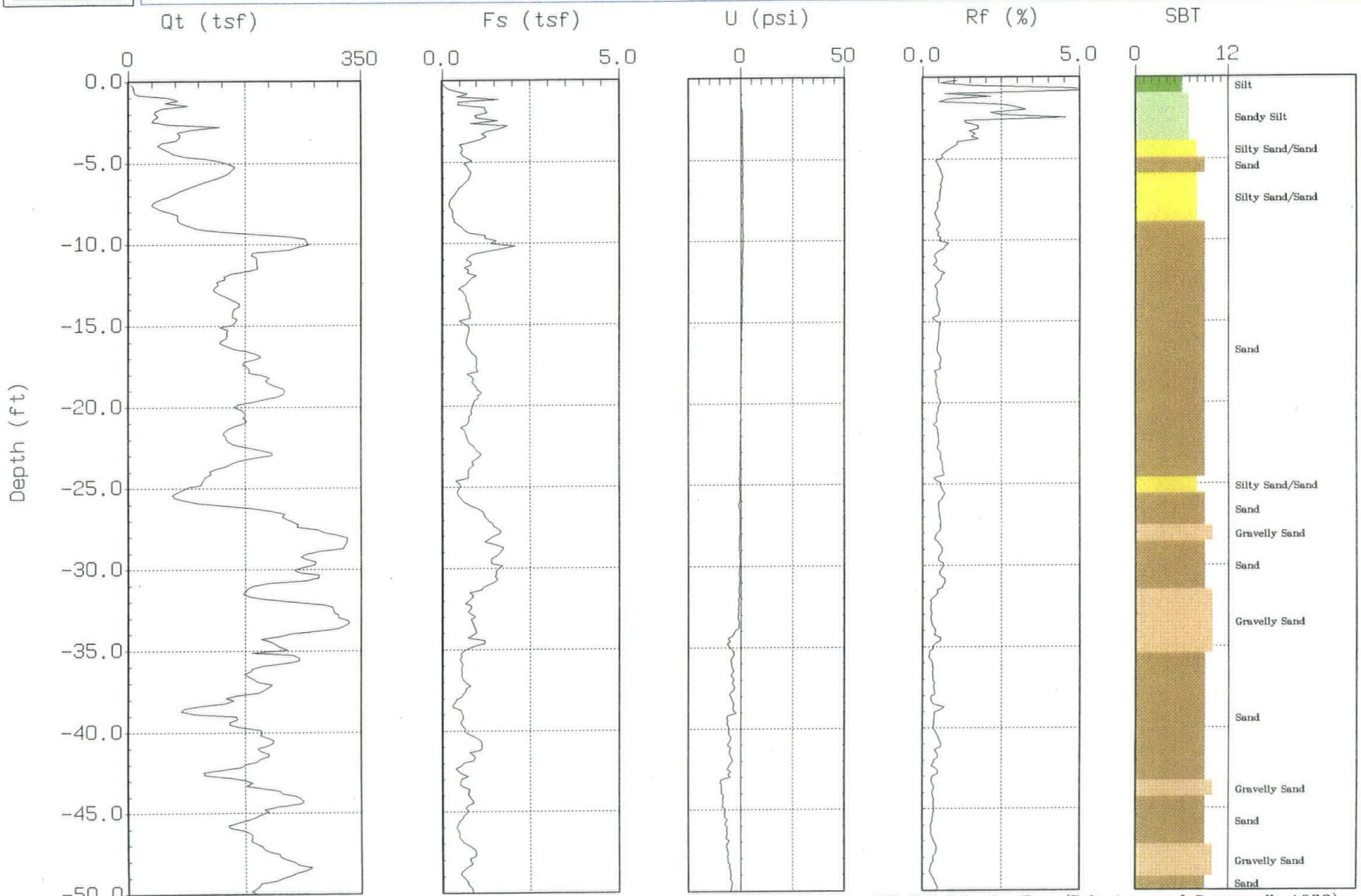
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-10

Geologist : JOSE CERCONE
Date : 12:06:97 07:30



Max. Depth: 85.79 (ft)

Depth Inc.: 0.164 (ft)

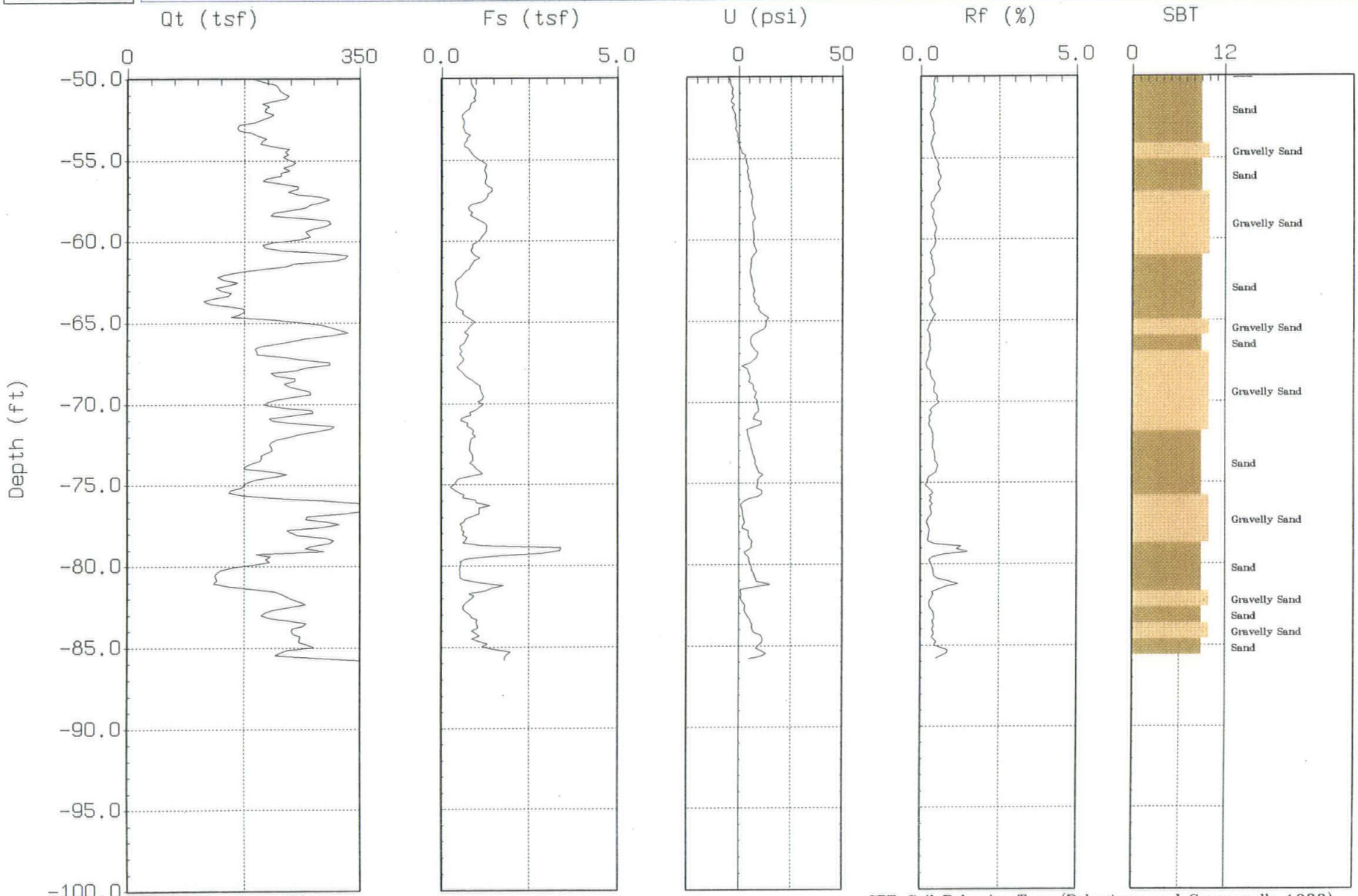
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-10

Geologist : JOSE CERCONE
Date : 12:06:97 07:30



Max. Depth: 85.79 (ft)

Depth Inc.: 0.164 (ft)

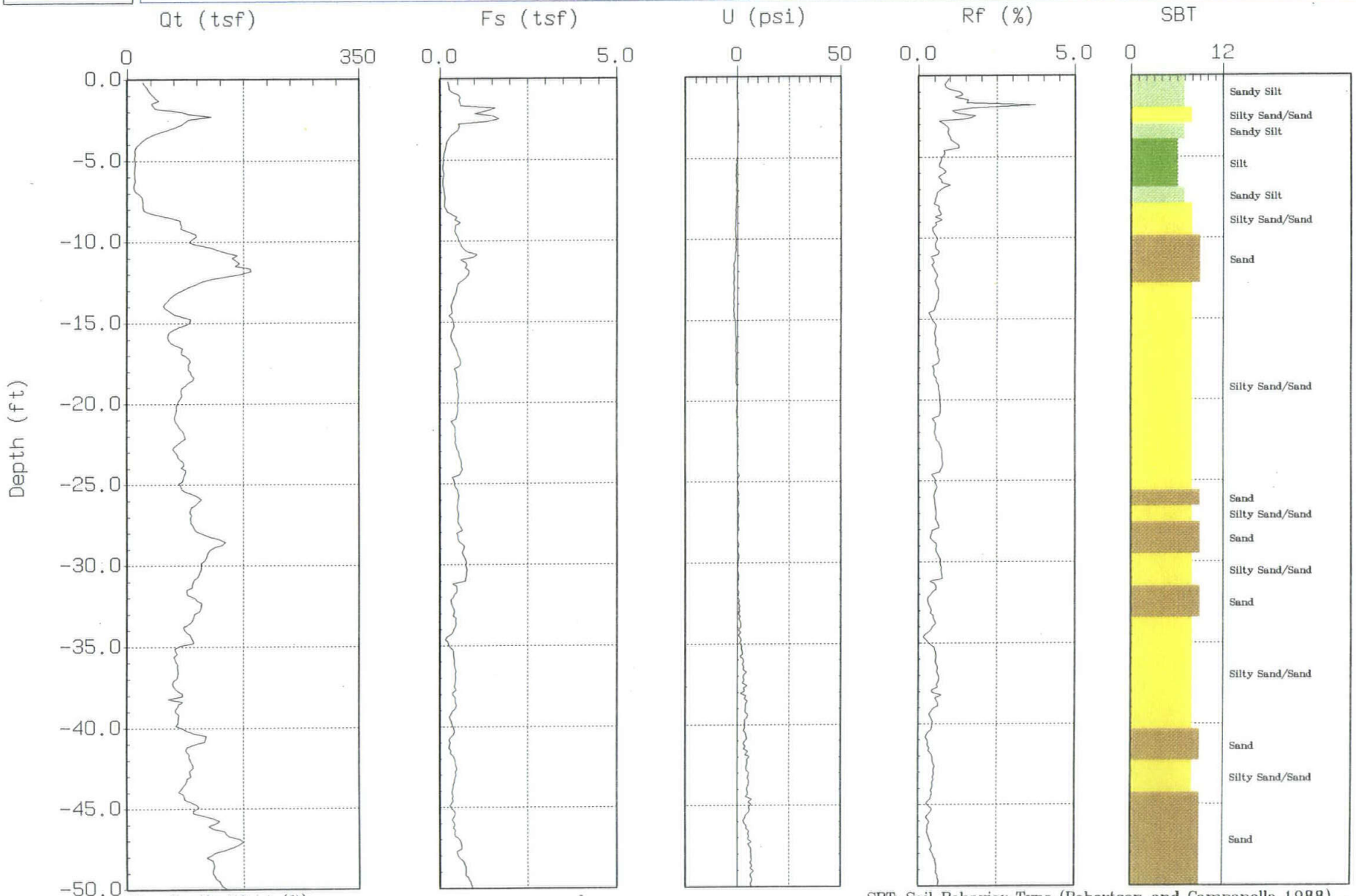
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-11

Geologist : JOSE CERCONE
Date : 12:05:97 10:08



Max. Depth: 76.11 (ft)

Depth Inc.: 0.164 (ft)

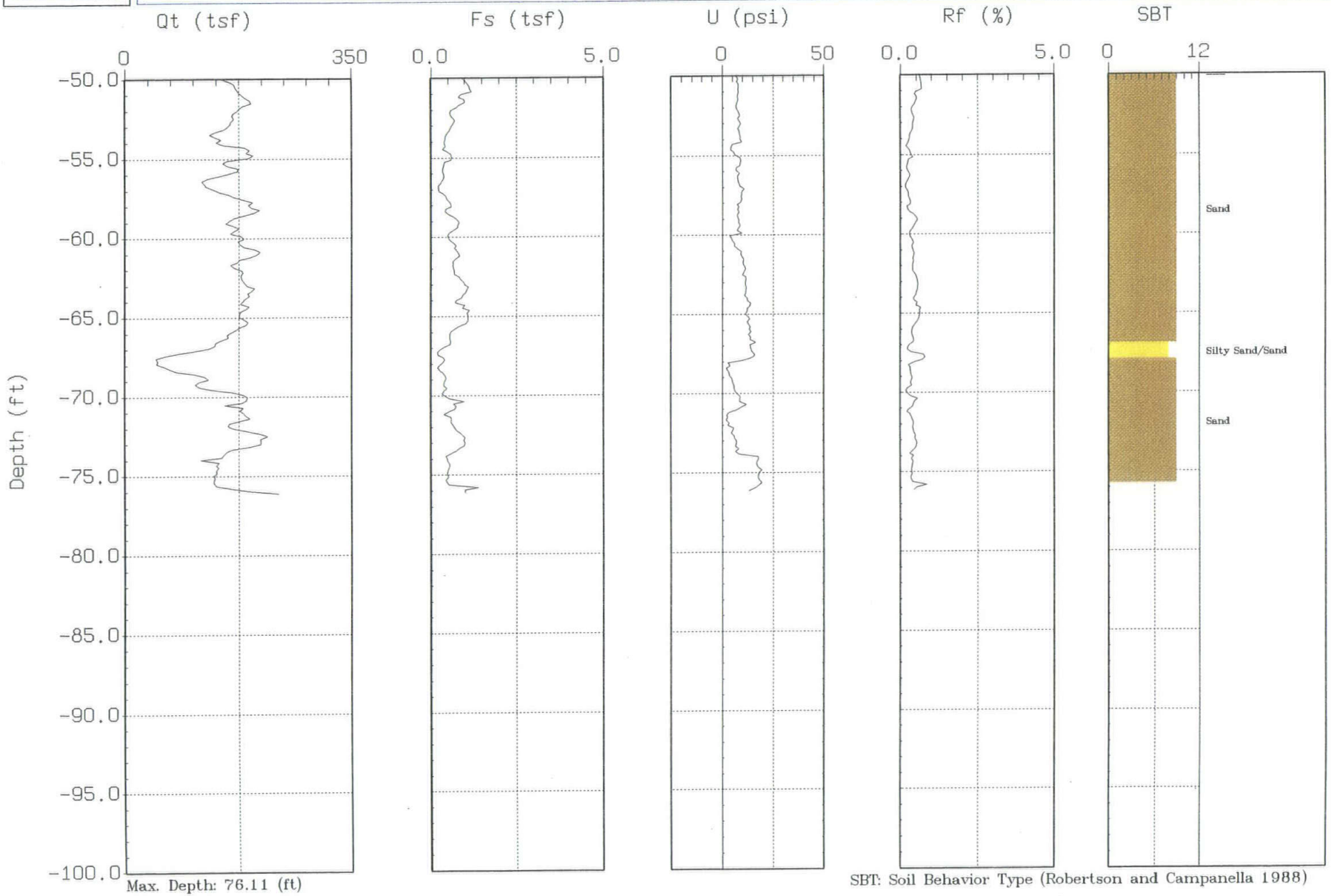
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-11

Geologist : JOSE CERCONE
Date : 12:05:97 10:08



Max. Depth: 76.11 (ft)

Depth Inc.: 0.164 (ft)

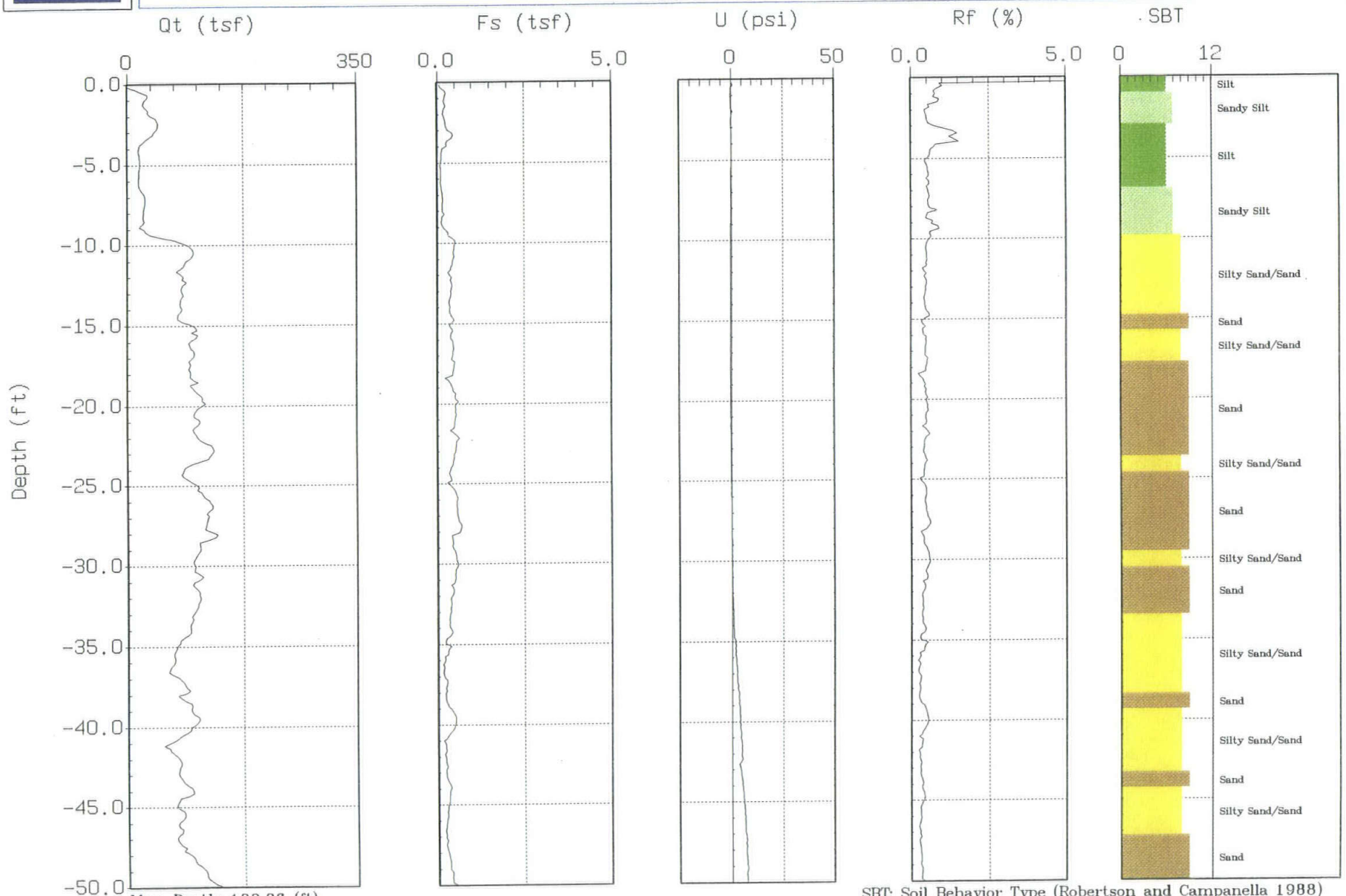
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-12

Geologist : JOSE CERCONE
Date : 11:20:97 13:54



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

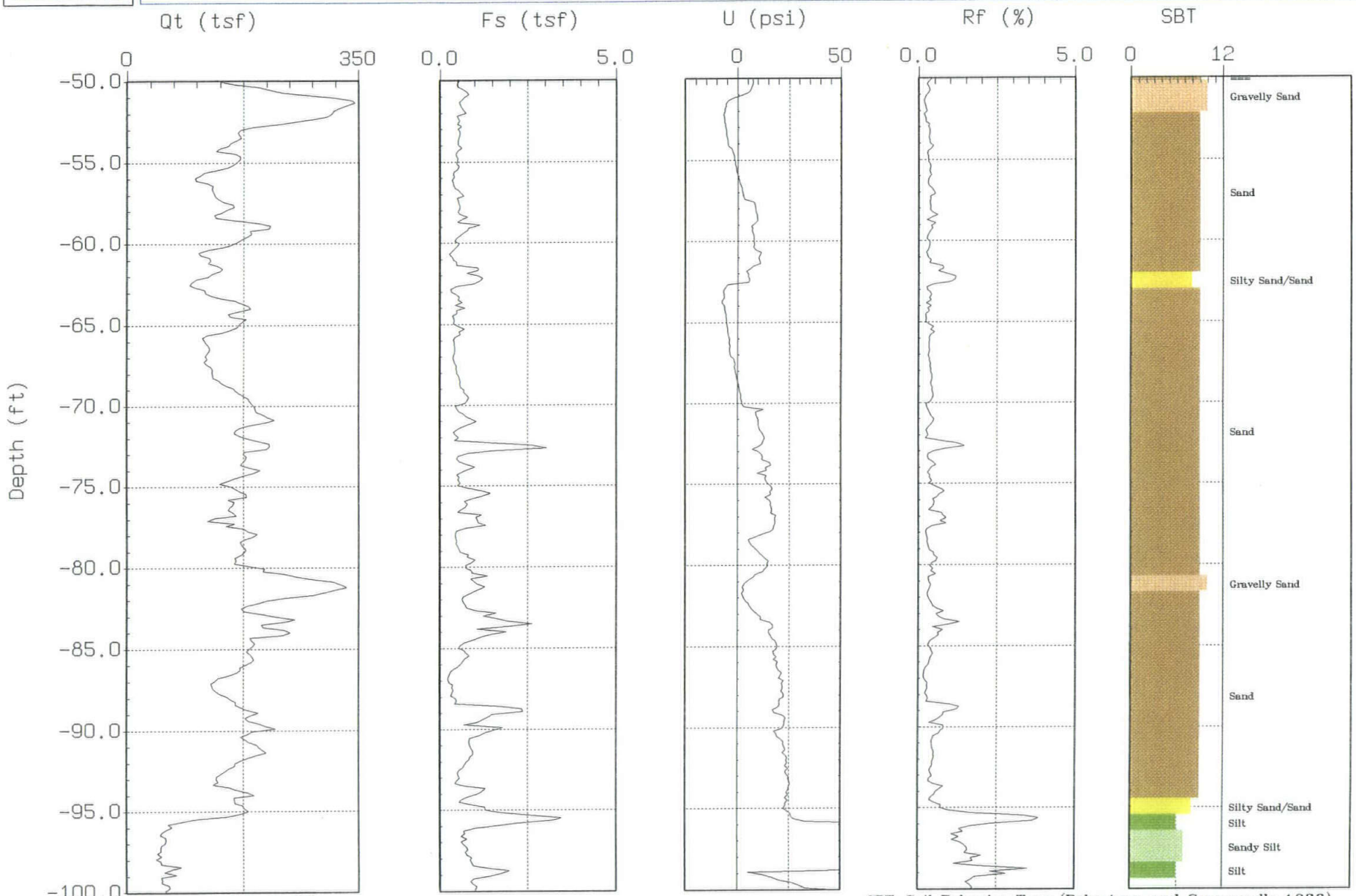
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-12

Geologist : JOSE CERCONE
Date : 11:20:97 13:54



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

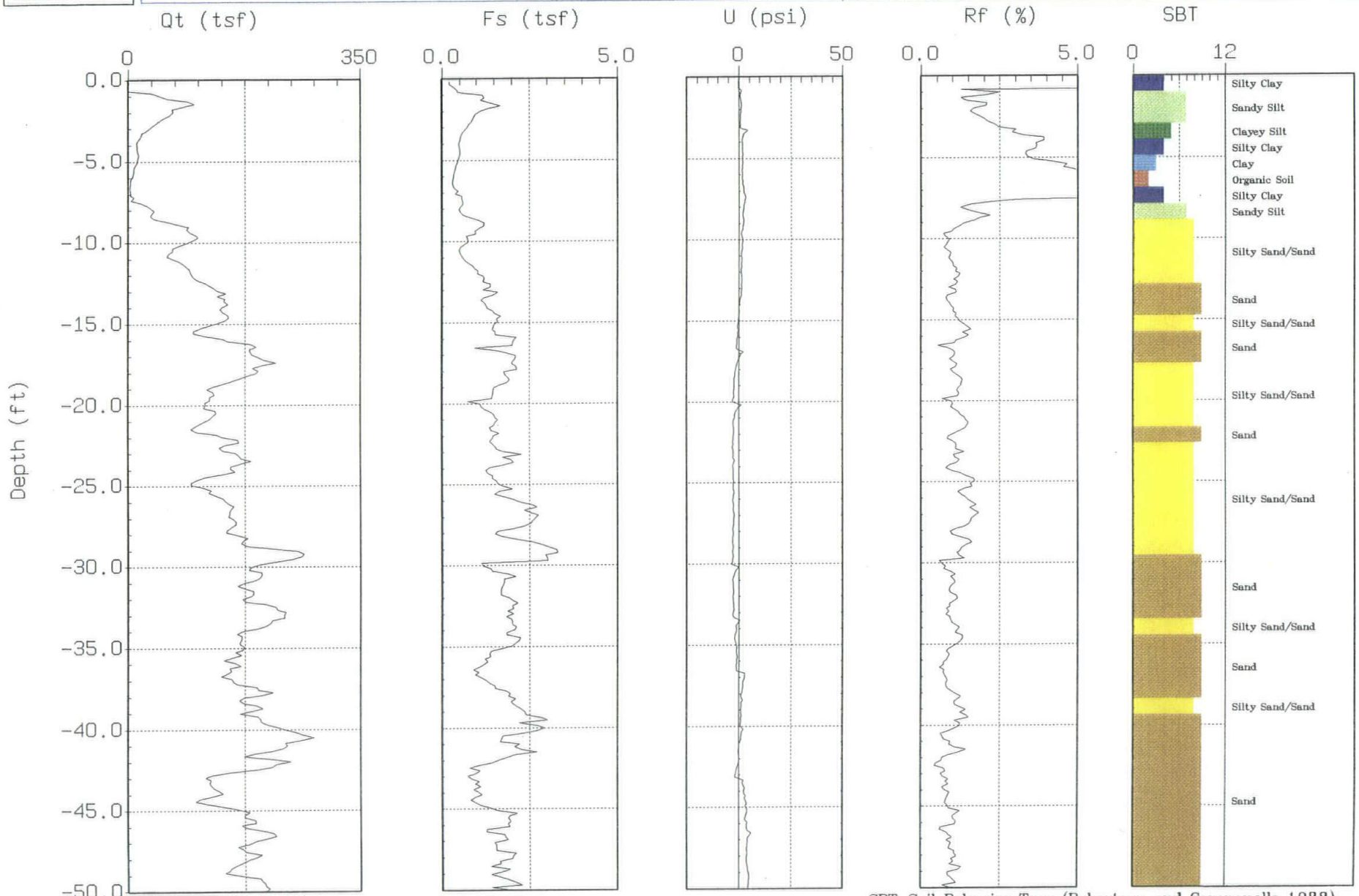
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-13

Geologist : JOSE CERCONE
Date : 12:05:97 14:56



Max. Depth: 60.04 (ft)

Depth Inc.: 0.164 (ft)

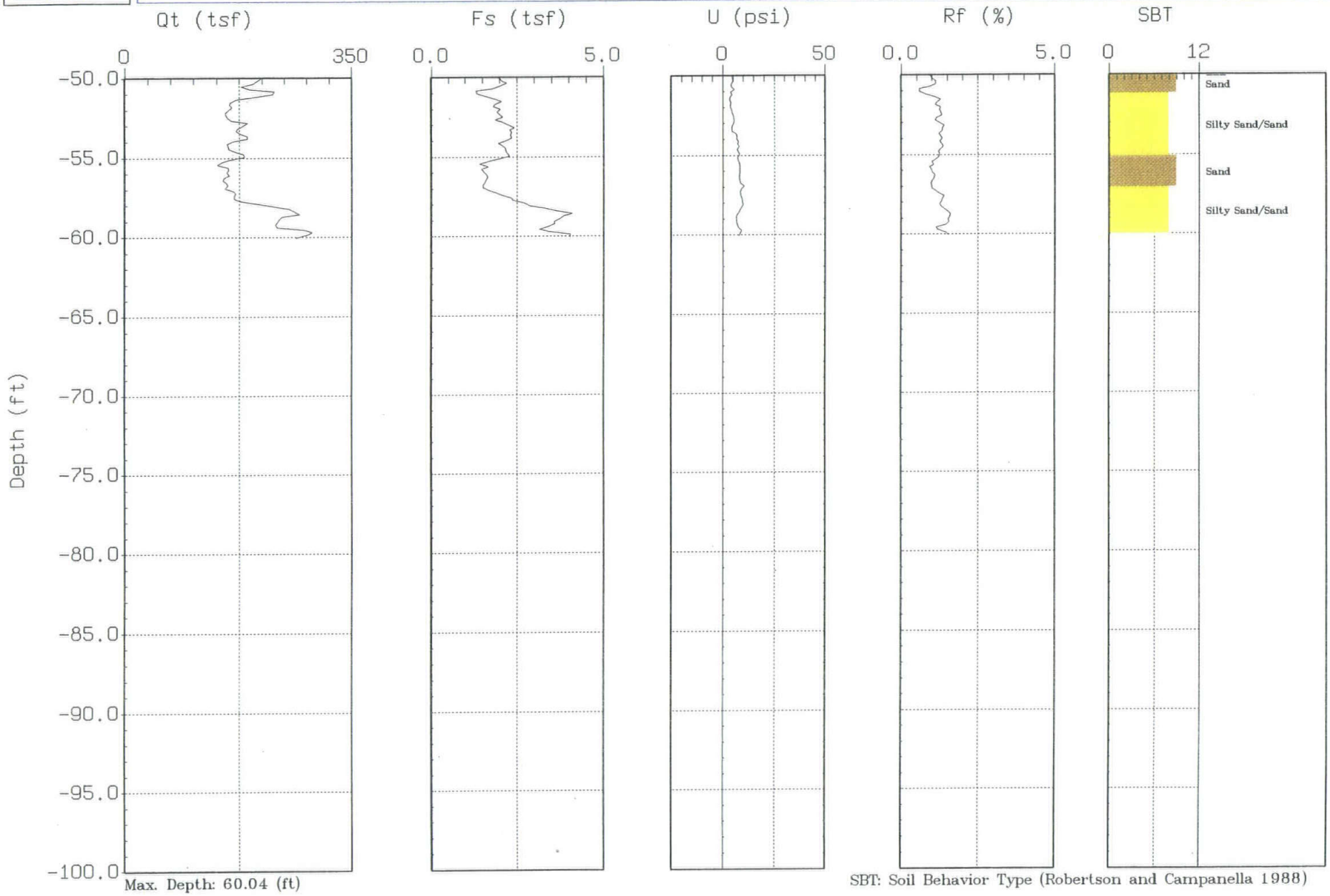
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-13

Geologist : JOSE CERCONE
Date : 12:05:97 14:56



Max. Depth: 60.04 (ft)

Depth Inc.: 0.164 (ft)

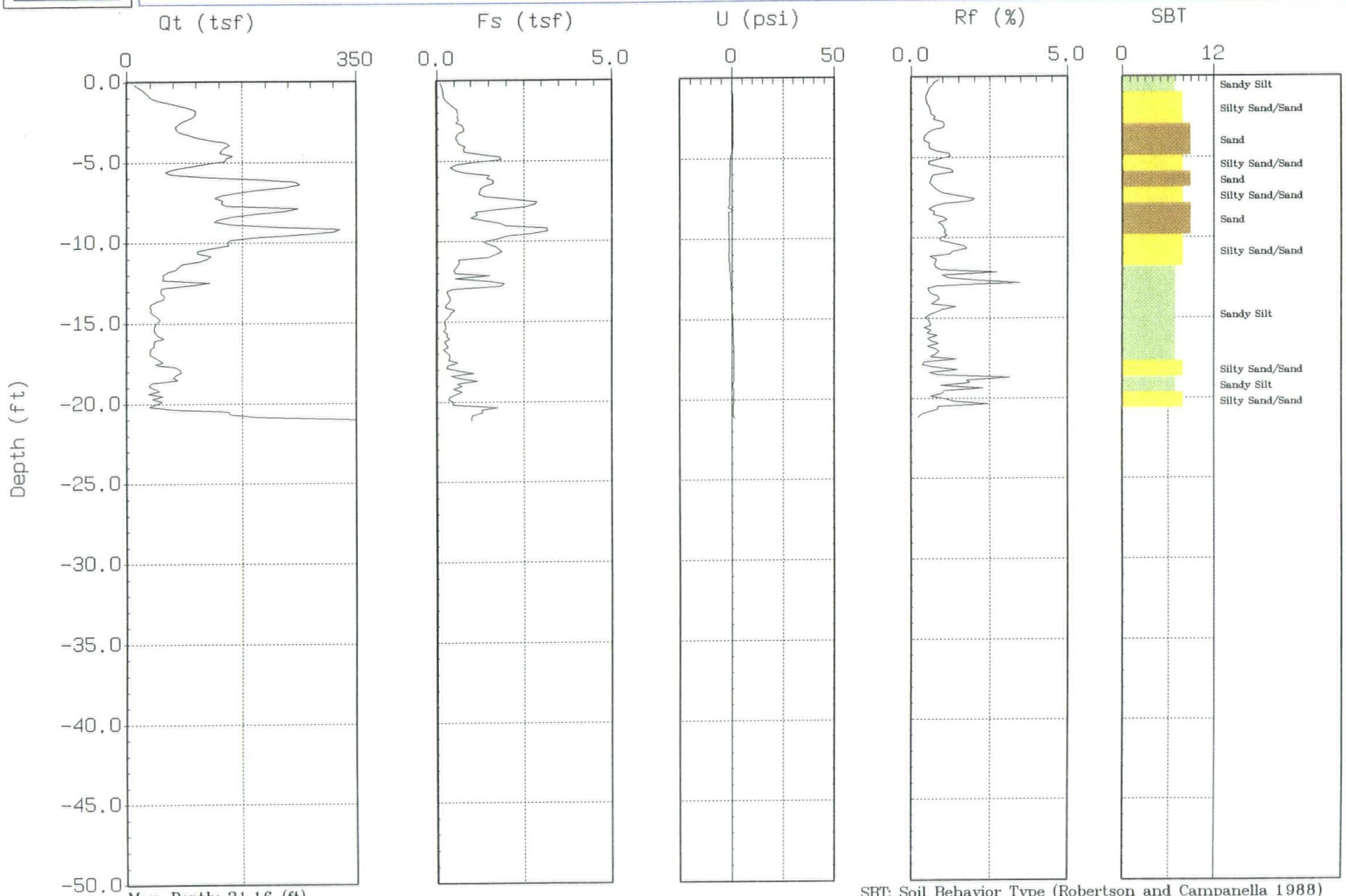
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-14

Geologist : JOSE CERCONE
Date : 12:05:97 11:01



Max. Depth: 21.16 (ft)

Depth Inc.: 0.164 (ft)

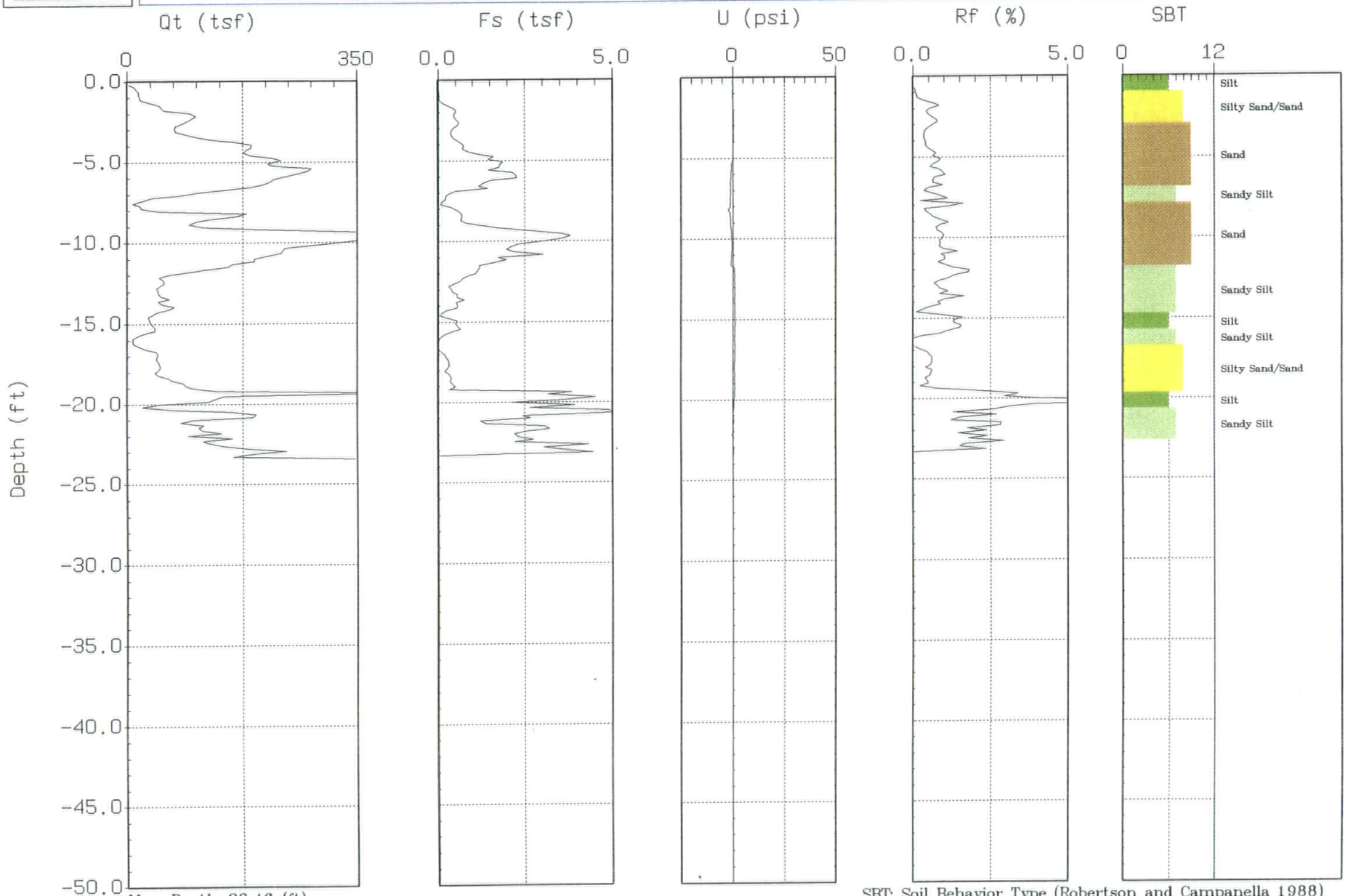
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-14A

Geologist : JOSE CERCONE
Date : 12:05:97 11:20



Max. Depth: 23.46 (ft)

Depth Inc.: 0.164 (ft)

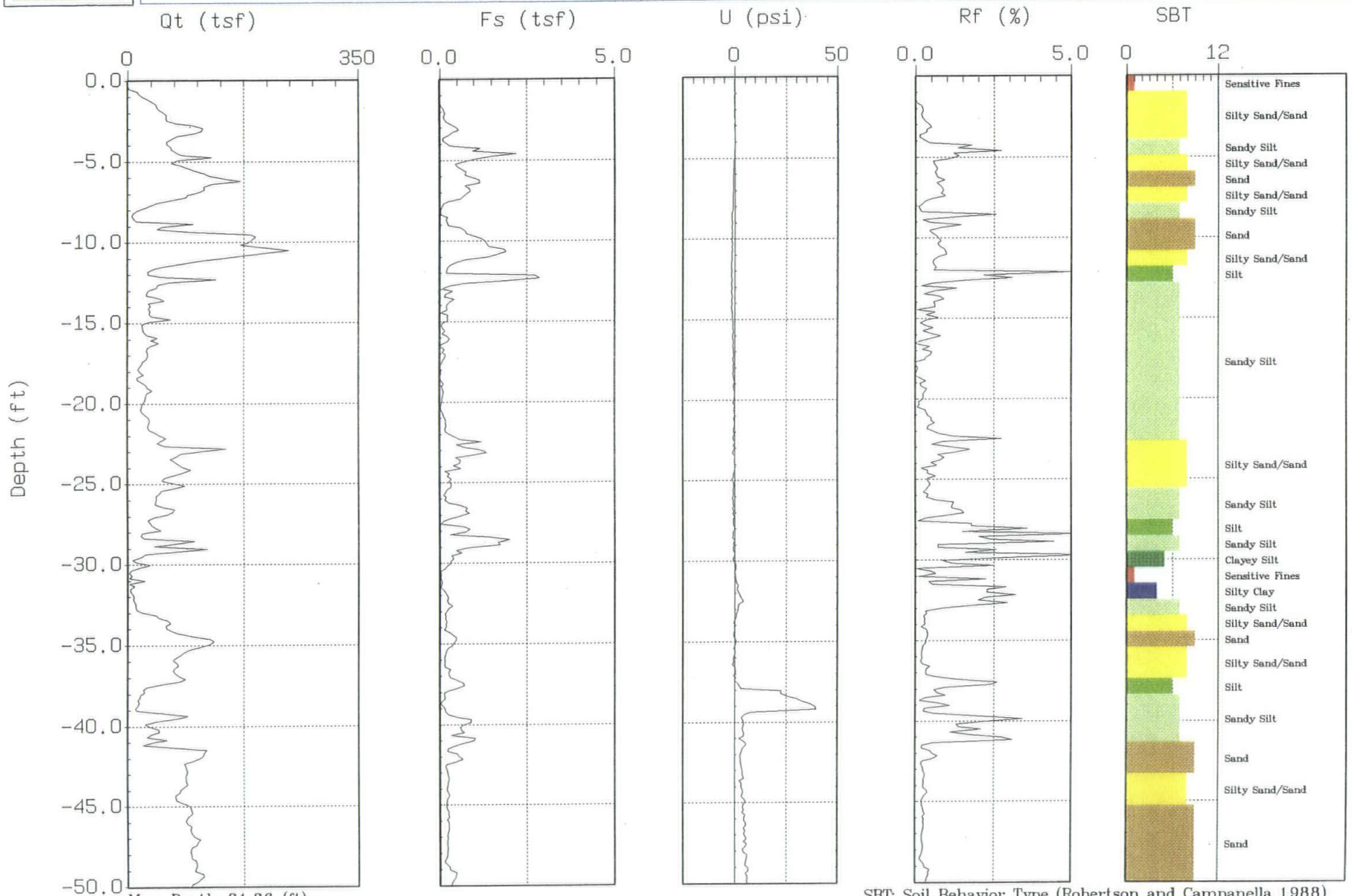
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-14B

Geologist : JOSE CERCONE
Date : 12:05:97 11:39



Max. Depth: 81.86 (ft)

Depth Inc.: 0.164 (ft)

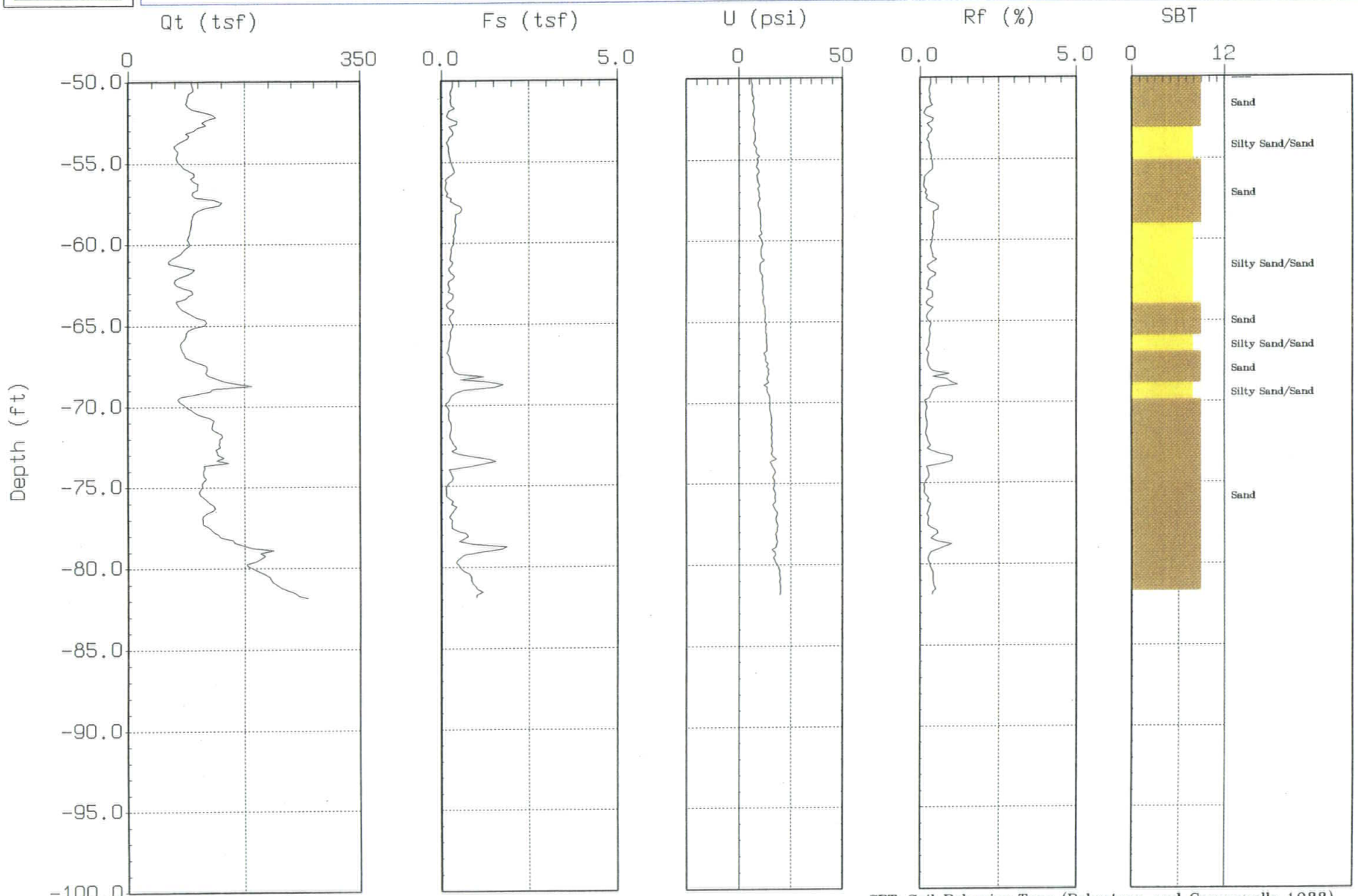
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-14B

Geologist : JOSE CERCONE
Date : 12:05:97 11:39



Max. Depth: 81.86 (ft)

Depth Inc.: 0.164 (ft)

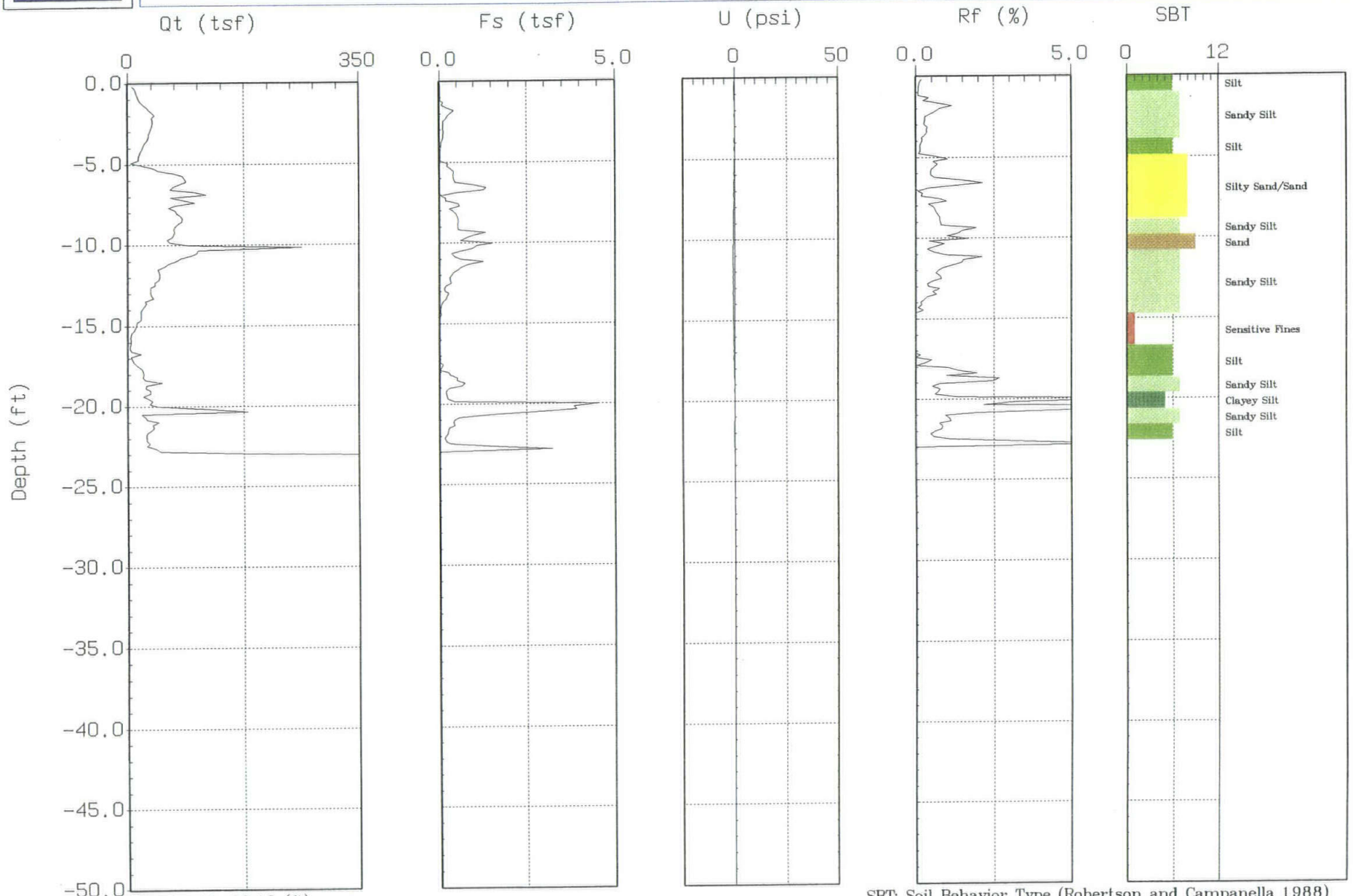
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-15

Geologist : JOSE CERCONE
Date : 11:20:97 15:17



Max. Depth: 23.13 (ft)

Depth Inc.: 0.164 (ft)

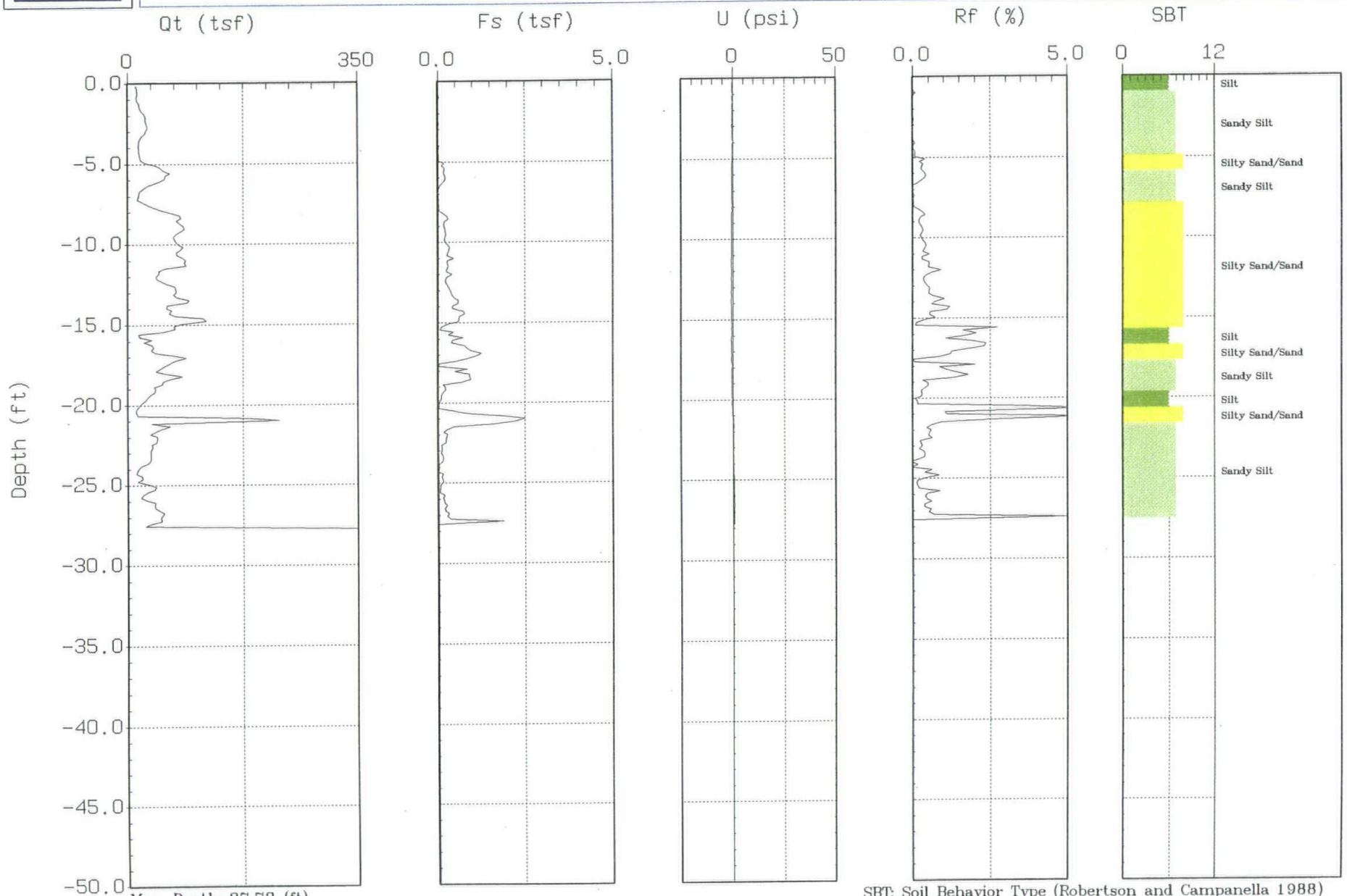
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-15A

Geologist : JOSE CERCONE
Date : 11:20:97 14:51



Max. Depth: 27.72 (ft)

Depth Inc.: 0.164 (ft)

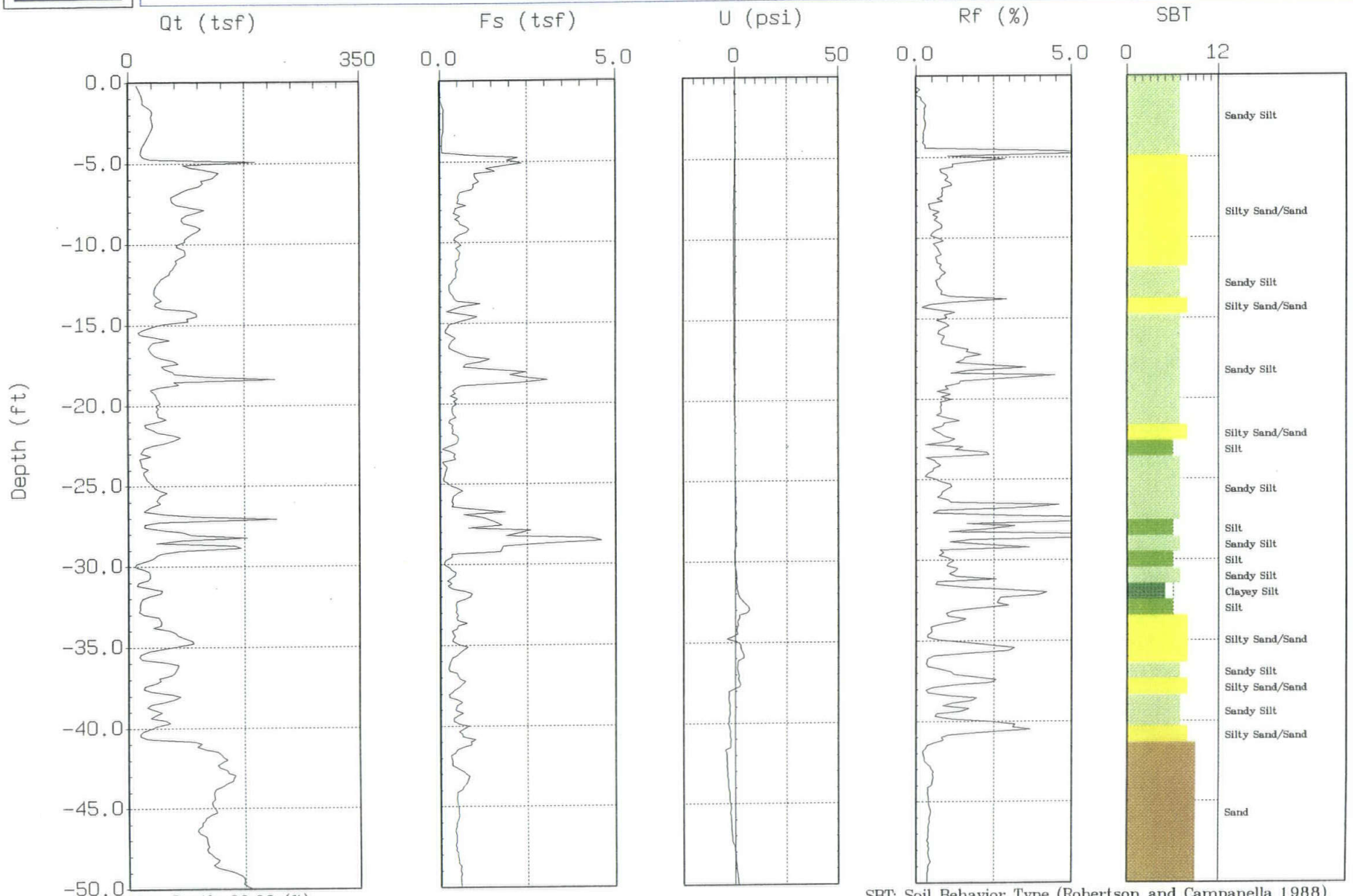
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-15B

Geologist : JOSE CERCONE
Date : 11:20:97 15:42



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

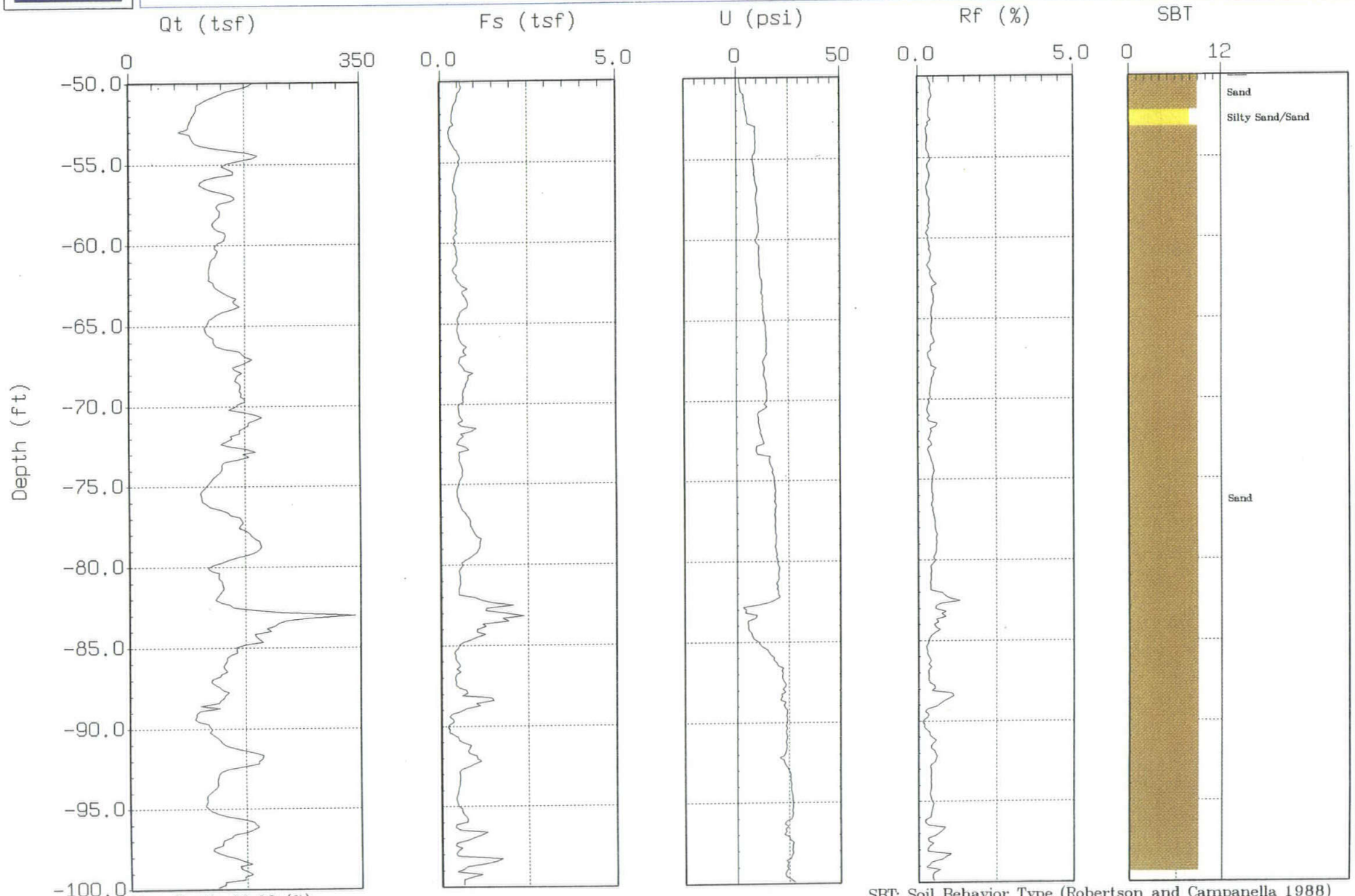
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-15B

Geologist : JOSE CERCONE
Date : 11:20:97 15:42



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

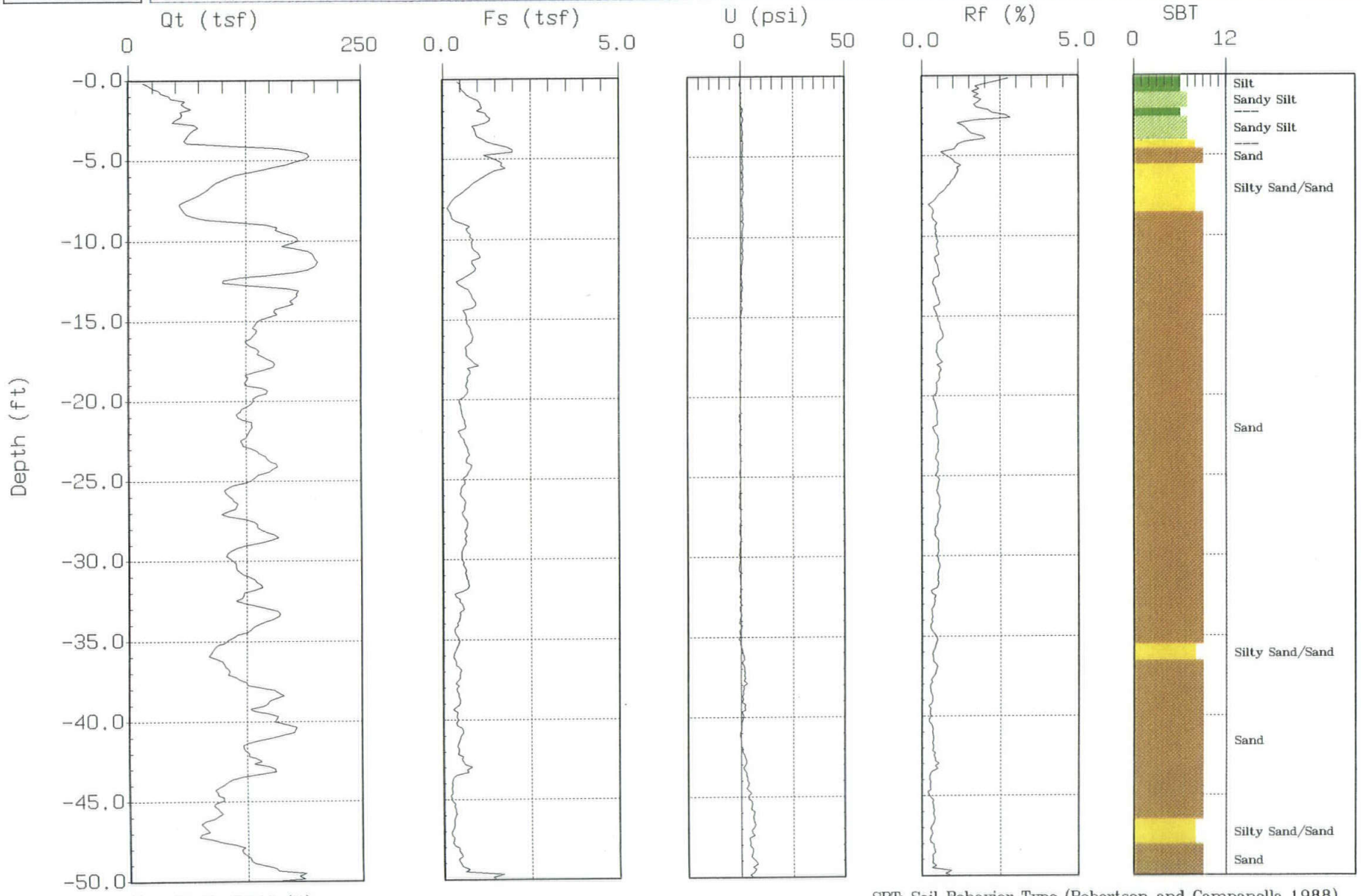
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-16

Geologist : JOSE CERCONE
Date : 12:10:97 07:52



Max. Depth: 84.15 (ft)

Depth Inc.: 0.164 (ft)

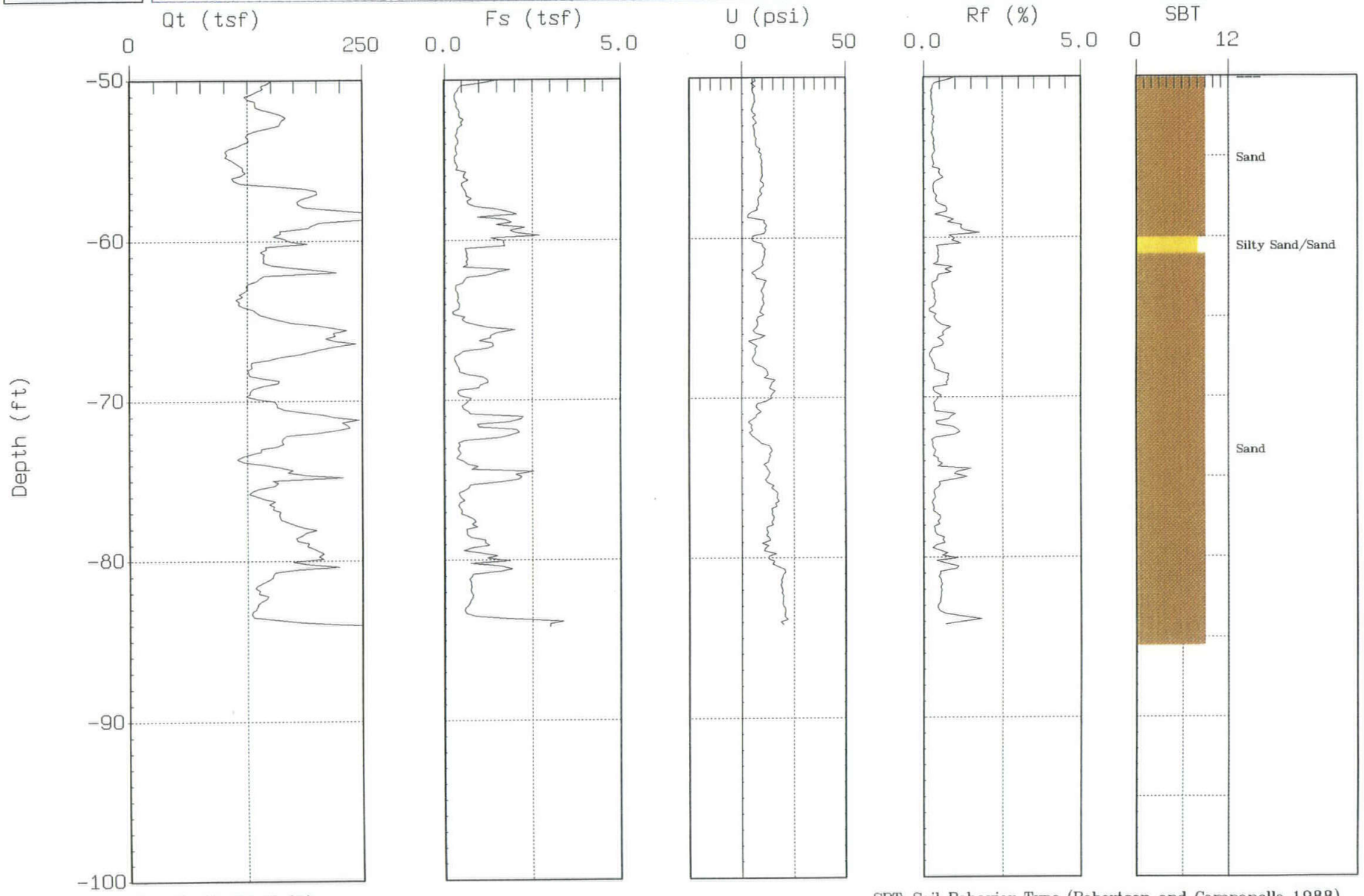
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-16

Geologist : JOSE CERCONE
Date : 12:10:97 07:52



Max. Depth: 84.15 (ft)

Depth Inc.: 0.164 (ft)

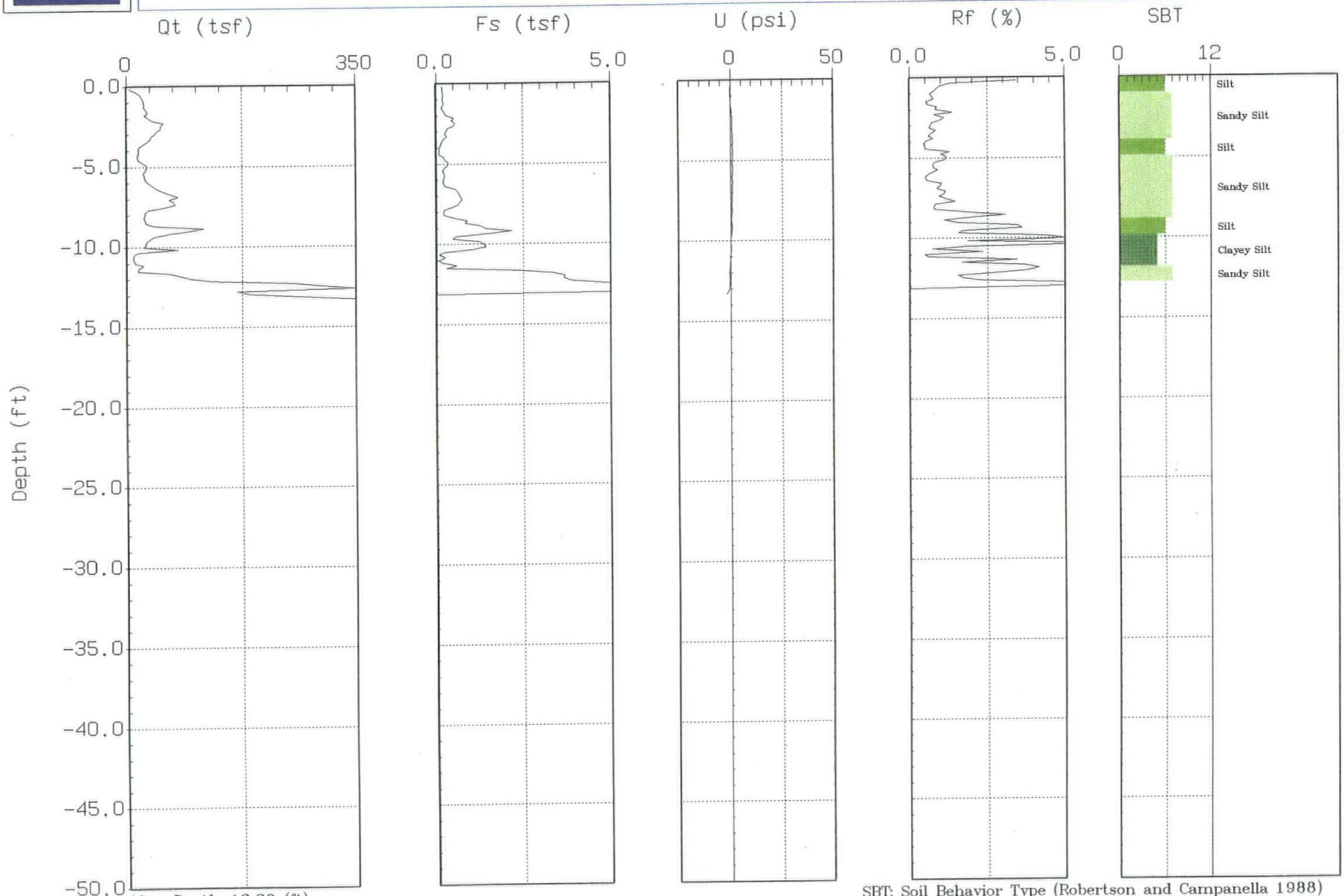
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-17

Geologist : JOSE CERCONE
Date : 11:01:97 10:47



Max. Depth: 13.29 (ft)

Depth Inc.: 0.164 (ft)

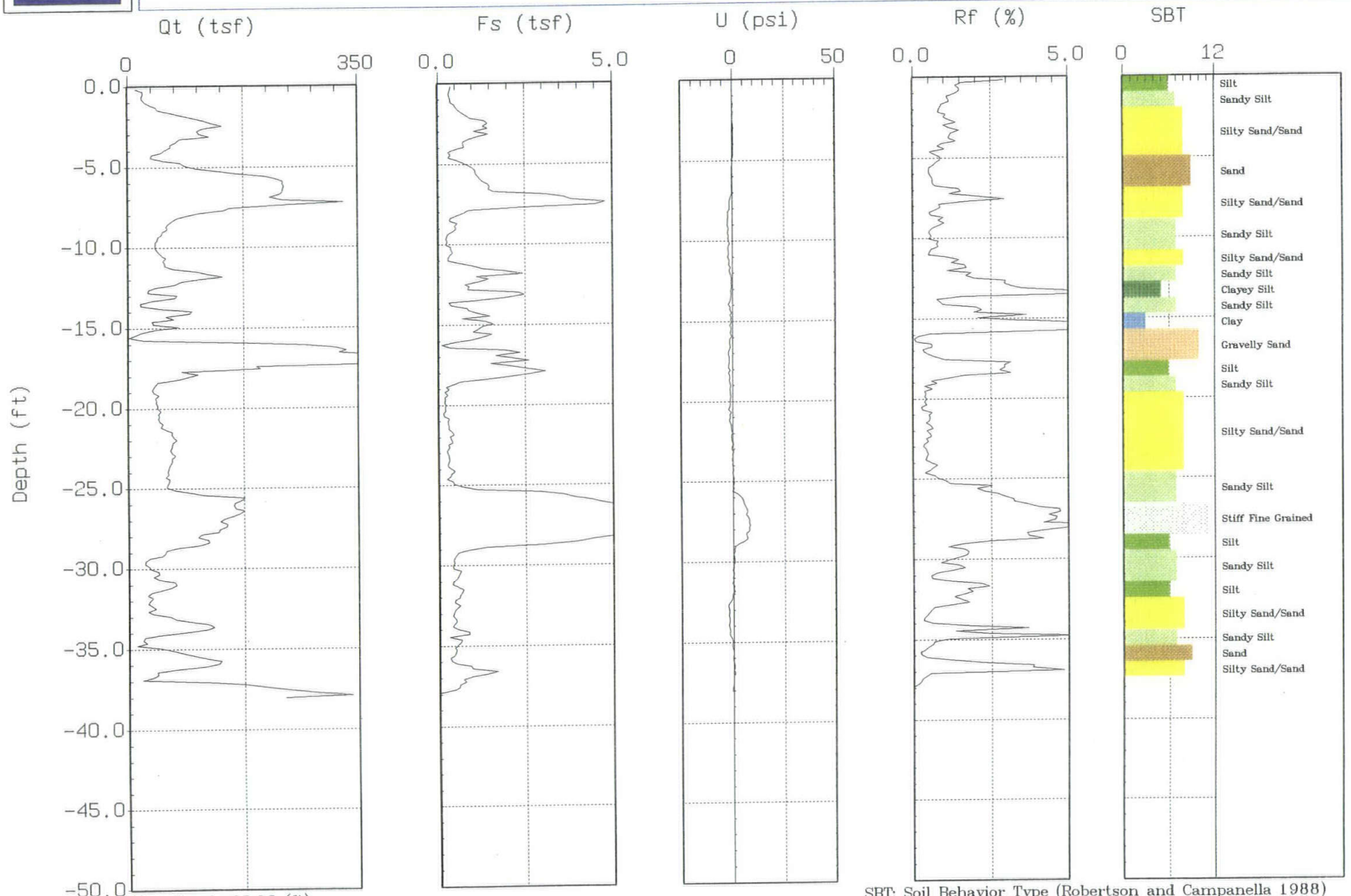
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : 13
Location : W3-17A

Geologist : 20 TON A AD054
Date : 11:01:97 11:02



Max. Depth: 38.06 (ft)

Depth Inc.: 0.164 (ft)

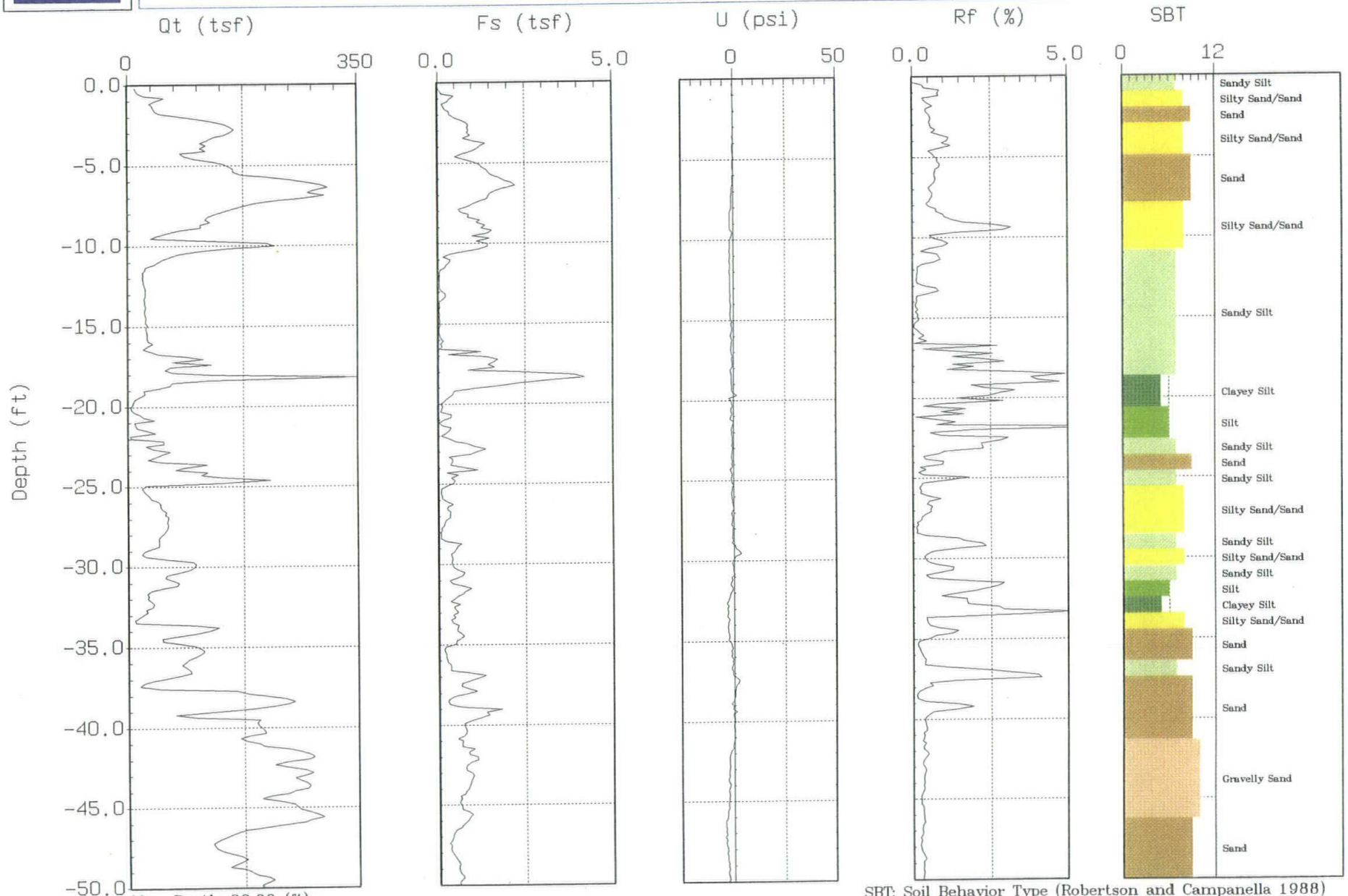
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-17B

Geologist : JOSE CERCONE
Date : 11:01:97 11:27



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

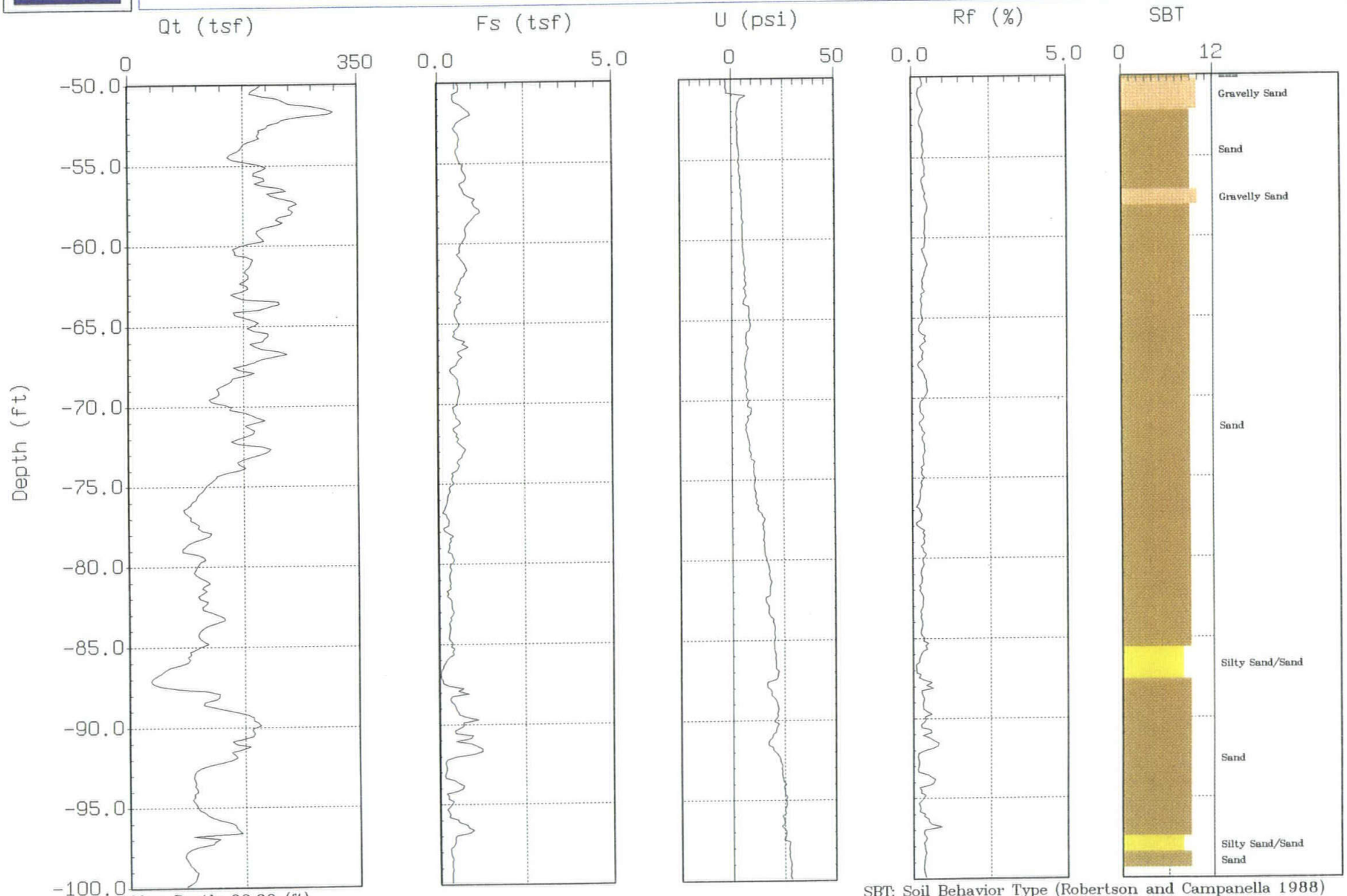
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W3-17B

Geologist : JOSE CERCONE
Date : 11:01:97 11:27



Max. Depth: 99.90 (ft)

Depth Inc.: 0.164 (ft)

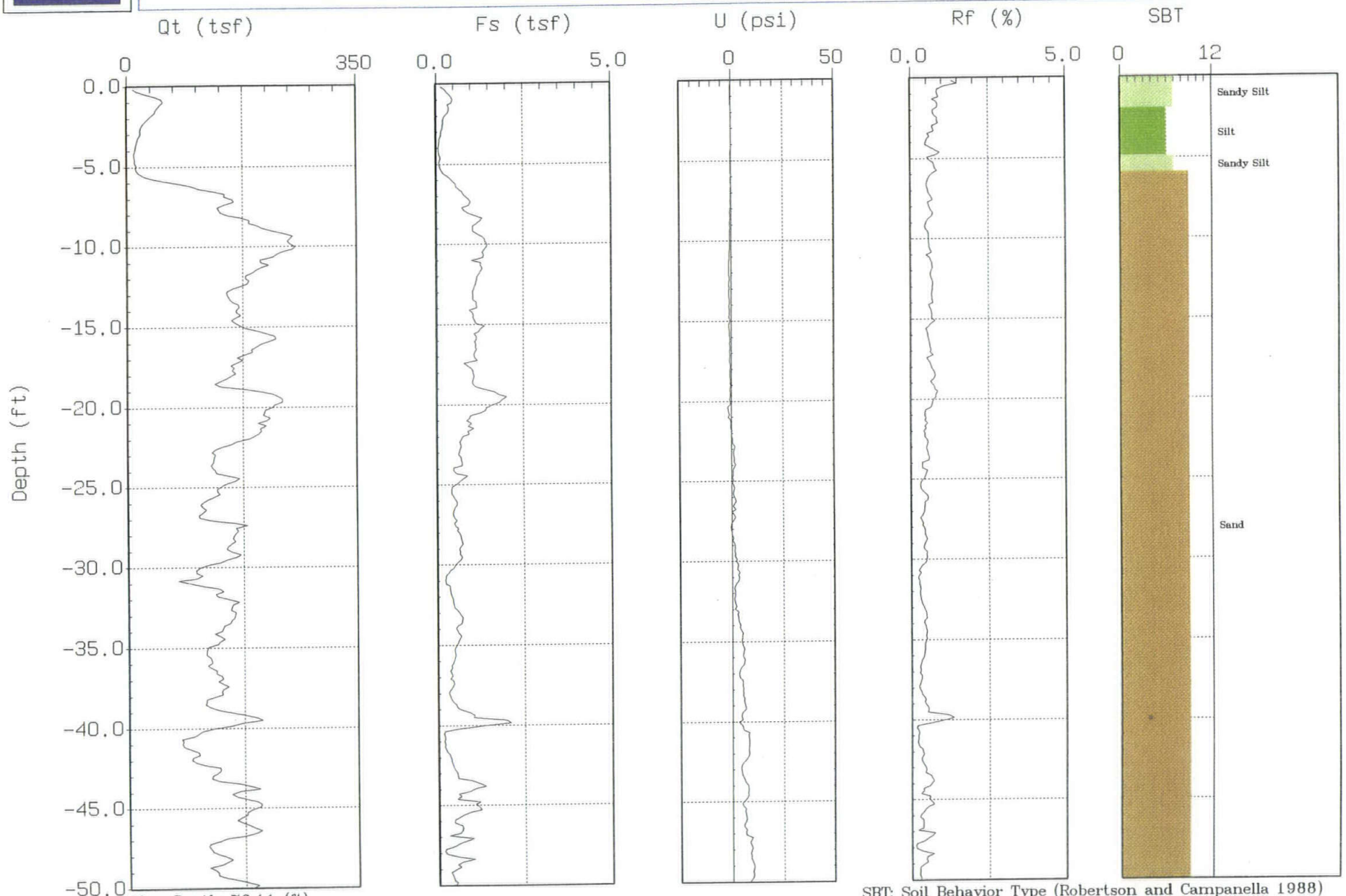
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-1

Geologist : JOSE CERCONE
Date : 12:01:97 08:38



Max. Depth: 76.11 (ft)

Depth Inc.: 0.164 (ft)

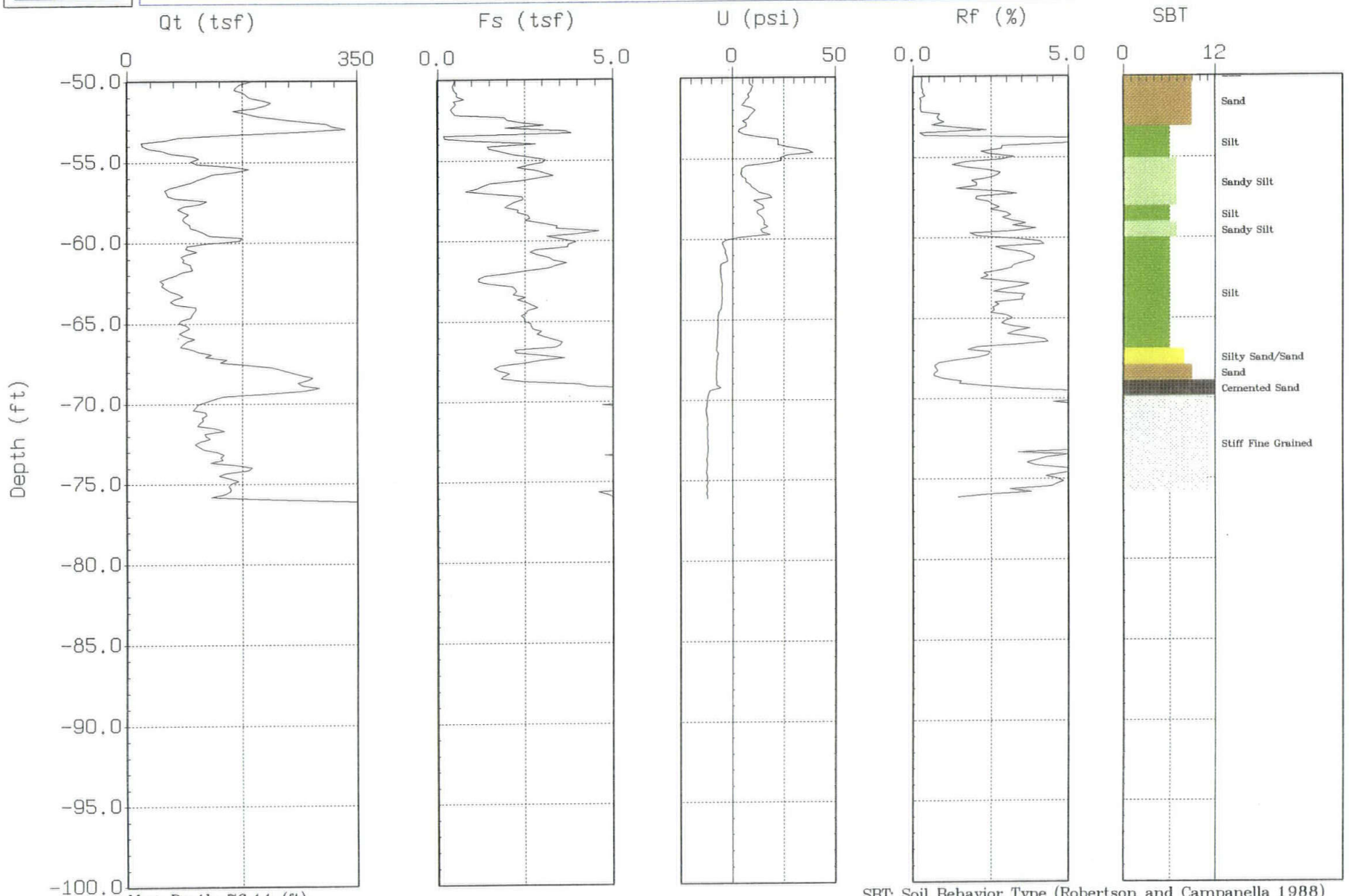
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-1

Geologist : JOSE CERCONE
Date : 12:01:97 08:38



Max. Depth: 76.11 (ft)

Depth Inc.: 0.164 (ft)

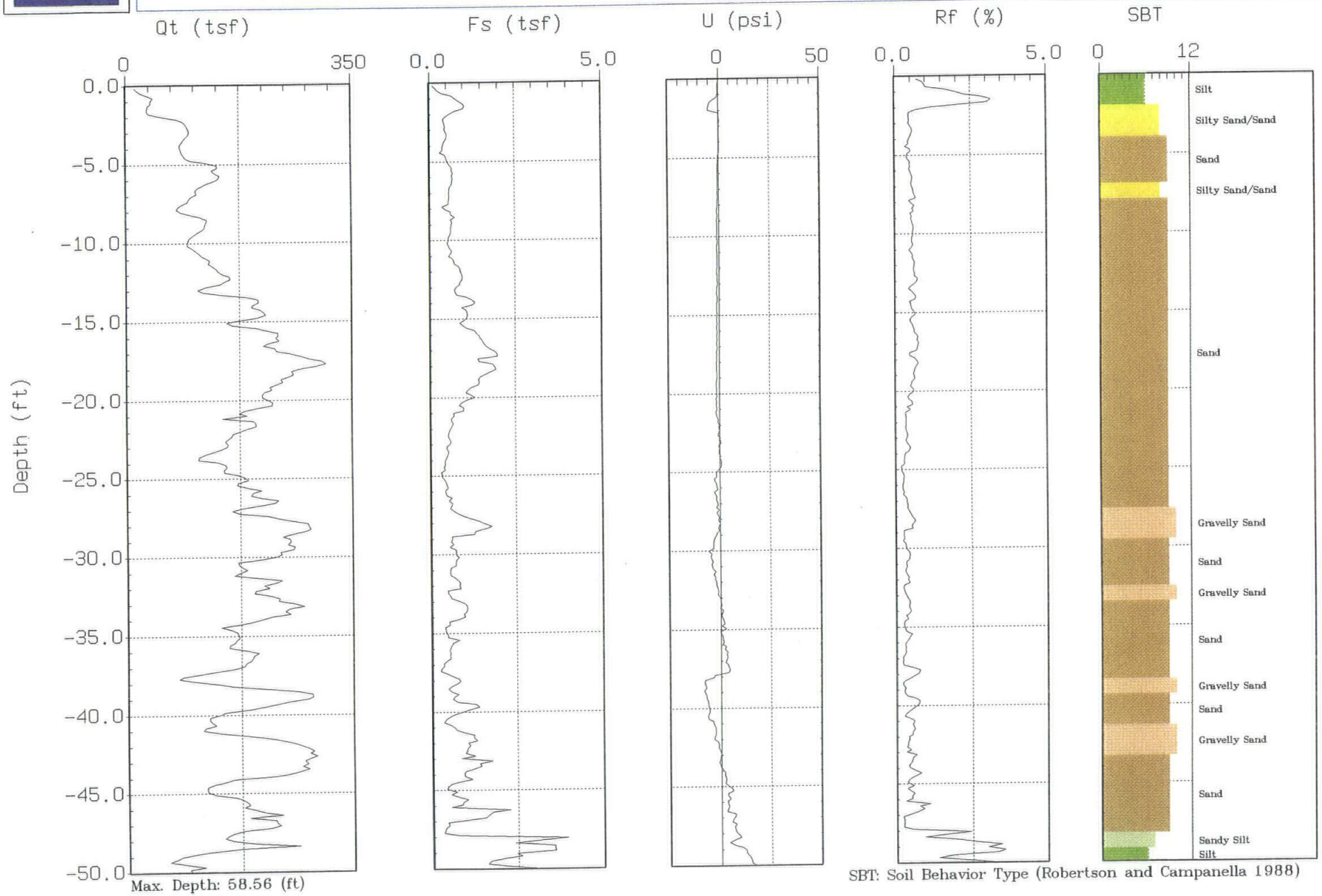
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-2

Geologist : JOSE CERCONE
Date : 12:02:97 07:51



Max. Depth: 58.56 (ft)

Depth Inc.: 0.164 (ft)

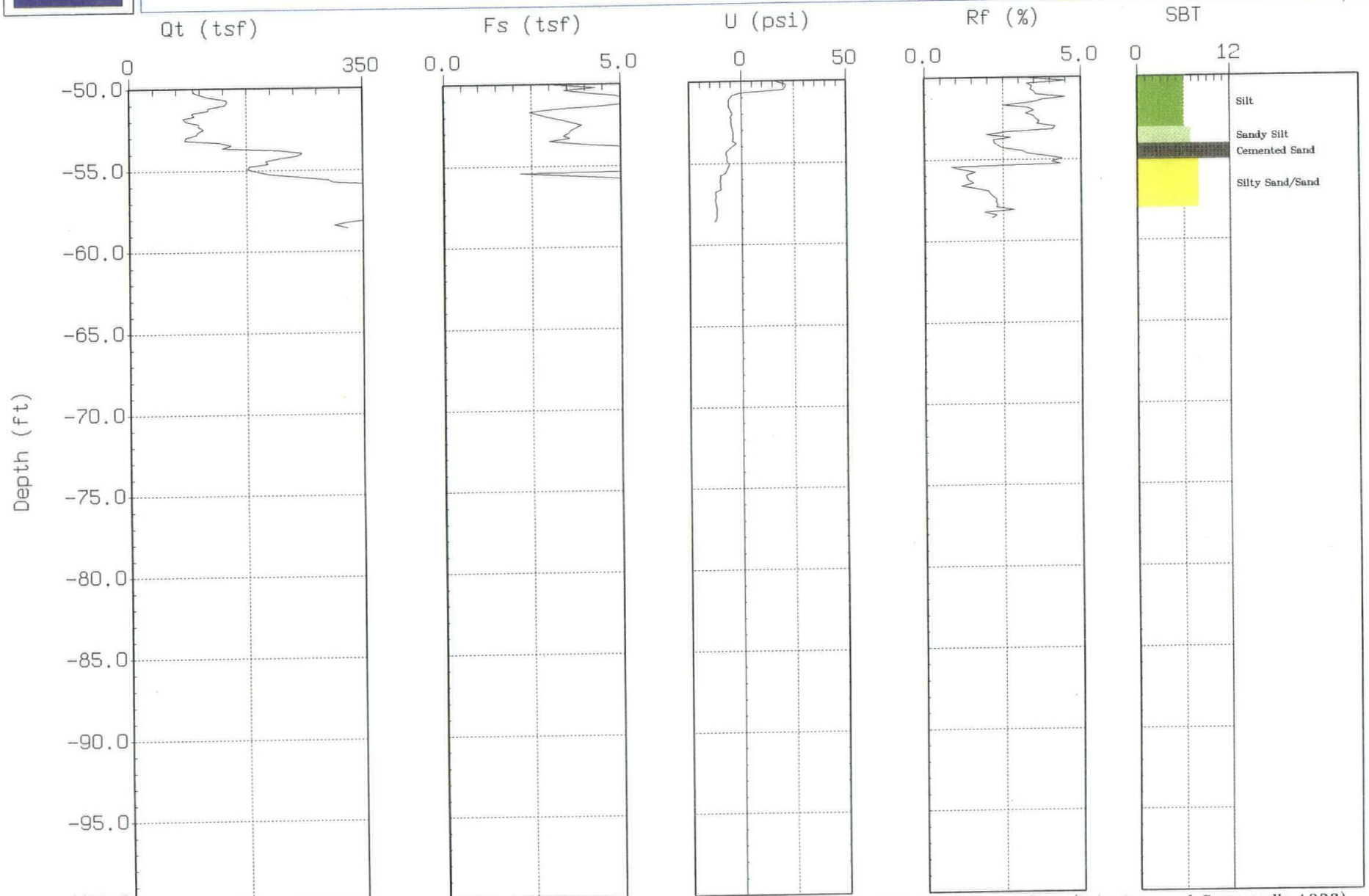
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-2

Geologist : JOSE CERCONE
Date : 12:02:97 07:51



Max. Depth: 58.56 (ft)

Depth Inc.: 0.164 (ft)

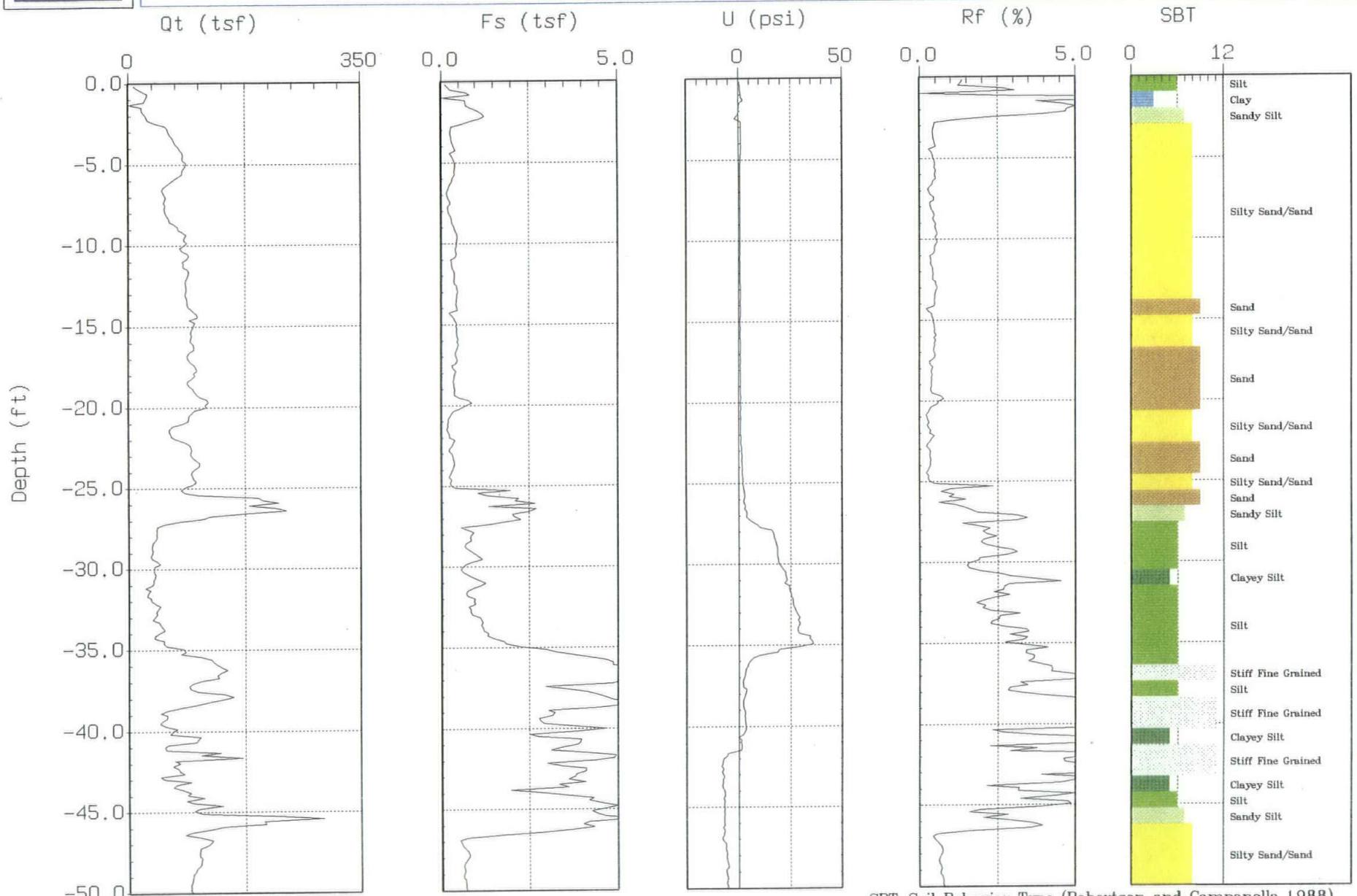
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-3

Geologist : JOSE CERCONE
Date : 12:02:97 08:46



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

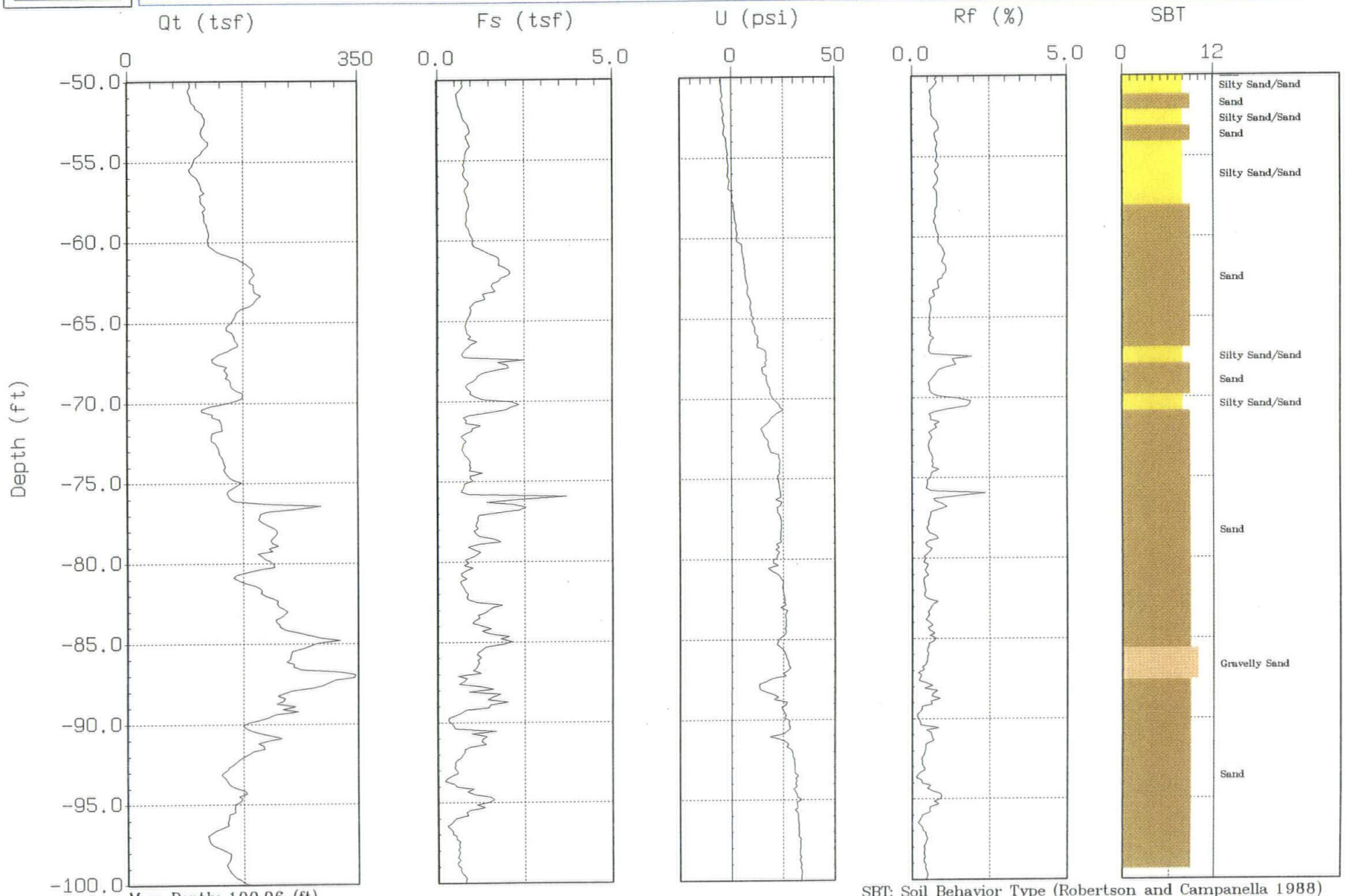
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-3

Geologist : JOSE CERCONE
Date : 12:02:97 08:46



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

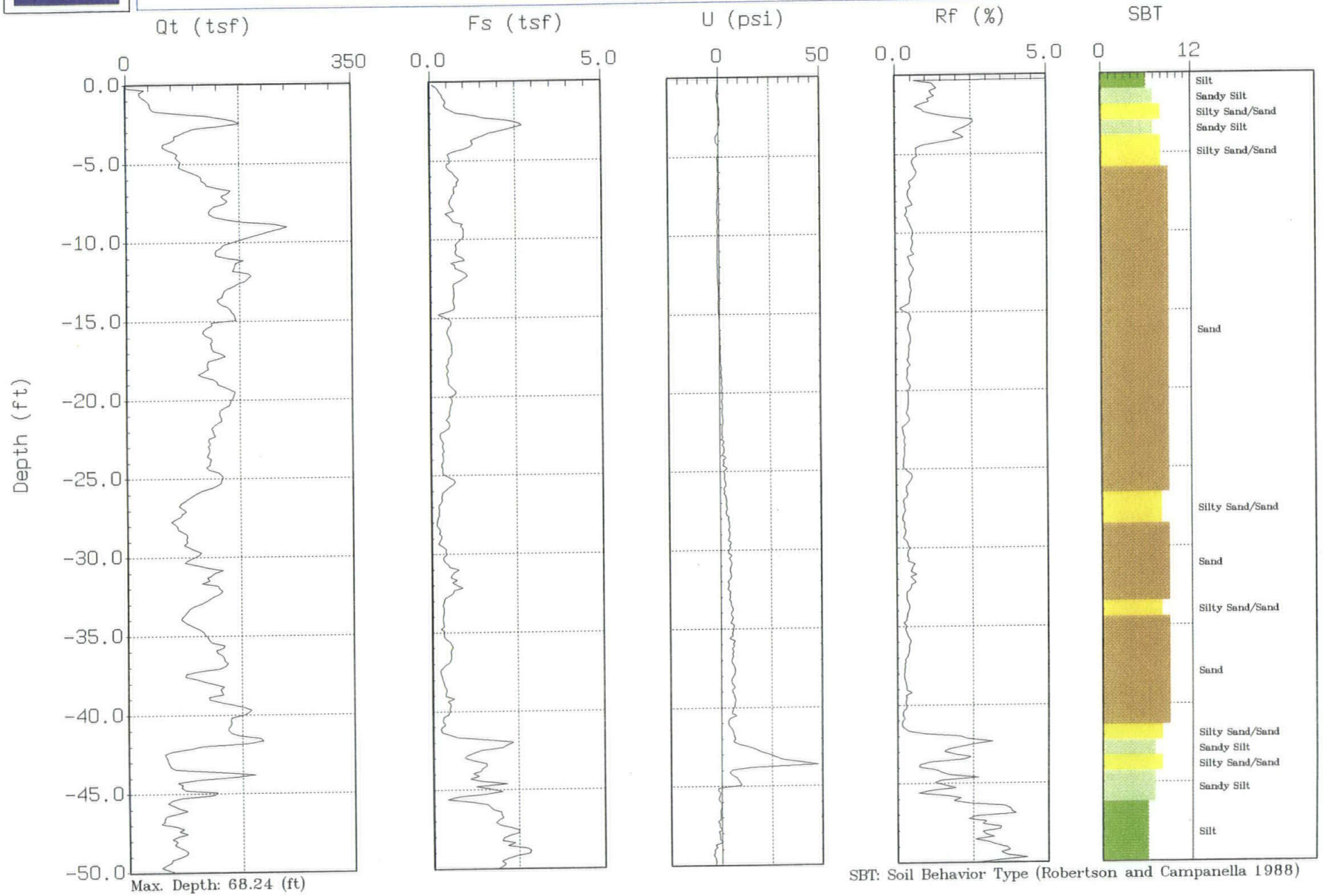
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-4

Geologist : JOSE CERCONE
Date : 12:07:97 07:34



Max. Depth: 68.24 (ft)

Depth Inc.: 0.164 (ft)

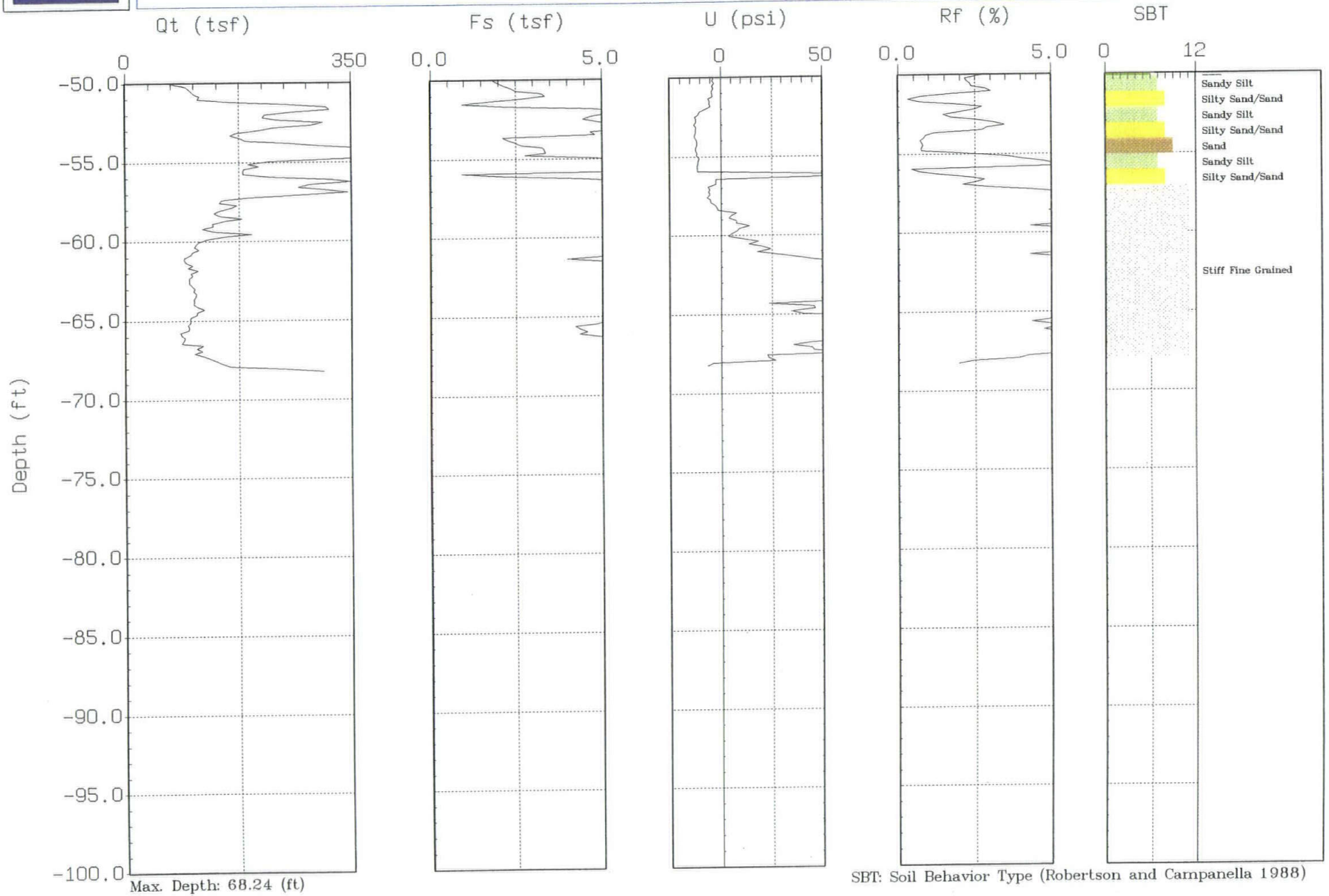
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-4

Geologist : JOSE CERCONE
Date : 12:07:97 07:34



Max. Depth: 68.24 (ft)

Depth Inc.: 0.164 (ft)

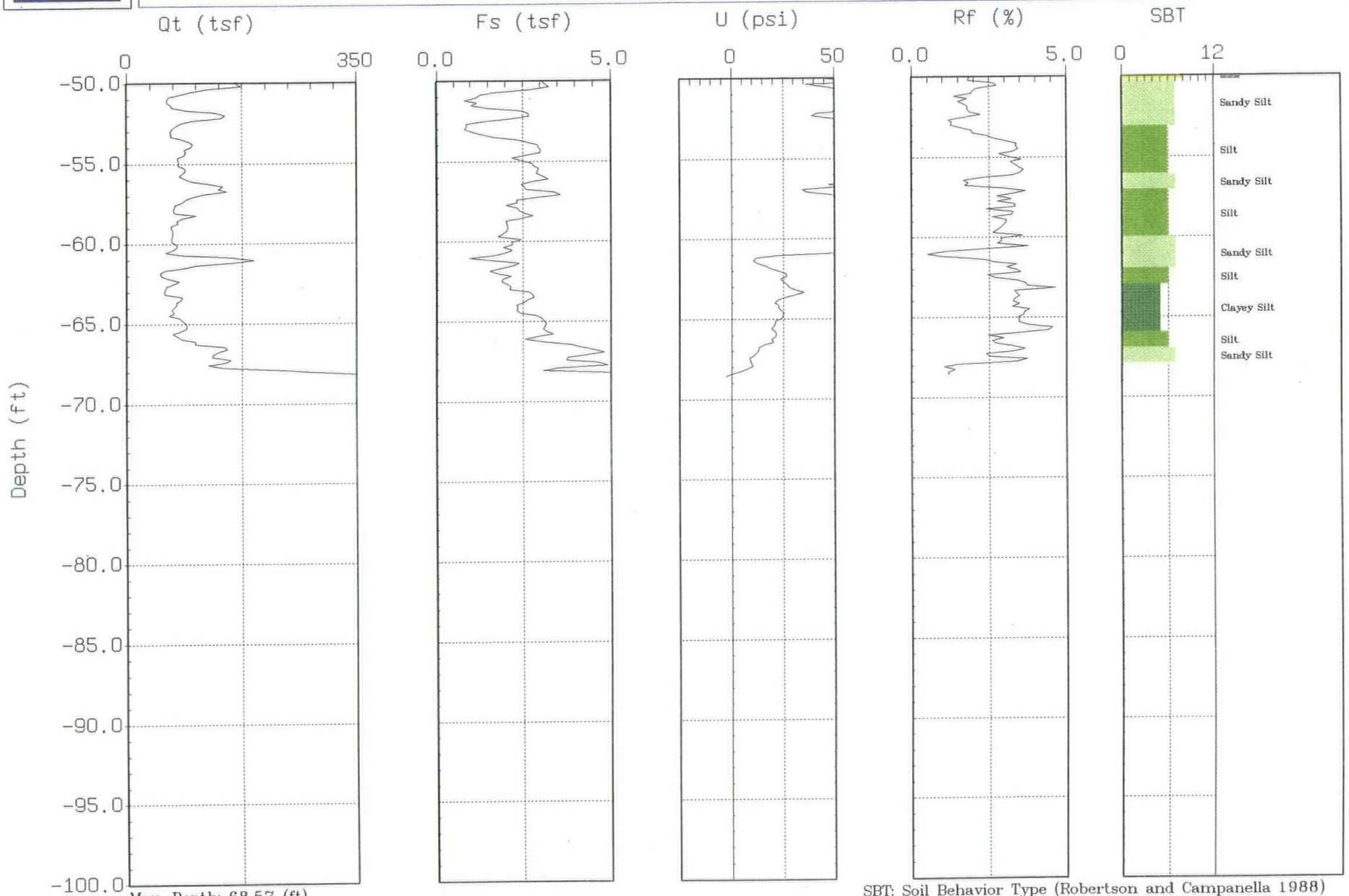
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-5

Geologist : JOSE CERCONE
Date : 12:07:97 08:25



Max. Depth: 68.57 (ft)

Depth Inc.: 0.164 (ft)

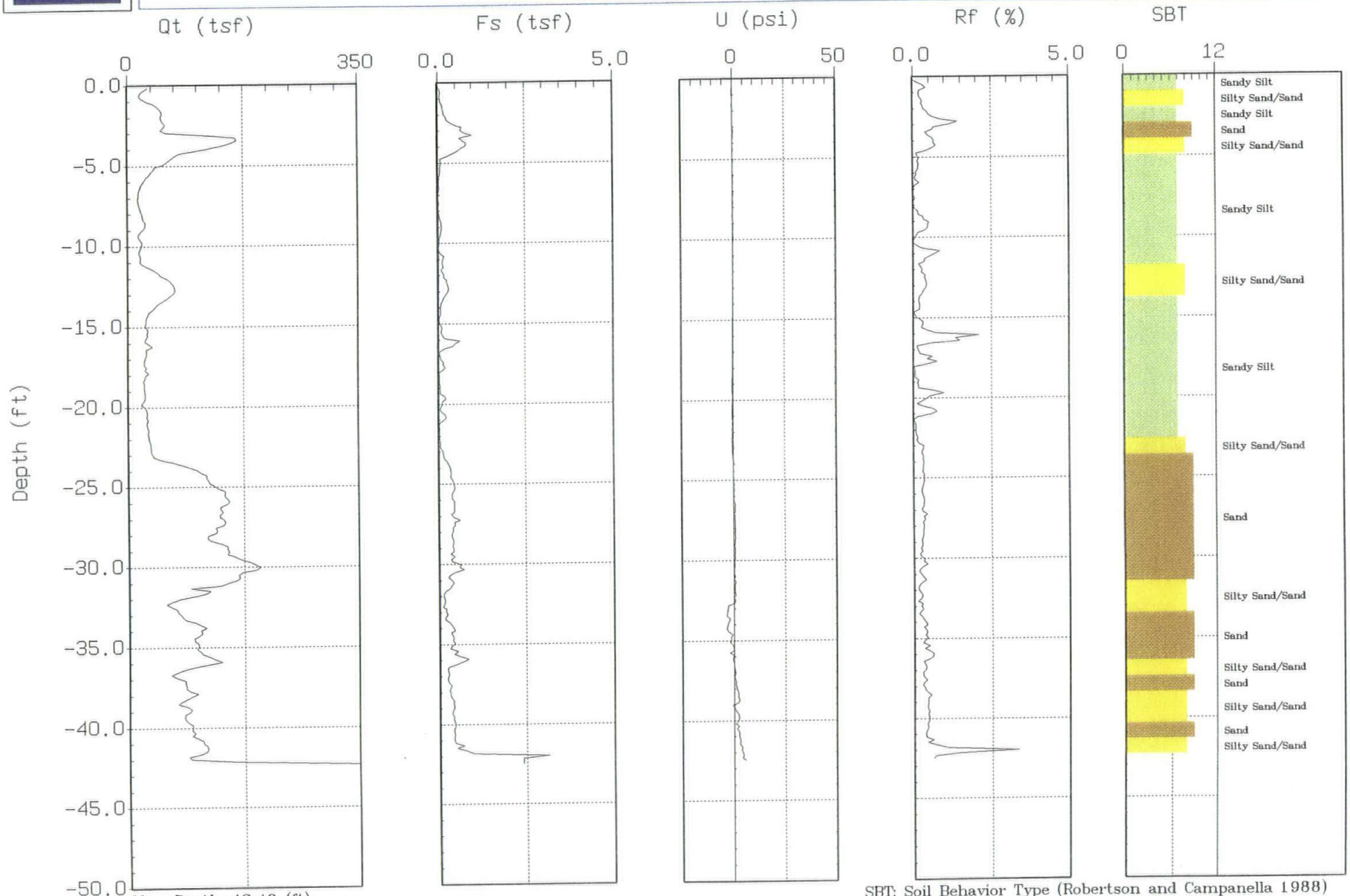
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-7

Geologist : JOSE CERCONE
Date : 12:08:97 08:35



Max. Depth: 42.49 (ft)

Depth Inc.: 0.164 (ft)

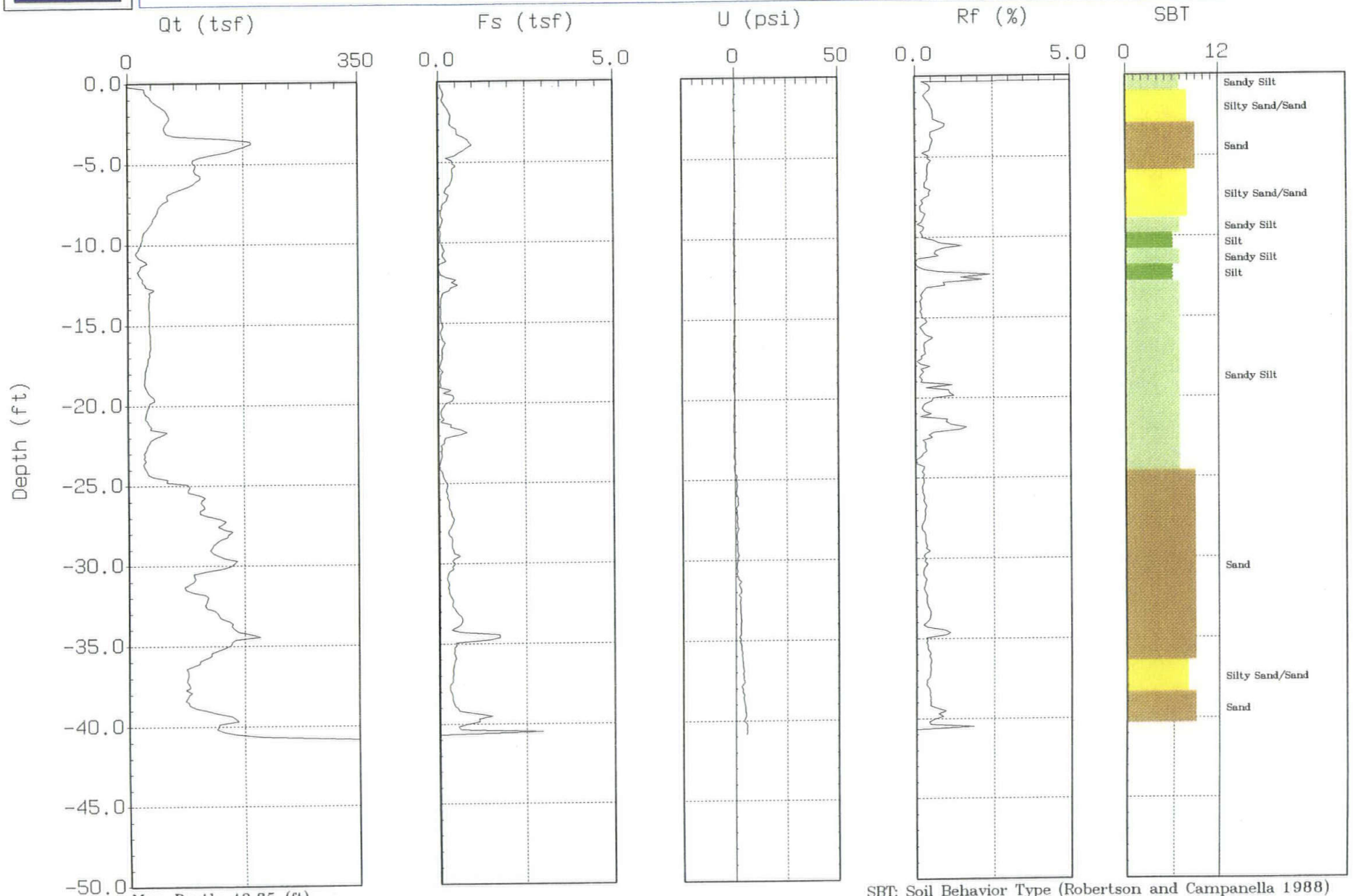
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-7A

Geologist : JOSE CERCONE
Date : 12:08:97 09:08



Max. Depth: 40.85 (ft)

Depth Inc.: 0.164 (ft)

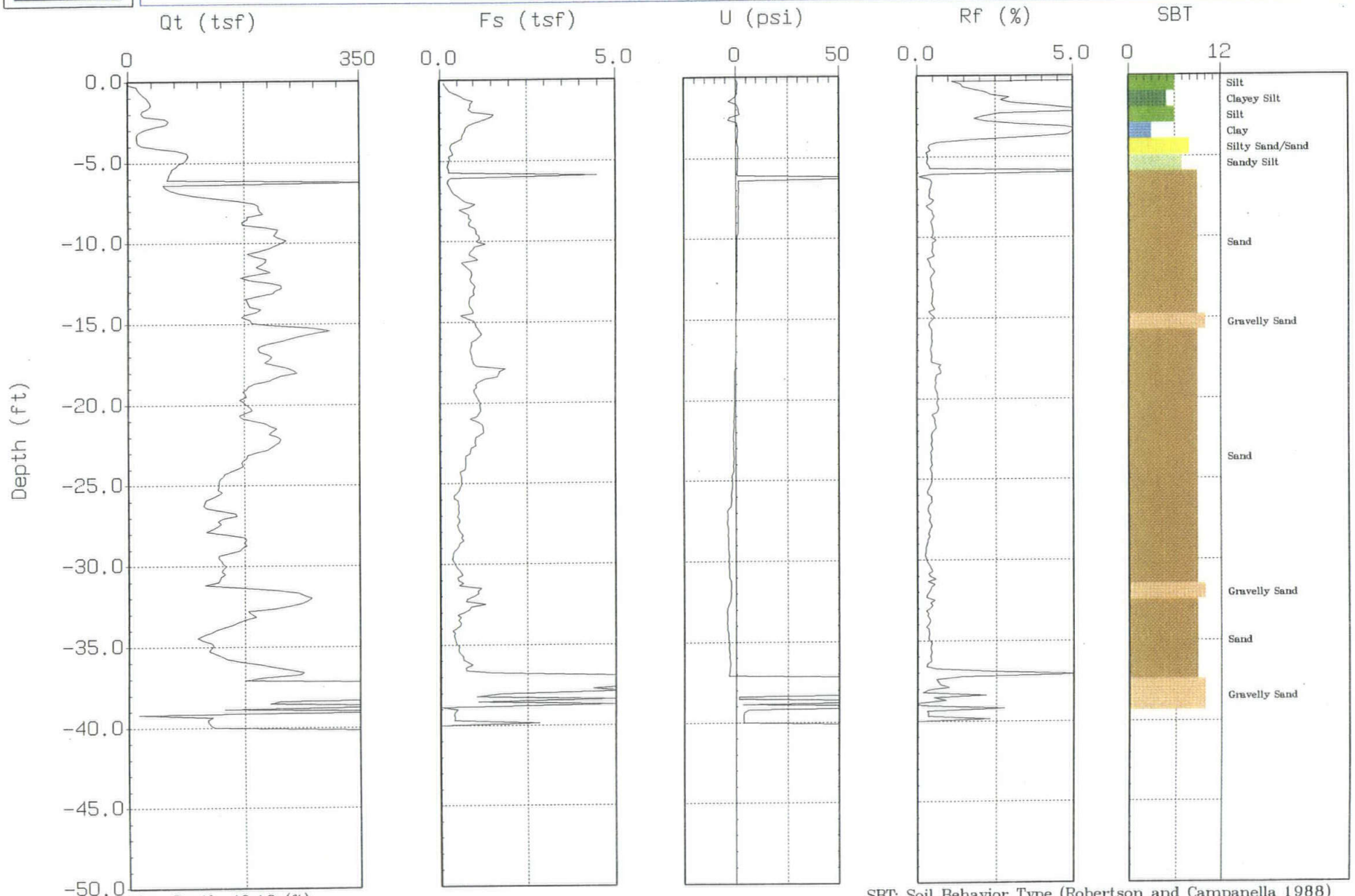
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : 115
Location : W4-8

Geologist : 20 TON A AD062
Date : 12:07:97 13:34



Max. Depth: 40.19 (ft)

Depth Inc.: 0.164 (ft)

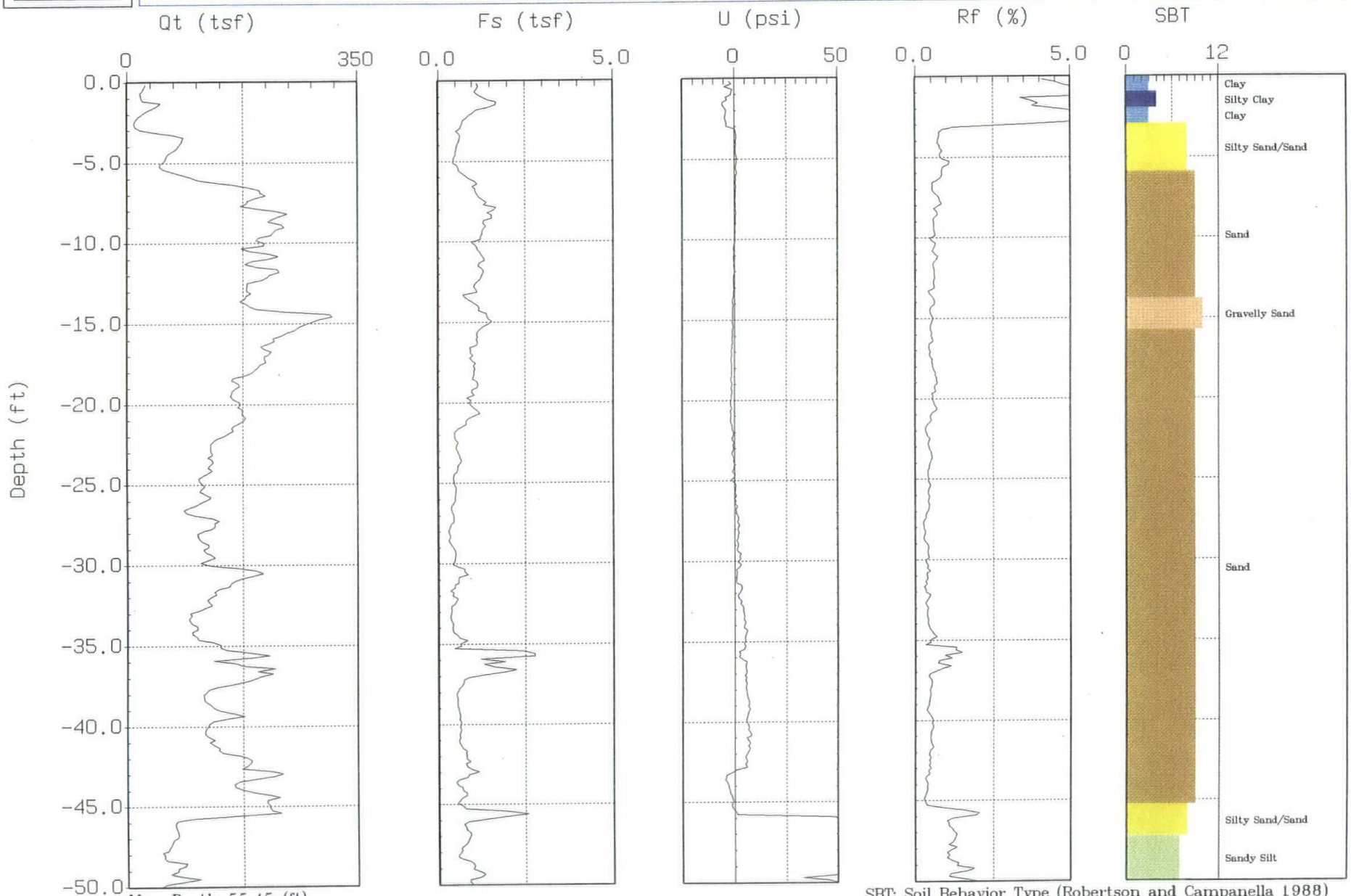
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-8A

Geologist : JOSE CERCONE
Date : 12:08:97 07:38



Max. Depth: 55.45 (ft)

Depth Inc.: 0.164 (ft)

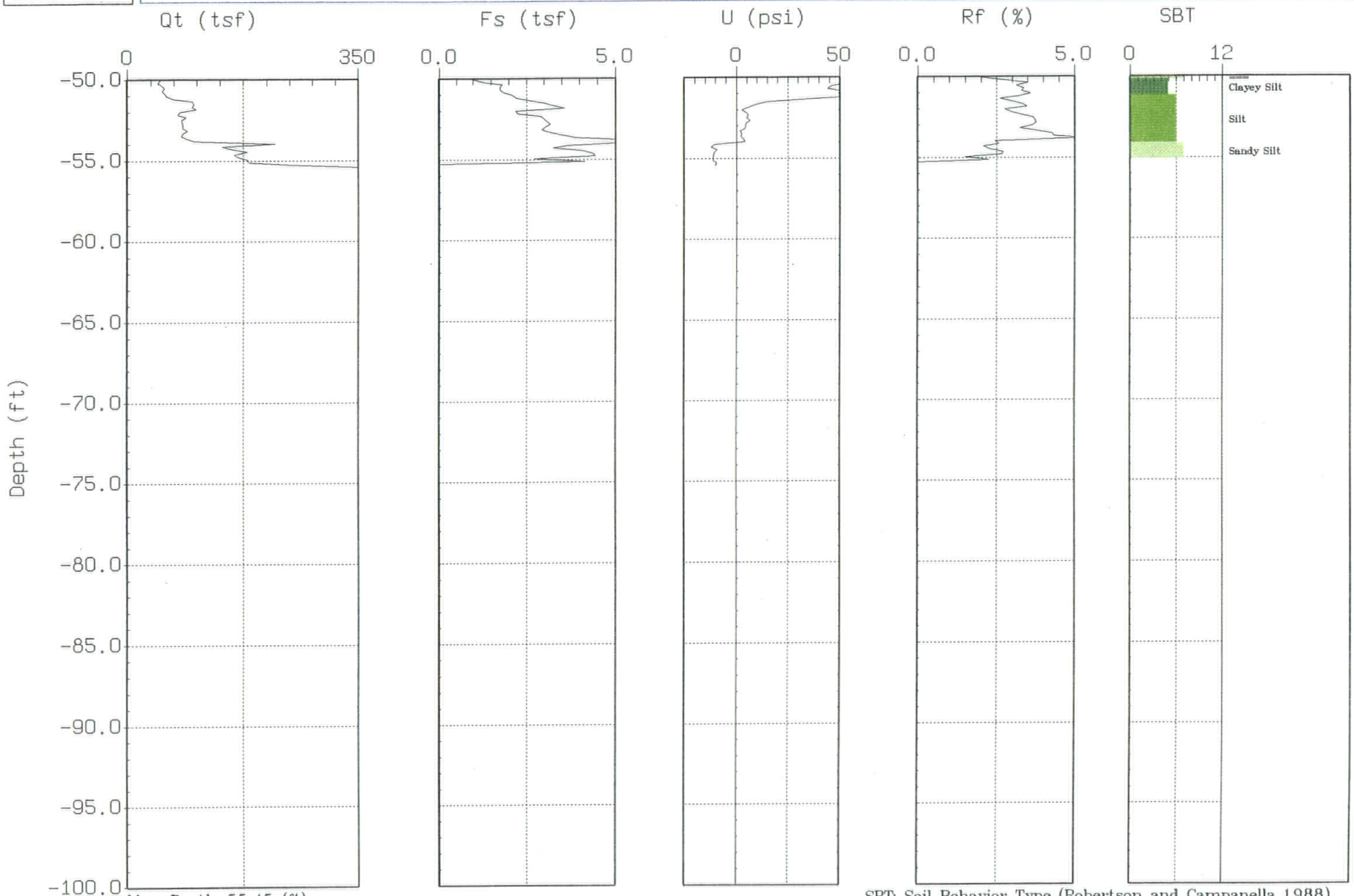
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-8A

Geologist : JOSE CERCONE
Date : 12:08:97 07:38



Max. Depth: 55.45 (ft)

Depth Inc.: 0.164 (ft)

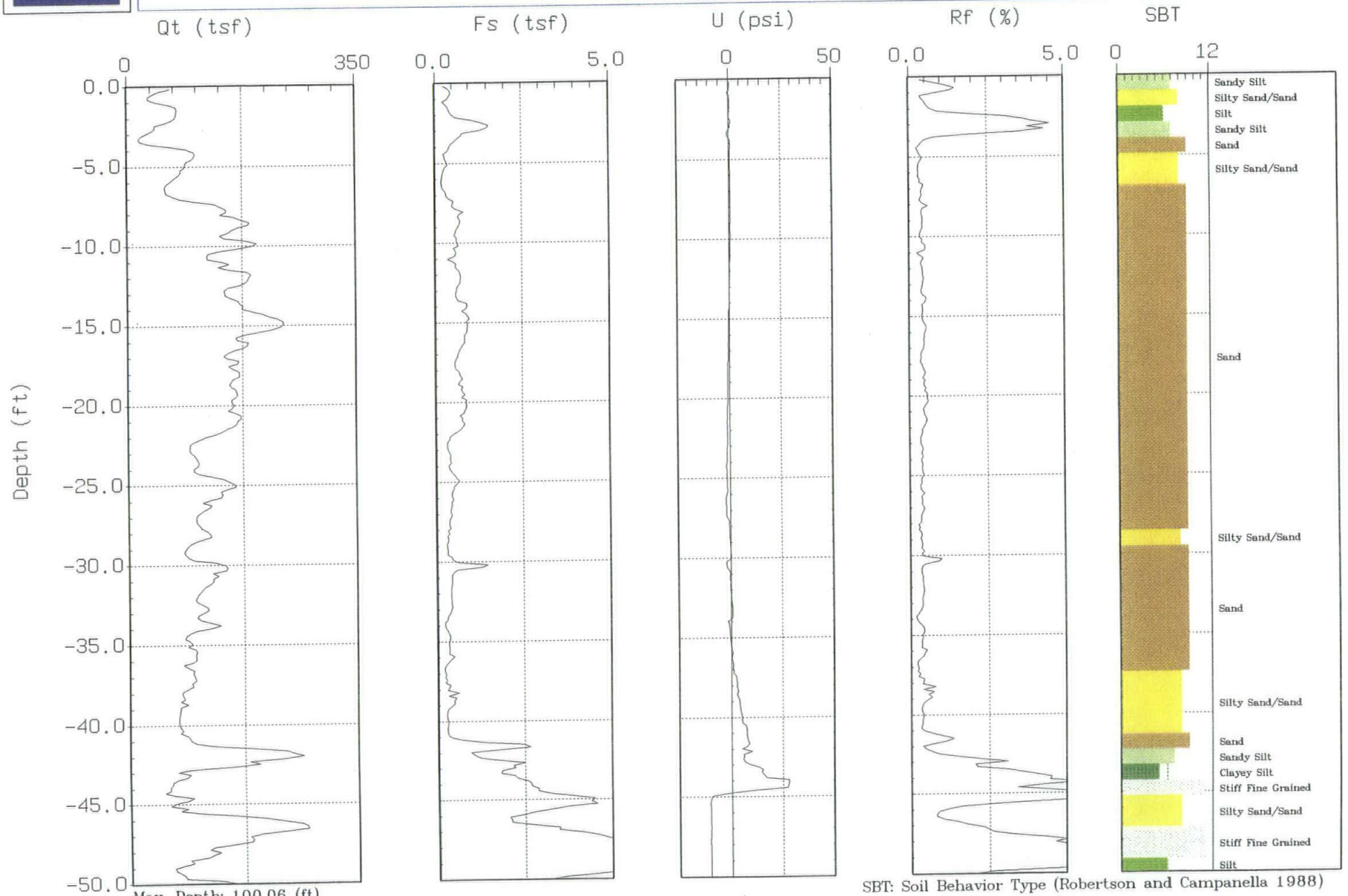
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-9

Geologist : JOSE CERCONE
Date : 12:07:97 12:11



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

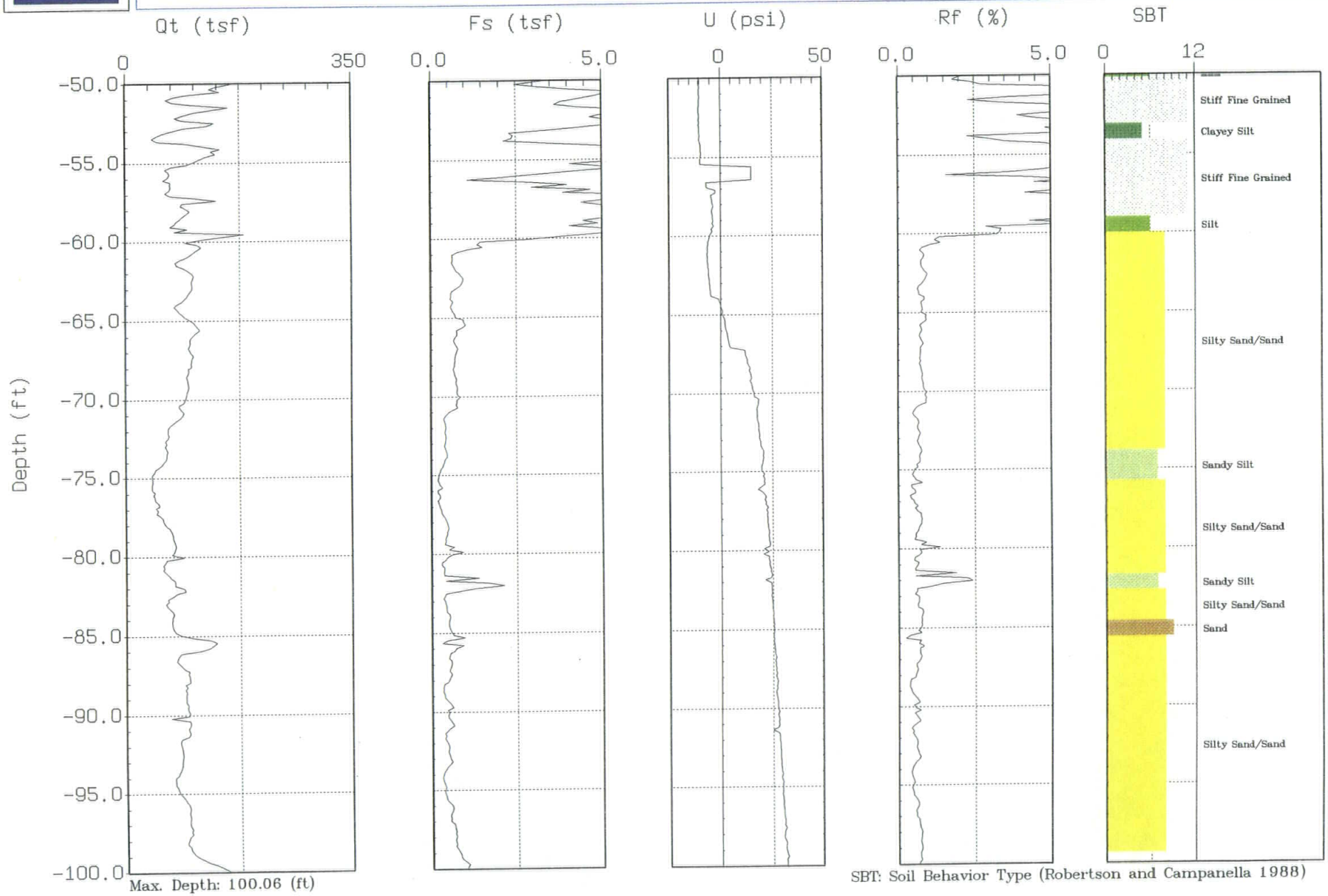
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-9

Geologist : JOSE CERCONE
Date : 12:07:97 12:11



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

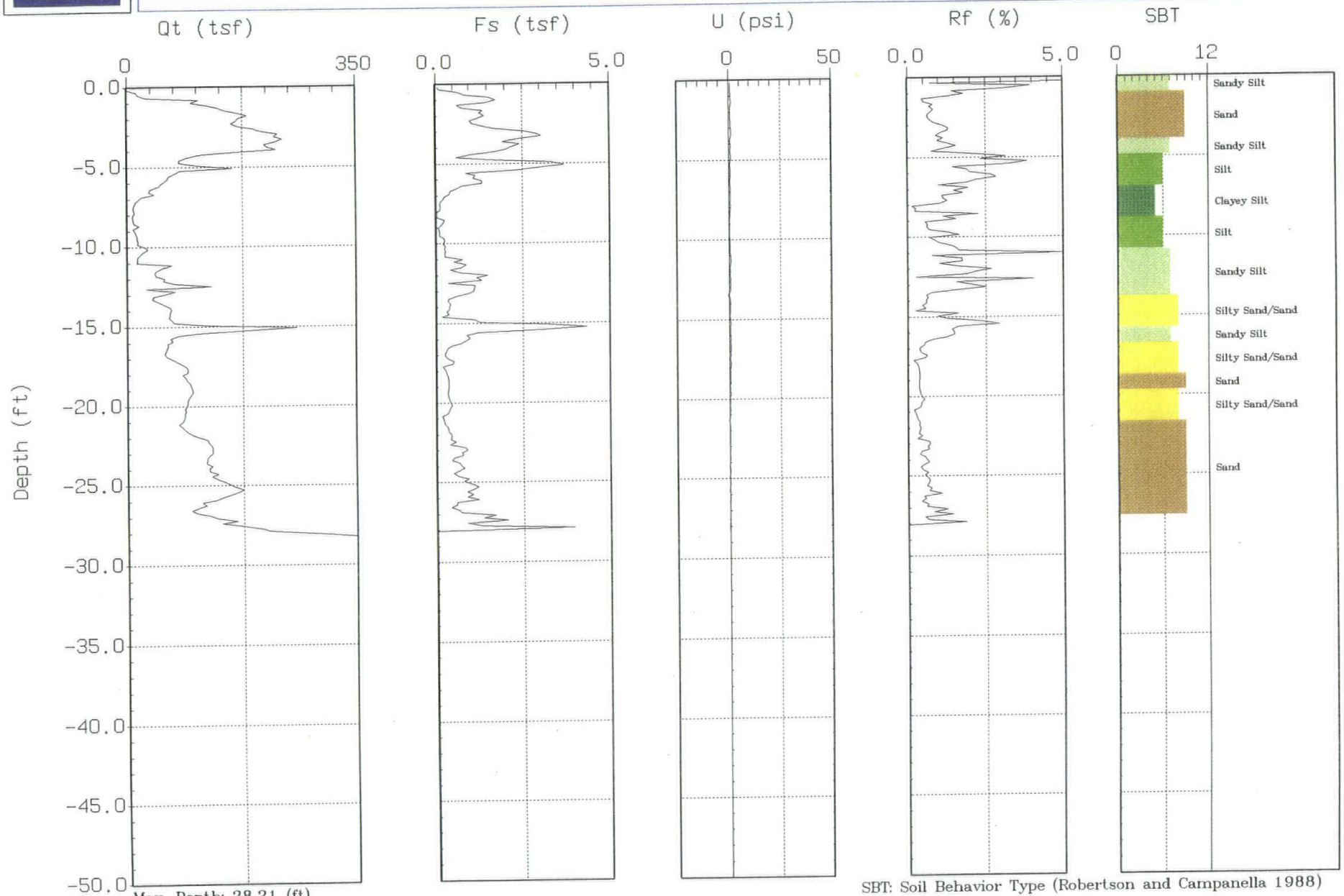
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-10

Geologist : JOSE CERCONE
Date : 12:08:97 09:31



Max. Depth: 28.21 (ft)

Depth Inc.: 0.164 (ft)

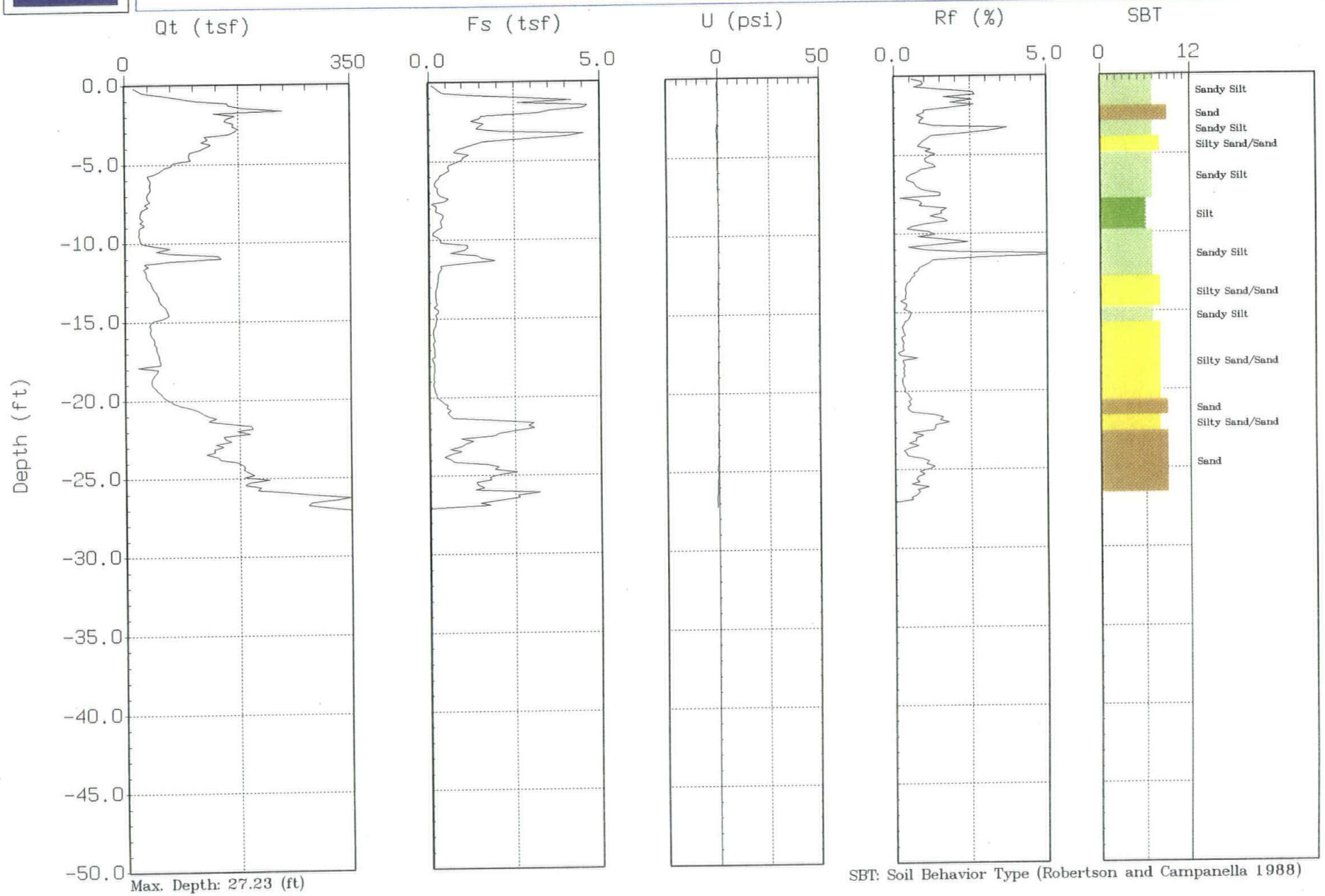
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-10A

Geologist : JOSE CERCONE
Date : 12:08:97 09:51



Max. Depth: 27.23 (ft)

Depth Inc.: 0.164 (ft)

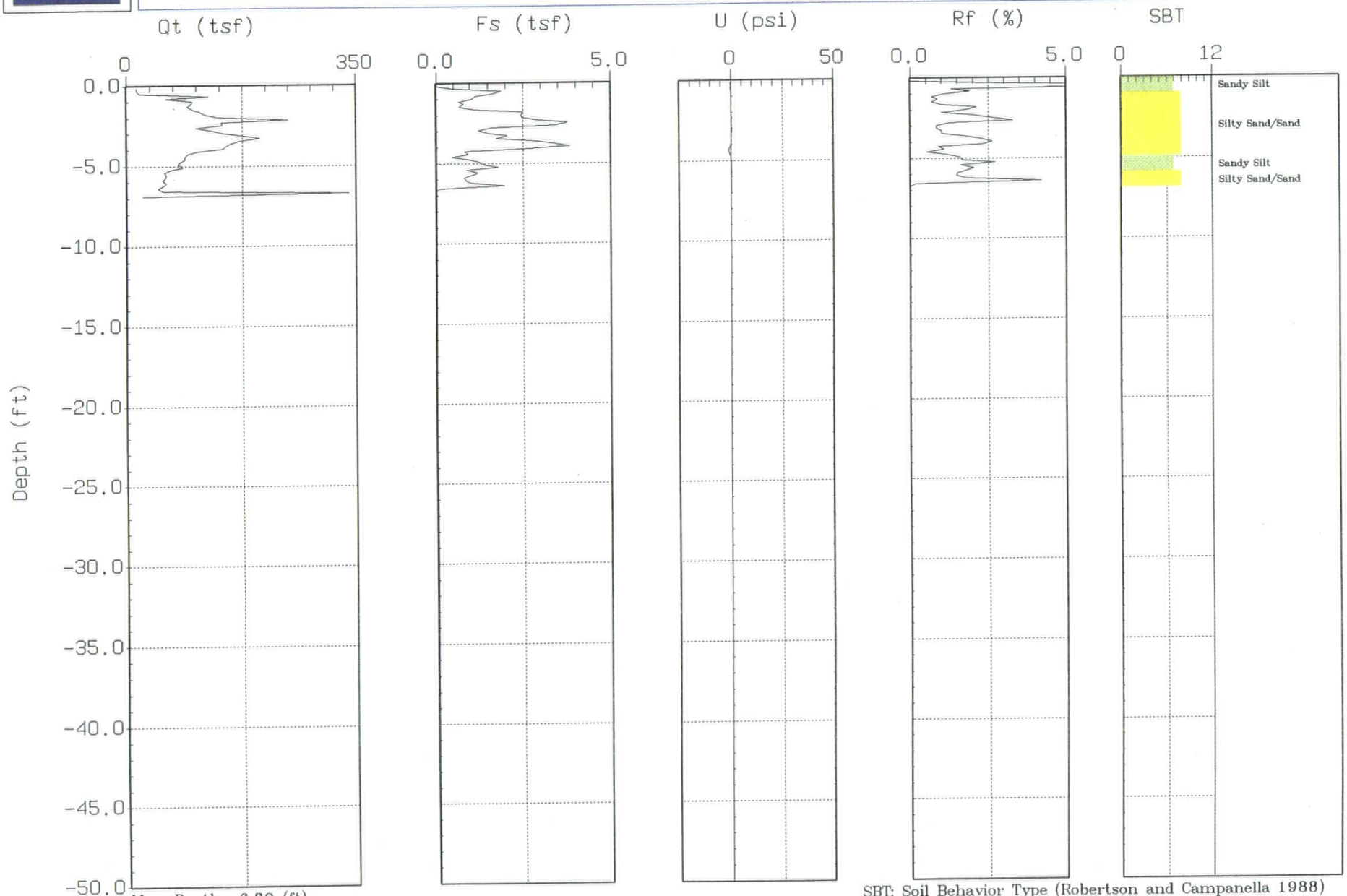
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-10B

Geologist : JOSE CERCONE
Date : 12:08:97 10:10



Max. Depth: 6.89 (ft)

Depth Inc.: 0.164 (ft)

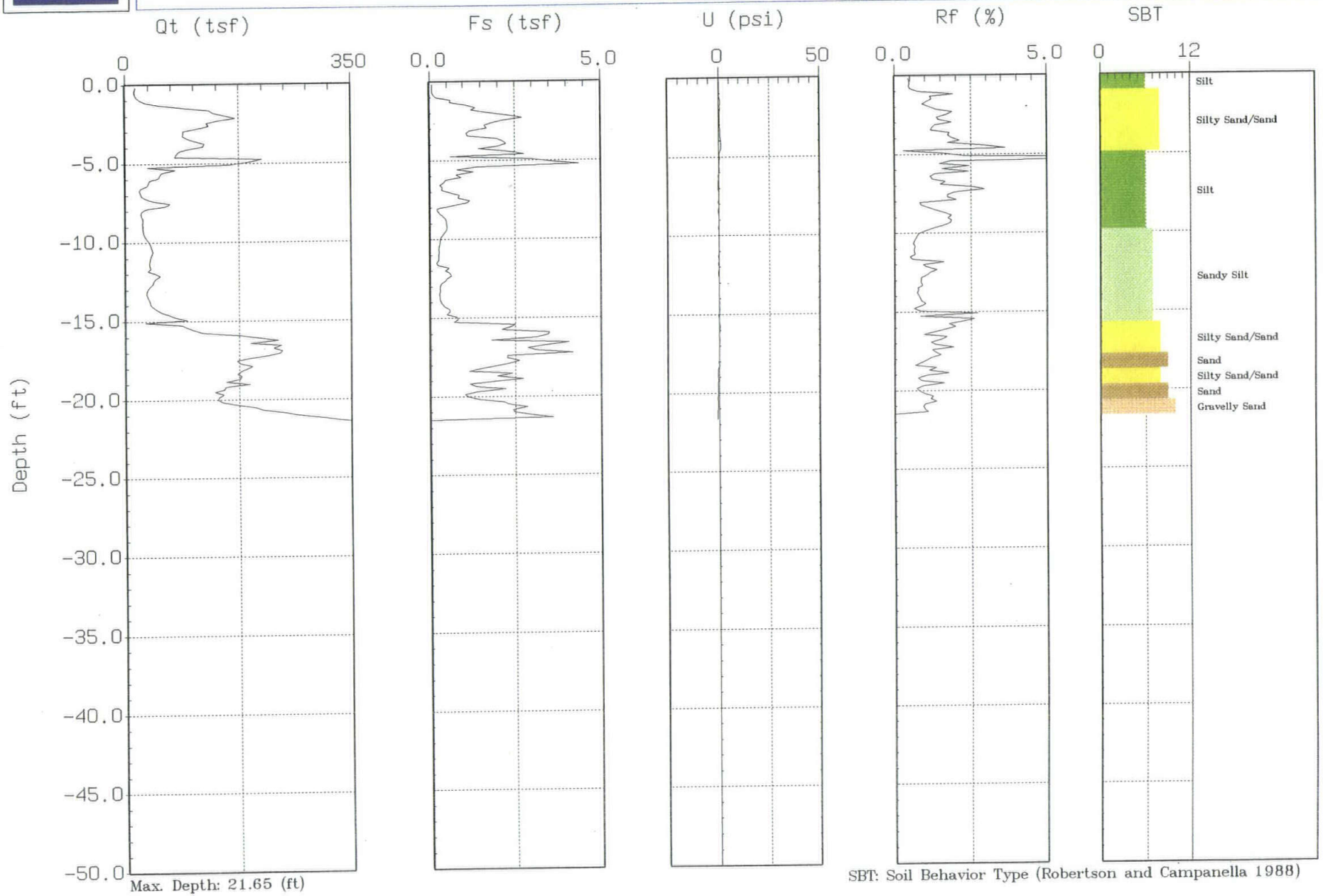
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-10C

Geologist : JOSE CERCONE
Date : 12:08:97 12:08



Max. Depth: 21.65 (ft)

Depth Inc.: 0.164 (ft)

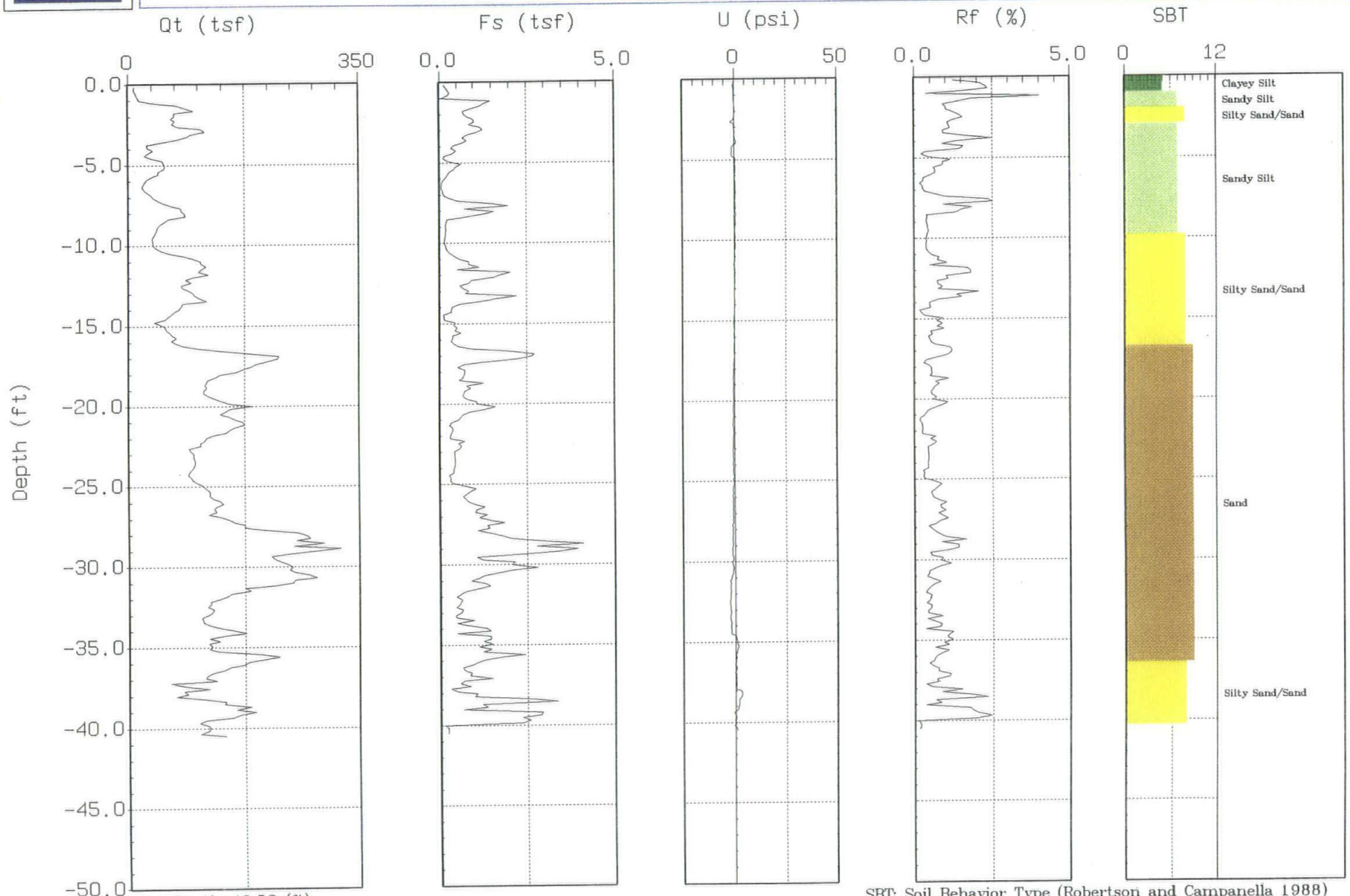
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-11

Geologist : JOSE CERCONE
Date : 12:08:97 10:20



Max. Depth: 40.52 (ft)

Depth Inc.: 0.164 (ft)

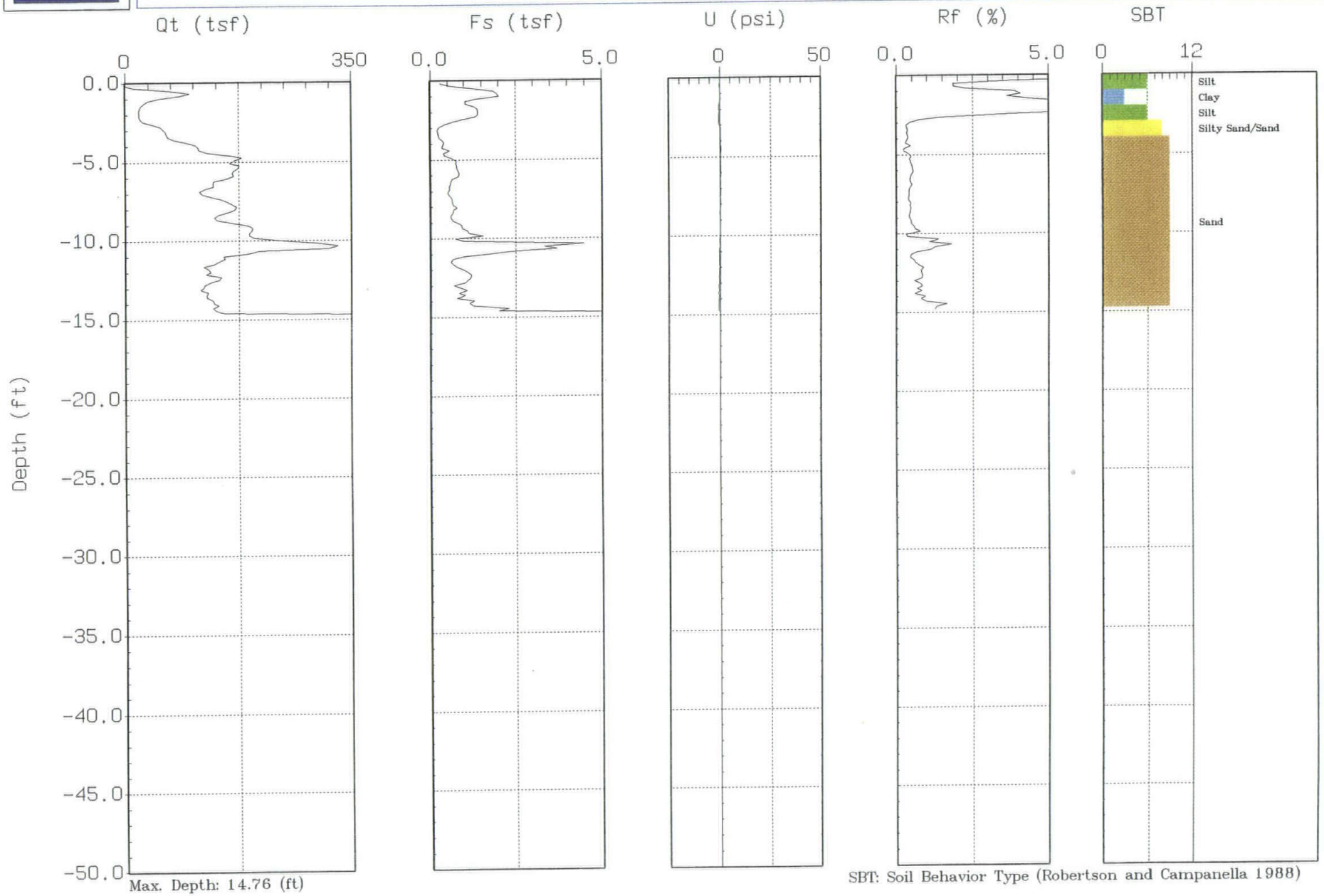
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-12

Geologist : JOSE CERCONE
Date : 12:08:97 10:52



Max. Depth: 14.76 (ft)

Depth Inc.: 0.164 (ft)

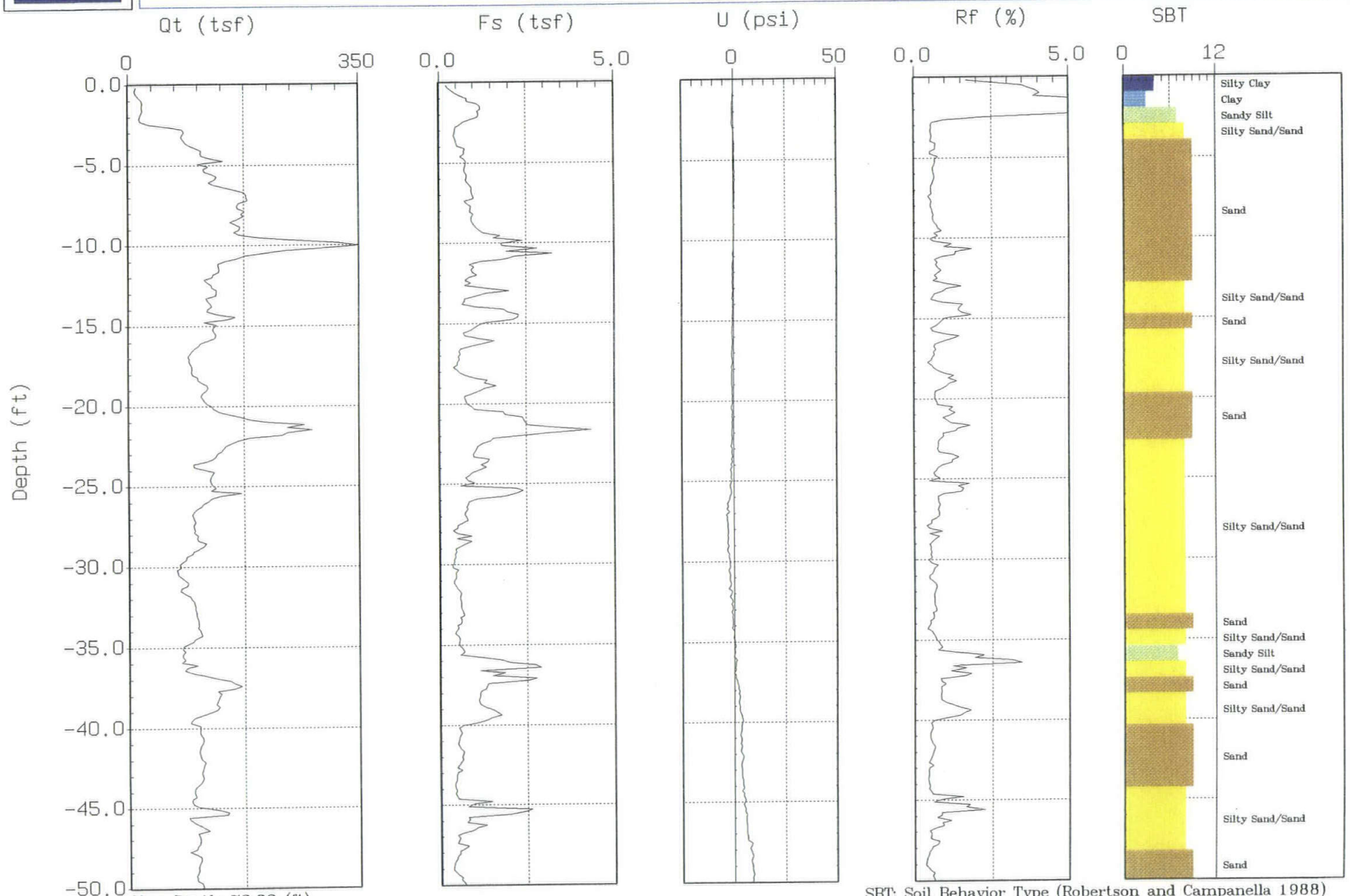
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-12A

Geologist : JOSE CERCONE
Date : 12:08:97 11:11



Max. Depth: 73.82 (ft)

Depth Inc.: 0.164 (ft)

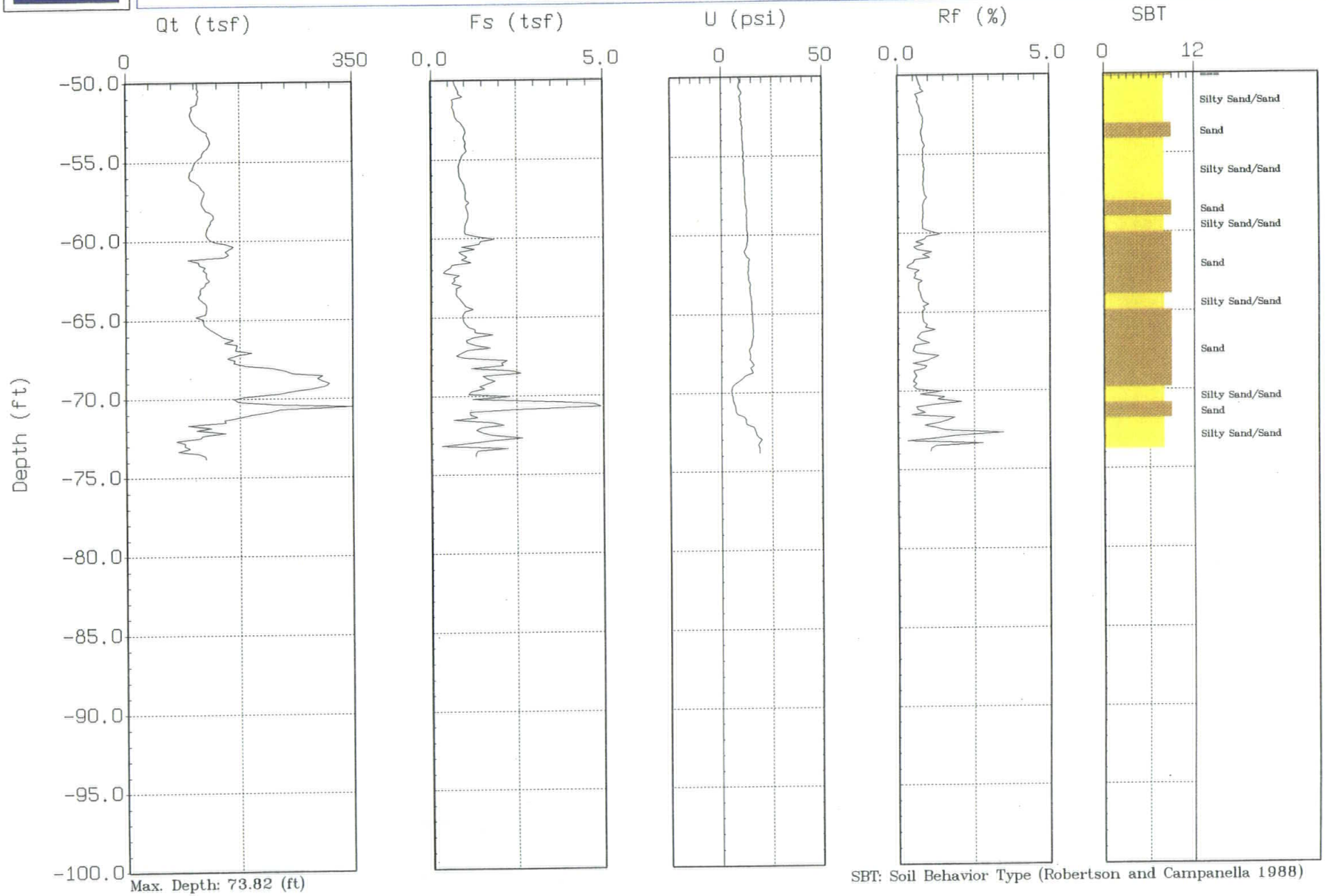
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-12A

Geologist : JOSE CERCONE
Date : 12:08:97 11:11



Max. Depth: 73.82 (ft)

Depth Inc.: 0.164 (ft)

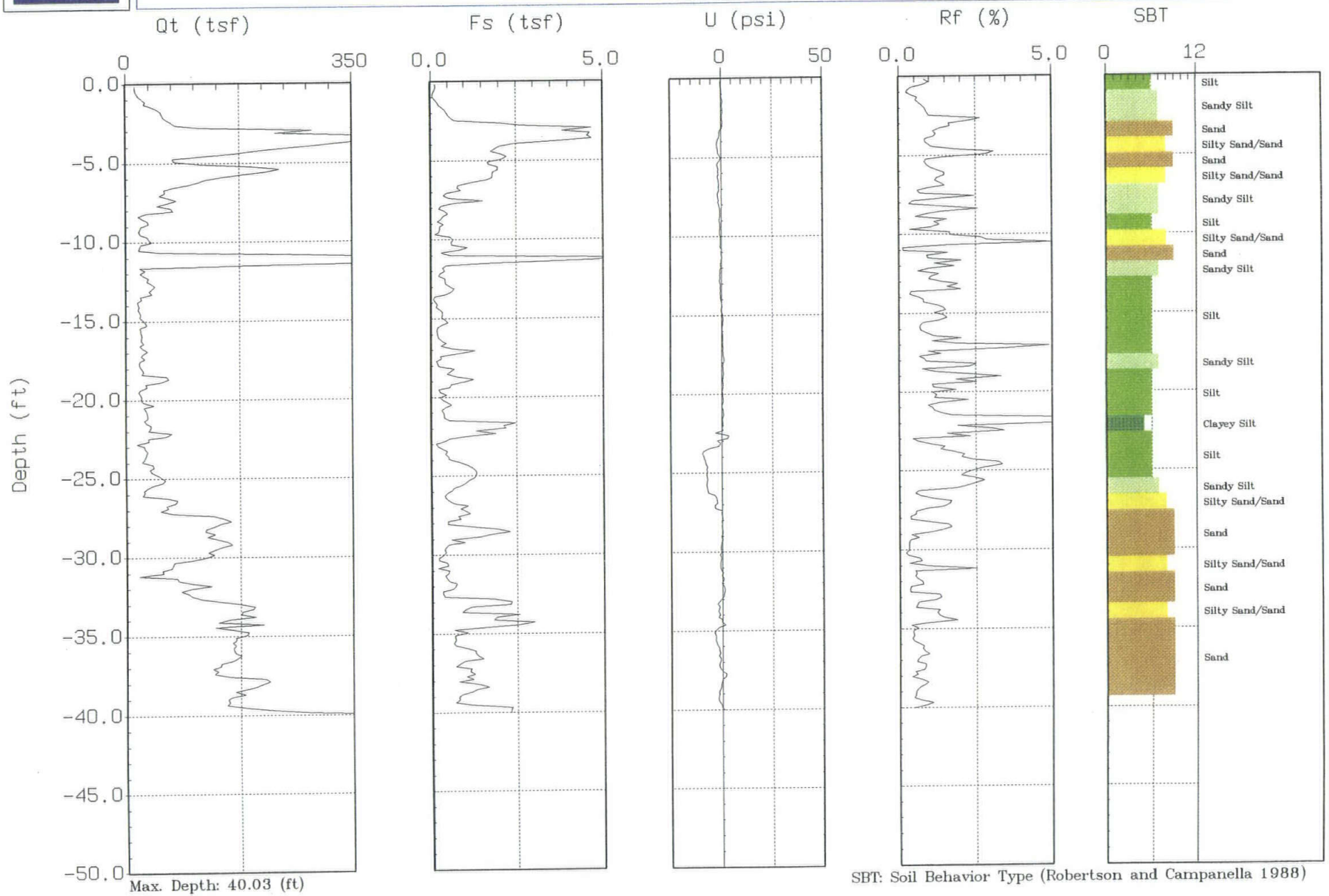
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-13

Geologist : JOSE CERCONE
Date : 12:03:97 09:03



Max. Depth: 40.03 (ft)

Depth Inc.: 0.164 (ft)

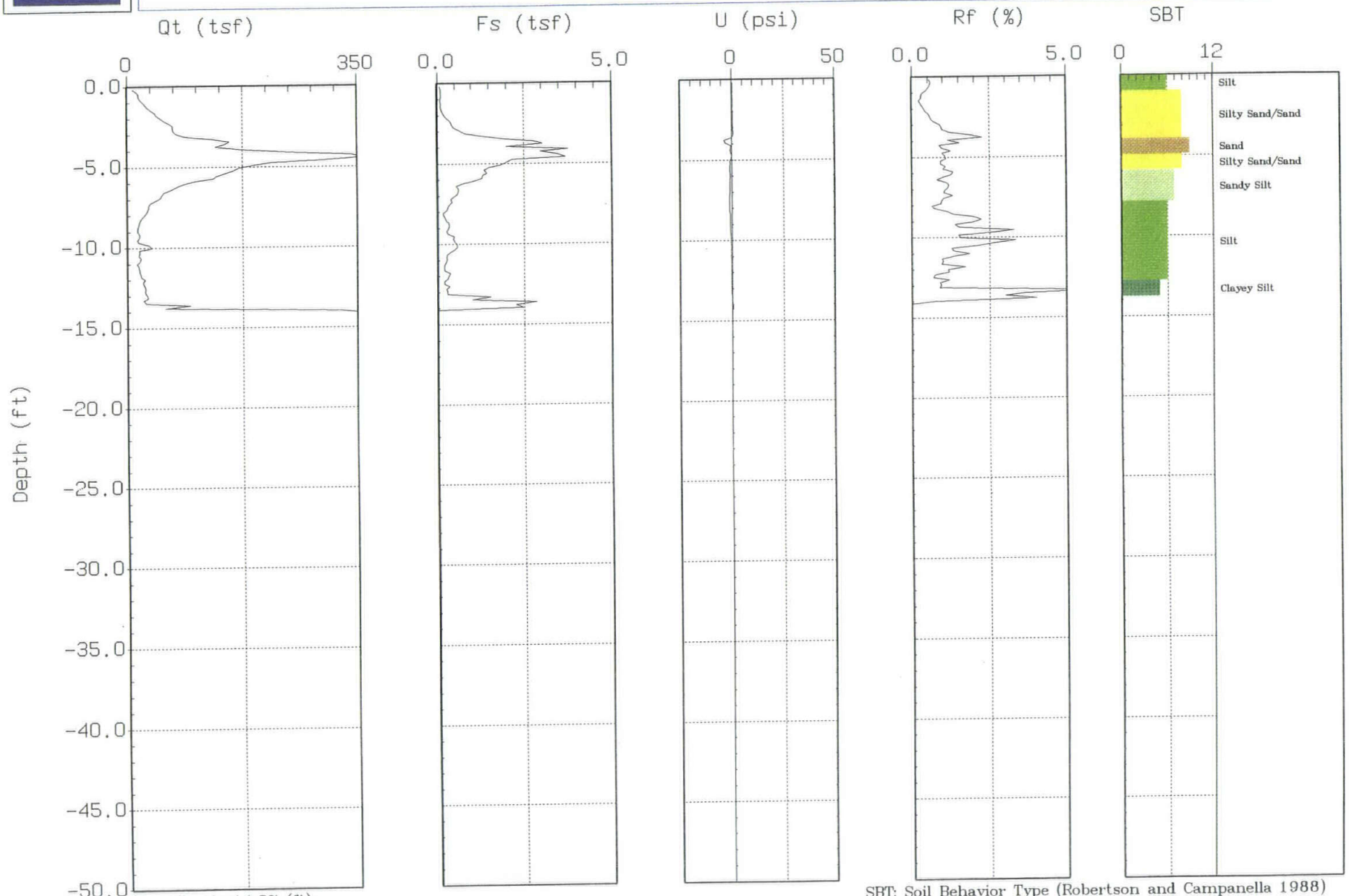
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-14

Geologist : JOSE CERCONE
Date : 12:02:97 10:59



Max. Depth: 14.27 (ft)

Depth Inc.: 0.164 (ft)

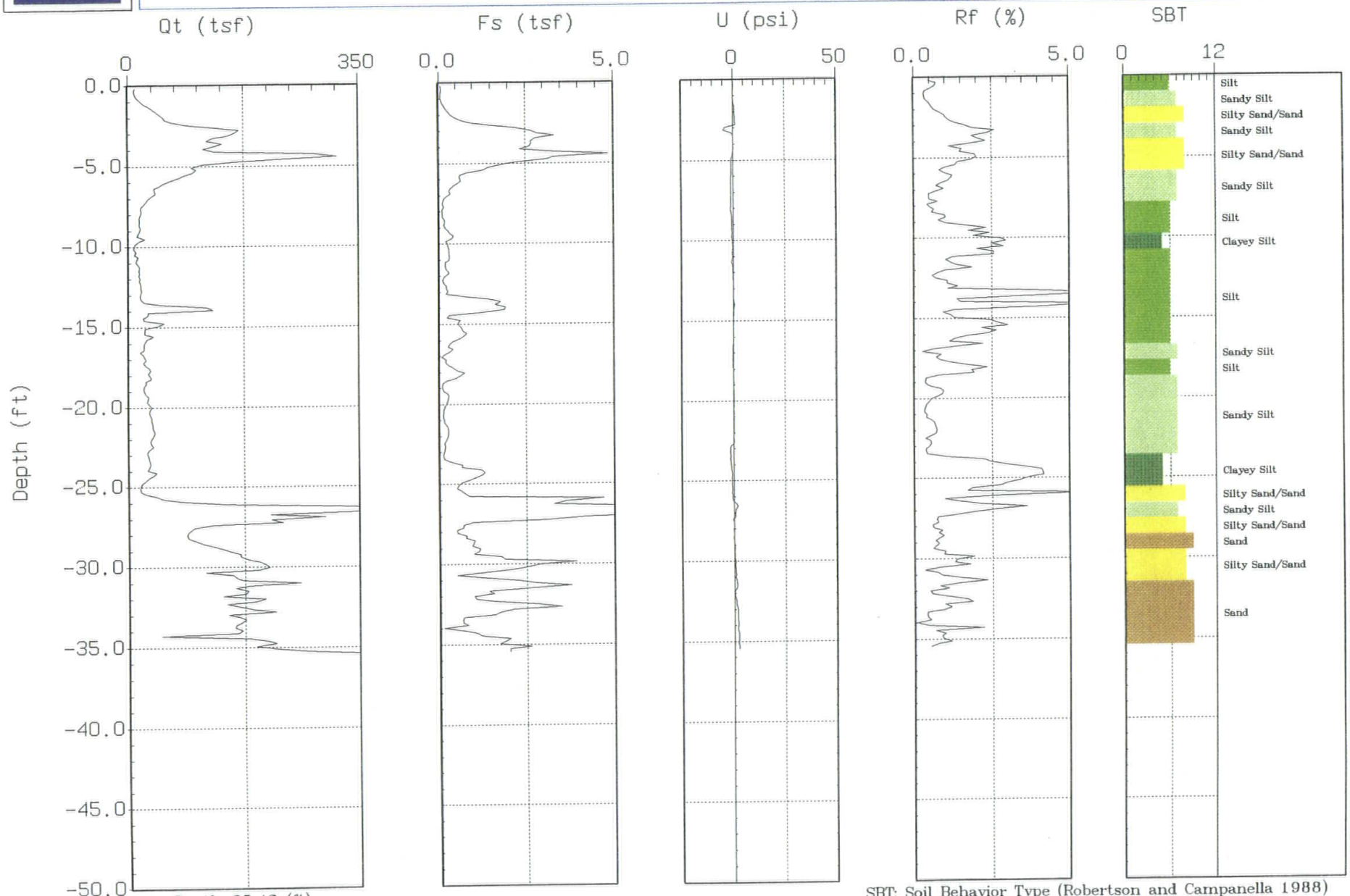
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-14A

Geologist : JOSE CERCONE
Date : 12:02:97 11:14



Max. Depth: 35.43 (ft)

Depth Inc.: 0.164 (ft)

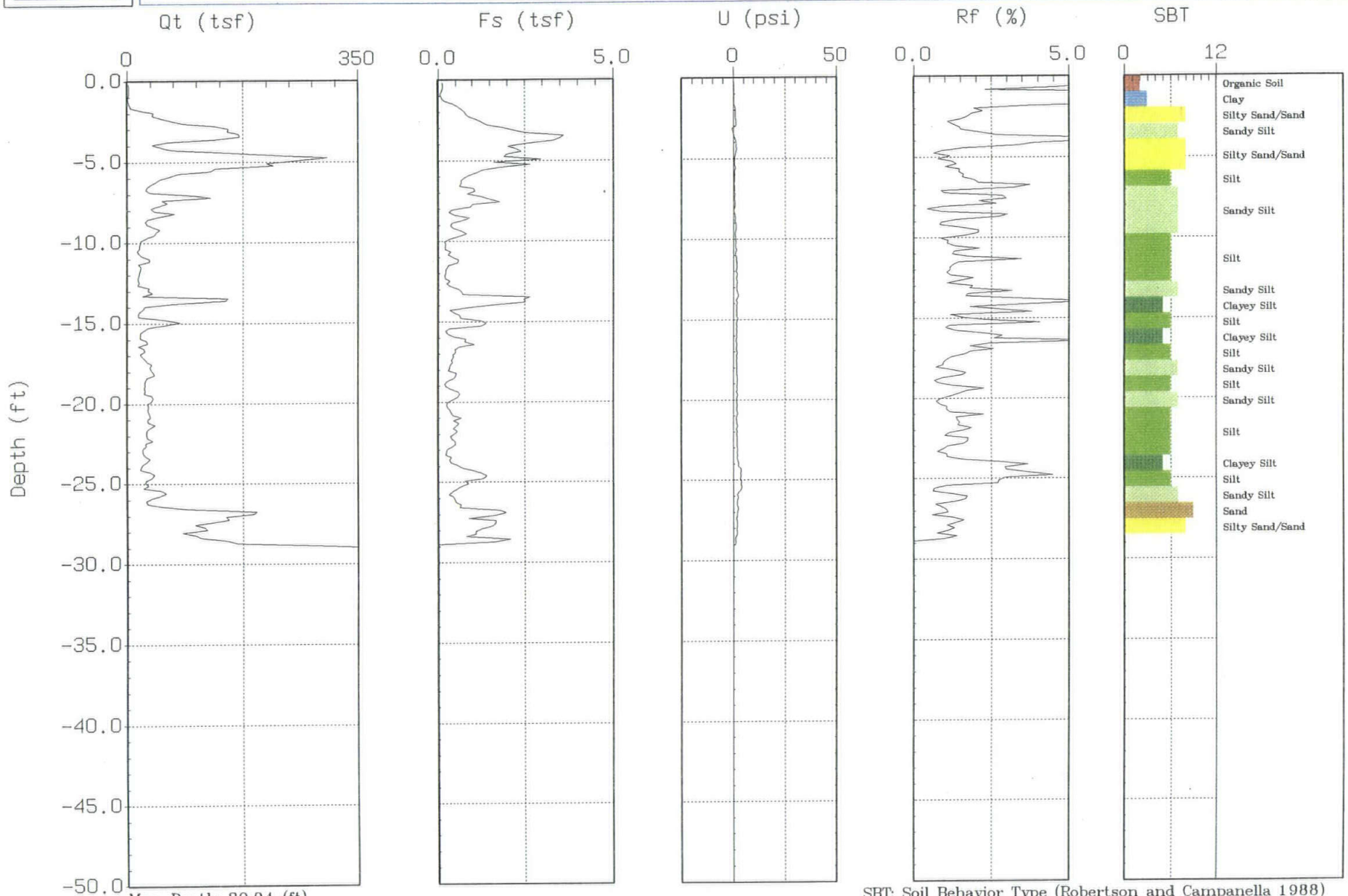
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-14B

Geologist : JOSE CERCONE
Date : 12:03:97 10:24



Max. Depth: 29.04 (ft)

Depth Inc.: 0.164 (ft)

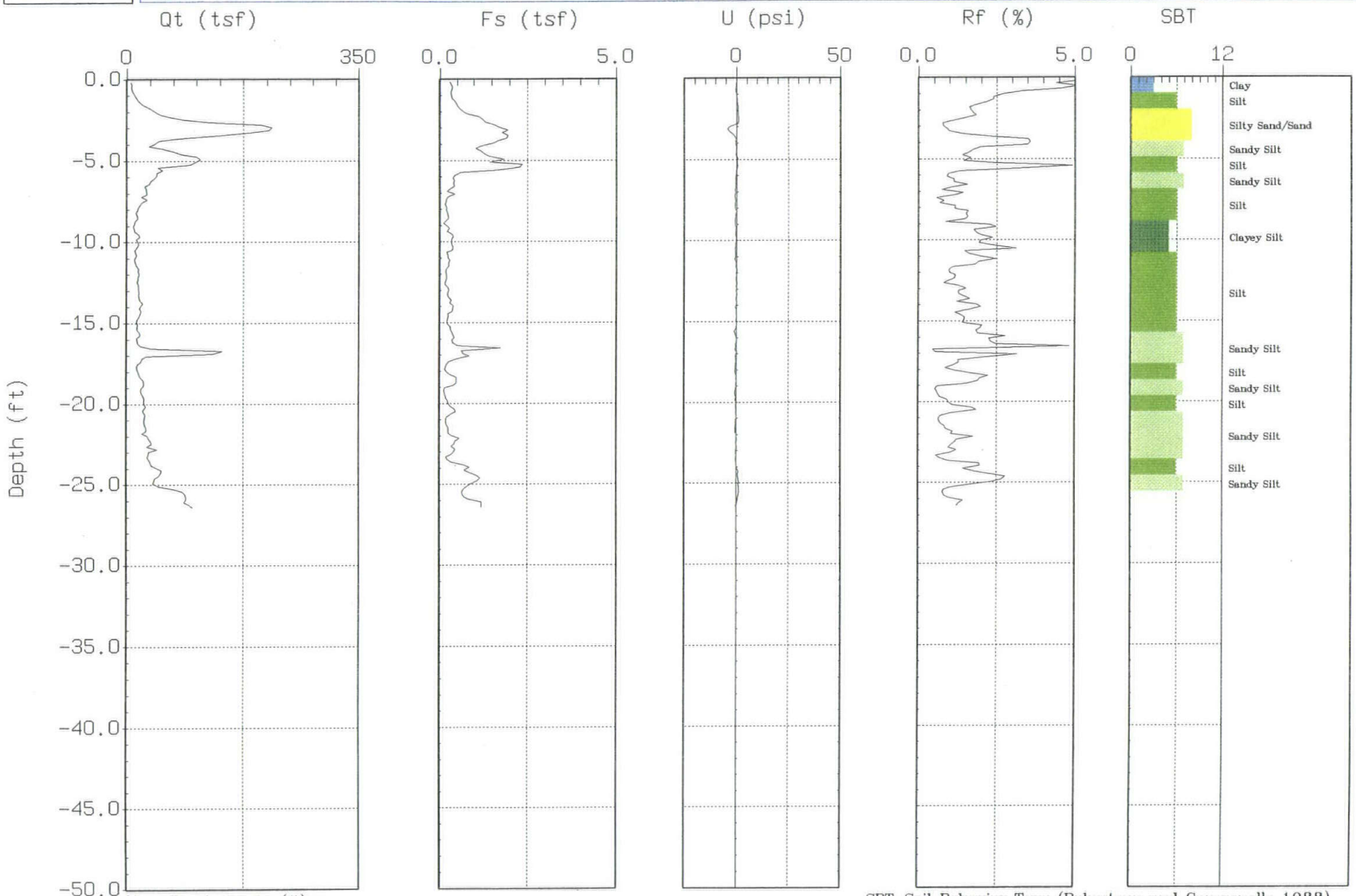
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-14C

Geologist : JOSE CERCONE
Date : 12:03:97 10:48



Max. Depth: 26.41 (ft)

Depth Inc.: 0.164 (ft)

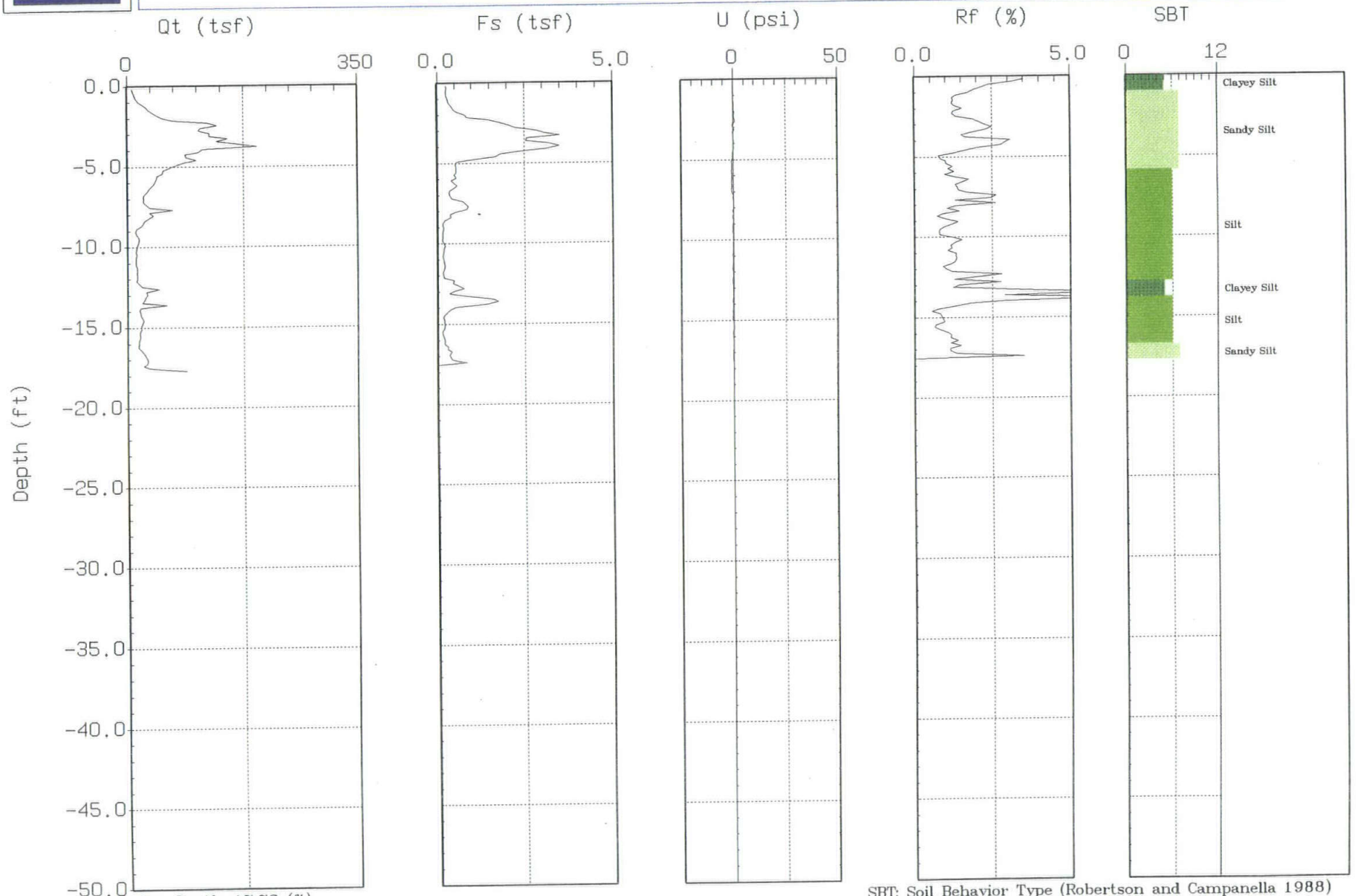
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-14D

Geologist : JOSE CERCONE
Date : 12:03:97 13:02



Max. Depth: 17.72 (ft)

Depth Inc.: 0.164 (ft)

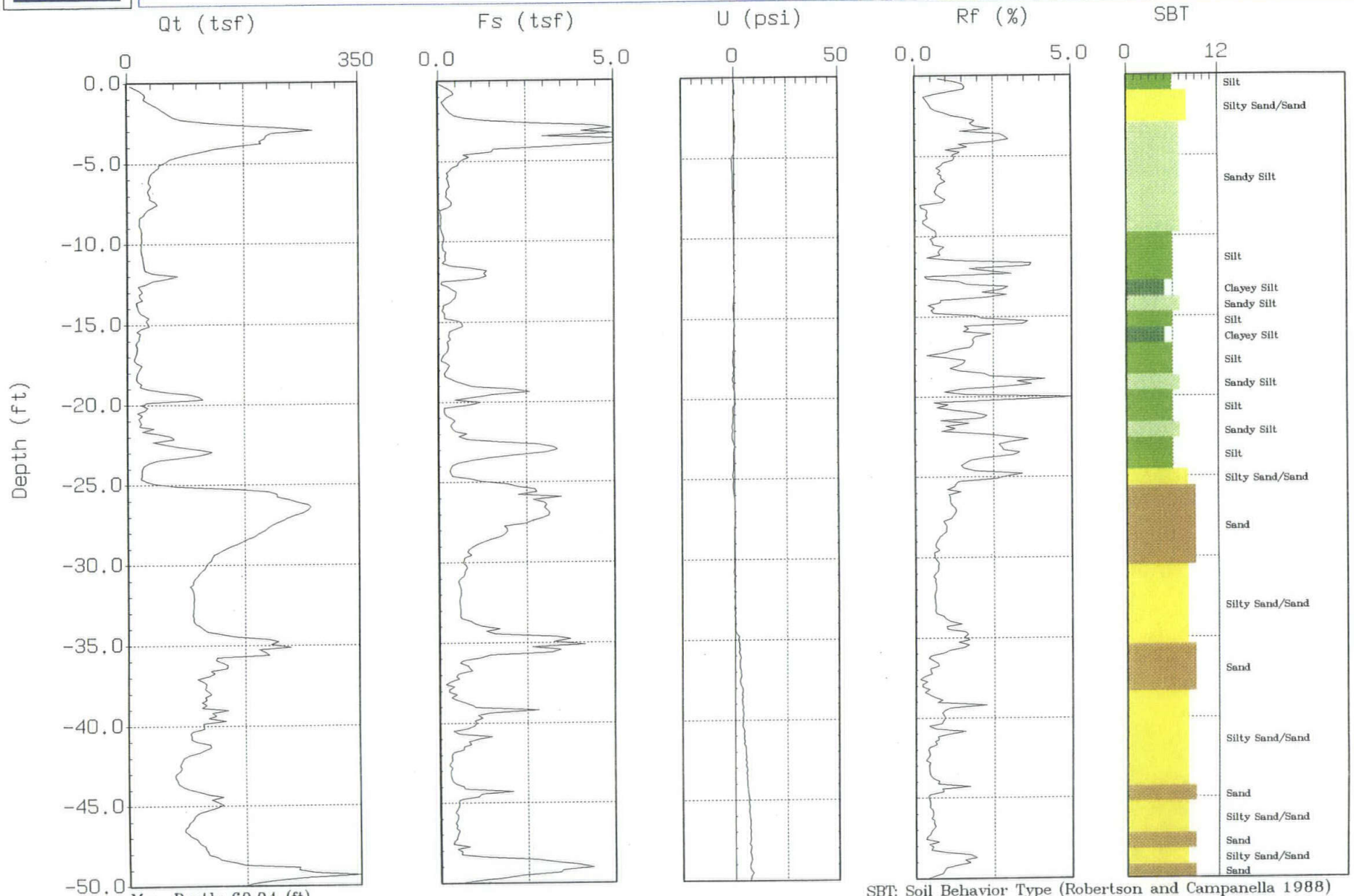
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-15

Geologist : JOSE CERCONE
Date : 11:17:97 16:10



Max. Depth: 60.04 (ft)

Depth Inc.: 0.164 (ft)

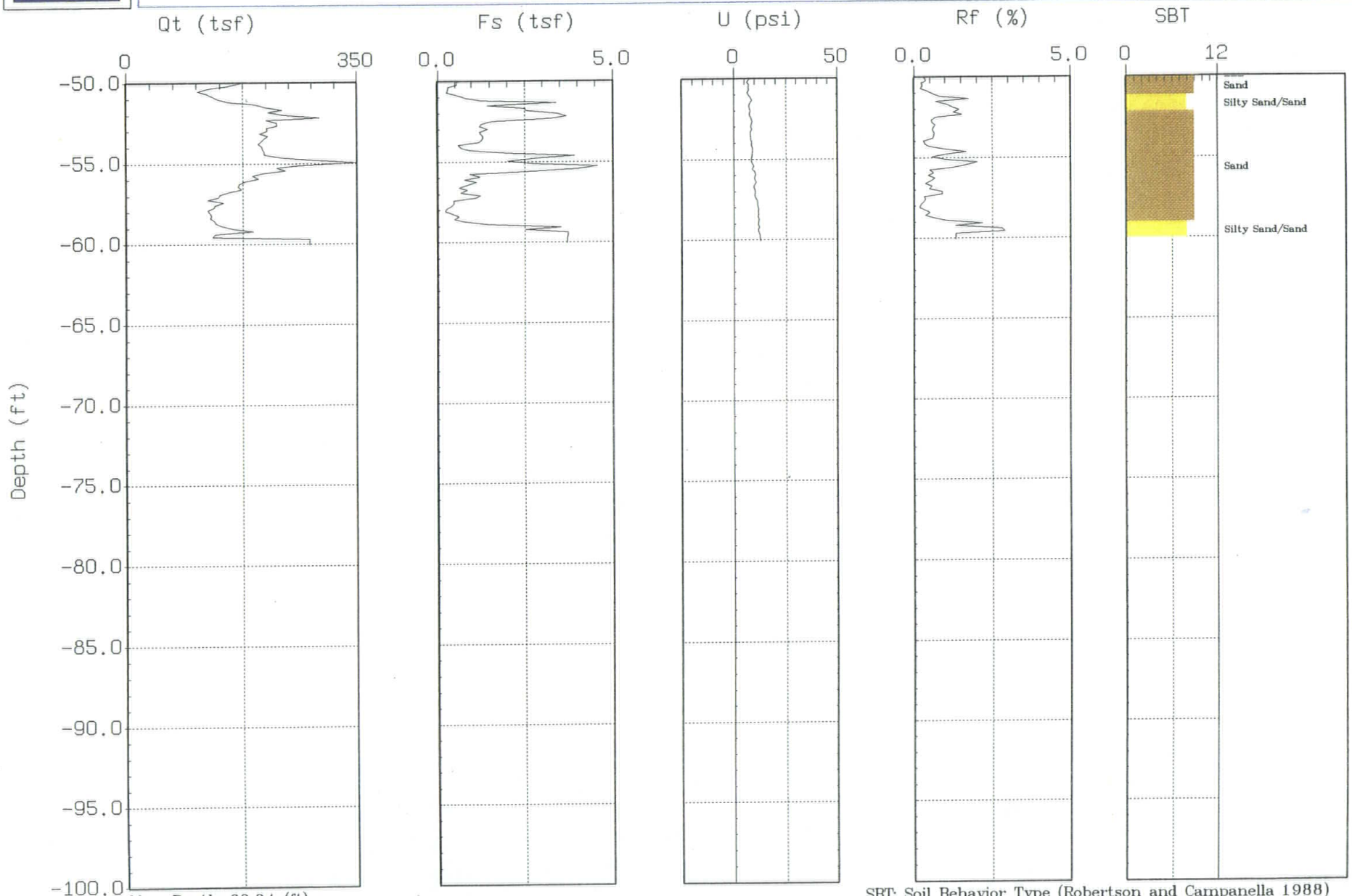
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W4-15

Geologist : JOSE CERCONE
Date : 11:17:97 16:10



Max. Depth: 60.04 (ft)

Depth Inc.: 0.164 (ft)

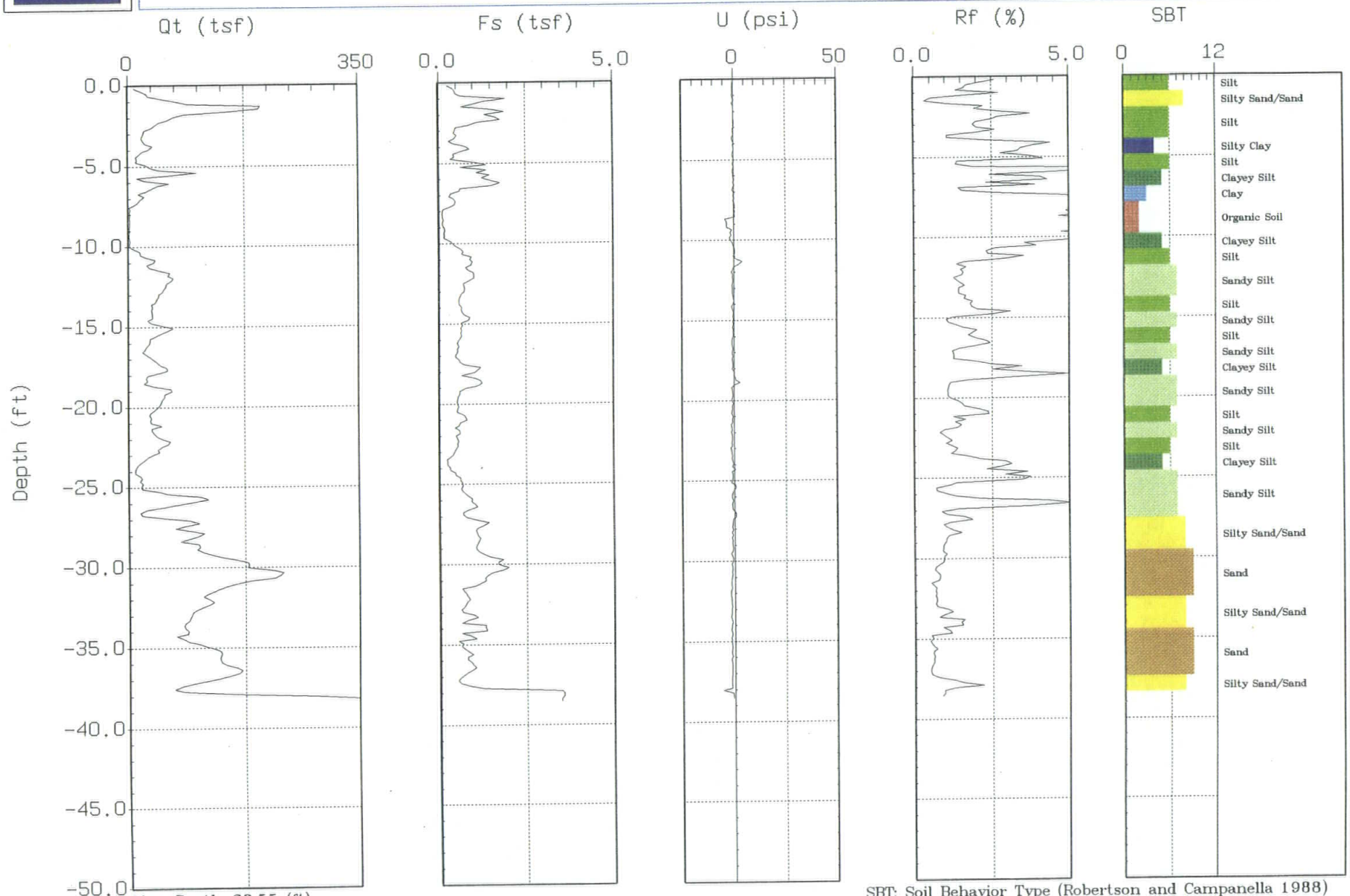
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-1

Geologist : JOSE CERCONE
Date : 12:09:97 08:07



Max. Depth: 38.55 (ft)

Depth Inc.: 0.164 (ft)

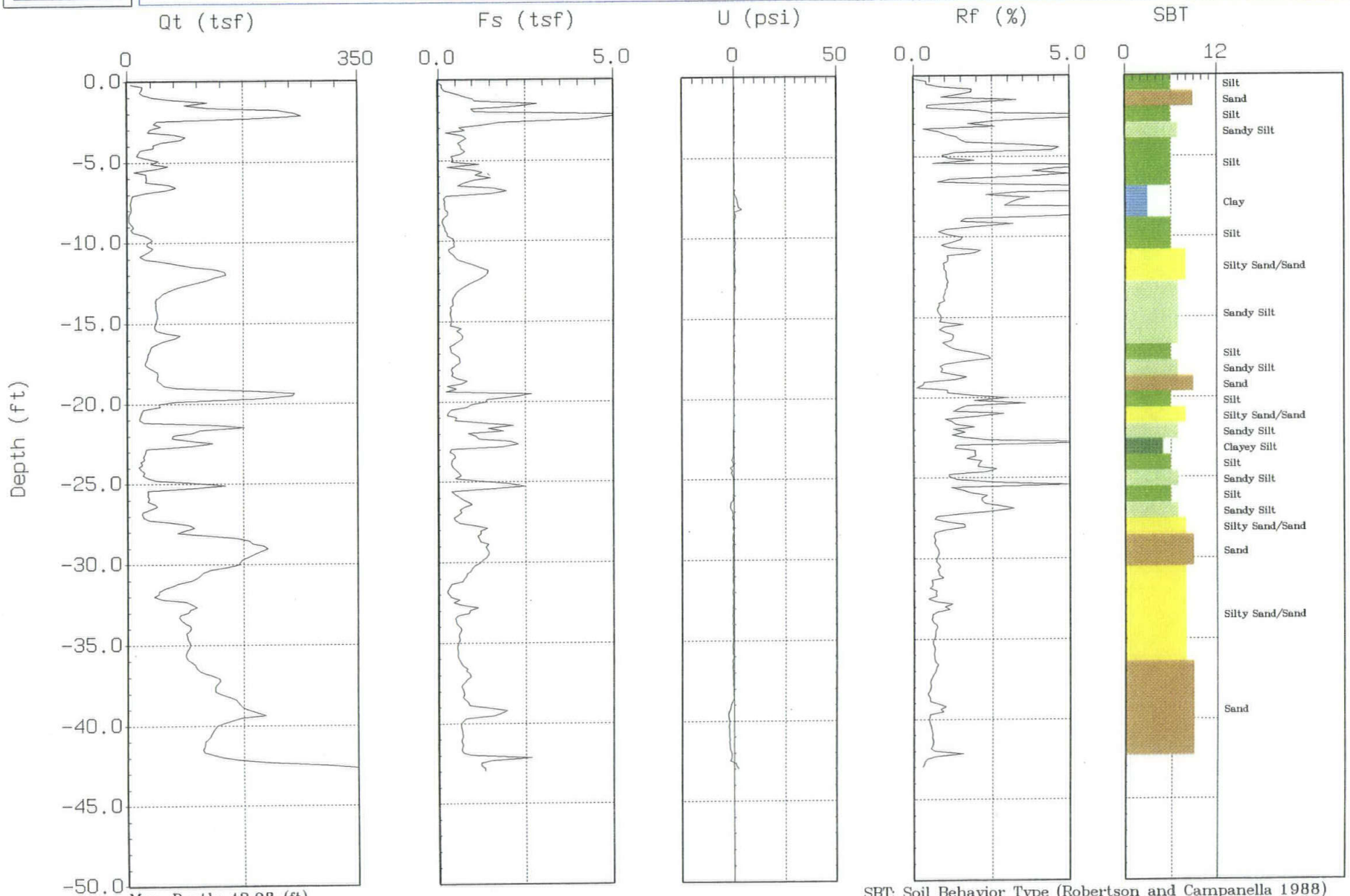
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-1A

Geologist : JOSE CERCONE
Date : 12:09:97 08:35



Max. Depth: 42.98 (ft)

Depth Inc.: 0.164 (ft)

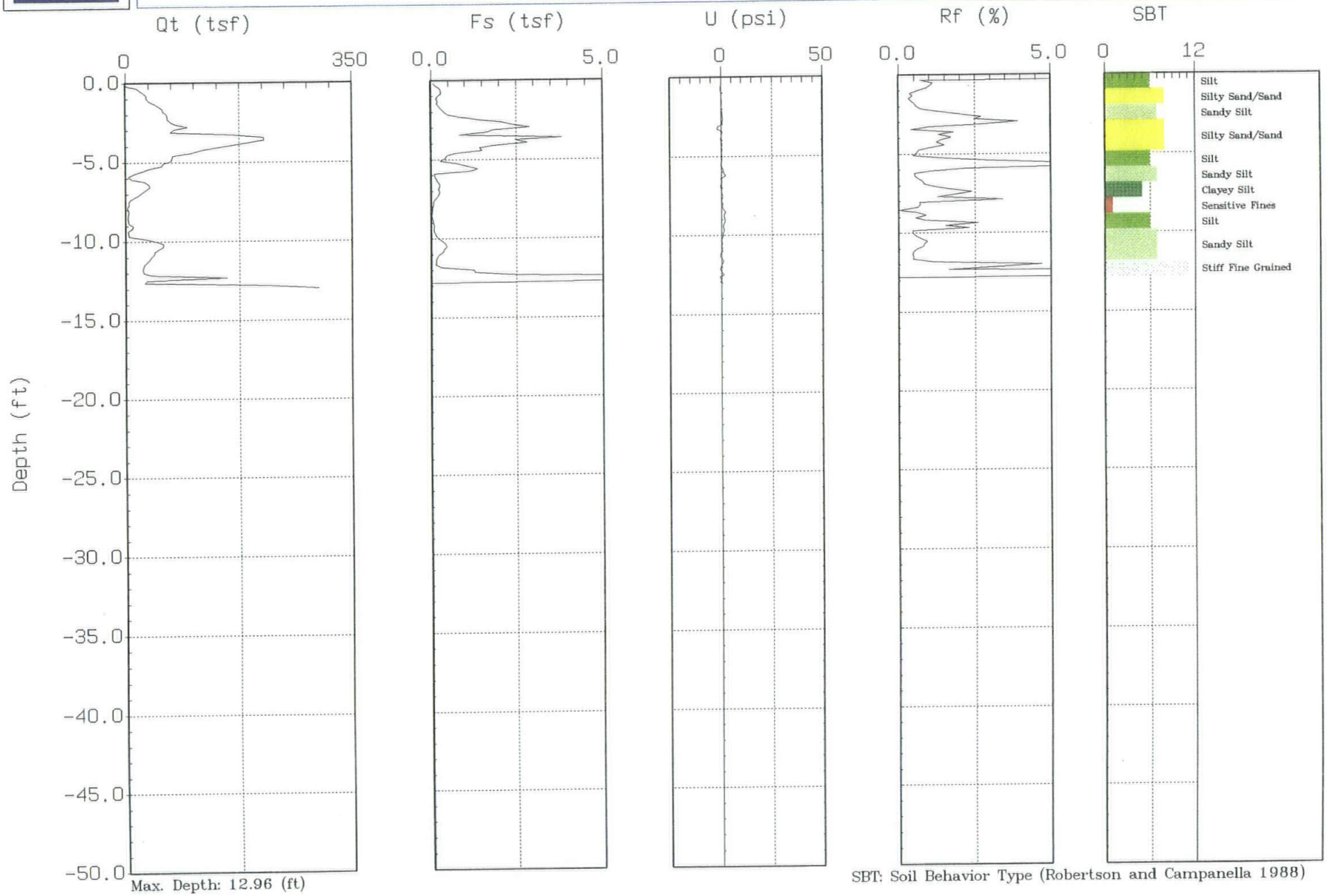
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-1C

Geologist : JOSE CERCONE
Date : 12:09:97 09:30



Max. Depth: 12.96 (ft)

Depth Inc.: 0.164 (ft)

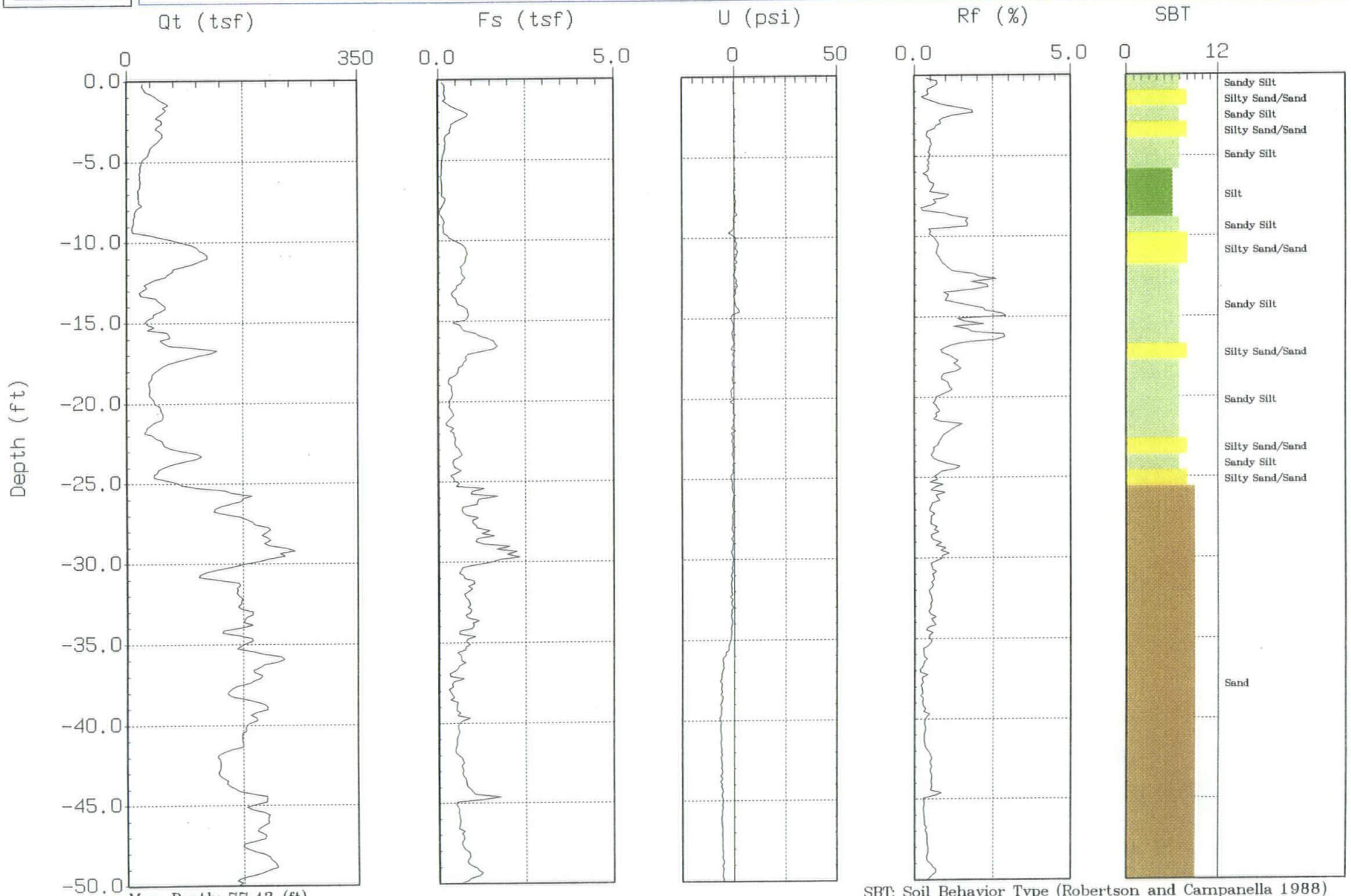
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-2

Geologist : JOSE CERCONE
Date : 12:09:97 09:46



Max. Depth: 77.43 (ft)

Depth Inc.: 0.164 (ft)

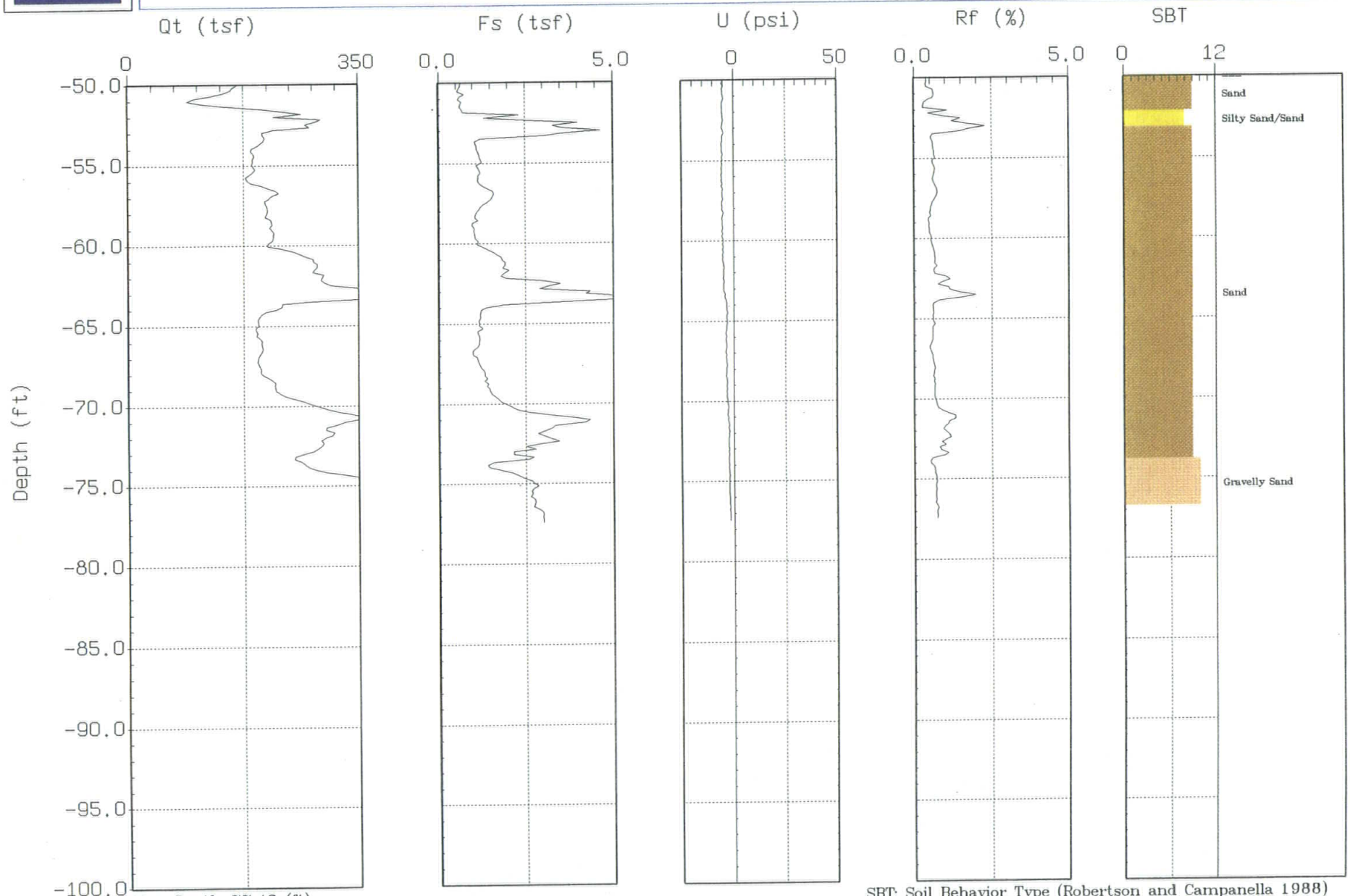
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-2

Geologist : JOSE CERCONE
Date : 12:09:97 09:46



Max. Depth: 77.43 (ft)

Depth Inc.: 0.164 (ft)

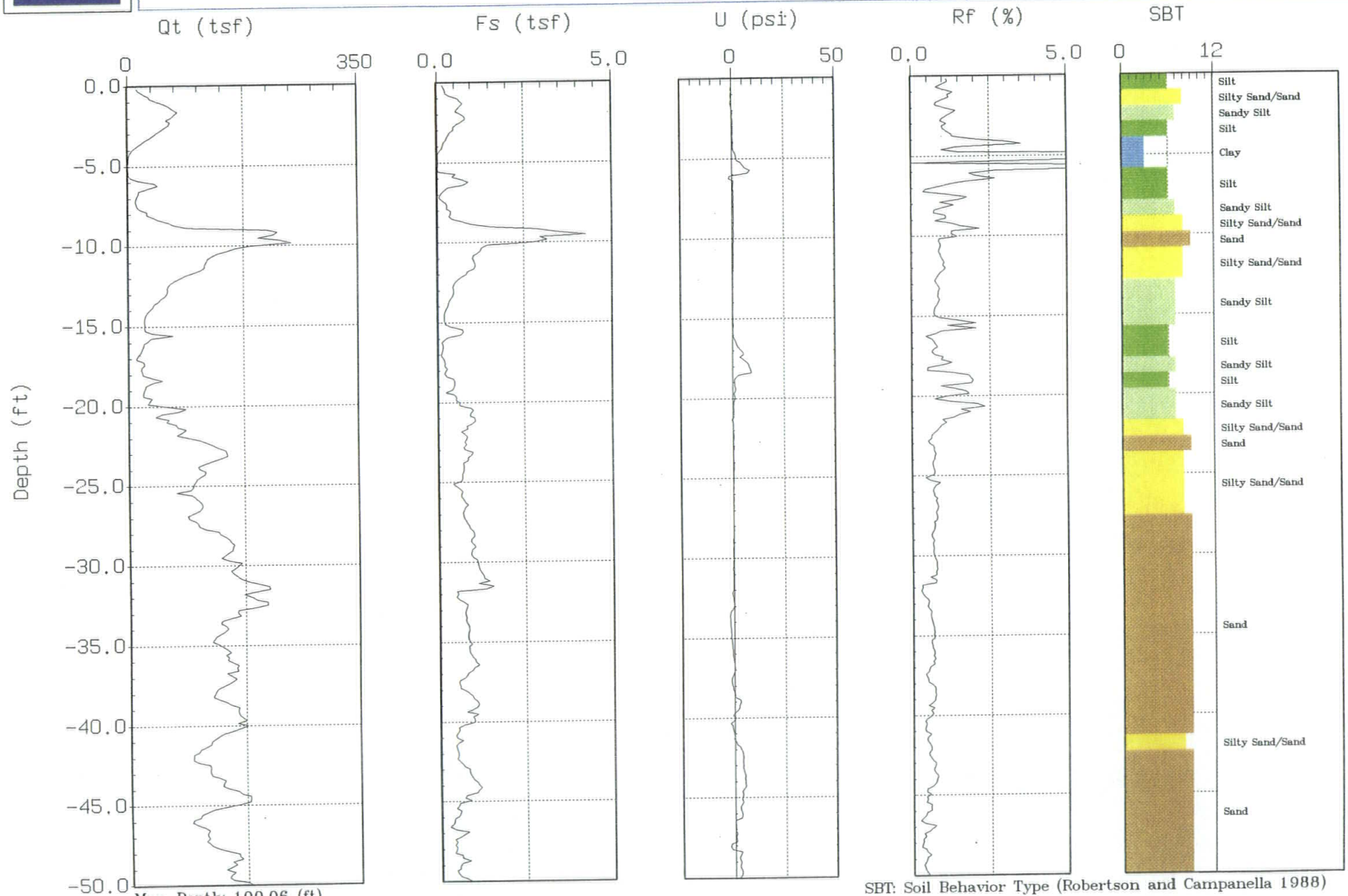
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-3

Geologist : JOSE CERCONE
Date : 12:09:97 10:41



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

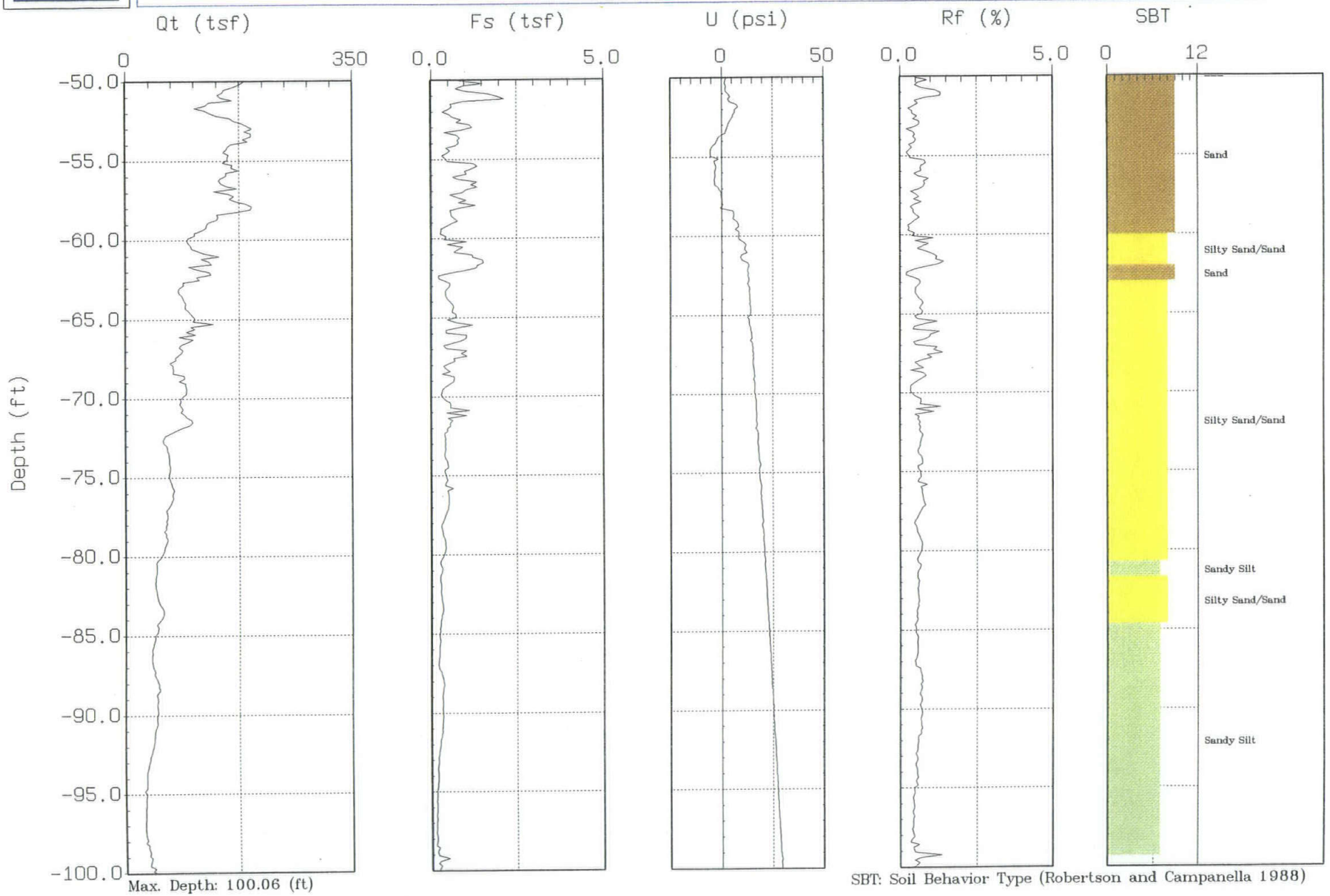
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-3

Geologist : JOSE CERCONE
Date : 12:09:97 10:41



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

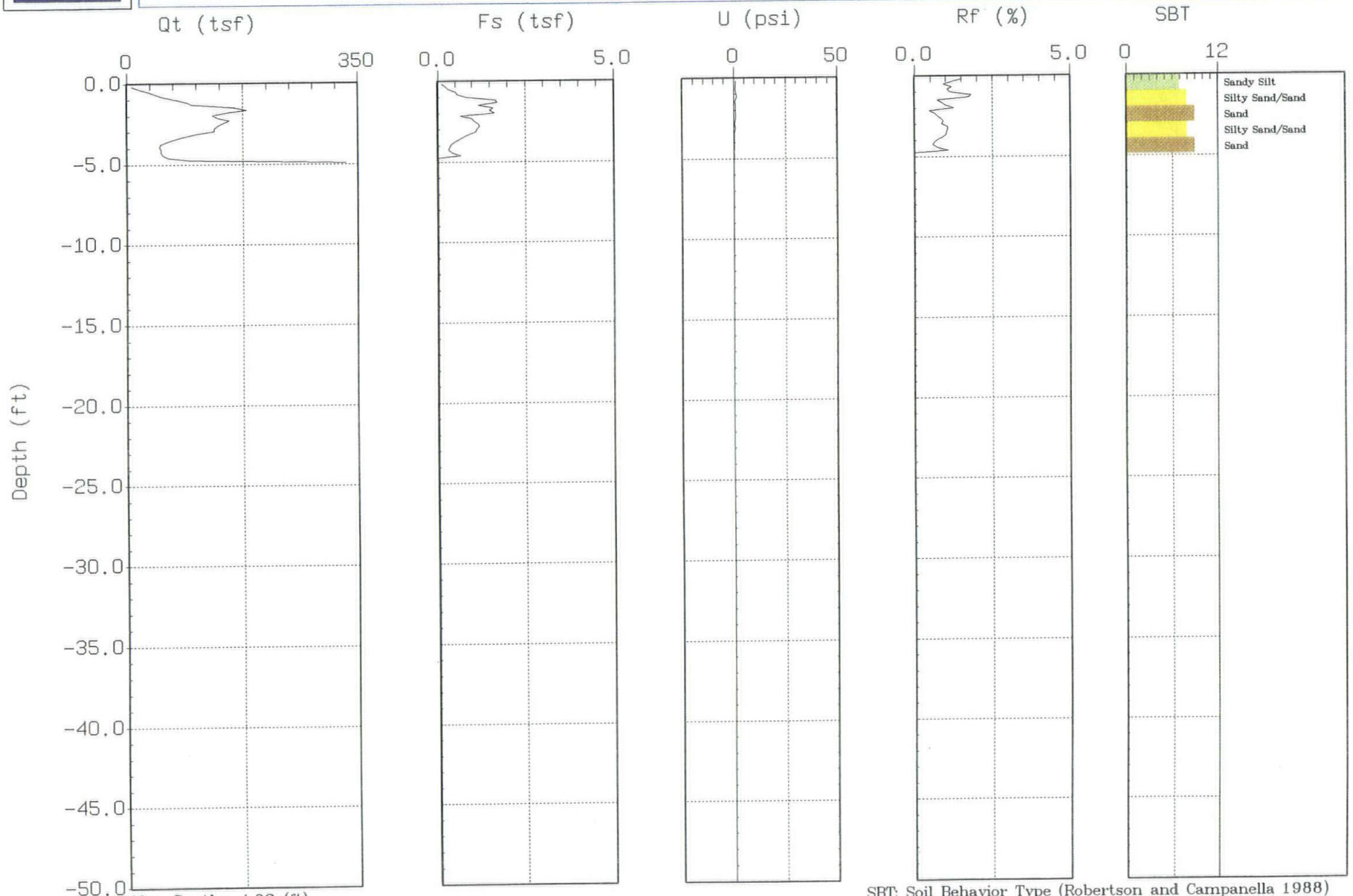
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-4

Geologist : JOSE CERCONE
Date : 12:09:97 11:52



Max. Depth: 4.92 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-4A

Geologist : JOSE CERCONE
Date : 12:09:97 12:00

Max. Depth: 6.07 (ft)

Depth Inc.: 0.164 (ft)

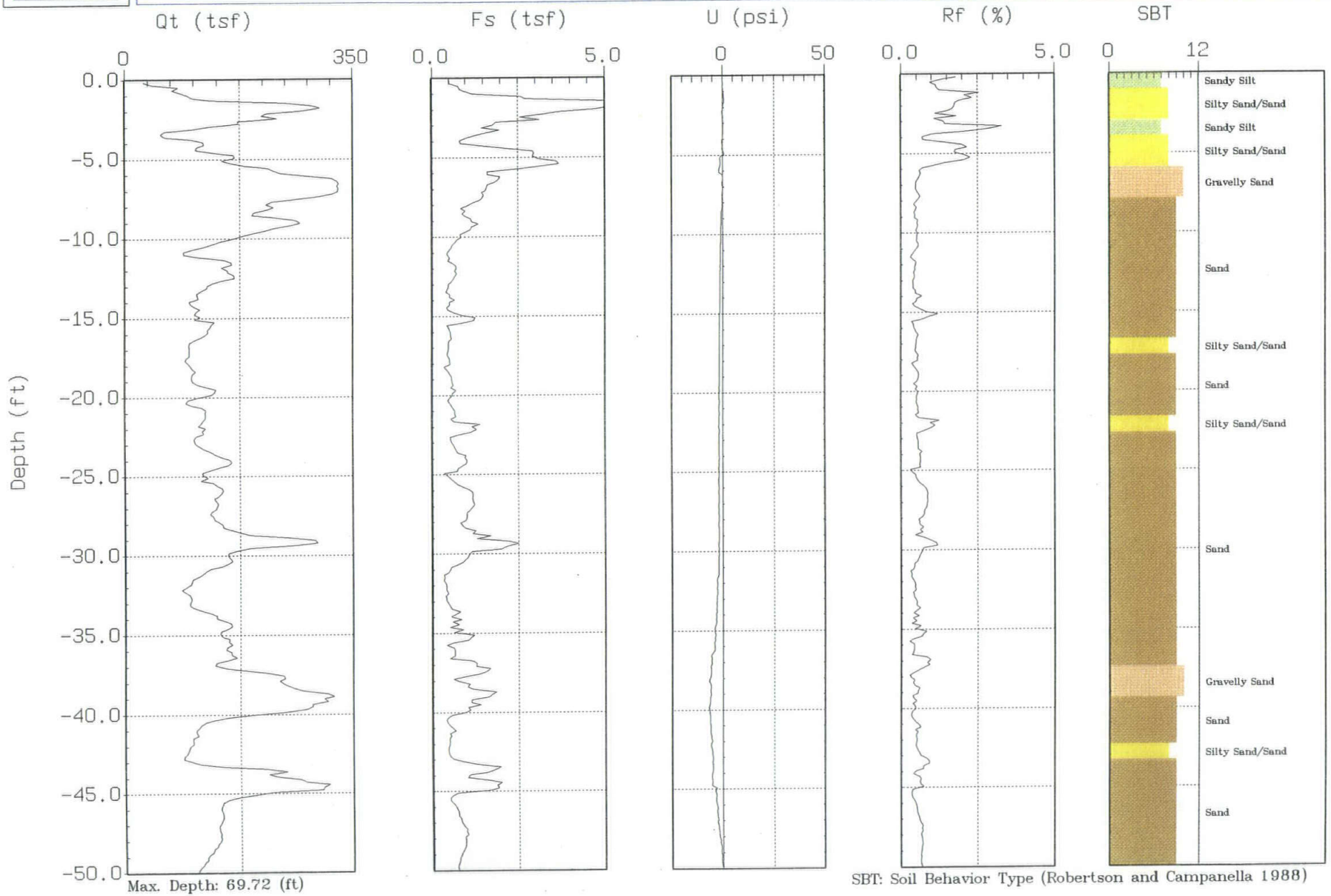
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-4B

Geologist : JOSE CERCONE
Date : 12:09:97 12:15



Max. Depth: 69.72 (ft)

Depth Inc.: 0.164 (ft)

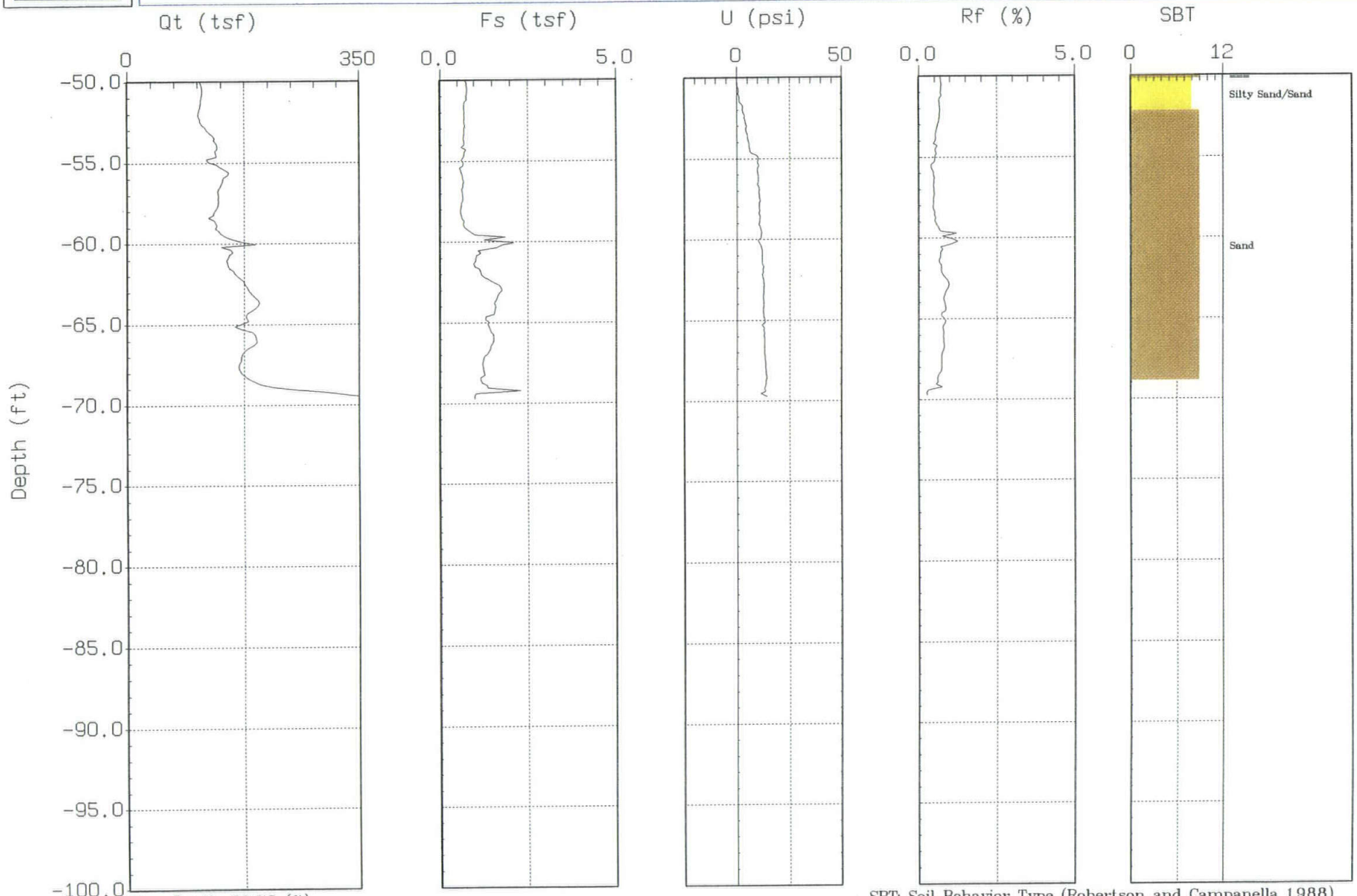
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-4B

Geologist : JOSE CERCONE
Date : 12:09:97 12:15



Max. Depth: 69.72 (ft)

Depth Inc.: 0.164 (ft)

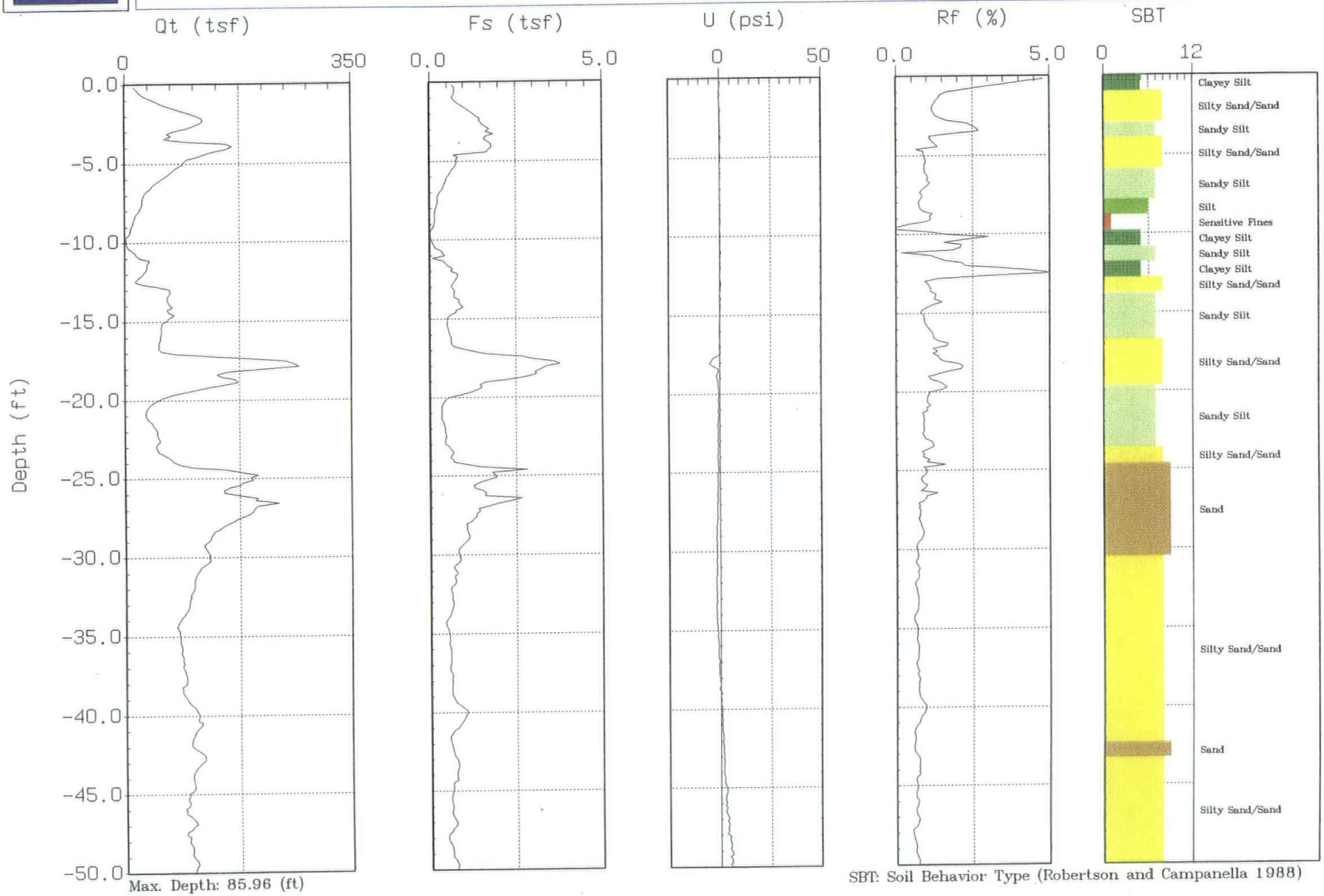
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-5

Geologist : JOSE CERCONE
Date : 12:10:97 10:06



Max. Depth: 85.96 (ft)

Depth Inc.: 0.164 (ft)

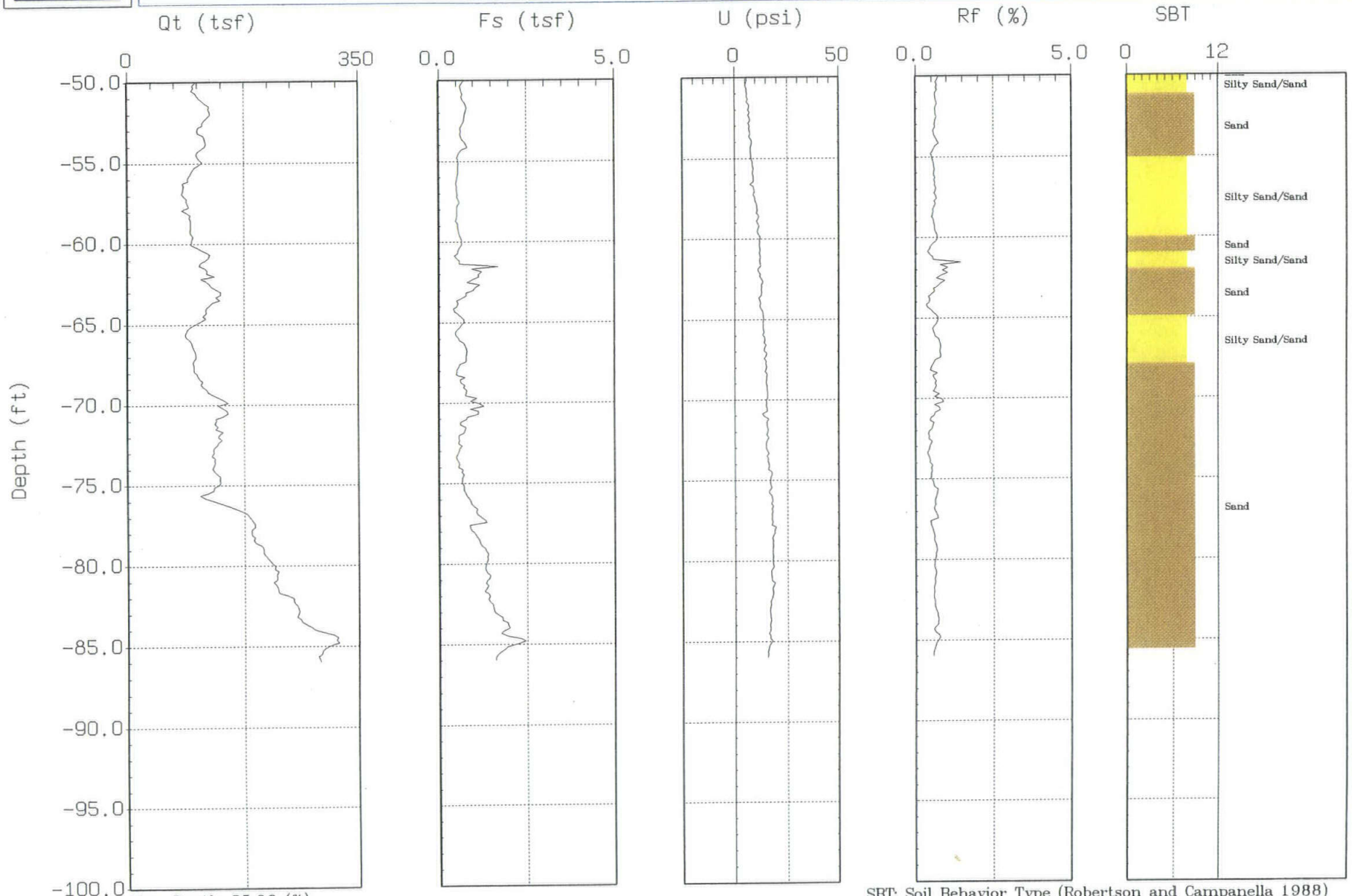
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-5

Geologist : JOSE CERCONE
Date : 12:10:97 10:06



Max. Depth: 85.96 (ft)

Depth Inc.: 0.164 (ft)

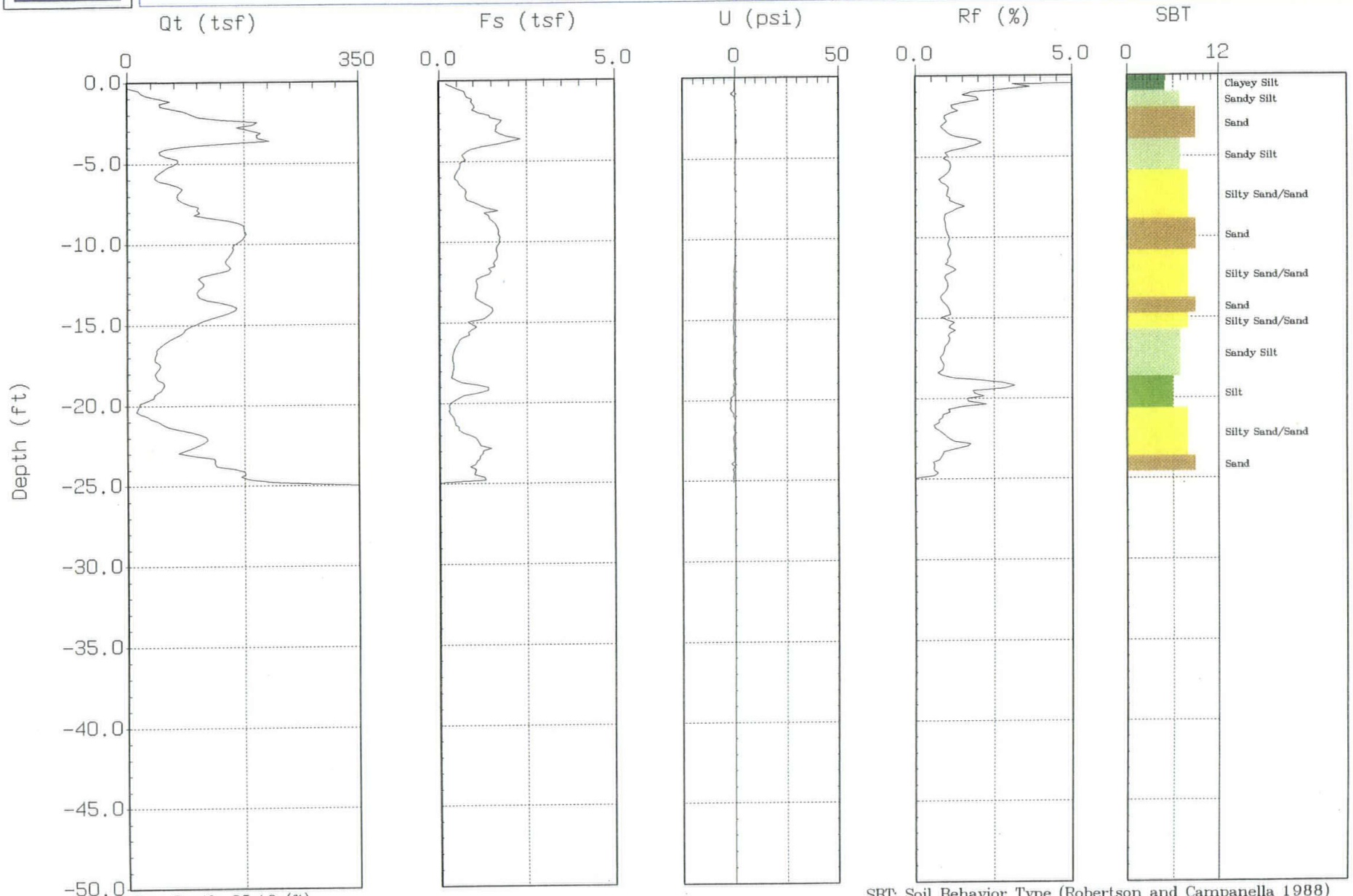
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-6

Geologist : JOSE CERCONE
Date : 12:09:97 15:45



Max. Depth: 25.10 (ft)

Depth Inc.: 0.164 (ft)

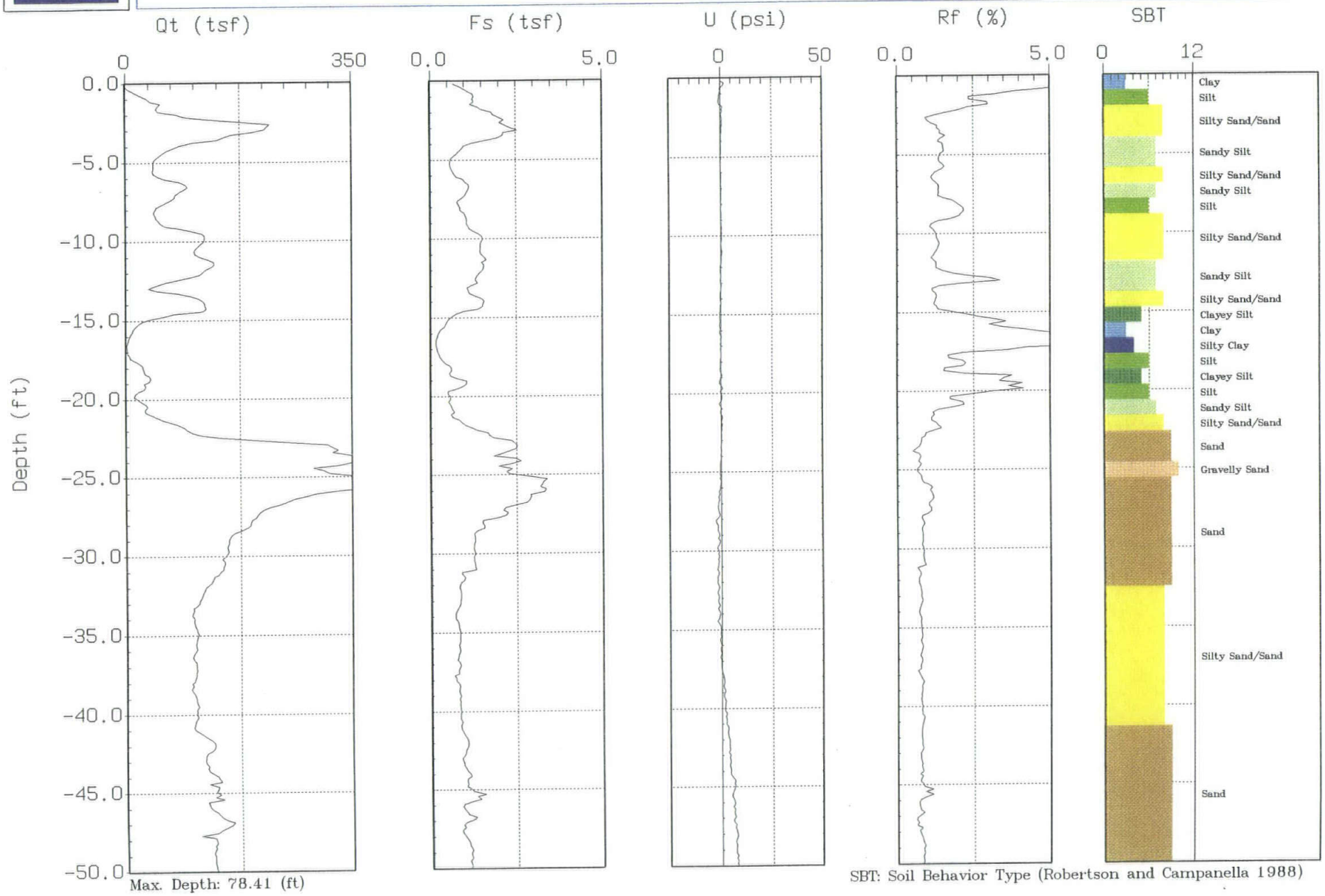
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-6A

Geologist : JOSE CERCONE
Date : 12:09:97 16:00



Max. Depth: 78.41 (ft)

Depth Inc.: 0.164 (ft)

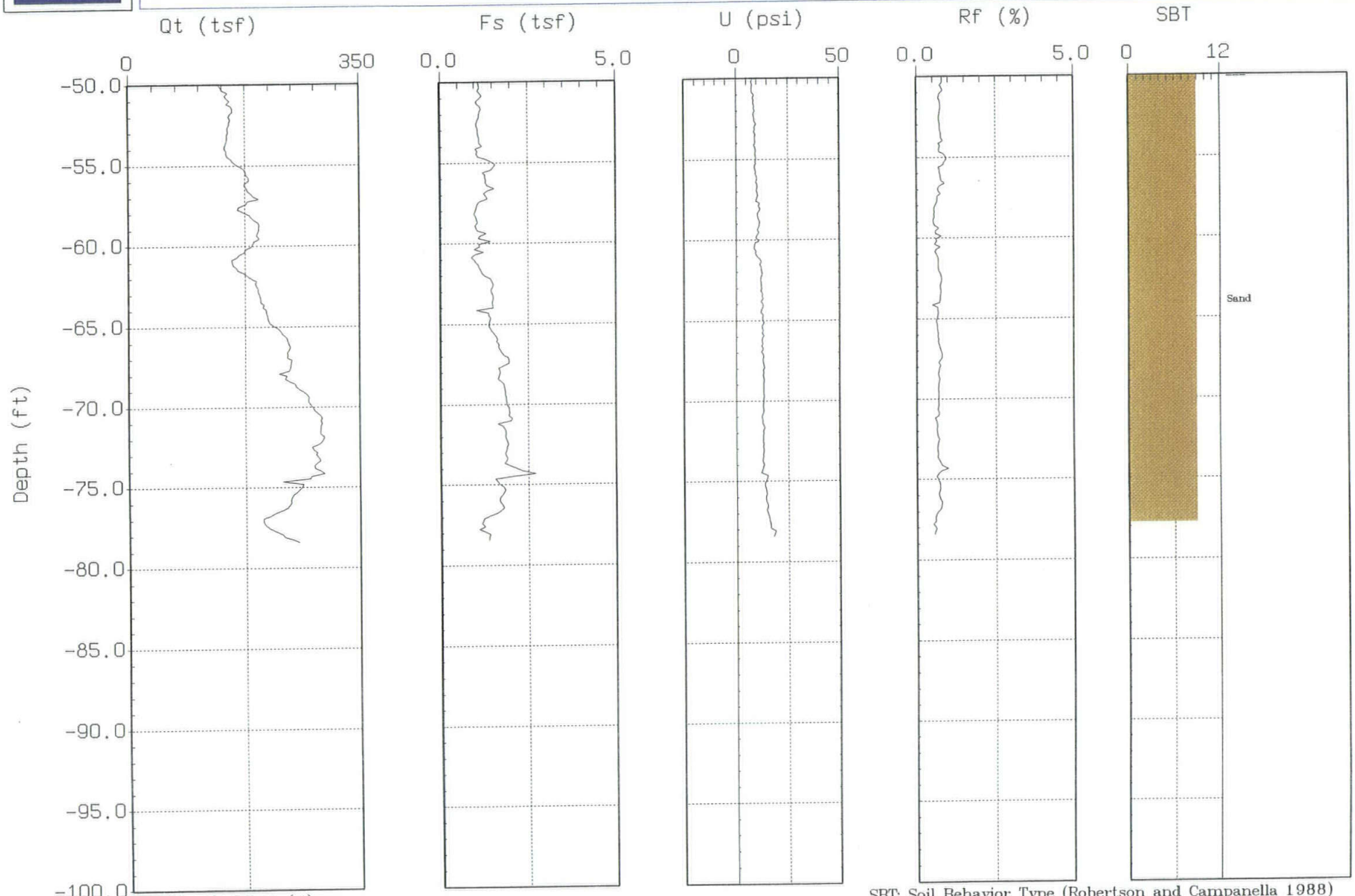
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-6A

Geologist : JOSE CERCONE
Date : 12:09:97 16:00



Max. Depth: 78.41 (ft)

Depth Inc.: 0.164 (ft)

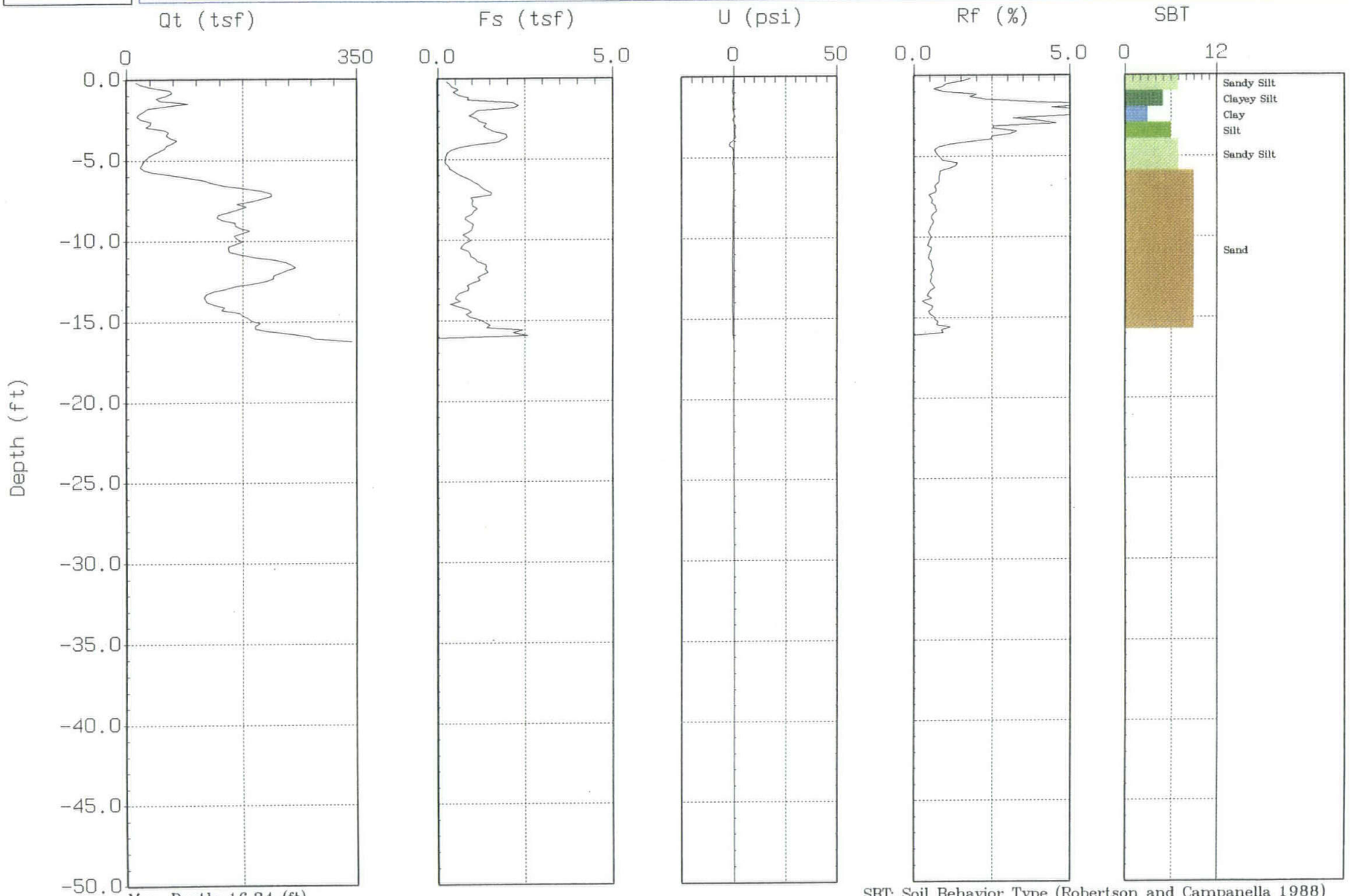
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-1

Geologist : JOSE CERCONE
Date : 12:01:97 10:22



Max. Depth: 16.24 (ft)

Depth Inc.: 0.164 (ft)

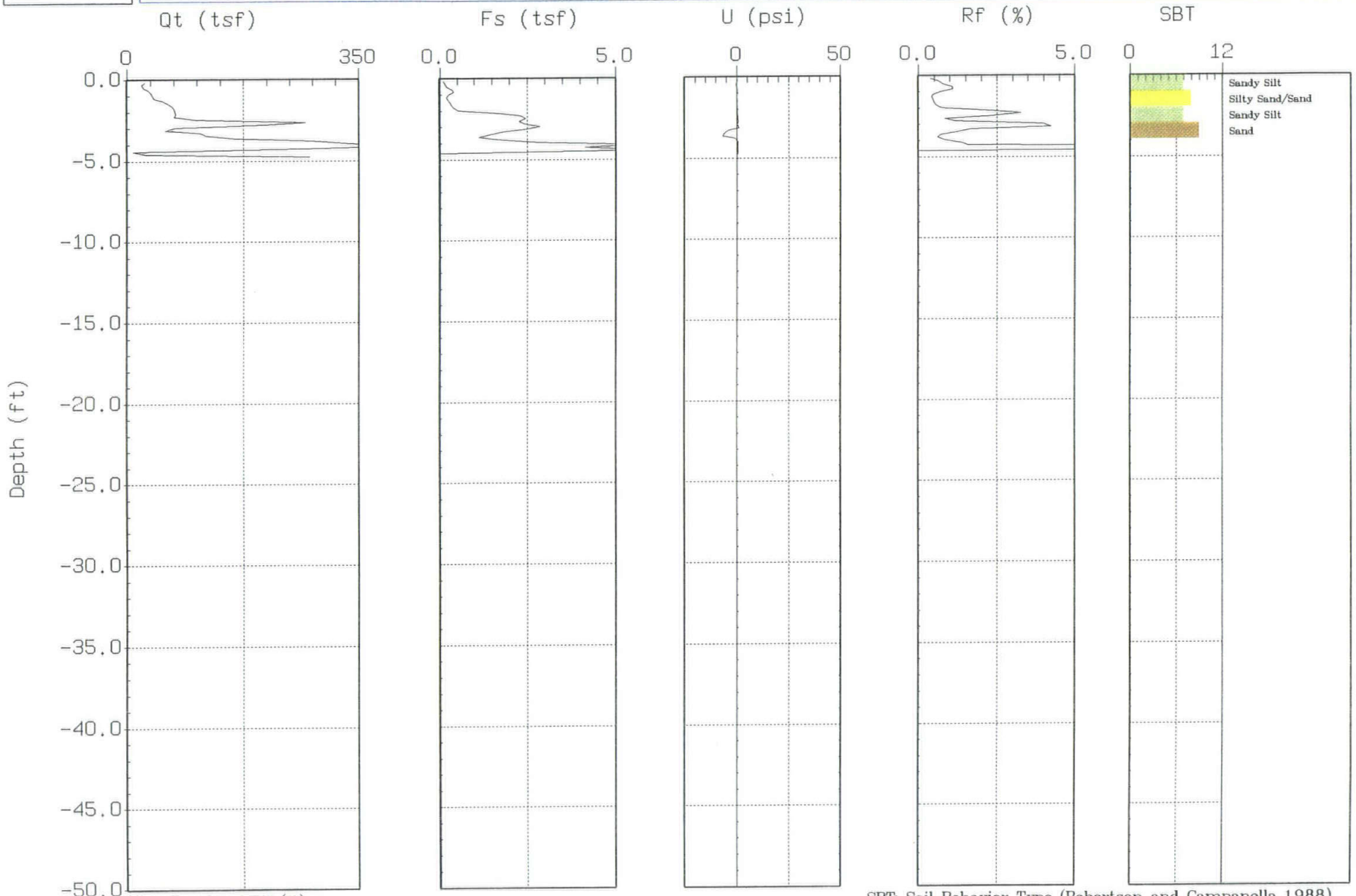
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : W5-1B

Geologist : JOSE CERCONE
Date : 12:09:97 09:20



Max. Depth: 4.76 (ft)

Depth Inc.: 0.164 (ft)

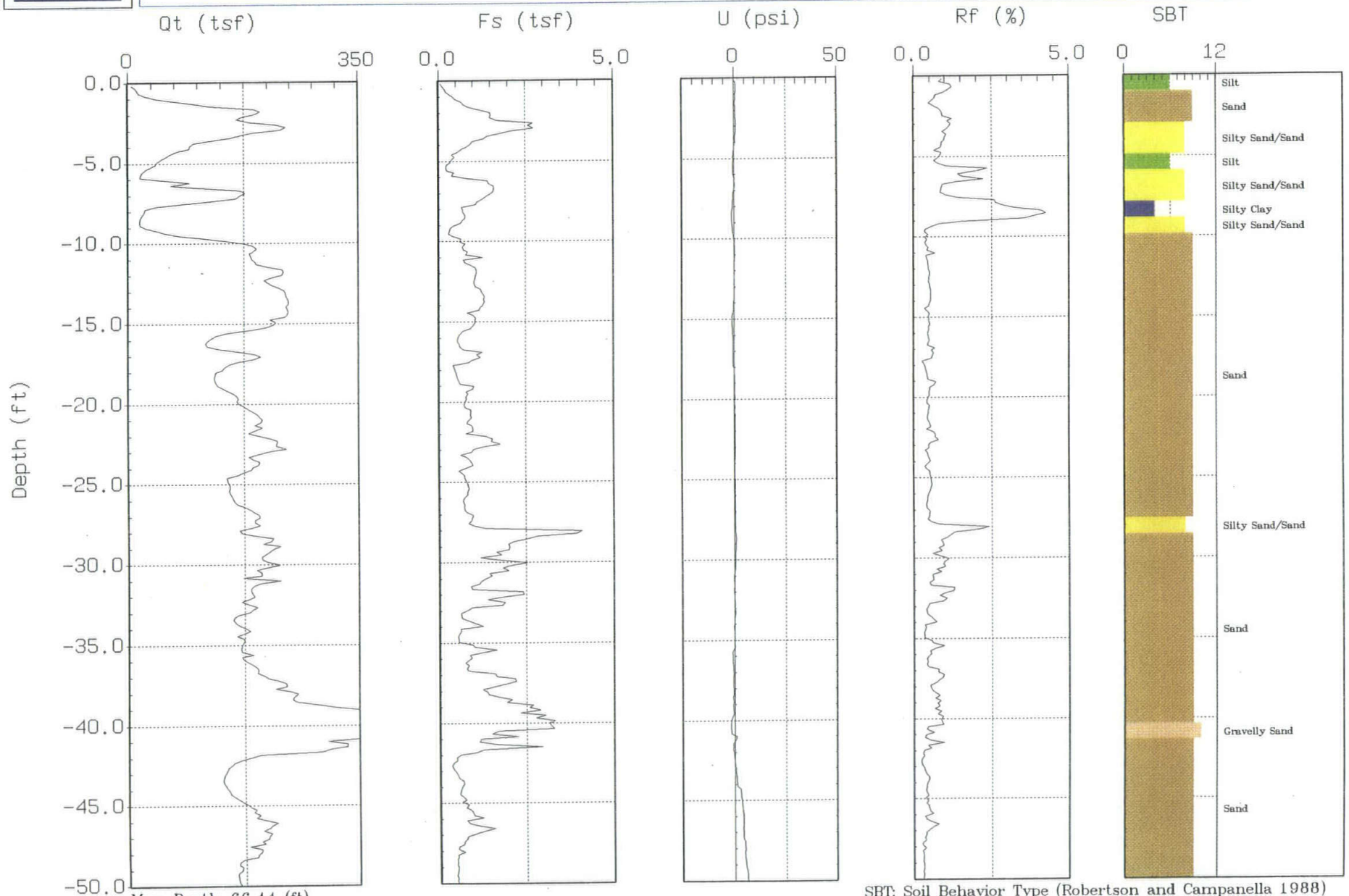
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-1

Geologist : JOSE CERCONE
Date : 12:02:97 09:51



Max. Depth: 66.44 (ft)

Depth Inc.: 0.164 (ft)

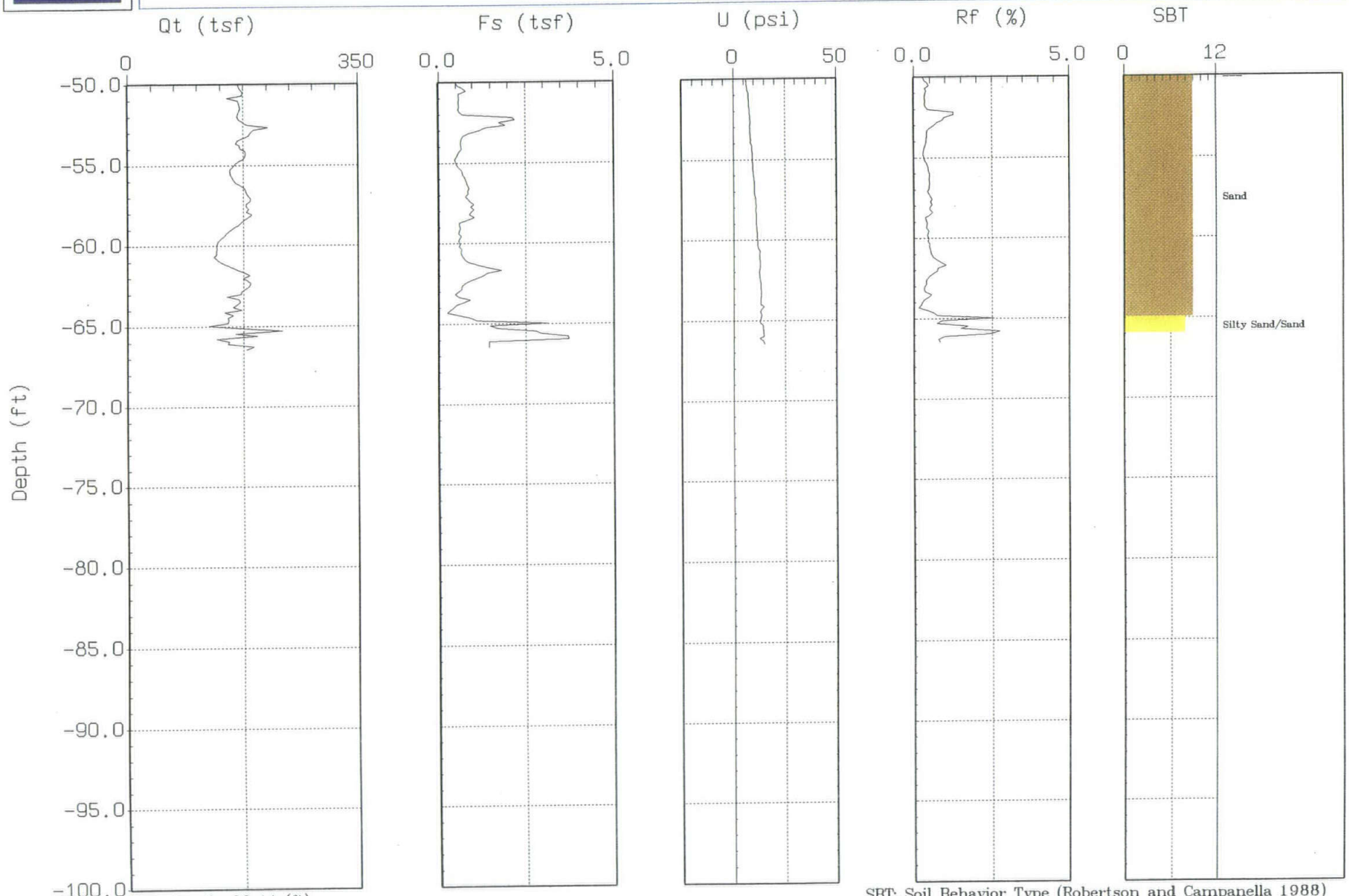
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-1

Geologist : JOSE CERCONE
Date : 12:02:97 09:51



Max. Depth: 66.44 (ft)

Depth Inc.: 0.164 (ft)

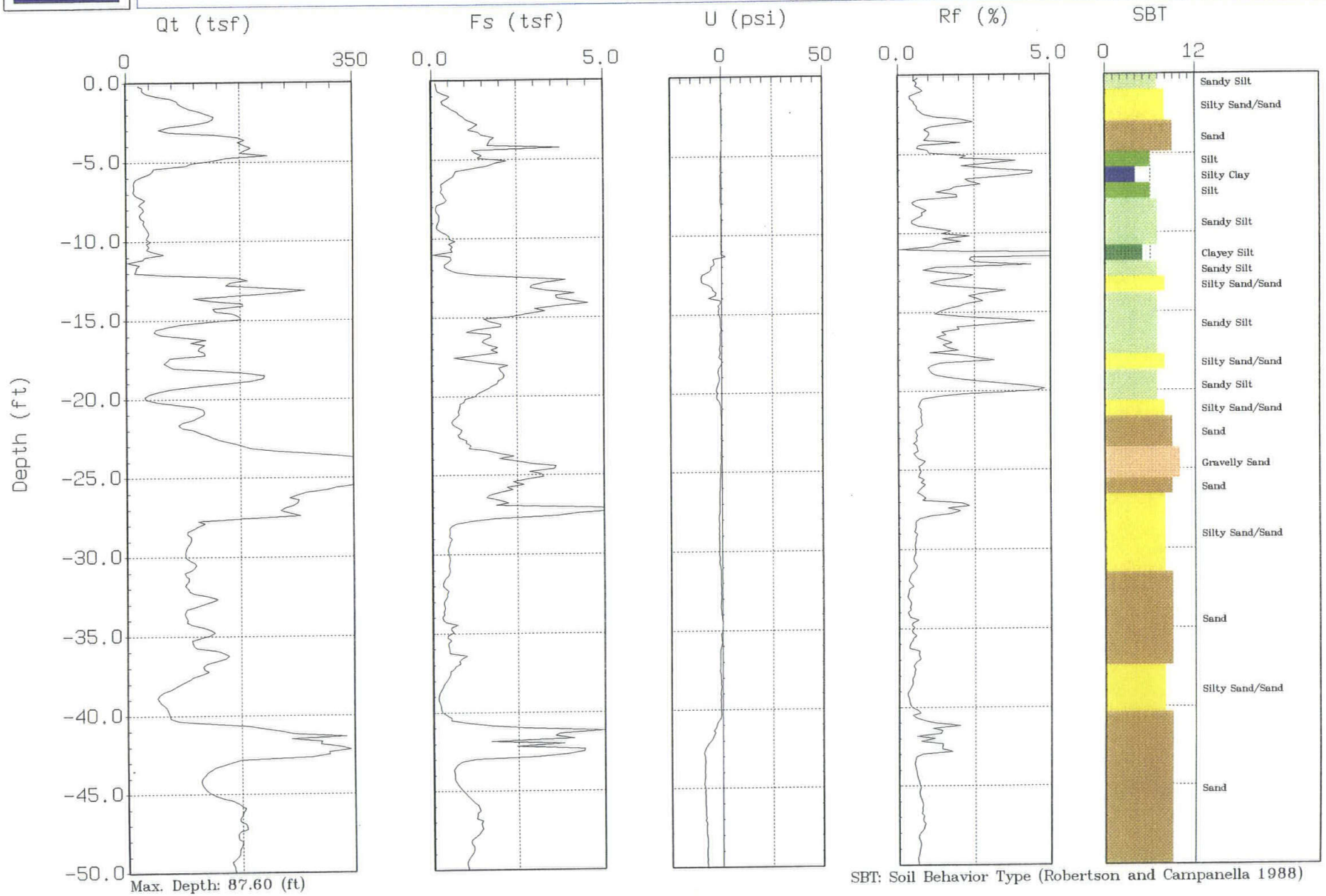
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-2

Geologist : JOSE CERCONE
Date : 12:01:97 10:42



Max. Depth: 87.60 (ft)

Depth Inc.: 0.164 (ft)

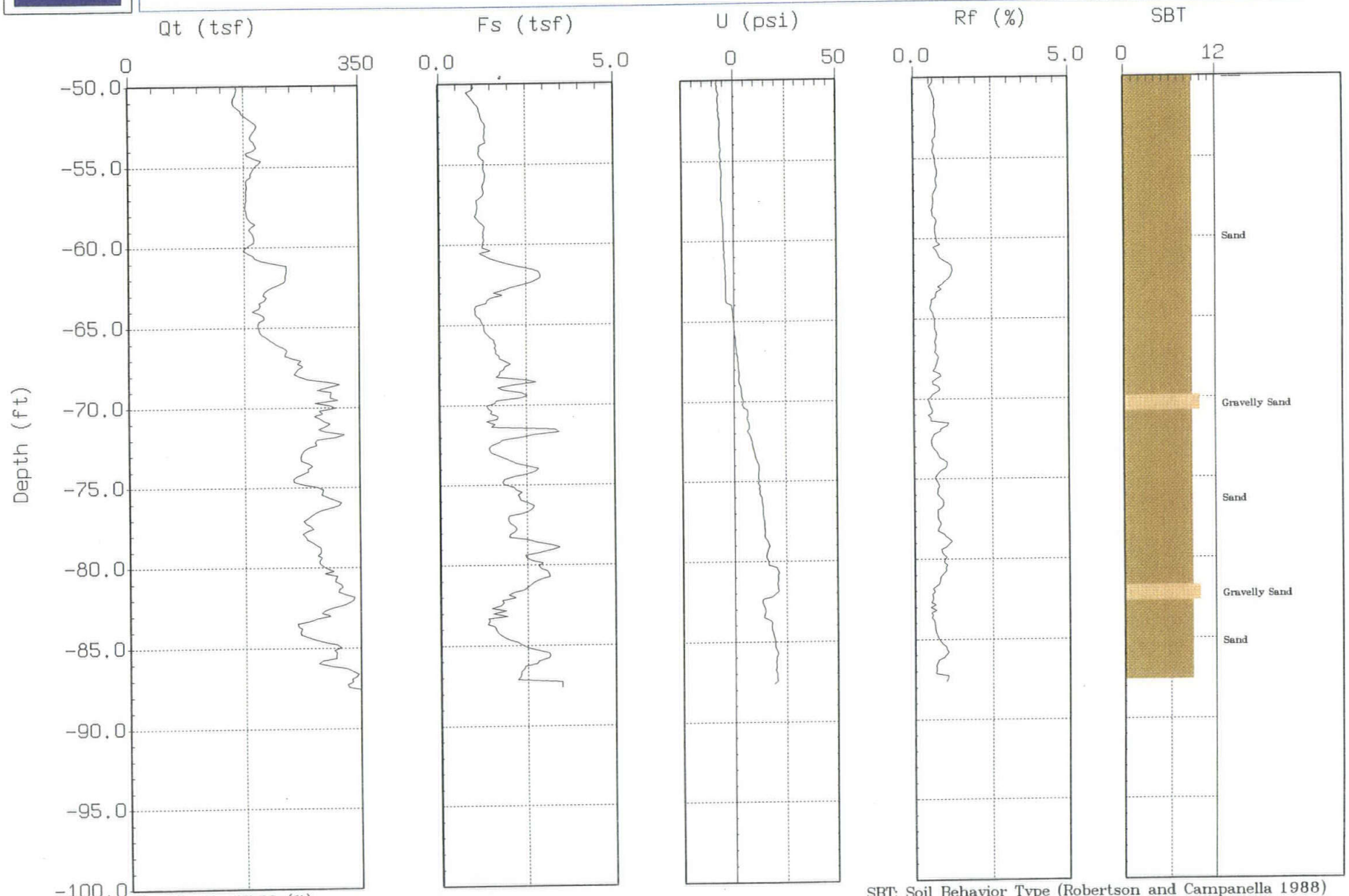
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-2

Geologist : JOSE CERCONE
Date : 12:01:97 10:42



Max. Depth: 87.60 (ft)

Depth Inc.: 0.164 (ft)

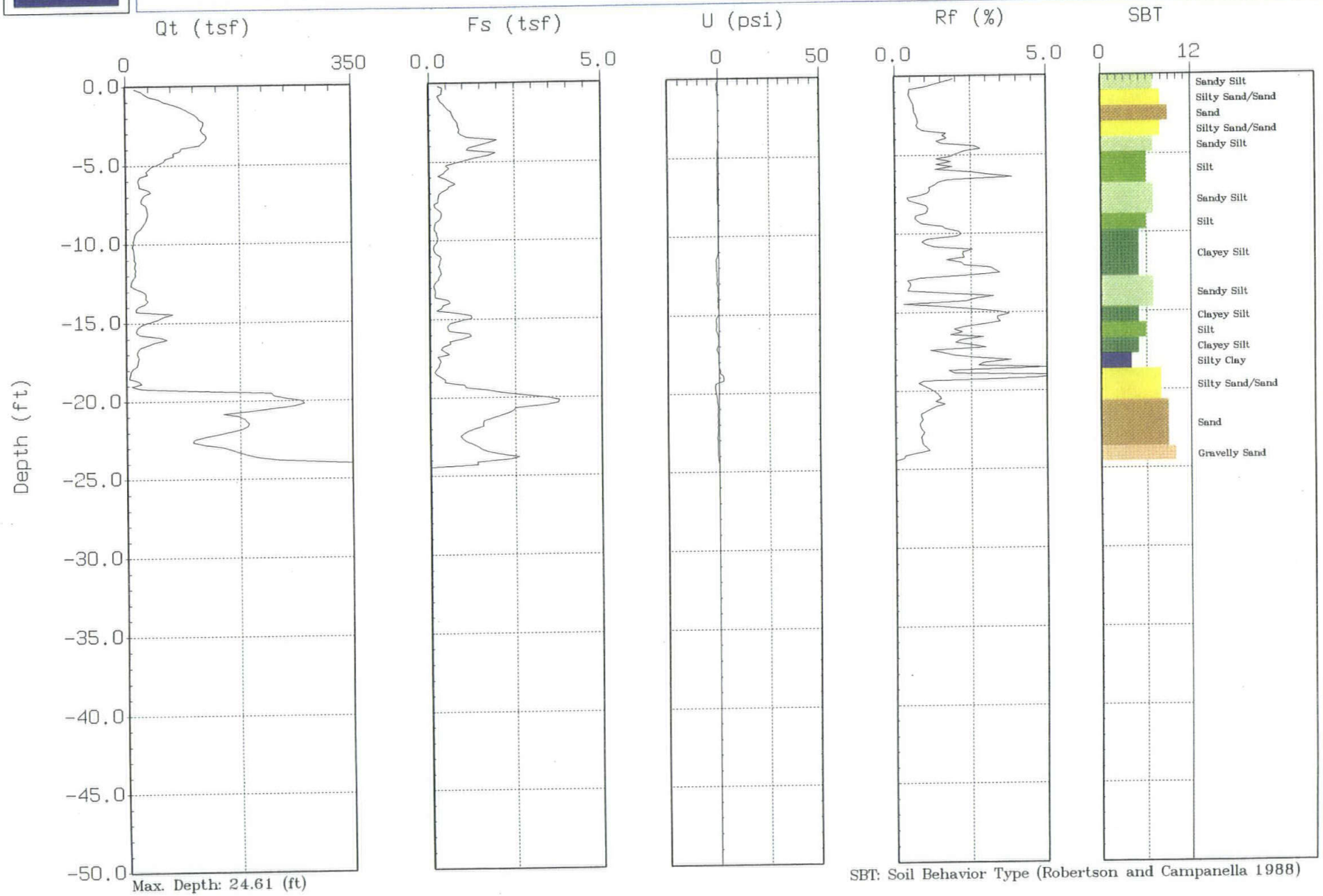
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-3

Geologist : JOSE CERCONE
Date : 12:01:97 13:06



Max. Depth: 24.61 (ft)

Depth Inc.: 0.164 (ft)

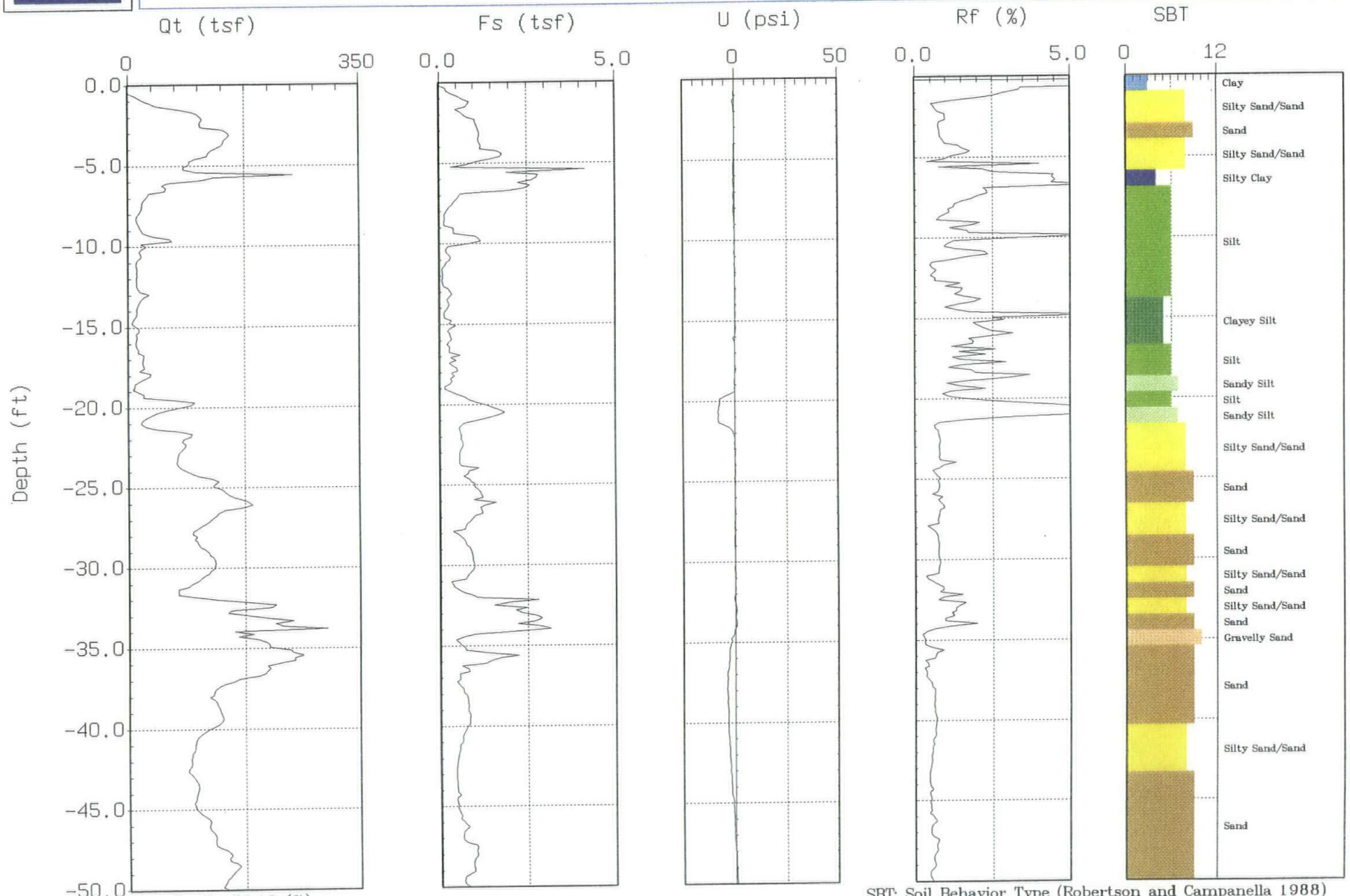
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-3

Geologist : JOSE CERCONE
Date : 12:01:97 13:47



Max. Depth: 86.12 (ft)

Depth Inc.: 0.164 (ft)

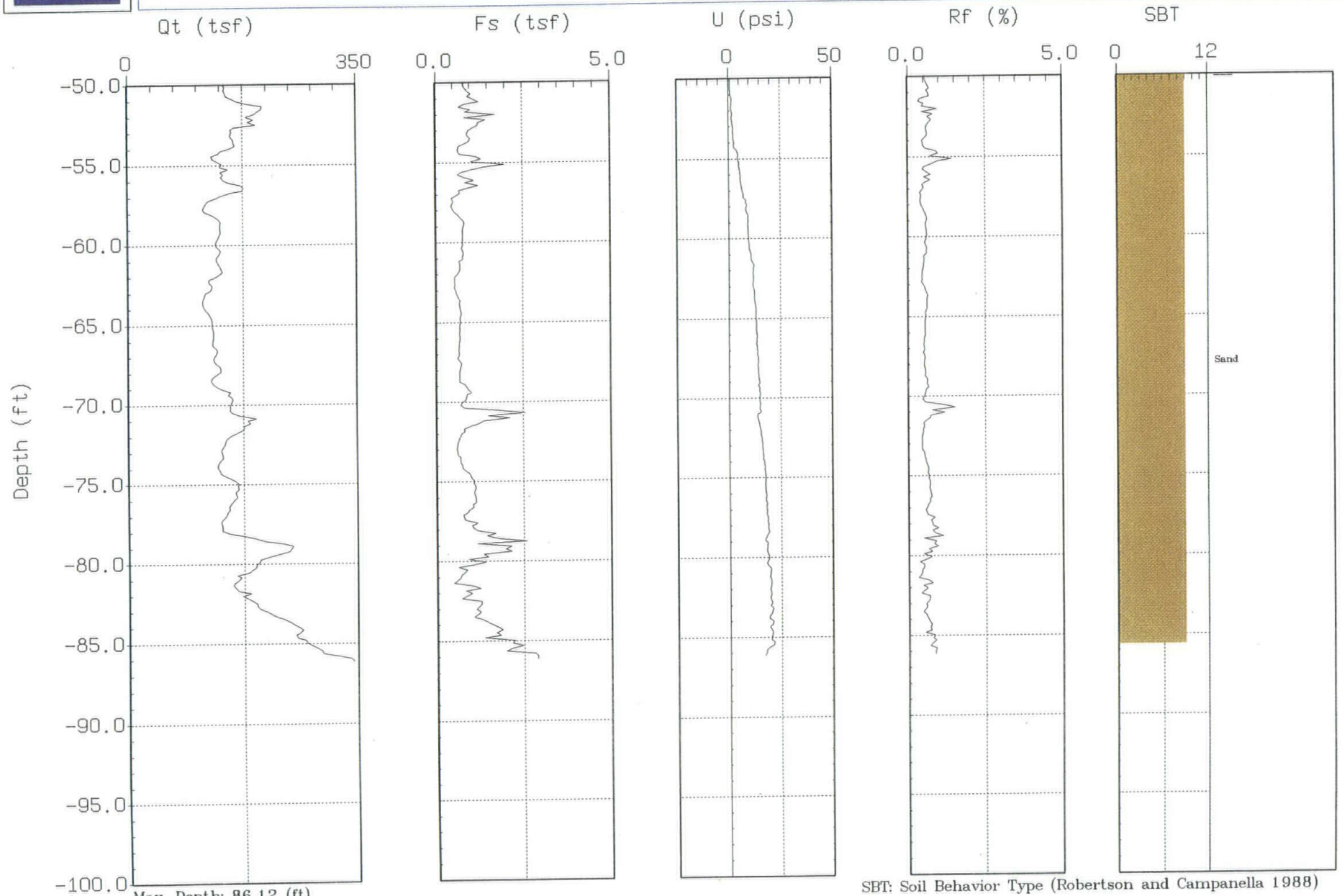
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-3

Geologist : JOSE CERCONE
Date : 12:01:97 13:47



Max. Depth: 86.12 (ft)

Depth Inc.: 0.164 (ft)

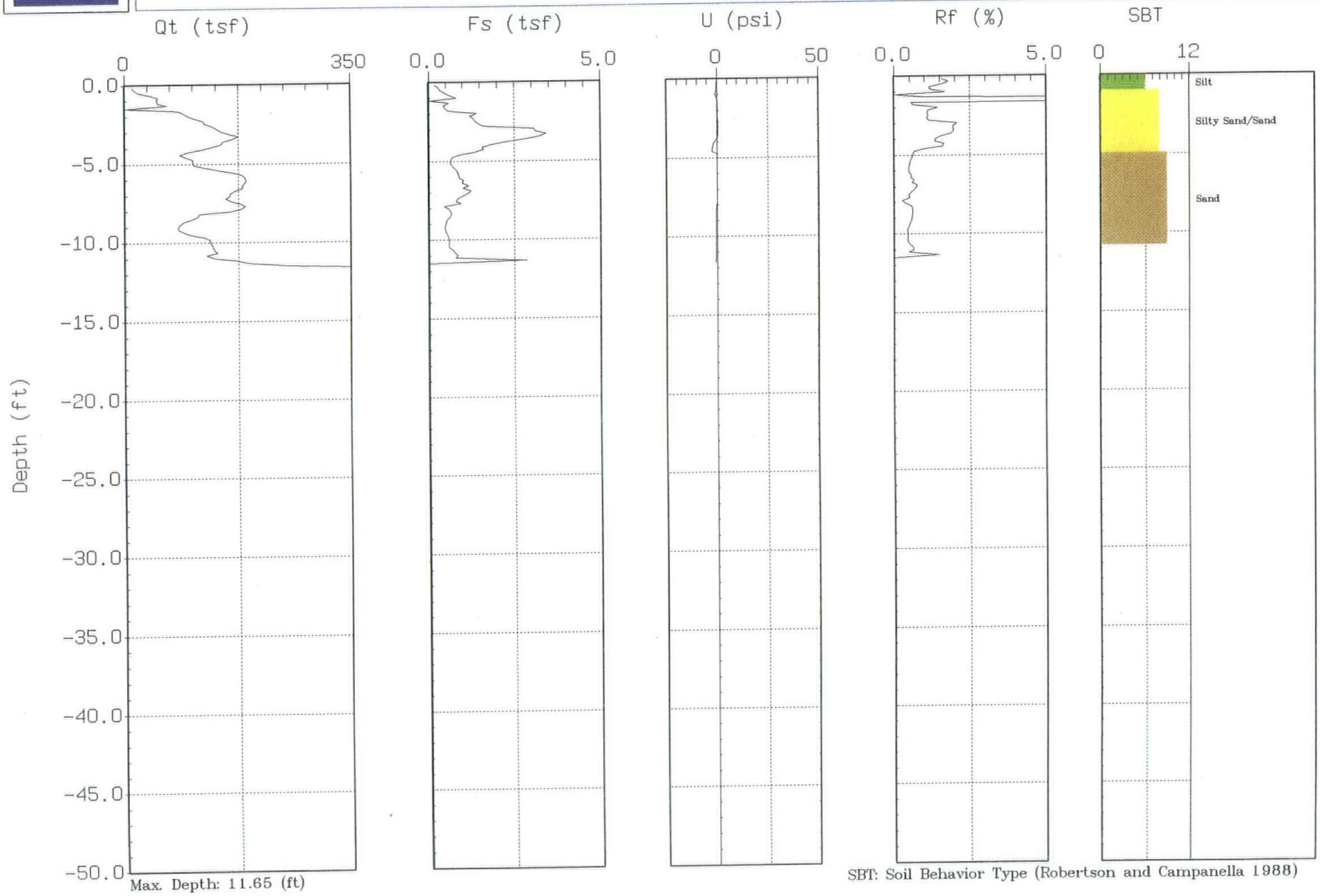
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-4

Geologist : JOSE CERCONE
Date : 12:01:97 09:39



Max. Depth: 11.65 (ft)

Depth Inc.: 0.164 (ft)

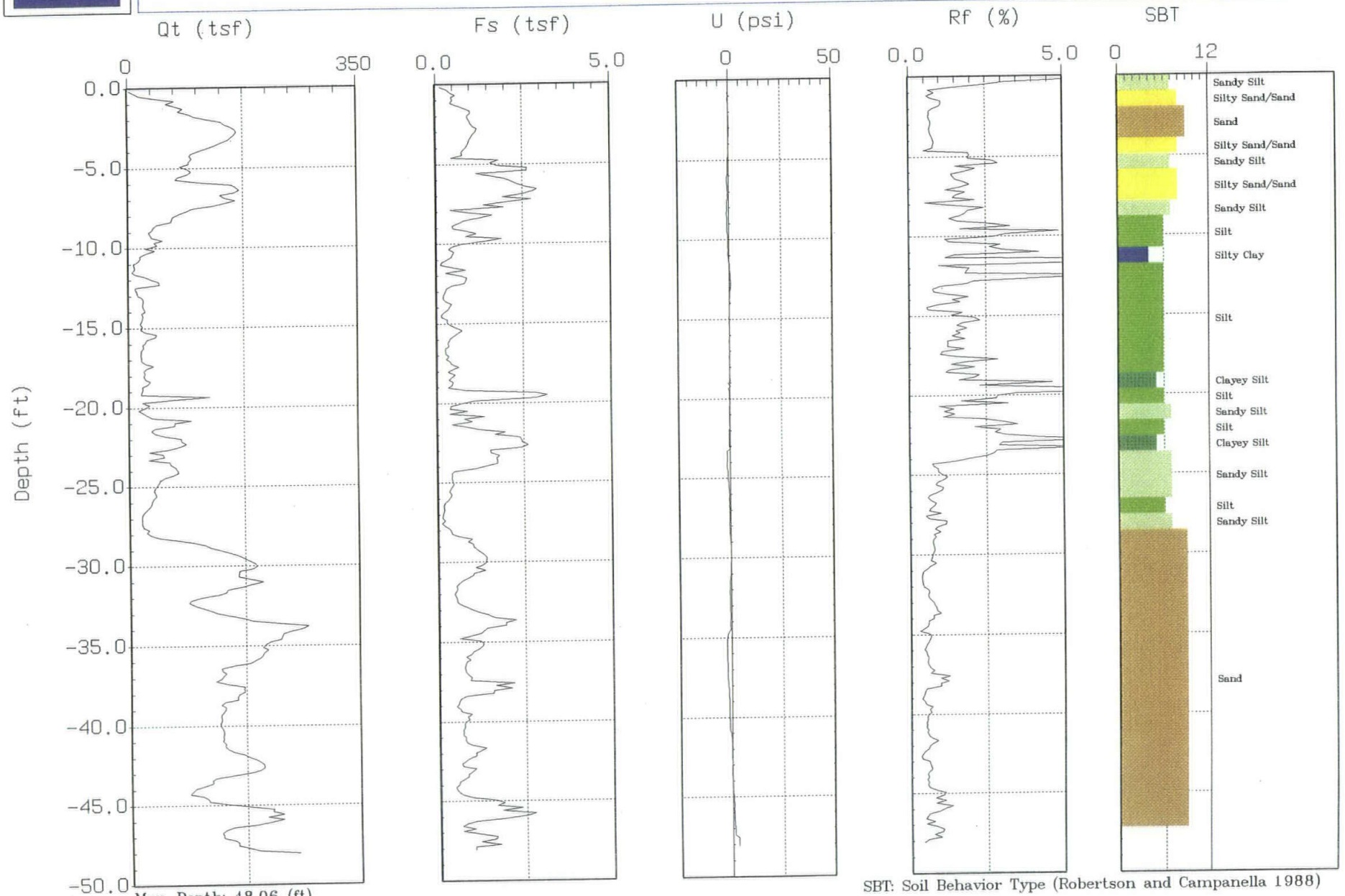
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

MKC

Site : ANOKA PARK
Location : HW-4

Geologist : JOSE CERCONE
Date : 12:01:97 14:48



Max. Depth: 48.06 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

MKC

Contractor :GREGG
Location : W4-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 08:38
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	33.99	0.32	0.96	0.03	silty sand to sandy silt	80-90	>48	11	UNDEFINED
2	42.34	0.35	0.82	0.09	silty sand to sandy silt	70-80	46-48	14	UNDEFINED
3	22.07	0.17	0.78	0.15	silty sand to sandy silt	50-60	40-42	7	UNDEFINED
4	13.50	0.08	0.57	0.22	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
5	11.72	0.08	0.70	0.28	sandy silt to clayey silt	UNDFND	UNDFD	4	.9
6	38.01	0.27	0.70	0.33	silty sand to sandy silt	50-60	38-40	12	UNDEFINED
7	131.67	0.70	0.53	0.39	sand	80-90	44-46	25	UNDEFINED
8	145.99	0.88	0.61	0.45	sand	80-90	44-46	28	UNDEFINED
9	194.10	1.14	0.59	0.51	sand	>90	44-46	37	UNDEFINED
10	247.34	1.30	0.52	0.57	sand	>90	46-48	47	UNDEFINED
11	223.11	1.31	0.58	0.63	sand	>90	44-46	43	UNDEFINED
12	193.01	1.25	0.65	0.69	sand	>90	42-44	37	UNDEFINED
13	166.14	1.10	0.66	0.75	sand	80-90	42-44	32	UNDEFINED
14	161.29	1.10	0.68	0.81	sand	80-90	42-44	31	UNDEFINED
15	165.12	1.05	0.64	0.87	sand	80-90	40-42	32	UNDEFINED
16	208.49	1.20	0.57	0.93	sand	80-90	42-44	40	UNDEFINED
17	186.18	1.10	0.59	0.98	sand	80-90	40-42	36	UNDEFINED
18	163.26	0.99	0.61	1.04	sand	80-90	40-42	31	UNDEFINED
19	149.71	1.06	0.71	1.10	sand	70-80	40-42	29	UNDEFINED
20	224.88	1.75	0.78	1.16	sand	80-90	42-44	43	UNDEFINED
21	209.69	1.21	0.58	1.23	sand	80-90	40-42	40	UNDEFINED
22	198.13	0.91	0.46	1.29	sand	80-90	40-42	38	UNDEFINED
23	142.47	0.68	0.48	1.35	sand	70-80	38-40	27	UNDEFINED
24	130.12	0.64	0.49	1.41	sand	60-70	36-38	25	UNDEFINED
25	151.60	0.64	0.42	1.48	sand	70-80	38-40	29	UNDEFINED
26	124.80	0.46	0.37	1.54	sand	60-70	36-38	24	UNDEFINED
27	113.91	0.50	0.43	1.59	sand	60-70	36-38	22	UNDEFINED
28	165.72	0.57	0.34	1.65	sand	70-80	38-40	32	UNDEFINED
29	155.09	0.69	0.44	1.71	sand	70-80	36-38	30	UNDEFINED
30	141.74	0.64	0.45	1.77	sand	60-70	36-38	27	UNDEFINED
31	98.34	0.29	0.30	1.83	sand	50-60	34-36	19	UNDEFINED
32	135.10	0.34	0.25	1.89	sand	60-70	36-38	26	UNDEFINED
33	159.88	0.50	0.31	1.95	sand	70-80	36-38	31	UNDEFINED
34	149.45	0.65	0.43	1.99	sand	60-70	36-38	29	UNDEFINED
35	134.33	0.61	0.46	2.02	sand	60-70	34-36	26	UNDEFINED
36	120.97	0.49	0.41	2.04	sand	60-70	34-36	23	UNDEFINED
37	131.73	0.39	0.29	2.07	sand	60-70	34-36	25	UNDEFINED
38	141.76	0.38	0.27	2.10	sand	60-70	34-36	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	123.34	0.42	0.34	2.13	sand	60-70	34-36	24	UNDEFINED
40	175.73	1 27	0.72	2.16	sand	70-80	36-38	34	UNDEFINED
41	100.73	0.46	0.46	2.19	sand	50-60	32-34	19	UNDEFINED
42	93.92	0.22	0.23	2.22	sand	50-60	32-34	18	UNDEFINED
43	125.23	0.43	0.35	2.25	sand	60-70	34-36	24	UNDEFINED
44	161 92	0.94	0.58	2.28	sand	60-70	36-38	31	UNDEFINED
45	181.53	0.86	0.48	2.31	sand	70-80	36-38	35	UNDEFINED
46	173.14	0.72	0.42	2.34	sand	70-80	36-38	33	UNDEFINED
47	172.87	0.65	0.38	2.36	sand	70-80	36-38	33	UNDEFINED
48	127.50	0.39	0.31	2.39	sand	60-70	34-36	24	UNDEFINED
49	136.56	0.64	0.47	2.42	sand	60-70	34-36	26	UNDEFINED
50	166.78	0.42	0.25	2.45	sand	60-70	34-36	32	UNDEFINED
51	172.83	0.48	0.28	2 48	sand	60-70	34-36	33	UNDEFINED
52	193.61	0 49	0.25	2.51	sand	70-80	36-38	37	UNDEFINED
53	271.52	1.96	0.72	2.53	sand	80-90	38-40	>50	UNDEFINED
54	98.78	1.95	1.98	2.56	silty sand to sandy silt	50-60	30-32	32	UNDEFINED
55	74 78	2.10	2.81	2.59	sandy silt to clayey silt	UNDFND	UNDFD	29	5.7
56	142.56	2.84	1.99	2.62	silty sand to sandy silt	60-70	34-36	46	UNDEFINED
57	76 49	1.64	2.15	2.65	silty sand to sandy silt	40-50	<30	24	UNDEFINED
58	87.10	2.10	2.41	2.68	silty sand to sandy silt	40-50	30-32	28	UNDEFINED
59	87.90	2.54	2.89	2.70	sandy silt to clayey silt	UNDFND	UNDFD	34	6.7
60	130.79	3.67	2 81	2.73	silty sand to sandy silt	50-60	32-34	42	UNDEFINED
1	95.72	3.28	3.42	2.76	sandy silt to clayey silt	UNDFND	UNDFD	37	7.3
62	90.00	3 20	3.56	2 79	sandy silt to clayey silt	UNDFND	UNDFD	34	6.9
63	58 37	1.64	2.81	2 82	sandy silt to clayey silt	UNDFND	UNDFD	22	4.3
64	78.65	2 41	3.06	2.85	sandy silt to clayey silt	UNDFND	UNDFD	30	5.9
65	92.97	2.55	2 74	2.88	sandy silt to clayey silt	UNDFND	UNDFD	36	7.1
66	89 58	2 89	3 23	2.91	sandy silt to clayey silt	UNDFND	UNDFD	34	6.8
67	102 73	2.96	2 89	2.94	sandy silt to clayey silt	UNDFND	UNDFD	39	7.8
68	195 39	2.35	1 20	2.97	sand	70-80	34-36	37	UNDEFINED
69	272 79	2.76	1.01	3.00	sand	70-80	36-38	>50	UNDEFINED
70	163.99	7.59	4.63	3.03	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
71	112.29	6.39	5.69	3 05	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
72	122.65	7.46	6.08	3 08	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
73	116 84	7 55	6 46	3 11	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
74	153 32	6.68	4 36	3.14	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
75	158 92	7.36	4.63	3.17	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
76	158.49	6.03	3.81	3.20	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-2
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:02:97 07:51
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	28.54	0.38	1.34	0.03	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
2	37.93	0.87	2.30	0.09	sandy silt to clayey silt	UNDFND	UNDFD	15	3.0
3	92.13	0.44	0.48	0.15	sand	>90	46-48	18	UNDEFINED
4	87.05	0.45	0.52	0.22	sand to silty sand	80-90	44-46	21	UNDEFINED
5	104.87	0.44	0.42	0.28	sand	80-90	44-46	20	UNDEFINED
6	139.37	0.66	0.47	0.33	sand	>90	44-46	27	UNDEFINED
7	111.48	0.61	0.55	0.39	sand	80-90	42-44	21	UNDEFINED
8	87.18	0.51	0.59	0.45	sand to silty sand	70-80	40-42	21	UNDEFINED
9	117.71	0.65	0.55	0.51	sand	80-90	42-44	23	UNDEFINED
10	103.36	0.59	0.57	0.57	sand	70-80	40-42	20	UNDEFINED
11	109.65	0.58	0.53	0.63	sand	70-80	40-42	21	UNDEFINED
12	136.58	0.79	0.58	0.69	sand	80-90	42-44	26	UNDEFINED
13	141.44	0.90	0.64	0.75	sand	80-90	40-42	27	UNDEFINED
14	175.75	0.98	0.56	0.81	sand	80-90	42-44	34	UNDEFINED
15	200.44	1.09	0.54	0.87	sand	80-90	42-44	38	UNDEFINED
16	200.44	1.09	0.54	0.93	sand	80-90	42-44	38	UNDEFINED
17	225.93	1.55	0.69	0.98	sand	>90	42-44	43	UNDEFINED
18	284.71	1.74	0.61	1.04	sand	>90	42-44	>50	UNDEFINED
19	252.43	1.67	0.66	1.10	sand	>90	42-44	48	UNDEFINED
20	218.23	1.23	0.57	1.16	sand	80-90	40-42	42	UNDEFINED
21	201.98	0.96	0.48	1.23	sand	80-90	40-42	39	UNDEFINED
22	183.96	0.65	0.35	1.29	sand	80-90	40-42	35	UNDEFINED
23	157.70	0.56	0.35	1.35	sand	70-80	38-40	30	UNDEFINED
24	130.51	0.47	0.36	1.41	sand	60-70	36-38	25	UNDEFINED
25	165.68	0.36	0.22	1.48	sand	70-80	38-40	32	UNDEFINED
26	186.91	0.44	0.24	1.54	sand	70-80	38-40	36	UNDEFINED
27	201.66	0.57	0.29	1.59	sand	80-90	38-40	39	UNDEFINED
28	240.45	1.09	0.45	1.65	sand	80-90	40-42	46	UNDEFINED
29	260.56	1.20	0.46	1.71	gravelly sand to sand	80-90	40-42	42	UNDEFINED
30	244.61	0.67	0.27	1.77	gravelly sand to sand	80-90	40-42	39	UNDEFINED
31	180.10	0.70	0.39	1.83	sand	70-80	38-40	35	UNDEFINED
32	209.48	0.71	0.34	1.89	sand	70-80	38-40	40	UNDEFINED
33	223.22	0.64	0.28	1.95	gravelly sand to sand	80-90	38-40	36	UNDEFINED
34	241.81	0.99	0.41	1.99	gravelly sand to sand	80-90	38-40	39	UNDEFINED
35	167.97	0.50	0.30	2.02	sand	70-80	36-38	32	UNDEFINED
36	166.61	0.59	0.35	2.04	sand	70-80	36-38	32	UNDEFINED
37	189.65	0.49	0.26	2.07	sand	70-80	36-38	36	UNDEFINED
38	115.52	0.44	0.38	2.10	sand	60-70	34-36	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W4-2 Page No. 2

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	225.78	0.66	0.29	2 13	gravelly sand to sand	70-80	38-40	36	UNDEFINED
40	216 38	0.96	0.44	2 16	sand	70-80	38-40	41	UNDEFINED
41	129.42	0.54	0.42	2.19	sand	60-70	34-36	25	UNDEFINED
42	201.35	1.01	0.50	2.22	sand	70-80	36-38	39	UNDEFINED
43	282 11	1.03	0.36	2.25	gravelly sand to sand	80-90	38-40	45	UNDEFINED
44	261 74	1.27	0.49	2.28	gravelly sand to sand	80-90	38-40	42	UNDEFINED
45	134.51	0.71	0.53	2.31	sand	60-70	34-36	26	UNDEFINED
46	180.35	0.77	0 42	2.34	sand	70-80	36-38	35	UNDEFINED
47	220.45	1.44	0 65	2.36	sand	70-80	36-38	42	UNDEFINED
48	170.22	1.03	0.61	2.39	sand	60-70	36-38	33	UNDEFINED
49	158.43	3.11	1.96	2.42	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
50	88.17	2.23	2.53	2.45	silty sand to sandy silt	50-60	30-32	28	UNDEFINED
51	125.05	4.47	3.57	2.48	sandy silt to clayey silt	UNDFND	UNDFD	48	9.7
52	98 34	3.50	3.56	2.51	sandy silt to clayey silt	UNDFND	UNDFD	38	7.6
53	100.95	3.62	3.59	2 53	sandy silt to clayey silt	UNDFND	UNDFD	39	7.8
54	165.02	4.06	2.46	2.56	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
55	207 08	6 55	3.16	2.59	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
56	283.01	5.57	1.97	2.62	sand to silty sand	80-90	38-40	>50	UNDEFINED
57	467.38	7.01	1.50	2.65	sand	>90	40-42	>50	UNDEFINED
58	390 21	8.72	2.24	2.68	sand to silty sand	>90	40-42	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W4-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:02:97 08:46
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	20.26	0.35	1.74	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
2	17.95	0.87	4.87	0.09	clay	UNDFND	UNDFD	17	1.4
3	46.59	0.65	1.40	0.15	silty sand to sandy silt	70-80	44-46	15	UNDEFINED
4	69.93	0.31	0.44	0.22	sand to silty sand	70-80	44-46	17	UNDEFINED
5	82.48	0.34	0.41	0.28	sand to silty sand	70-80	44-46	20	UNDEFINED
6	75.04	0.36	0.48	0.33	sand to silty sand	70-80	42-44	18	UNDEFINED
7	52.92	0.19	0.37	0.39	sand to silty sand	60-70	38-40	13	UNDEFINED
8	53.42	0.20	0.37	0.45	sand to silty sand	60-70	38-40	13	UNDEFINED
9	65.34	0.29	0.45	0.51	sand to silty sand	60-70	38-40	16	UNDEFINED
10	83.33	0.43	0.51	0.57	sand to silty sand	60-70	40-42	20	UNDEFINED
11	83.35	0.38	0.46	0.63	sand to silty sand	60-70	38-40	20	UNDEFINED
12	86.36	0.32	0.37	0.69	sand	60-70	38-40	17	UNDEFINED
13	85.34	0.40	0.47	0.75	sand to silty sand	60-70	38-40	20	UNDEFINED
14	87.95	0.43	0.49	0.81	sand to silty sand	60-70	38-40	21	UNDEFINED
15	97.93	0.35	0.35	0.87	sand	60-70	38-40	19	UNDEFINED
16	93.15	0.44	0.47	0.93	sand	60-70	38-40	18	UNDEFINED
17	93.08	0.43	0.46	0.98	sand	60-70	36-38	18	UNDEFINED
18	96.45	0.38	0.40	1.04	sand	60-70	36-38	18	UNDEFINED
19	92.58	0.35	0.38	1.10	sand	60-70	36-38	18	UNDEFINED
20	109.17	0.54	0.50	1.16	sand	60-70	36-38	21	UNDEFINED
21	93.99	0.36	0.38	1.23	sand	60-70	36-38	18	UNDEFINED
22	63.78	0.18	0.28	1.29	sand to silty sand	50-60	32-34	15	UNDEFINED
23	91.19	0.29	0.31	1.35	sand	50-60	34-36	17	UNDEFINED
24	99.34	0.33	0.33	1.41	sand	60-70	36-38	19	UNDEFINED
25	91.44	0.27	0.29	1.48	sand	50-60	34-36	18	UNDEFINED
26	164.71	1.88	1.14	1.54	sand to silty sand	70-80	38-40	39	UNDEFINED
27	156.33	2.15	1.37	1.59	sand to silty sand	70-80	38-40	37	UNDEFINED
28	43.15	1.03	2.40	1.65	sandy silt to clayey silt	UNDFND	UNDFD	17	3.3
29	35.38	0.78	2.20	1.71	sandy silt to clayey silt	UNDFND	UNDFD	14	2.6
30	38.17	0.90	2.35	1.77	sandy silt to clayey silt	UNDFND	UNDFD	15	2.9
31	37.01	0.87	2.36	1.83	sandy silt to clayey silt	UNDFND	UNDFD	14	2.8
32	29.16	0.87	2.98	1.89	clayey silt to silty clay	UNDFND	UNDFD	14	2.1
33	41.38	0.88	2.12	1.95	sandy silt to clayey silt	UNDFND	UNDFD	16	3.1
34	45.06	1.16	2.58	1.99	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
35	52.47	1.66	3.17	2.02	sandy silt to clayey silt	UNDFND	UNDFD	20	4.0
36	108.47	3.93	3.62	2.04	sandy silt to clayey silt	UNDFND	UNDFD	42	8.5
37	133.23	5.54	4.16	2.07	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
38	113.11	4.20	3.71	2.10	sandy silt to clayey silt	UNDFND	UNDFD	43	8.8

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg	SPT N	Su tsf
39	90.84	4.62	5.08	2.13	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
40	55.83	3.11	5.57	2.16	clay	UNDFND	UNDFD	>50	4.2
41	82.36	3.62	4.39	2.19	clayey silt to silty clay	UNDFND	UNDFD	39	6.3
42	95.54	4.09	4.28	2.22	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
43	65.81	3.71	5.64	2.25	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
44	81.35	3.23	3.97	2.28	clayey silt to silty clay	UNDFND	UNDFD	39	6.3
45	106.56	4.36	4.09	2.31	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
46	198.66	4.57	2.30	2.34	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
47	108.21	1.70	1.57	2.36	sand to silty sand	50-60	32-34	26	UNDEFINED
48	106 04	0.72	0.68	2.39	sand	50-60	32-34	20	UNDEFINED
49	99.67	0.65	0.66	2.42	sand to silty sand	50-60	32-34	24	UNDEFINED
50	92.49	0.69	0.74	2.45	sand to silty sand	50-60	30-32	22	UNDEFINED
51	94 46	0.64	0.68	2.48	sand to silty sand	50-60	30-32	23	UNDEFINED
52	104 02	0.63	0.60	2.51	sand	50-60	32-34	20	UNDEFINED
53	115.93	0.81	0.70	2.53	sand	50-60	32-34	22	UNDEFINED
54	117.03	0.91	0.77	2.56	sand	50-60	32-34	22	UNDEFINED
55	109.10	0 86	0.79	2.59	sand to silty sand	50-60	32-34	26	UNDEFINED
56	97.71	0.77	0.78	2.62	sand to silty sand	50-60	30-32	23	UNDEFINED
57	110.93	0.85	0.76	2.65	sand to silty sand	50-60	32-34	27	UNDEFINED
58	113.26	0.89	0.79	2.68	sand to silty sand	50-60	32-34	27	UNDEFINED
59	116.50	0 86	0.74	2.70	sand	50-60	32-34	22	UNDEFINED
60	122.27	0.94	0.77	2.73	sand	50-60	32-34	23	UNDEFINED
1	133.66	1.21	0.91	2.76	sand	60-70	32-34	26	UNDEFINED
62	179.74	1.84	1.02	2.79	sand	60-70	34-36	34	UNDEFINED
63	188.96	1.78	0.94	2 82	sand	70-80	34-36	36	UNDEFINED
64	192 83	1.30	0.67	2 85	sand	70-80	34-36	37	UNDEFINED
65	163 49	0 94	0 57	2.88	sand	60-70	34-36	31	UNDEFINED
66	156 05	0.87	0.56	2 91	sand	60-70	34-36	30	UNDEFINED
67	152.51	0.88	0 58	2.94	sand	60-70	34-36	29	UNDEFINED
68	139.27	1.78	1.28	2.97	sand to silty sand	60-70	32-34	33	UNDEFINED
69	154.00	1.06	0 69	3.00	sand	60-70	32-34	30	UNDEFINED
70	165.32	1.23	0.74	3.03	sand	60-70	34-36	32	UNDEFINED
71	124.03	1.59	1.28	3.05	sand to silty sand	50-60	32-34	30	UNDEFINED
72	137.39	0.96	0.70	3.08	sand	50-60	32-34	26	UNDEFINED
73	132 84	0 74	0.56	3 11	sand	50-60	32-34	25	UNDEFINED
74	143 96	0.87	0.61	3 14	sand	60-70	32-34	28	UNDEFINED
75	155.06	1.03	0 66	3.17	sand	60-70	32-34	30	UNDEFINED
76	155.38	1.26	0 81	3.20	sand	60-70	32-34	30	UNDEFINED
77	221.88	2 10	0.95	3.22	sand	70-80	34-36	43	UNDEFINED
78	208.67	1.15	0.55	3.25	sand	70-80	34-36	40	UNDEFINED
79	221 88	1.33	0.60	3.28	sand	70-80	34-36	43	UNDEFINED
80	209 16	1.01	0.48	3.31	sand	70-80	34-36	40	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	190.74	0.81	0.42	3.34	sand	60-70	34-36	37	UNDEFINED
82	189.62	0.75	0.39	3.37	sand	60-70	34-36	36	UNDEFINED
83	223.91	1.20	0.53	3.39	sand	70-80	34-36	43	UNDEFINED
84	230.77	1.21	0.53	3.42	sand	70-80	34-36	44	UNDEFINED
85	279.09	1.72	0.61	3.46	sand	70-80	36-38	>50	UNDEFINED
86	254.69	1.34	0.53	3.48	sand	70-80	36-38	49	UNDEFINED
87	288.15	1.06	0.37	3.51	gravelly sand to sand	70-80	36-38	46	UNDEFINED
88	280.00	0.99	0.35	3.54	gravelly sand to sand	70-80	36-38	45	UNDEFINED
89	235.05	1.63	0.69	3.57	sand	70-80	34-36	45	UNDEFINED
90	208.70	0.49	0.23	3.60	gravelly sand to sand	60-70	34-36	33	UNDEFINED
91	203.04	1.04	0.51	3.63	sand	60-70	34-36	39	UNDEFINED
92	192.48	0.97	0.51	3.66	sand	60-70	34-36	37	UNDEFINED
93	156.13	0.53	0.34	3.69	sand	60-70	32-34	30	UNDEFINED
94	151.52	0.38	0.25	3.71	sand	50-60	32-34	29	UNDEFINED
95	171.08	1.25	0.73	3.74	sand	60-70	32-34	33	UNDEFINED
96	156.68	0.93	0.59	3.77	sand	60-70	32-34	30	UNDEFINED
97	137.11	0.36	0.26	3.80	sand	50-60	30-32	26	UNDEFINED
98	131.84	0.57	0.43	3.83	sand	50-60	30-32	25	UNDEFINED
99	152.04	0.58	0.38	3.86	sand	50-60	32-34	29	UNDEFINED
100	162.12	0.73	0.45	3.88	sand	60-70	32-34	31	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-4
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:07:97 07:34
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	21.32	0.25	1.16	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
2	58.39	0.54	0.92	0.09	sand to silty sand	80-90	46-48	14	UNDEFINED
3	131.21	2.13	1.62	0.15	sand to silty sand	>90	>48	31	UNDEFINED
4	65.86	1.38	2.09	0.22	silty sand to sandy silt	70-80	44-46	21	UNDEFINED
5	79.44	0.66	0.83	0.28	sand to silty sand	70-80	44-46	19	UNDEFINED
6	103.57	0.62	0.60	0.33	sand	80-90	44-46	20	UNDEFINED
7	142.62	0.76	0.53	0.39	sand	>90	44-46	27	UNDEFINED
8	142.24	0.61	0.43	0.45	sand	80-90	44-46	27	UNDEFINED
9	177.98	0.66	0.37	0.51	sand	>90	44-46	34	UNDEFINED
10	197.74	0.95	0.48	0.57	sand	>90	44-46	38	UNDEFINED
11	144.47	0.77	0.53	0.63	sand	80-90	42-44	28	UNDEFINED
12	172.64	0.82	0.47	0.69	sand	80-90	42-44	33	UNDEFINED
13	175.66	0.88	0.50	0.75	sand	80-90	42-44	34	UNDEFINED
14	145.75	0.69	0.47	0.81	sand	80-90	40-42	28	UNDEFINED
15	163.18	0.53	0.32	0.87	sand	80-90	40-42	31	UNDEFINED
16	123.83	0.54	0.44	0.93	sand	70-80	38-40	24	UNDEFINED
17	131.14	0.58	0.44	0.98	sand	70-80	38-40	25	UNDEFINED
18	135.16	0.57	0.42	1.04	sand	70-80	38-40	26	UNDEFINED
19	124.25	0.48	0.39	1.10	sand	70-80	38-40	24	UNDEFINED
20	158.32	0.63	0.39	1.16	sand	70-80	40-42	30	UNDEFINED
21	151.28	0.59	0.39	1.23	sand	70-80	38-40	29	UNDEFINED
22	138.11	0.52	0.38	1.29	sand	70-80	38-40	26	UNDEFINED
23	129.40	0.30	0.23	1.35	sand	60-70	36-38	25	UNDEFINED
24	127.02	0.33	0.26	1.41	sand	60-70	36-38	24	UNDEFINED
25	137.85	0.34	0.25	1.48	sand	70-80	36-38	26	UNDEFINED
26	122.93	0.54	0.44	1.54	sand	60-70	36-38	24	UNDEFINED
27	86.69	0.25	0.29	1.59	sand	50-60	34-36	17	UNDEFINED
28	75.82	0.17	0.23	1.65	sand to silty sand	50-60	32-34	18	UNDEFINED
29	87.67	0.22	0.25	1.71	sand	50-60	32-34	17	UNDEFINED
30	101.19	0.32	0.31	1.77	sand	50-60	34-36	19	UNDEFINED
31	115.04	0.46	0.40	1.83	sand	60-70	34-36	22	UNDEFINED
32	128.11	0.64	0.50	1.89	sand	60-70	34-36	25	UNDEFINED
33	129.63	0.56	0.43	1.95	sand	60-70	34-36	25	UNDEFINED
34	89.66	0.31	0.35	1.99	sand	50-60	32-34	17	UNDEFINED
35	104.73	0.30	0.29	2.02	sand	50-60	34-36	20	UNDEFINED
36	134.24	0.45	0.34	2.04	sand	60-70	34-36	26	UNDEFINED
37	146.82	0.54	0.37	2.07	sand	60-70	36-38	28	UNDEFINED
38	107.88	0.26	0.24	2.10	sand	50-60	32-34	21	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W4-4 Page No. 2

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	138.65	0.35	0.25	2.13	sand	60-70	34-36	27	UNDEFINED
40	162.73	0.49	0.30	2.16	sand	60-70	36-38	31	UNDEFINED
41	160.11	0.36	0.22	2.19	sand	60-70	36-38	31	UNDEFINED
42	169.74	0.85	0.50	2.22	sand	70-80	36-38	33	UNDEFINED
43	64 39	1.45	2.24	2.25	silty sand to sandy silt	40-50	<30	21	UNDEFINED
44	115 39	1.38	1.19	2.28	sand to silty sand	50-60	32-34	28	UNDEFINED
45	98 98	1.55	1.57	2.31	silty sand to sandy silt	50-60	32-34	32	UNDEFINED
46	72 44	1.16	1.60	2.34	silty sand to sandy silt	40-50	30-32	23	UNDEFINED
47	59.10	1.91	3.23	2.36	sandy silt to clayey silt	UNDFND	UNDFD	23	4.5
48	76.49	2.24	2.92	2.39	sandy silt to clayey silt	UNDFND	UNDFD	29	5.8
49	80.23	2 48	3.09	2.42	sandy silt to clayey silt	UNDFND	UNDFD	31	6 1
50	60 00	2.08	3.46	2.45	clayey silt to silty clay	UNDFND	UNDFD	29	4.5
51	103 46	2.59	2.51	2.48	silty sand to sandy silt	50-60	32-34	33	UNDEFINED
52	251.64	3.01	1.20	2.51	sand	70-80	38-40	48	UNDEFINED
53	245.10	5.21	2.13	2.53	sand to silty sand	70-80	38-40	>50	UNDEFINED
54	207.53	3.69	1.78	2.56	sand to silty sand	70-80	36-38	50	UNDEFINED
55	377.32	3.36	0 89	2.59	sand	>90	40-42	>50	UNDEFINED
56	193.59	7.18	3.71	2 62	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
57	311 45	5.89	1.89	2 65	sand to silty sand	80-90	38-40	>50	UNDEFINED
58	179 74	8.31	4.62	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	147.71	8.42	5.70	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	143 03	8.19	5.73	2.73	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
61	106 64	6.69	6.28	2.76	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
62	96.48	5.45	5.65	2.79	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
63	99.75	6 04	6 06	2.82	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
64	105.25	6.51	6.19	2 85	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
65	107.70	6.71	6 23	2 88	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
66	92.02	4.76	5 17	2.91	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
67	103 83	6.11	5 88	2.94	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
68	156 96	6 94	4.42	2 97	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-5
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:07:97 08:25
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	41.04	0.23	0.57	0.03	silty sand to sandy silt	>90	>48	13	UNDEFINED
2	57.92	0.28	0.49	0.09	sand to silty sand	80-90	46-48	14	UNDEFINED
3	39.55	0.38	0.95	0.15	silty sand to sandy silt	60-70	42-44	13	UNDEFINED
4	70.55	0.10	0.14	0.22	sand to silty sand	70-80	44-46	17	UNDEFINED
5	82.47	0.18	0.21	0.28	sand	70-80	44-46	16	UNDEFINED
6	98.70	0.24	0.24	0.33	sand	80-90	44-46	19	UNDEFINED
7	95.33	0.33	0.34	0.39	sand	70-80	42-44	18	UNDEFINED
8	109.64	0.29	0.26	0.45	sand	80-90	42-44	21	UNDEFINED
9	127.57	0.45	0.35	0.51	sand	80-90	42-44	24	UNDEFINED
10	154.07	0.61	0.39	0.57	sand	80-90	42-44	30	UNDEFINED
11	138.38	0.51	0.37	0.63	sand	80-90	42-44	27	UNDEFINED
12	112.18	0.38	0.34	0.69	sand	70-80	40-42	21	UNDEFINED
13	108.71	0.36	0.33	0.75	sand	70-80	40-42	21	UNDEFINED
14	120.08	0.45	0.37	0.81	sand	70-80	40-42	23	UNDEFINED
15	103.03	0.24	0.23	0.87	sand	60-70	38-40	20	UNDEFINED
16	151.54	0.42	0.28	0.93	sand	70-80	40-42	29	UNDEFINED
17	177.22	0.82	0.46	0.98	sand	80-90	40-42	34	UNDEFINED
18	159.43	0.49	0.31	1.04	sand	70-80	40-42	31	UNDEFINED
19	147.94	0.39	0.26	1.10	sand	70-80	38-40	28	UNDEFINED
20	184.84	0.70	0.38	1.16	sand	80-90	40-42	35	UNDEFINED
1	148.84	0.60	0.40	1.23	sand	70-80	38-40	29	UNDEFINED
22	159.23	0.43	0.27	1.29	sand	70-80	38-40	31	UNDEFINED
23	168.06	0.43	0.26	1.35	sand	70-80	38-40	32	UNDEFINED
24	159.94	0.42	0.26	1.41	sand	70-80	38-40	31	UNDEFINED
25	146.02	0.43	0.30	1.48	sand	70-80	38-40	28	UNDEFINED
26	153.51	0.58	0.38	1.54	sand	70-80	38-40	29	UNDEFINED
27	126.51	0.39	0.31	1.59	sand	60-70	36-38	24	UNDEFINED
28	130.66	0.31	0.24	1.65	sand	60-70	36-38	25	UNDEFINED
29	141.48	0.33	0.23	1.71	sand	60-70	36-38	27	UNDEFINED
30	144.45	0.42	0.29	1.77	sand	60-70	36-38	28	UNDEFINED
31	148.70	0.33	0.22	1.83	sand	60-70	36-38	28	UNDEFINED
32	144.96	0.25	0.17	1.89	sand	60-70	36-38	28	UNDEFINED
33	170.22	0.92	0.54	1.95	sand	70-80	36-38	33	UNDEFINED
34	267.03	1.11	0.42	1.99	gravelly sand to sand	80-90	38-40	43	UNDEFINED
35	182.21	0.83	0.46	2.02	sand	70-80	36-38	35	UNDEFINED
36	130.23	0.26	0.20	2.04	sand	60-70	34-36	25	UNDEFINED
37	183.18	1.08	0.59	2.07	sand	70-80	36-38	35	UNDEFINED
38	161.57	0.53	0.33	2.10	sand	60-70	36-38	31	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	137.74	0.51	0.37	2.13	sand	60-70	34-36	26	UNDEFINED
40	154.85	0.47	0.30	2.16	sand	60-70	36-38	30	UNDEFINED
41	134.88	0.35	0.26	2.19	sand	60-70	34-36	26	UNDEFINED
42	146.64	0.50	0.34	2.22	sand	60-70	34-36	28	UNDEFINED
43	195.96	0.36	0.18	2.25	sand	70-80	36-38	38	UNDEFINED
44	211.12	0.42	0.20	2.28	gravelly sand to sand	70-80	36-38	34	UNDEFINED
45	214.11	0.49	0.23	2.31	gravelly sand to sand	70-80	36-38	34	UNDEFINED
46	242 92	1.08	0.45	2.34	sand	70-80	38-40	47	UNDEFINED
47	208.97	2.02	0.97	2.36	sand	70-80	36-38	40	UNDEFINED
48	68.37	1.56	2.28	2 39	silty sand to sandy silt	40-50	<30	22	UNDEFINED
49	106 66	1.75	1.64	2 42	silty sand to sandy silt	50-60	32-34	34	UNDEFINED
50	213.80	3.38	1.58	2.45	sand to silty sand	70-80	36-38	>50	UNDEFINED
51	99 53	2.20	2.21	2.48	silty sand to sandy silt	50-60	32-34	32	UNDEFINED
52	93.34	1 60	1.72	2.51	silty sand to sandy silt	50-60	30-32	30	UNDEFINED
53	87.81	1.47	1.68	2.53	silty sand to sandy silt	40-50	30-32	28	UNDEFINED
54	82.90	1.98	2.38	2.56	silty sand to sandy silt	40-50	30-32	26	UNDEFINED
55	80.78	2 68	3.32	2 59	sandy silt to clayey silt	UNDFND	UNDFD	31	6.2
56	82.59	2.89	3.50	2.62	sandy silt to clayey silt	UNDFND	UNDFD	32	6.3
57	127.98	2 82	2.20	2.65	silty sand to sandy silt	50-60	32-34	41	UNDEFINED
58	80 19	2.59	3.22	2.68	sandy silt to clayey silt	UNDFND	UNDFD	31	6.1
59	78 77	2.36	2 99	2.70	sandy silt to clayey silt	UNDFND	UNDFD	30	6.0
60	66.44	2.03	3 06	2 73	sandy silt to clayey silt	UNDFND	UNDFD	25	5.0
1	84 85	2.03	2.40	2.76	silty sand to sandy silt	40-50	30-32	27	UNDEFINED
62	108.28	1.76	1.62	2.79	silty sand to sandy silt	50-60	32-34	35	UNDEFINED
63	62.28	2 00	3.21	2.82	sandy silt to clayey silt	UNDFND	UNDFD	24	4.6
64	73 77	2 61	3.54	2.85	sandy silt to clayey silt	UNDFND	UNDFD	28	5 5
65	75.52	2 68	3.55	2.88	sandy silt to clayey silt	UNDFND	UNDFD	29	5.7
66	84.73	3.05	3 59	2 91	sandy silt to clayey silt	UNDFND	UNDFD	32	6.4
67	133.95	4 12	3 08	2 94	sandy silt to clayey silt	UNDFND	UNDFD	>50	10.3
68	184 80	3 94	2.13	2 97	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-6
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:07:97 11:14
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	1.03	0.02	1.78	0.03	undefined	UNDFND	UNDFD	UDF	UNDEFINED
2	1.89	0.07	3.70	0.09	clay	UNDFND	UNDFD	2	.1
3	55.90	0.91	1.63	0.15	silty sand to sandy silt	70-80	44-46	18	UNDEFINED
4	63.91	0.47	0.74	0.22	sand to silty sand	70-80	44-46	15	UNDEFINED
5	74.98	0.42	0.56	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	104.19	0.67	0.64	0.33	sand	80-90	44-46	20	UNDEFINED
7	120.22	0.82	0.68	0.39	sand	80-90	44-46	23	UNDEFINED
8	184.74	1.28	0.69	0.45	sand	>90	44-46	35	UNDEFINED
9	170.04	1.06	0.62	0.51	sand	>90	44-46	33	UNDEFINED
10	207.17	1.24	0.60	0.57	sand	>90	44-46	40	UNDEFINED
11	156.85	0.82	0.52	0.63	sand	80-90	42-44	30	UNDEFINED
12	155.53	0.76	0.49	0.69	sand	80-90	42-44	30	UNDEFINED
13	184.70	0.91	0.50	0.75	sand	80-90	42-44	35	UNDEFINED
14	140.54	0.80	0.57	0.81	sand	70-80	40-42	27	UNDEFINED
15	140.06	0.73	0.52	0.87	sand	70-80	40-42	27	UNDEFINED
16	127.07	0.69	0.54	0.93	sand	70-80	40-42	24	UNDEFINED
17	136.43	0.73	0.53	0.98	sand	70-80	40-42	26	UNDEFINED
18	160.17	0.75	0.47	1.04	sand	70-80	40-42	31	UNDEFINED
19	123.31	0.71	0.58	1.10	sand	70-80	38-40	24	UNDEFINED
20	136.57	0.87	0.64	1.16	sand	70-80	38-40	26	UNDEFINED
21	133.63	0.64	0.48	1.23	sand	70-80	38-40	26	UNDEFINED
22	130.04	0.63	0.48	1.29	sand	70-80	38-40	25	UNDEFINED
23	122.17	0.47	0.38	1.35	sand	60-70	36-38	23	UNDEFINED
24	102.50	0.29	0.28	1.41	sand	60-70	36-38	20	UNDEFINED
25	99.25	0.35	0.35	1.48	sand	60-70	34-36	19	UNDEFINED
26	116.43	0.44	0.38	1.54	sand	60-70	36-38	22	UNDEFINED
27	99.64	0.34	0.34	1.59	sand	50-60	34-36	19	UNDEFINED
28	138.71	0.46	0.33	1.65	sand	60-70	36-38	27	UNDEFINED
29	128.96	0.49	0.38	1.71	sand	60-70	36-38	25	UNDEFINED
30	97.29	0.35	0.36	1.77	sand	50-60	34-36	19	UNDEFINED
31	87.86	0.34	0.39	1.83	sand	50-60	32-34	17	UNDEFINED
32	109.21	0.32	0.29	1.89	sand	60-70	34-36	21	UNDEFINED
33	119.73	0.38	0.31	1.95	sand	60-70	34-36	23	UNDEFINED
34	133.05	0.47	0.35	1.99	sand	60-70	34-36	25	UNDEFINED
35	125.51	0.57	0.45	2.02	sand	60-70	34-36	24	UNDEFINED
36	117.38	0.57	0.49	2.04	sand	60-70	34-36	22	UNDEFINED
37	83.13	0.37	0.44	2.07	sand to silty sand	50-60	32-34	20	UNDEFINED
38	100.82	0.34	0.33	2.10	sand	50-60	32-34	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg	SPT N	Su tsf
39	110 76	0.48	0.43	2.13	sand	50-60	34-36	21	UNDEFINED
40	91.32	0 39	0.42	2.16	sand	50-60	32-34	17	UNDEFINED
41	94.55	0.42	0.45	2.19	sand	50-60	32-34	18	UNDEFINED
42	129.12	0 81	0.63	2.22	sand	60-70	34-36	25	UNDEFINED
43	63.12	1.52	2.41	2 25	sandy silt to clayey silt	UNDFND	UNDFD	24	4.8
44	42 97	1 49	3.47	2.28	clayey silt to silty clay	UNDFND	UNDFD	21	3.2
45	44 11	1.91	4.32	2 31	silty clay to clay	UNDFND	UNDFD	28	3.3
46	51.62	1.79	3.47	2 34	clayey silt to silty clay	UNDFND	UNDFD	25	3.9
47	51.33	2.24	4.36	2.36	clayey silt to silty clay	UNDFND	UNDFD	25	3.8
48	83.32	2.77	3.33	2.39	sandy silt to clayey silt	UNDFND	UNDFD	32	6.4
49	86.14	4.43	5.14	2 42	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
50	103.59	4.53	4.38	2.45	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
51	175 05	5 22	2.98	2.48	silty sand to sandy silt	60-70	36-38	>50	UNDEFINED
52	197 66	4 09	2.07	2.51	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
53	250.24	2.02	0 81	2.53	sand	70-80	38-40	48	UNDEFINED
54	114 91	2.36	2.05	2 56	silty sand to sandy silt	50-60	32-34	37	UNDEFINED
55	67 81	2.06	3.03	2.59	sandy silt to clayey silt	UNDFND	UNDFD	26	5.1
56	69.30	3.45	4.99	2.62	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
57	78 93	4.86	6.16	2.65	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
58	72 65	4 83	6.65	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	84.09	5.57	6.63	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	80 05	5.07	6 33	2.73	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
[illegible]	96.66	7.20	7.45	2 76	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
62	125.99	7 59	6.02	2 79	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
63	138 52	4 22	3.05	2 82	sandy silt to clayey silt	UNDFND	UNDFD	>50	10.7
64	152.16	1.33	0.88	2.85	sand	60-70	34-36	29	UNDEFINED
65	128.87	0.94	0 73	2.88	sand	50-60	32-34	25	UNDEFINED
66	122.30	1 12	0 92	2.91	sand to silty sand	50-60	32-34	29	UNDEFINED
67	94 94	0 63	0.67	2 94	sand to silty sand	40-50	30-32	23	UNDEFINED
68	122 24	1 05	0 86	2 97	sand to silty sand	50-60	32-34	29	UNDEFINED
69	122.69	0 93	0.76	3.00	sand	50-60	32-34	24	UNDEFINED
70	146 56	1.11	0.76	3.03	sand	60-70	32-34	28	UNDEFINED
71	157.77	1.30	0 82	3.05	sand	60-70	34-36	30	UNDEFINED
72	146 28	1 06	0.73	3 08	sand	60-70	32-34	28	UNDEFINED
73	152 44	1 25	0 82	3.11	sand	60-70	32-34	29	UNDEFINED
74	138 49	1 06	0.77	3.14	sand	50-60	32-34	27	UNDEFINED
75	120 71	0.84	0.69	3.17	sand	50-60	30-32	23	UNDEFINED
76	128.69	0 99	0.77	3 20	sand	50-60	32-34	25	UNDEFINED
77	151 40	1 15	0.76	3 22	sand	60-70	32-34	29	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su. Nk= 12.5

(*) overconsolidated or cemented

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W4-6
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:07:97 11:14
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	1.03	0.02	1.78	0.03	undefined	UNDFND	UNDFD	UDF	UNDEFINED
2	1.89	0.07	3.70	0.09	clay	UNDFND	UNDFD	2	.1
3	55.90	0.91	1.63	0.15	silty sand to sandy silt	70-80	44-46	18	UNDEFINED
4	63.91	0.47	0.74	0.22	sand to silty sand	70-80	44-46	15	UNDEFINED
5	74.98	0.42	0.56	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	104.19	0.67	0.64	0.33	sand	80-90	44-46	20	UNDEFINED
7	120.22	0.82	0.68	0.39	sand	80-90	44-46	23	UNDEFINED
8	184.74	1.28	0.69	0.45	sand	>90	44-46	35	UNDEFINED
9	170.04	1.06	0.62	0.51	sand	>90	44-46	33	UNDEFINED
10	207.17	1.24	0.60	0.57	sand	>90	44-46	40	UNDEFINED
11	156.85	0.82	0.52	0.63	sand	80-90	42-44	30	UNDEFINED
12	155.53	0.76	0.49	0.69	sand	80-90	42-44	30	UNDEFINED
13	184.70	0.91	0.50	0.75	sand	80-90	42-44	35	UNDEFINED
14	140.54	0.80	0.57	0.81	sand	70-80	40-42	27	UNDEFINED
15	140.06	0.73	0.52	0.87	sand	70-80	40-42	27	UNDEFINED
16	127.07	0.69	0.54	0.93	sand	70-80	40-42	24	UNDEFINED
17	136.43	0.73	0.53	0.98	sand	70-80	40-42	26	UNDEFINED
18	160.17	0.75	0.47	1.04	sand	70-80	40-42	31	UNDEFINED
19	123.31	0.71	0.58	1.10	sand	70-80	38-40	24	UNDEFINED
20	136.57	0.87	0.64	1.16	sand	70-80	38-40	26	UNDEFINED
21	133.63	0.64	0.48	1.23	sand	70-80	38-40	26	UNDEFINED
22	130.04	0.63	0.48	1.29	sand	70-80	38-40	25	UNDEFINED
23	122.17	0.47	0.38	1.35	sand	60-70	36-38	23	UNDEFINED
24	102.50	0.29	0.28	1.41	sand	60-70	36-38	20	UNDEFINED
25	99.25	0.35	0.35	1.48	sand	60-70	34-36	19	UNDEFINED
26	116.43	0.44	0.38	1.54	sand	60-70	36-38	22	UNDEFINED
27	99.64	0.34	0.34	1.59	sand	50-60	34-36	19	UNDEFINED
28	138.71	0.46	0.33	1.65	sand	60-70	36-38	27	UNDEFINED
29	128.96	0.49	0.38	1.71	sand	60-70	36-38	25	UNDEFINED
30	97.29	0.35	0.36	1.77	sand	50-60	34-36	19	UNDEFINED
31	87.86	0.34	0.39	1.83	sand	50-60	32-34	17	UNDEFINED
32	109.21	0.32	0.29	1.89	sand	60-70	34-36	21	UNDEFINED
33	119.73	0.38	0.31	1.95	sand	60-70	34-36	23	UNDEFINED
34	133.05	0.47	0.35	1.99	sand	60-70	34-36	25	UNDEFINED
35	125.51	0.57	0.45	2.02	sand	60-70	34-36	24	UNDEFINED
36	117.38	0.57	0.49	2.04	sand	60-70	34-36	22	UNDEFINED
37	83.13	0.37	0.44	2.07	sand to silty sand	50-60	32-34	20	UNDEFINED
38	100.82	0.34	0.33	2.10	sand	50-60	32-34	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg	SPT N	Su tsf
39	110 76	0 48	0.43	2.13	sand	50-60	34-36	21	UNDEFINED
40	91.32	0.39	0.42	2.16	sand	50-60	32-34	17	UNDEFINED
41	94.55	0.42	0.45	2 19	sand	50-60	32-34	18	UNDEFINED
42	129 12	0.81	0.63	2.22	sand	60-70	34-36	25	UNDEFINED
43	63 12	1.52	2.41	2.25	sandy silt to clayey silt	UNDFND	UNDFD	24	4.8
44	42 97	1 49	3.47	2.28	clayey silt to silty clay	UNDFND	UNDFD	21	3.2
45	44.11	1.91	4.32	2.31	silty clay to clay	UNDFND	UNDFD	28	3.3
46	51 62	1 79	3.47	2 34	clayey silt to silty clay	UNDFND	UNDFD	25	3.9
47	51.33	2.24	4.36	2.36	clayey silt to silty clay	UNDFND	UNDFD	25	3.8
48	83.32	2.77	3.33	2.39	sandy silt to clayey silt	UNDFND	UNDFD	32	6.4
49	86.14	4.43	5.14	2.42	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
50	103 59	4.53	4.38	2.45	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
51	175.05	5.22	2.98	2.48	silty sand to sandy silt	60-70	36-38	>50	UNDEFINED
52	197 66	4.09	2.07	2.51	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
53	250 24	2.02	0.81	2.53	sand	70-80	38-40	48	UNDEFINED
54	114.91	2.36	2.05	2 56	silty sand to sandy silt	50-60	32-34	37	UNDEFINED
55	67 81	2.06	3 03	2.59	sandy silt to clayey silt	UNDFND	UNDFD	26	5.1
56	69.30	3.45	4.99	2.62	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
57	78.93	4.86	6 16	2.65	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
58	72.65	4 83	6.65	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	84.09	5.57	6.63	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	80.05	5 07	6.33	2.73	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
[illegible]	96.66	7 20	7.45	2.76	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
62	125.99	7 59	6.02	2.79	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
63	138 52	4 22	3.05	2 82	sandy silt to clayey silt	UNDFND	UNDFD	>50	10.7
64	152 16	1.33	0.88	2.85	sand	60-70	34-36	29	UNDEFINED
65	128 87	0 94	0 73	2 88	sand	50-60	32-34	25	UNDEFINED
66	122 30	1.12	0 92	2.91	sand to silty sand	50-60	32-34	29	UNDEFINED
67	94 94	0 63	0 67	2.94	sand to silty sand	40-50	30-32	23	UNDEFINED
68	122.24	1.05	0 86	2.97	sand to silty sand	50-60	32-34	29	UNDEFINED
69	122 69	0.93	0.76	3.00	sand	50-60	32-34	24	UNDEFINED
70	146.56	1.11	0 76	3.03	sand	60-70	32-34	28	UNDEFINED
71	157.77	1.30	0.82	3 05	sand	60-70	34-36	30	UNDEFINED
72	146.28	1 06	0.73	3 08	sand	60-70	32-34	28	UNDEFINED
73	152.44	1 25	0.82	3 11	sand	60-70	32-34	29	UNDEFINED
74	138 49	1 06	0.77	3 14	sand	50-60	32-34	27	UNDEFINED
75	120 71	0 84	0.69	3 17	sand	50-60	30-32	23	UNDEFINED
76	128 69	0 99	0 77	3.20	sand	50-60	32-34	25	UNDEFINED
77	151 40	1.15	0.76	3.22	sand	60-70	32-34	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su Nk= 12.5

(*) overconsolidated or cemented

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-7
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 08:35
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	22.92	0.04	0.18	0.03	silty sand to sandy silt	70-80	>48	7	UNDEFINED
2	47.55	0.13	0.27	0.09	sand to silty sand	80-90	46-48	11	UNDEFINED
3	63.27	0.49	0.77	0.15	sand to silty sand	80-90	44-46	15	UNDEFINED
4	142.09	0.78	0.55	0.22	sand	>90	46-48	27	UNDEFINED
5	61.37	0.24	0.39	0.28	sand to silty sand	70-80	42-44	15	UNDEFINED
6	29.72	0.04	0.13	0.33	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
7	16.84	0.01	0.06	0.39	silty sand to sandy silt	<40	32-34	5	UNDEFINED
8	17.81	0.00	0.01	0.45	silty sand to sandy silt	<40	32-34	6	UNDEFINED
9	23.51	0.06	0.24	0.51	silty sand to sandy silt	<40	32-34	8	UNDEFINED
10	18.22	0.05	0.25	0.57	silty sand to sandy silt	<40	30-32	6	UNDEFINED
11	17.86	0.06	0.33	0.63	silty sand to sandy silt	<40	<30	6	UNDEFINED
12	40.41	0.11	0.28	0.69	sand to silty sand	40-50	34-36	10	UNDEFINED
13	67.61	0.25	0.37	0.75	sand to silty sand	50-60	36-38	16	UNDEFINED
14	48.06	0.13	0.27	0.81	sand to silty sand	40-50	34-36	12	UNDEFINED
15	27.87	0.04	0.13	0.87	silty sand to sandy silt	<40	30-32	9	UNDEFINED
16	27.68	0.10	0.36	0.93	silty sand to sandy silt	<40	30-32	9	UNDEFINED
17	28.90	0.28	0.99	0.98	silty sand to sandy silt	<40	30-32	9	UNDEFINED
18	25.89	0.11	0.42	1.04	silty sand to sandy silt	<40	<30	8	UNDEFINED
19	24.17	0.01	0.06	1.10	silty sand to sandy silt	<40	<30	8	UNDEFINED
20	23.54	0.10	0.41	1.16	silty sand to sandy silt	<40	<30	8	UNDEFINED
21	27.45	0.12	0.43	1.23	silty sand to sandy silt	<40	<30	9	UNDEFINED
22	29.63	0.02	0.06	1.29	silty sand to sandy silt	<40	<30	9	UNDEFINED
23	33.46	0.05	0.14	1.35	silty sand to sandy silt	<40	<30	11	UNDEFINED
24	77.07	0.22	0.29	1.41	sand to silty sand	50-60	34-36	18	UNDEFINED
25	124.21	0.37	0.30	1.48	sand	60-70	36-38	24	UNDEFINED
26	147.99	0.40	0.27	1.54	sand	70-80	36-38	28	UNDEFINED
27	140.22	0.41	0.29	1.59	sand	60-70	36-38	27	UNDEFINED
28	134.57	0.44	0.33	1.65	sand	60-70	36-38	26	UNDEFINED
29	139.00	0.38	0.27	1.71	sand	60-70	36-38	27	UNDEFINED
30	175.13	0.41	0.24	1.77	sand	70-80	38-40	34	UNDEFINED
31	168.48	0.44	0.26	1.83	sand	70-80	36-38	32	UNDEFINED
32	107.37	0.24	0.23	1.89	sand	50-60	34-36	21	UNDEFINED
33	67.68	0.14	0.21	1.95	sand to silty sand	40-50	30-32	16	UNDEFINED
34	100.11	0.25	0.25	1.99	sand	50-60	32-34	19	UNDEFINED
35	103.81	0.38	0.37	2.02	sand	50-60	32-34	20	UNDEFINED
36	118.63	0.49	0.42	2.04	sand	60-70	34-36	23	UNDEFINED
37	83.11	0.35	0.42	2.07	sand to silty sand	50-60	32-34	20	UNDEFINED
38	89.12	0.26	0.29	2.10	sand	50-60	32-34	17	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W4-7 Page No. 2

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	86.04	0.35	0.41	2.13	sand to silty sand	50-60	32-34	21	UNDEFINED
40	87.89	0.38	0.43	2.16	sand to silty sand	50-60	32-34	21	UNDEFINED
41	99.61	0.41	0.41	2.19	sand	50-60	32-34	19	UNDEFINED
42	107.96	0.99	0.92	2.22	sand to silty sand	50-60	32-34	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su Nk= 12.5

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-7A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 09:08
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	24.21	0.10	0.41	0.03	silty sand to sandy silt	70-80	>48	8	UNDEFINED
2	51.54	0.21	0.40	0.09	sand to silty sand	80-90	46-48	12	UNDEFINED
3	57.99	0.40	0.68	0.15	sand to silty sand	70-80	44-46	14	UNDEFINED
4	154.72	0.81	0.52	0.22	sand	>90	>48	30	UNDEFINED
5	114.20	0.47	0.41	0.28	sand	80-90	44-46	22	UNDEFINED
6	104.27	0.41	0.39	0.33	sand	80-90	44-46	20	UNDEFINED
7	75.74	0.26	0.34	0.39	sand to silty sand	70-80	40-42	18	UNDEFINED
8	49.40	0.14	0.29	0.45	sand to silty sand	50-60	38-40	12	UNDEFINED
9	34.94	0.07	0.21	0.51	sand to silty sand	40-50	34-36	8	UNDEFINED
10	21.45	0.04	0.18	0.57	silty sand to sandy silt	<40	30-32	7	UNDEFINED
11	15.80	0.12	0.76	0.63	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
12	18.40	0.05	0.24	0.69	silty sand to sandy silt	<40	<30	6	UNDEFINED
13	27.33	0.37	1.35	0.75	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
14	31.52	0.07	0.21	0.81	silty sand to sandy silt	<40	32-34	10	UNDEFINED
15	31.85	0.05	0.17	0.87	silty sand to sandy silt	<40	30-32	10	UNDEFINED
16	32.34	0.07	0.23	0.93	silty sand to sandy silt	<40	30-32	10	UNDEFINED
17	32.95	0.11	0.34	0.98	silty sand to sandy silt	<40	30-32	11	UNDEFINED
18	27.94	0.05	0.19	1.04	silty sand to sandy silt	<40	<30	9	UNDEFINED
19	24.88	0.06	0.22	1.10	silty sand to sandy silt	<40	<30	8	UNDEFINED
20	33.41	0.28	0.85	1.16	silty sand to sandy silt	<40	<30	11	UNDEFINED
1	27.87	0.10	0.37	1.23	silty sand to sandy silt	<40	<30	9	UNDEFINED
2	41.21	0.46	1.12	1.29	silty sand to sandy silt	<40	30-32	13	UNDEFINED
23	28.58	0.11	0.40	1.35	silty sand to sandy silt	<40	<30	9	UNDEFINED
24	24.50	0.04	0.16	1.41	silty sand to sandy silt	<40	<30	8	UNDEFINED
25	60.59	0.14	0.23	1.48	sand to silty sand	40-50	32-34	15	UNDEFINED
26	103.76	0.23	0.22	1.54	sand	60-70	34-36	20	UNDEFINED
27	116.40	0.32	0.27	1.59	sand	60-70	36-38	22	UNDEFINED
28	145.80	0.35	0.24	1.65	sand	70-80	36-38	28	UNDEFINED
29	132.89	0.35	0.26	1.71	sand	60-70	36-38	25	UNDEFINED
30	147.17	0.45	0.31	1.77	sand	60-70	36-38	28	UNDEFINED
31	108.67	0.29	0.26	1.83	sand	60-70	34-36	21	UNDEFINED
32	98.48	0.26	0.27	1.89	sand	50-60	34-36	19	UNDEFINED
33	121.79	0.40	0.33	1.95	sand	60-70	34-36	23	UNDEFINED
34	149.44	0.61	0.41	1.99	sand	60-70	36-38	29	UNDEFINED
35	169.18	1.05	0.62	2.02	sand	70-80	36-38	32	UNDEFINED
36	125.54	0.45	0.36	2.04	sand	60-70	34-36	24	UNDEFINED
37	92.45	0.40	0.43	2.07	sand	50-60	32-34	18	UNDEFINED
38	89.20	0.33	0.37	2.10	sand	50-60	32-34	17	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W4-7A

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg	SPT N	Su tsf
39	90.78	0.38	0.42	2.13	sand	50-60	32-34	17	UNDEFINED
40	144.48	0.99	0.69	2.16	sand	60-70	34-36	28	UNDEFINED
41	190.53	0 82	0.43	2 19	sand	70-80	36-38	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su. Nk= 12.5

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-8
Site : 115
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:07:97 13:34
Geologist : 20 TON A AD062
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	15.75	0.28	1.80	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
2	28.02	0.88	3.15	0.09	clayey silt to silty clay	UNDFND	UNDFD	13	2.2
3	39.56	1.11	2.80	0.15	sandy silt to clayey silt	UNDFND	UNDFD	15	3.1
4	19.73	0.52	2.65	0.22	clayey silt to silty clay	UNDFND	UNDFD	9	1.5
5	83.66	0.29	0.34	0.28	sand to silty sand	80-90	44-46	20	UNDEFINED
6	63.91	0.95	1.48	0.33	silty sand to sandy silt	60-70	40-42	20	UNDEFINED
7	126.72	0.28	0.22	0.39	sand	80-90	44-46	24	UNDEFINED
8	179.27	0.72	0.40	0.45	sand	>90	44-46	34	UNDEFINED
9	185.29	0.84	0.45	0.51	sand	>90	44-46	35	UNDEFINED
10	226.79	1.08	0.48	0.57	sand	>90	44-46	43	UNDEFINED
11	201.01	1.01	0.50	0.63	sand	>90	44-46	39	UNDEFINED
12	200.44	0.85	0.42	0.69	sand	>90	44-46	38	UNDEFINED
13	207.88	0.95	0.46	0.75	sand	>90	42-44	40	UNDEFINED
14	188.83	0.91	0.48	0.81	sand	80-90	42-44	36	UNDEFINED
15	184.60	0.87	0.47	0.87	sand	80-90	42-44	35	UNDEFINED
16	263.49	1.11	0.42	0.93	gravelly sand to sand	>90	44-46	42	UNDEFINED
17	206.81	0.93	0.45	0.98	sand	80-90	42-44	40	UNDEFINED
18	223.68	1.12	0.50	1.04	sand	80-90	42-44	43	UNDEFINED
19	214.05	1.41	0.66	1.10	sand	80-90	42-44	41	UNDEFINED
20	174.59	1.05	0.60	1.16	sand	80-90	40-42	33	UNDEFINED
1	178.85	1.11	0.62	1.23	sand	80-90	40-42	34	UNDEFINED
22	216.05	1.20	0.55	1.29	sand	80-90	40-42	41	UNDEFINED
23	215.99	0.99	0.46	1.35	sand	80-90	40-42	41	UNDEFINED
24	170.79	0.76	0.45	1.41	sand	70-80	38-40	33	UNDEFINED
25	138.86	0.61	0.44	1.48	sand	70-80	36-38	27	UNDEFINED
26	127.45	0.48	0.38	1.54	sand	60-70	36-38	24	UNDEFINED
27	138.98	0.52	0.37	1.59	sand	60-70	36-38	27	UNDEFINED
28	132.90	0.54	0.41	1.65	sand	60-70	36-38	25	UNDEFINED
29	173.79	0.59	0.34	1.71	sand	70-80	38-40	33	UNDEFINED
30	141.22	0.36	0.26	1.77	sand	60-70	36-38	27	UNDEFINED
31	139.38	0.54	0.39	1.83	sand	60-70	36-38	27	UNDEFINED
32	215.82	0.93	0.43	1.89	sand	70-80	38-40	41	UNDEFINED
33	226.21	0.88	0.39	1.95	sand	80-90	38-40	43	UNDEFINED
34	161.15	0.54	0.34	1.99	sand	70-80	36-38	31	UNDEFINED
35	116.62	0.39	0.34	2.02	sand	60-70	34-36	22	UNDEFINED
36	138.20	0.59	0.42	2.04	sand	60-70	34-36	26	UNDEFINED
37	230.12	1.63	0.71	2.07	sand	80-90	38-40	44	UNDEFINED
38	635.36	6.57	1.03	2.10	gravelly sand to sand	>90	44-46	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W4-8 Page No. 2

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	388.44	2.31	0.59	2.13	gravelly sand to sand	>90	40-42	>50	UNDEFINED
40	178 66	0.81	0.45	2 16	sand	70-80	36-38	34	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su, Nk= 12.5

**** Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3 02) ****

MKC

Contractor : GREGG
Location : W4-8A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 07:38
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	22.95	1.14	4.98	0.03	clay	UNDFND	UNDFD	22	1.8
2	34.18	1.38	4.05	0.09	clayey silt to silty clay	UNDFND	UNDFD	16	2.7
3	17.82	0.71	4.00	0.15	silty clay to clay	UNDFND	UNDFD	11	1.4
4	78.11	0.59	0.76	0.22	sand to silty sand	80-90	44-46	19	UNDEFINED
5	58.59	0.47	0.80	0.28	sand to silty sand	60-70	42-44	14	UNDEFINED
6	75.14	0.68	0.91	0.33	sand to silty sand	70-80	42-44	18	UNDEFINED
7	180.92	1.07	0.59	0.39	sand	>90	46-48	35	UNDEFINED
8	191.80	1.40	0.73	0.45	sand	>90	44-46	37	UNDEFINED
9	228.77	1.42	0.62	0.51	sand	>90	46-48	44	UNDEFINED
10	210.43	1.21	0.58	0.57	sand	>90	44-46	40	UNDEFINED
11	202.56	1.17	0.58	0.63	sand	>90	44-46	39	UNDEFINED
12	205.43	1.26	0.61	0.69	sand	>90	44-46	39	UNDEFINED
13	189.90	1.13	0.59	0.75	sand	80-90	42-44	36	UNDEFINED
14	179.86	0.95	0.53	0.81	sand	80-90	42-44	34	UNDEFINED
15	270.44	1.35	0.50	0.87	gravelly sand to sand	>90	44-46	43	UNDEFINED
16	245.90	1.23	0.50	0.93	sand	>90	42-44	47	UNDEFINED
17	212.95	1.02	0.48	0.98	sand	80-90	42-44	41	UNDEFINED
18	202.59	1.01	0.50	1.04	sand	80-90	42-44	39	UNDEFINED
19	170.35	1.06	0.62	1.10	sand	80-90	40-42	33	UNDEFINED
20	160.55	0.99	0.61	1.16	sand	70-80	40-42	31	UNDEFINED
21	173.77	1.02	0.58	1.23	sand	70-80	40-42	33	UNDEFINED
22	157.79	0.64	0.41	1.29	sand	70-80	38-40	30	UNDEFINED
23	127.78	0.52	0.41	1.35	sand	60-70	36-38	24	UNDEFINED
24	125.90	0.61	0.49	1.41	sand	60-70	36-38	24	UNDEFINED
25	113.26	0.46	0.41	1.48	sand	60-70	36-38	22	UNDEFINED
26	115.94	0.50	0.43	1.54	sand	60-70	36-38	22	UNDEFINED
27	99.98	0.41	0.41	1.59	sand	50-60	34-36	19	UNDEFINED
28	124.73	0.36	0.29	1.65	sand	60-70	36-38	24	UNDEFINED
29	114.15	0.35	0.31	1.71	sand	60-70	34-36	22	UNDEFINED
30	121.83	0.48	0.39	1.77	sand	60-70	34-36	23	UNDEFINED
31	181.81	0.69	0.38	1.83	sand	70-80	38-40	35	UNDEFINED
32	139.50	0.45	0.32	1.89	sand	60-70	36-38	27	UNDEFINED
33	114.73	0.45	0.39	1.95	sand	60-70	34-36	22	UNDEFINED
34	98.29	0.38	0.38	1.99	sand	50-60	32-34	19	UNDEFINED
35	112.30	0.59	0.53	2.02	sand	50-60	34-36	22	UNDEFINED
36	167.54	1.72	1.02	2.04	sand	70-80	36-38	32	UNDEFINED
37	196.87	1.72	0.88	2.07	sand	70-80	36-38	38	UNDEFINED
38	150.72	0.71	0.47	2.10	sand	60-70	36-38	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W4-8A

DTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	120.58	0.55	0.45	2.13	sand	60-70	34-36	23	UNDEFINED
40	146.64	0.62	0.42	2.16	sand	60-70	34-36	28	UNDEFINED
41	121.12	0.64	0.53	2.19	sand	60-70	34-36	23	UNDEFINED
42	146.39	0.71	0.49	2.22	sand	60-70	34-36	28	UNDEFINED
43	196.77	0.91	0.46	2.25	sand	70-80	36-38	38	UNDEFINED
44	179.36	0.68	0.38	2.28	sand	70-80	36-38	34	UNDEFINED
45	211.98	0.70	0.33	2.31	sand	70-80	36-38	41	UNDEFINED
46	142.21	1.58	1.11	2.34	sand to silty sand	60-70	34-36	34	UNDEFINED
47	71.35	0 84	1.18	2.36	sand to silty sand	40-50	30-32	17	UNDEFINED
48	58.15	0.73	1.25	2.39	silty sand to sandy silt	<40	<30	19	UNDEFINED
49	71.31	0.85	1.19	2.42	sand to silty sand	40-50	30-32	17	UNDEFINED
50	72.34	1.09	1 50	2 45	silty sand to sandy silt	40-50	30-32	23	UNDEFINED
51	52.56	1.75	3.33	2.48	sandy silt to clayey silt	UNDFND	UNDFD	20	3.9
52	90.87	2.79	3.07	2.51	sandy silt to clayey silt	UNDFND	UNDFD	35	7.0
53	82 48	2.90	3.52	2.53	sandy silt to clayey silt	UNDFND	UNDFD	32	6.3
54	111 34	4.06	3.64	2.56	sandy silt to clayey silt	UNDFND	UNDFD	43	8.6
55	165.25	3.76	2.27	2.59	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note. For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

MKC

Contractor : GREGG
Location : W4-9
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:07:97 12:11
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	43.03	0.38	0.88	0.03	silty sand to sandy silt	>90	>48	14	UNDEFINED
2	72.74	0.36	0.50	0.09	sand to silty sand	>90	>48	17	UNDEFINED
3	42.52	1.16	2.73	0.15	sandy silt to clayey silt	UNDFND	UNDFD	16	3.3
4	53.93	0.55	1.03	0.22	silty sand to sandy silt	70-80	42-44	17	UNDEFINED
5	94.08	0.30	0.32	0.28	sand	80-90	44-46	18	UNDEFINED
6	72.86	0.22	0.30	0.33	sand to silty sand	70-80	42-44	17	UNDEFINED
7	63.03	0.23	0.37	0.39	sand to silty sand	60-70	40-42	15	UNDEFINED
8	136.14	0.56	0.41	0.45	sand	80-90	44-46	26	UNDEFINED
9	171.62	0.70	0.40	0.51	sand	>90	44-46	33	UNDEFINED
10	167.25	0.61	0.36	0.57	sand	80-90	44-46	32	UNDEFINED
11	135.96	0.56	0.41	0.63	sand	80-90	42-44	26	UNDEFINED
12	166.47	0.63	0.38	0.69	sand	80-90	42-44	32	UNDEFINED
13	163.49	0.69	0.42	0.75	sand	80-90	42-44	31	UNDEFINED
14	165.70	0.72	0.43	0.81	sand	80-90	42-44	32	UNDEFINED
15	218.35	0.89	0.41	0.87	sand	>90	42-44	42	UNDEFINED
16	194.09	0.90	0.46	0.93	sand	80-90	42-44	37	UNDEFINED
17	166.82	0.77	0.46	0.98	sand	80-90	40-42	32	UNDEFINED
18	161.42	0.59	0.37	1.04	sand	70-80	40-42	31	UNDEFINED
19	161.71	0.71	0.44	1.10	sand	70-80	40-42	31	UNDEFINED
20	162.70	0.80	0.49	1.16	sand	70-80	40-42	31	UNDEFINED
21	164.03	0.83	0.51	1.23	sand	70-80	38-40	31	UNDEFINED
22	145.10	0.72	0.50	1.29	sand	70-80	38-40	28	UNDEFINED
23	96.63	0.35	0.36	1.35	sand	60-70	36-38	19	UNDEFINED
24	102.60	0.39	0.38	1.41	sand	60-70	36-38	20	UNDEFINED
25	142.12	0.56	0.39	1.48	sand	70-80	36-38	27	UNDEFINED
26	134.92	0.48	0.36	1.54	sand	60-70	36-38	26	UNDEFINED
27	112.75	0.43	0.38	1.59	sand	60-70	36-38	22	UNDEFINED
28	111.06	0.37	0.33	1.65	sand	60-70	34-36	21	UNDEFINED
29	100.57	0.31	0.31	1.71	sand	50-60	34-36	19	UNDEFINED
30	105.63	0.39	0.37	1.77	sand	60-70	34-36	20	UNDEFINED
31	136.00	0.78	0.57	1.83	sand	60-70	36-38	26	UNDEFINED
32	111.27	0.42	0.38	1.89	sand	60-70	34-36	21	UNDEFINED
33	110.57	0.42	0.38	1.95	sand	50-60	34-36	21	UNDEFINED
34	117.24	0.29	0.25	1.99	sand	60-70	34-36	22	UNDEFINED
35	90.84	0.31	0.34	2.02	sand	50-60	32-34	17	UNDEFINED
36	98.17	0.36	0.36	2.04	sand	50-60	32-34	19	UNDEFINED
37	92.14	0.25	0.27	2.07	sand	50-60	32-34	18	UNDEFINED
38	92.90	0.26	0.28	2.10	sand	50-60	32-34	18	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg	SPT N	Su tsf
39	80 07	0.45	0.56	2.13	sand to silty sand	40-50	30-32	19	UNDEFINED
40	74.49	0.28	0.38	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	80.06	0.27	0.34	2.19	sand to silty sand	40-50	30-32	19	UNDEFINED
42	179.02	1.44	0.80	2.22	sand	70-80	36-38	34	UNDEFINED
43	156.86	1.80	1.15	2.25	sand to silty sand	60-70	34-36	38	UNDEFINED
44	71 94	2.22	3.09	2.28	sandy silt to clayey silt	UNDFND	UNDFD	28	5.5
45	69.86	3.51	5.02	2.31	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
46	146.97	3.16	2.15	2.34	silty sand to sandy silt	60-70	34-36	47	UNDEFINED
47	236.47	3.02	1.28	2.36	sand	70-80	38-40	45	UNDEFINED
48	151 36	5.42	3.58	2 39	sandy silt to clayey silt	UNDFND	UNDFD	>50	11.8
49	95.04	5.82	6.12	2.42	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
50	100.38	4.49	4 47	2.45	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
51	107 08	4.10	3.83	2.48	clayey silt to silty clay	UNDFND	UNDFD	>50	8.3
52	108.72	4.59	4.22	2.51	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
53	97.57	4.99	5.11	2 53	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
54	67.83	2.66	3.93	2.56	clayey silt to silty clay	UNDFND	UNDFD	32	5.1
55	125.27	6.60	5.27	2.59	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
56	70 01	4.43	6.33	2 62	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
57	64.82	2.95	4.55	2.65	silty clay to clay	UNDFND	UNDFD	41	4.9
58	95 77	5 01	5.24	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	85 72	5 59	6.52	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	114 17	4 70	4 12	2.73	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
1	104 07	1 51	1.45	2.76	sand to silty sand	50-60	30-32	25	UNDEFINED
2	84 84	0.66	0.77	2.79	sand to silty sand	40-50	30-32	20	UNDEFINED
63	101.53	0 87	0.86	2 82	sand to silty sand	50-60	30-32	24	UNDEFINED
64	90.06	0.64	0.71	2.85	sand to silty sand	40-50	30-32	22	UNDEFINED
65	84.75	0 66	0.78	2.88	sand to silty sand	40-50	30-32	20	UNDEFINED
66	105.94	0 88	0.83	2 91	sand to silty sand	50-60	30-32	25	UNDEFINED
67	97.76	0 73	0.75	2 94	sand to silty sand	50-60	30-32	23	UNDEFINED
68	99.89	0 72	0.72	2.97	sand to silty sand	50-60	30-32	24	UNDEFINED
69	94.45	0 72	0.76	3 00	sand to silty sand	40-50	30-32	23	UNDEFINED
70	93.38	0.79	0.84	3.03	sand to silty sand	40-50	30-32	22	UNDEFINED
71	85.39	0 70	0.82	3 05	sand to silty sand	40-50	<30	20	UNDEFINED
72	71.18	0 40	0.56	3 08	sand to silty sand	40-50	<30	17	UNDEFINED
73	62 53	0 42	0.67	3 11	sand to silty sand	<40	<30	15	UNDEFINED
74	61 14	0 43	0.70	3.14	sand to silty sand	<40	<30	15	UNDEFINED
75	45 31	0 30	0 65	3 17	sand to silty sand	<40	<30	11	UNDEFINED
76	40 60	0 22	0.53	3.20	silty sand to sandy silt	<40	<30	13	UNDEFINED
77	45 36	0.21	0.46	3.22	sand to silty sand	<40	<30	11	UNDEFINED
78	52 43	0.33	0 64	3.25	sand to silty sand	<40	<30	13	UNDEFINED
79	67 97	0.48	0 70	3 28	sand to silty sand	<40	<30	16	UNDEFINED
80	72.54	0.55	0.76	3.31	sand to silty sand	40-50	<30	17	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) [illegible] or cemented

Note For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	62.43	0.40	0.64	3.34	sand to silty sand	<40	<30	15	UNDEFINED
82	68.51	0.75	1.10	3.37	sand to silty sand	<40	<30	16	UNDEFINED
83	74.89	0.90	1.20	3.39	sand to silty sand	40-50	<30	18	UNDEFINED
84	66.52	0.46	0.69	3.42	sand to silty sand	<40	<30	16	UNDEFINED
85	72.51	0.54	0.75	3.46	sand to silty sand	<40	<30	17	UNDEFINED
86	123.26	0.67	0.54	3.48	sand	50-60	30-32	24	UNDEFINED
87	80.80	0.57	0.71	3.51	sand to silty sand	40-50	<30	19	UNDEFINED
88	93.65	0.54	0.57	3.54	sand to silty sand	40-50	<30	22	UNDEFINED
89	90.13	0.34	0.38	3.57	sand	40-50	<30	17	UNDEFINED
90	92.89	0.52	0.56	3.60	sand to silty sand	40-50	<30	22	UNDEFINED
91	90.44	0.55	0.61	3.63	sand to silty sand	40-50	<30	22	UNDEFINED
92	86.25	0.41	0.48	3.66	sand to silty sand	40-50	<30	21	UNDEFINED
93	84.29	0.51	0.60	3.69	sand to silty sand	40-50	<30	20	UNDEFINED
94	79.59	0.44	0.55	3.71	sand to silty sand	40-50	<30	19	UNDEFINED
95	75.48	0.34	0.45	3.74	sand to silty sand	<40	<30	18	UNDEFINED
96	89.76	0.45	0.50	3.77	sand to silty sand	40-50	<30	21	UNDEFINED
97	94.61	0.57	0.60	3.80	sand to silty sand	40-50	<30	23	UNDEFINED
98	95.63	0.66	0.69	3.83	sand to silty sand	40-50	<30	23	UNDEFINED
99	95.10	0.70	0.73	3.86	sand to silty sand	40-50	<30	23	UNDEFINED
100	129.28	0.92	0.71	3.88	sand	50-60	30-32	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-10
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 09:31
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	43.76	0.82	1.87	0.03	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
2	153.96	1.14	0.74	0.09	sand	>90	>48	29	UNDEFINED
3	190.27	1.68	0.88	0.15	sand	>90	>48	36	UNDEFINED
4	209.49	2.31	1.11	0.22	sand	>90	>48	40	UNDEFINED
5	102.67	1.97	1.92	0.28	silty sand to sandy silt	80-90	44-46	33	UNDEFINED
6	63.17	1.64	2.60	0.33	sandy silt to clayey silt	UNDFND	UNDFD	24	5.0
7	31.67	0.62	1.95	0.39	sandy silt to clayey silt	UNDFND	UNDFD	12	2.5
8	9.94	0.11	1.12	0.45	clayey silt to silty clay	UNDFND	UNDFD	5	.7
9	10.70	0.11	1.04	0.51	sandy silt to clayey silt	UNDFND	UNDFD	4	.8
10	16.67	0.15	0.91	0.57	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
11	19.61	0.34	1.72	0.63	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
12	50.16	0.80	1.58	0.69	silty sand to sandy silt	50-60	36-38	16	UNDEFINED
13	67.22	1.03	1.53	0.75	silty sand to sandy silt	50-60	36-38	21	UNDEFINED
14	51.40	0.51	0.99	0.81	silty sand to sandy silt	50-60	34-36	16	UNDEFINED
15	75.39	0.59	0.78	0.87	sand to silty sand	60-70	36-38	18	UNDEFINED
16	124.89	2.27	1.82	0.93	silty sand to sandy silt	70-80	38-40	40	UNDEFINED
17	58.44	0.49	0.83	0.98	sand to silty sand	50-60	34-36	14	UNDEFINED
18	82.19	0.32	0.40	1.04	sand to silty sand	60-70	36-38	20	UNDEFINED
19	90.44	0.32	0.35	1.10	sand	60-70	36-38	17	UNDEFINED
20	93.62	0.34	0.37	1.16	sand	60-70	36-38	18	UNDEFINED
21	85.82	0.32	0.38	1.23	sand to silty sand	50-60	36-38	21	UNDEFINED
22	89.80	0.30	0.33	1.29	sand	50-60	34-36	17	UNDEFINED
23	124.80	0.59	0.47	1.35	sand	60-70	36-38	24	UNDEFINED
24	121.84	0.67	0.55	1.41	sand	60-70	36-38	23	UNDEFINED
25	143.15	0.75	0.52	1.48	sand	70-80	38-40	27	UNDEFINED
26	147.04	1.05	0.71	1.54	sand	70-80	36-38	28	UNDEFINED
27	113.49	0.77	0.68	1.59	sand	60-70	36-38	22	UNDEFINED
28	197.84	1.59	0.80	1.65	sand	70-80	38-40	38	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-10A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 09:51
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	51.33	0.81	1.57	0.03	silty sand to sandy silt	>90	>48	16	UNDEFINED
2	174.68	3.79	2.17	0.09	silty sand to sandy silt	>90	>48	>50	UNDEFINED
3	163.52	1.55	0.95	0.15	sand	>90	>48	31	UNDEFINED
4	122.68	2.53	2.06	0.22	silty sand to sandy silt	>90	46-48	39	UNDEFINED
5	90.30	0.93	1.03	0.28	sand to silty sand	80-90	44-46	22	UNDEFINED
6	44.90	0.47	1.04	0.33	silty sand to sandy silt	50-60	38-40	14	UNDEFINED
7	36.84	0.21	0.56	0.39	silty sand to sandy silt	50-60	36-38	12	UNDEFINED
8	31.00	0.30	0.98	0.45	silty sand to sandy silt	40-50	34-36	10	UNDEFINED
9	24.17	0.33	1.38	0.51	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
10	22.08	0.23	1.03	0.57	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
11	86.07	0.94	1.10	0.63	sand to silty sand	60-70	40-42	21	UNDEFINED
12	36.97	0.90	2.43	0.69	sandy silt to clayey silt	UNDFND	UNDFD	14	2.9
13	37.93	0.24	0.64	0.75	silty sand to sandy silt	40-50	32-34	12	UNDEFINED
14	51.12	0.18	0.36	0.81	sand to silty sand	50-60	34-36	12	UNDEFINED
15	59.22	0.20	0.34	0.87	sand to silty sand	50-60	34-36	14	UNDEFINED
16	38.32	0.14	0.38	0.93	sand to silty sand	40-50	32-34	9	UNDEFINED
17	45.58	0.12	0.27	0.98	sand to silty sand	40-50	32-34	11	UNDEFINED
18	46.26	0.12	0.25	1.04	sand to silty sand	40-50	32-34	11	UNDEFINED
19	43.84	0.12	0.28	1.10	sand to silty sand	40-50	32-34	10	UNDEFINED
20	50.01	0.14	0.28	1.16	sand to silty sand	40-50	32-34	12	UNDEFINED
21	96.72	0.44	0.45	1.23	sand	60-70	36-38	19	UNDEFINED
22	163.05	2.03	1.25	1.29	sand to silty sand	70-80	38-40	39	UNDEFINED
23	156.92	1.60	1.02	1.35	sand	70-80	38-40	30	UNDEFINED
24	146.94	0.69	0.47	1.41	sand	70-80	38-40	28	UNDEFINED
25	191.57	1.98	1.03	1.48	sand	70-80	38-40	37	UNDEFINED
26	220.20	1.77	0.80	1.54	sand	80-90	40-42	42	UNDEFINED
27	318.58	1.74	0.55	1.59	gravelly sand to sand	>90	42-44	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-10B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 10:10
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	55.20	1.01	1.84	0.03	silty sand to sandy silt	>90	>48	18	UNDEFINED
2	108.71	1.36	1.25	0.09	sand to silty sand	>90	>48	26	UNDEFINED
3	155.06	2.39	1.54	0.15	sand to silty sand	>90	>48	37	UNDEFINED
4	154.96	2.70	1.74	0.22	sand to silty sand	>90	>48	37	UNDEFINED
5	84.95	0.96	1.13	0.28	sand to silty sand	80-90	44-46	20	UNDEFINED
6	58.77	1.11	1.88	0.33	silty sand to sandy silt	60-70	40-42	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W4-10C
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 12:08
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	16.76	0.09	0.54	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.3
2	98.14	1.09	1.11	0.09	sand to silty sand	>90	>48	24	UNDEFINED
3	122.81	1.91	1.56	0.15	sand to silty sand	>90	>48	29	UNDEFINED
4	105.14	1.75	1.67	0.22	silty sand to sandy silt	>90	46-48	34	UNDEFINED
5	133.35	2.28	1.71	0.28	sand to silty sand	>90	46-48	32	UNDEFINED
6	51.37	1.59	3.10	0.33	sandy silt to clayey silt	UNDFND	UNDFD	20	4.0
7	26.97	0.41	1.52	0.39	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
8	43.03	0.80	1.85	0.45	sandy silt to clayey silt	UNDFND	UNDFD	16	3.4
9	25.83	0.37	1.43	0.51	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
10	30.32	0.40	1.32	0.57	silty sand to sandy silt	40-50	34-36	10	UNDEFINED
11	39.88	0.26	0.65	0.63	silty sand to sandy silt	40-50	34-36	13	UNDEFINED
12	38.50	0.31	0.80	0.69	silty sand to sandy silt	40-50	34-36	12	UNDEFINED
13	42.32	0.45	1.07	0.75	silty sand to sandy silt	40-50	34-36	14	UNDEFINED
14	34.96	0.28	0.79	0.81	silty sand to sandy silt	<40	32-34	11	UNDEFINED
15	63.54	0.52	0.82	0.87	sand to silty sand	50-60	36-38	15	UNDEFINED
16	101.77	1.99	1.96	0.93	silty sand to sandy silt	60-70	38-40	32	UNDEFINED
17	223.24	3.11	1.39	0.98	sand to silty sand	80-90	42-44	>50	UNDEFINED
18	197.70	2.79	1.41	1.04	sand to silty sand	80-90	40-42	47	UNDEFINED
19	174.12	1.95	1.12	1.10	sand	80-90	40-42	33	UNDEFINED
20	154.63	1.51	0.98	1.16	sand	70-80	38-40	30	UNDEFINED
21	197.70	2.10	1.06	1.23	sand	80-90	40-42	38	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-11
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 10:20
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	11.81	0.19	1.57	0.03	clayey silt to silty clay	UNDFND	UNDFD	6	.9
2	71.50	1.03	1.45	0.09	silty sand to sandy silt	>90	>48	23	UNDEFINED
3	84.40	1.02	1.21	0.15	sand to silty sand	80-90	46-48	20	UNDEFINED
4	50.07	0.61	1.21	0.22	silty sand to sandy silt	60-70	42-44	16	UNDEFINED
5	41.59	0.32	0.77	0.28	silty sand to sandy silt	50-60	40-42	13	UNDEFINED
6	38.35	0.28	0.73	0.33	silty sand to sandy silt	50-60	38-40	12	UNDEFINED
7	27.82	0.07	0.26	0.39	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
8	67.40	1.09	1.62	0.45	silty sand to sandy silt	60-70	40-42	22	UNDEFINED
9	55.54	0.47	0.84	0.51	sand to silty sand	50-60	38-40	13	UNDEFINED
10	37.86	0.15	0.41	0.57	silty sand to sandy silt	40-50	34-36	12	UNDEFINED
11	73.38	0.31	0.43	0.63	sand to silty sand	60-70	38-40	18	UNDEFINED
12	109.23	1.18	1.08	0.69	sand to silty sand	70-80	40-42	26	UNDEFINED
13	87.77	0.91	1.03	0.75	sand to silty sand	60-70	38-40	21	UNDEFINED
14	93.78	1.12	1.19	0.81	sand to silty sand	60-70	38-40	22	UNDEFINED
15	55.88	0.24	0.43	0.87	sand to silty sand	50-60	34-36	13	UNDEFINED
16	62.45	0.44	0.71	0.93	sand to silty sand	50-60	34-36	15	UNDEFINED
17	134.84	1.16	0.86	0.98	sand	70-80	40-42	26	UNDEFINED
18	190.93	1.33	0.69	1.04	sand	80-90	40-42	37	UNDEFINED
19	122.81	0.78	0.64	1.10	sand	70-80	38-40	24	UNDEFINED
20	127.48	0.80	0.63	1.16	sand	70-80	38-40	24	UNDEFINED
21	157.67	0.95	0.60	1.23	sand	70-80	38-40	30	UNDEFINED
22	145.94	0.32	0.22	1.29	sand	70-80	38-40	28	UNDEFINED
23	102.03	0.51	0.50	1.35	sand	60-70	36-38	20	UNDEFINED
24	97.10	0.42	0.43	1.41	sand	60-70	34-36	19	UNDEFINED
25	101.22	0.38	0.38	1.48	sand	60-70	34-36	19	UNDEFINED
26	128.38	0.83	0.64	1.54	sand	60-70	36-38	25	UNDEFINED
27	133.28	1.14	0.86	1.59	sand	60-70	36-38	26	UNDEFINED
28	207.24	1.43	0.69	1.65	sand	80-90	38-40	40	UNDEFINED
29	279.82	2.92	1.04	1.71	sand	80-90	40-42	>50	UNDEFINED
30	232.15	2.04	0.88	1.77	sand	80-90	38-40	44	UNDEFINED
31	258.30	1.64	0.63	1.83	sand	80-90	40-42	49	UNDEFINED
32	169.43	0.93	0.55	1.89	sand	70-80	36-38	32	UNDEFINED
33	122.58	0.58	0.47	1.95	sand	60-70	34-36	23	UNDEFINED
34	124.20	0.74	0.60	1.99	sand	60-70	34-36	24	UNDEFINED
35	136.58	1.26	0.92	2.02	sand	60-70	34-36	26	UNDEFINED
36	177.36	1.55	0.87	2.04	sand	70-80	36-38	34	UNDEFINED
37	137.36	0.84	0.61	2.07	sand	60-70	34-36	26	UNDEFINED
38	94.11	0.73	0.77	2.10	sand to silty sand	50-60	32-34	23	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	136.28	1.77	1.30	2.13	sand to silty sand	60-70	34-36	33	UNDEFINED
40	142.04	2.29	1.61	2.16	sand to silty sand	60-70	34-36	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-12
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 10:52
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	52.93	1.32	2.49	0.03	sandy silt to clayey silt	UNDFND	UNDFD	20	4.2
2	24.64	1.25	5.07	0.09	clay	UNDFND	UNDFD	24	1.9
3	40.91	0.72	1.77	0.15	sandy silt to clayey silt	UNDFND	UNDFD	16	3.2
4	85.87	0.29	0.34	0.22	sand	80-90	44-46	16	UNDEFINED
5	151.29	0.51	0.34	0.28	sand	>90	46-48	29	UNDEFINED
6	166.45	0.80	0.48	0.33	sand	>90	46-48	32	UNDEFINED
7	126.42	0.57	0.45	0.39	sand	80-90	44-46	24	UNDEFINED
8	156.48	0.64	0.41	0.45	sand	>90	44-46	30	UNDEFINED
9	155.10	0.67	0.43	0.51	sand	80-90	44-46	30	UNDEFINED
10	203.30	1.06	0.52	0.57	sand	>90	44-46	39	UNDEFINED
11	247.64	2.75	1.11	0.63	sand	>90	44-46	47	UNDEFINED
12	135.10	0.77	0.57	0.69	sand	80-90	42-44	26	UNDEFINED
13	131.46	1.04	0.79	0.75	sand	70-80	40-42	25	UNDEFINED
14	127.01	0.98	0.77	0.81	sand	70-80	40-42	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-12A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:08:97 11:11
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.67	0.46	3.35	0.03	silty clay to clay	UNDFND	UNDFD	9	1.0
2	20.49	1.10	5.36	0.09	clay	UNDFND	UNDFD	20	1.6
3	53.75	0.68	1.26	0.15	silty sand to sandy silt	70-80	44-46	17	UNDEFINED
4	92.22	0.53	0.57	0.22	sand to silty sand	80-90	44-46	22	UNDEFINED
5	119.15	0.74	0.62	0.28	sand	>90	46-48	23	UNDEFINED
6	123.69	0.78	0.63	0.33	sand	80-90	44-46	24	UNDEFINED
7	161.57	0.92	0.57	0.39	sand	>90	44-46	31	UNDEFINED
8	170.59	0.88	0.52	0.45	sand	>90	44-46	33	UNDEFINED
9	165.36	0.98	0.59	0.51	sand	>90	44-46	32	UNDEFINED
10	240.73	1.65	0.68	0.57	sand	>90	44-46	46	UNDEFINED
11	202.93	2.30	1.13	0.63	sand	>90	44-46	39	UNDEFINED
12	133.32	1.00	0.75	0.69	sand	80-90	40-42	26	UNDEFINED
13	125.07	1.10	0.88	0.75	sand to silty sand	70-80	40-42	30	UNDEFINED
14	122.88	0.94	0.76	0.81	sand	70-80	40-42	24	UNDEFINED
15	134.99	1.96	1.45	0.87	sand to silty sand	70-80	40-42	32	UNDEFINED
16	128.01	0.94	0.73	0.93	sand	70-80	40-42	25	UNDEFINED
17	98.55	0.92	0.94	0.98	sand to silty sand	60-70	38-40	24	UNDEFINED
18	93.72	0.53	0.56	1.04	sand to silty sand	60-70	36-38	22	UNDEFINED
19	109.04	1.11	1.02	1.10	sand to silty sand	60-70	38-40	26	UNDEFINED
20	113.73	0.95	0.84	1.16	sand to silty sand	60-70	38-40	27	UNDEFINED
21	156.76	1.61	1.03	1.23	sand	70-80	38-40	30	UNDEFINED
22	240.30	3.04	1.26	1.29	sand	80-90	40-42	46	UNDEFINED
23	148.08	1.24	0.84	1.35	sand	70-80	38-40	28	UNDEFINED
24	116.58	1.21	1.04	1.41	sand to silty sand	60-70	36-38	28	UNDEFINED
25	125.96	0.84	0.67	1.48	sand	60-70	36-38	24	UNDEFINED
26	131.89	1.77	1.34	1.54	sand to silty sand	60-70	36-38	32	UNDEFINED
27	100.01	0.78	0.78	1.59	sand to silty sand	50-60	34-36	24	UNDEFINED
28	99.67	0.57	0.58	1.65	sand	50-60	34-36	19	UNDEFINED
29	106.83	0.69	0.65	1.71	sand	60-70	34-36	20	UNDEFINED
30	83.70	0.43	0.51	1.77	sand to silty sand	50-60	32-34	20	UNDEFINED
31	78.52	0.45	0.58	1.83	sand to silty sand	50-60	32-34	19	UNDEFINED
32	85.42	0.53	0.62	1.89	sand to silty sand	50-60	32-34	20	UNDEFINED
33	99.56	0.63	0.63	1.95	sand to silty sand	50-60	32-34	24	UNDEFINED
34	104.17	0.60	0.58	1.99	sand	50-60	34-36	20	UNDEFINED
35	97.33	0.52	0.54	2.02	sand	50-60	32-34	19	UNDEFINED
36	81.26	0.91	1.12	2.04	sand to silty sand	50-60	32-34	19	UNDEFINED
37	102.08	2.02	1.98	2.07	silty sand to sandy silt	50-60	32-34	33	UNDEFINED
38	151.56	1.74	1.15	2.10	sand to silty sand	60-70	36-38	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	133.81	1.16	0.87	2.13	sand	60-70	34-36	26	UNDEFINED
40	103.90	1.45	1.40	2.16	sand to silty sand	50-60	32-34	25	UNDEFINED
41	108.53	0.59	0.54	2.19	sand	50-60	32-34	21	UNDEFINED
42	106.99	0.60	0.56	2.22	sand	50-60	32-34	20	UNDEFINED
43	111.07	0.57	0.51	2.25	sand	50-60	32-34	21	UNDEFINED
44	103.71	0.45	0.43	2.28	sand	50-60	32-34	20	UNDEFINED
45	102.50	0.73	0.71	2.31	sand to silty sand	50-60	32-34	25	UNDEFINED
46	113.20	1.56	1.38	2.34	sand to silty sand	50-60	32-34	27	UNDEFINED
47	108.19	0.83	0.77	2.36	sand to silty sand	50-60	32-34	26	UNDEFINED
48	100.22	0.59	0.59	2.39	sand	50-60	32-34	19	UNDEFINED
49	103.95	0.41	0.39	2.42	sand	50-60	32-34	20	UNDEFINED
50	104.40	0.58	0.56	2.45	sand	50-60	32-34	20	UNDEFINED
51	110.92	0.81	0.73	2.48	sand	50-60	32-34	21	UNDEFINED
52	103.58	0.66	0.64	2.51	sand	50-60	32-34	20	UNDEFINED
53	106.64	0.84	0.78	2.53	sand to silty sand	50-60	32-34	26	UNDEFINED
54	126.95	0.99	0.78	2.56	sand	60-70	32-34	24	UNDEFINED
55	116.40	0.97	0.83	2.59	sand to silty sand	50-60	32-34	28	UNDEFINED
56	100.63	0.83	0.83	2.62	sand to silty sand	50-60	30-32	24	UNDEFINED
57	111.28	0.93	0.84	2.65	sand to silty sand	50-60	32-34	27	UNDEFINED
58	117.59	1.03	0.87	2.68	sand to silty sand	50-60	32-34	28	UNDEFINED
59	129.99	1.06	0.82	2.70	sand	50-60	32-34	25	UNDEFINED
60	124.77	1.05	0.84	2.73	sand	50-60	32-34	24	UNDEFINED
1	153.17	1.27	0.83	2.76	sand	60-70	34-36	29	UNDEFINED
2	117.78	0.87	0.74	2.79	sand	50-60	32-34	23	UNDEFINED
63	122.06	0.64	0.52	2.82	sand	50-60	32-34	23	UNDEFINED
64	114.77	0.79	0.69	2.85	sand	50-60	32-34	22	UNDEFINED
65	119.69	1.00	0.84	2.88	sand to silty sand	50-60	32-34	29	UNDEFINED
66	131.51	1.19	0.90	2.91	sand	50-60	32-34	25	UNDEFINED
67	169.35	1.23	0.72	2.94	sand	60-70	34-36	32	UNDEFINED
68	177.29	1.49	0.84	2.97	sand	60-70	34-36	34	UNDEFINED
69	285.69	1.86	0.65	3.00	sand	80-90	36-38	>50	UNDEFINED
70	238.85	1.52	0.64	3.03	sand	70-80	36-38	46	UNDEFINED
71	235.52	2.98	1.27	3.05	sand	70-80	36-38	45	UNDEFINED
72	135.27	1.41	1.05	3.08	sand to silty sand	50-60	32-34	32	UNDEFINED
73	106.78	1.69	1.59	3.11	sand to silty sand	50-60	30-32	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W4-13
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 09:03
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	17.80	0.09	0.53	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
2	43.13	0.28	0.65	0.09	silty sand to sandy silt	70-80	46-48	14	UNDEFINED
3	128.59	2.13	1.66	0.15	sand to silty sand	>90	>48	31	UNDEFINED
4	337.67	3.68	1.09	0.22	sand	>90	>48	>50	UNDEFINED
5	123.41	1.95	1.58	0.28	sand to silty sand	>90	46-48	30	UNDEFINED
6	182.99	1.84	1.01	0.33	sand	>90	46-48	35	UNDEFINED
7	74.88	0.96	1.28	0.39	silty sand to sandy silt	70-80	40-42	24	UNDEFINED
8	65.43	0.60	0.92	0.45	sand to silty sand	60-70	40-42	16	UNDEFINED
9	27.55	0.34	1.23	0.51	sandy silt to clayey silt	UNDFND	UNDFD	11	2.1
10	28.26	0.34	1.21	0.57	silty sand to sandy silt	<40	32-34	9	UNDEFINED
11	141.28	0.66	0.47	0.63	sand	80-90	42-44	27	UNDEFINED
12	196.77	2.29	1.17	0.69	sand	>90	44-46	38	UNDEFINED
13	35.94	0.37	1.04	0.75	silty sand to sandy silt	40-50	32-34	11	UNDEFINED
14	26.02	0.33	1.27	0.81	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
15	21.58	0.25	1.15	0.87	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
16	25.11	0.27	1.10	0.93	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
17	25.52	0.33	1.30	0.98	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
18	23.23	0.49	2.11	1.04	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
19	42.44	0.65	1.54	1.10	silty sand to sandy silt	40-50	30-32	14	UNDEFINED
20	24.69	0.50	2.04	1.16	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
21	30.21	0.38	1.26	1.23	silty sand to sandy silt	<40	<30	10	UNDEFINED
22	33.73	1.34	3.98	1.29	clayey silt to silty clay	UNDFND	UNDFD	16	2.5
23	40.64	0.90	2.21	1.35	sandy silt to clayey silt	UNDFND	UNDFD	16	3.1
24	30.60	0.46	1.49	1.41	sandy silt to clayey silt	UNDFND	UNDFD	12	2.3
25	46.10	1.23	2.67	1.48	sandy silt to clayey silt	UNDFND	UNDFD	18	3.5
26	34.78	0.79	2.28	1.54	sandy silt to clayey silt	UNDFND	UNDFD	13	2.6
27	65.68	0.65	0.99	1.59	sand to silty sand	40-50	32-34	16	UNDEFINED
28	132.75	0.79	0.59	1.65	sand	60-70	36-38	25	UNDEFINED
29	132.98	1.52	1.14	1.71	sand to silty sand	60-70	36-38	32	UNDEFINED
30	137.43	0.50	0.36	1.77	sand	60-70	36-38	26	UNDEFINED
31	70.20	0.33	0.47	1.83	sand to silty sand	40-50	30-32	17	UNDEFINED
32	84.19	0.54	0.64	1.89	sand to silty sand	50-60	32-34	20	UNDEFINED
33	117.94	0.96	0.81	1.95	sand to silty sand	60-70	34-36	28	UNDEFINED
34	183.18	1.63	0.89	1.99	sand	70-80	36-38	35	UNDEFINED
35	170.86	1.75	1.02	2.02	sand	70-80	36-38	33	UNDEFINED
36	165.16	0.74	0.45	2.04	sand	70-80	36-38	32	UNDEFINED
37	160.12	1.19	0.75	2.07	sand	60-70	36-38	31	UNDEFINED
38	166.05	1.07	0.64	2.10	sand	70-80	36-38	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	183.19	1.18	0.65	2.13	sand	70-80	36-38	35	UNDEFINED
40	191.56	1.34	0.70	2.16	sand	70-80	36-38	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-14
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:02:97 10:59
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	16.62	0.08	0.49	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.3
2	38.40	0.11	0.30	0.09	sand to silty sand	70-80	46-48	9	UNDEFINED
3	69.60	0.48	0.69	0.15	sand to silty sand	80-90	46-48	17	UNDEFINED
4	163.51	2.44	1.49	0.22	sand to silty sand	>90	>48	39	UNDEFINED
5	262.91	2.68	1.02	0.28	sand	>90	>48	>50	UNDEFINED
6	126.06	1.33	1.05	0.33	sand to silty sand	80-90	44-46	30	UNDEFINED
7	56.81	0.59	1.04	0.39	silty sand to sandy silt	60-70	40-42	18	UNDEFINED
8	30.11	0.30	1.00	0.45	silty sand to sandy silt	40-50	34-36	10	UNDEFINED
9	17.01	0.25	1.49	0.51	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
10	22.56	0.41	1.83	0.57	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
11	17.46	0.36	2.06	0.63	clayey silt to silty clay	UNDFND	UNDFD	8	1.3
12	19.63	0.23	1.19	0.69	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
13	25.93	0.24	0.94	0.75	silty sand to sandy silt	<40	30-32	8	UNDEFINED
14	92.69	1.73	1.86	0.81	silty sand to sandy silt	60-70	38-40	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W4-14A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:02:97 11:14
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	12.55	0.06	0.48	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
2	38.90	0.20	0.51	0.09	silty sand to sandy silt	70-80	46-48	12	UNDEFINED
3	117.81	1.59	1.35	0.15	sand to silty sand	>90	>48	28	UNDEFINED
4	127.63	2.73	2.14	0.22	silty sand to sandy silt	>90	46-48	41	UNDEFINED
5	198.70	3.06	1.54	0.28	sand to silty sand	>90	>48	48	UNDEFINED
6	79.74	0.90	1.13	0.33	sand to silty sand	70-80	42-44	19	UNDEFINED
7	38.34	0.35	0.92	0.39	silty sand to sandy silt	50-60	38-40	12	UNDEFINED
8	20.80	0.11	0.51	0.45	silty sand to sandy silt	<40	32-34	7	UNDEFINED
9	16.62	0.14	0.82	0.51	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
10	14.34	0.29	2.05	0.57	clayey silt to silty clay	UNDFND	UNDFD	7	1.1
11	11.11	0.28	2.52	0.63	clayey silt to silty clay	UNDFND	UNDFD	5	.8
12	16.01	0.20	1.25	0.69	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
13	18.15	0.17	0.93	0.75	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
14	58.78	1.30	2.21	0.81	sandy silt to clayey silt	UNDFND	UNDFD	23	4.6
15	33.52	0.80	2.38	0.87	sandy silt to clayey silt	UNDFND	UNDFD	13	2.6
16	27.07	0.68	2.51	0.93	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
17	22.08	0.29	1.32	0.98	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
18	27.73	0.26	0.95	1.04	silty sand to sandy silt	<40	<30	9	UNDEFINED
19	27.02	0.37	1.36	1.10	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
20	27.65	0.20	0.72	1.16	silty sand to sandy silt	<40	<30	9	UNDEFINED
1	33.49	0.13	0.40	1.23	silty sand to sandy silt	<40	<30	11	UNDEFINED
2	36.77	0.23	0.62	1.29	silty sand to sandy silt	<40	<30	12	UNDEFINED
23	31.54	0.16	0.51	1.35	silty sand to sandy silt	<40	<30	10	UNDEFINED
24	31.93	0.46	1.45	1.41	sandy silt to clayey silt	UNDFND	UNDFD	12	2.4
25	24.00	0.93	3.87	1.48	silty clay to clay	UNDFND	UNDFD	15	1.8
26	59.14	1.85	3.13	1.54	sandy silt to clayey silt	UNDFND	UNDFD	23	4.6
27	310.58	6.22	2.00	1.59	sand to silty sand	>90	42-44	>50	UNDEFINED
28	121.41	1.08	0.89	1.65	sand to silty sand	60-70	36-38	29	UNDEFINED
29	120.11	0.94	0.78	1.71	sand	60-70	36-38	23	UNDEFINED
30	188.69	2.08	1.10	1.77	sand	70-80	38-40	36	UNDEFINED
31	176.62	1.63	0.92	1.83	sand	70-80	38-40	34	UNDEFINED
32	174.23	2.17	1.25	1.89	sand to silty sand	70-80	36-38	42	UNDEFINED
33	177.49	2.12	1.20	1.95	sand to silty sand	70-80	36-38	43	UNDEFINED
34	167.58	0.75	0.45	1.99	sand	70-80	36-38	32	UNDEFINED
35	169.40	1.43	0.85	2.02	sand	70-80	36-38	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W4-14B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 10:24
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	1.65	0.09	5.57	0.03	organic material	UNDFND	UNDFD	2	.1
2	11.19	0.44	3.93	0.09	clay	UNDFND	UNDFD	11	.8
3	95.94	1.37	1.43	0.15	sand to silty sand	>90	46-48	23	UNDEFINED
4	103.08	2.90	2.81	0.22	sandy silt to clayey silt	UNDFND	UNDFD	39	8.2
5	202.73	2.18	1.07	0.28	sand	>90	>48	39	UNDEFINED
6	111.14	1.41	1.27	0.33	sand to silty sand	80-90	44-46	27	UNDEFINED
7	44.70	0.82	1.83	0.39	silty sand to sandy silt	50-60	38-40	14	UNDEFINED
8	60.31	1.13	1.88	0.45	silty sand to sandy silt	60-70	38-40	19	UNDEFINED
9	41.04	0.52	1.27	0.51	silty sand to sandy silt	50-60	36-38	13	UNDEFINED
10	33.63	0.50	1.50	0.57	silty sand to sandy silt	40-50	34-36	11	UNDEFINED
11	20.24	0.27	1.33	0.63	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
12	20.78	0.35	1.67	0.69	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
13	21.28	0.31	1.44	0.75	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
14	75.85	1.76	2.32	0.81	silty sand to sandy silt	60-70	36-38	24	UNDEFINED
15	35.08	0.70	2.01	0.87	sandy silt to clayey silt	UNDFND	UNDFD	13	2.7
16	28.90	0.63	2.19	0.93	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
17	24.03	0.70	2.92	0.98	clayey silt to silty clay	UNDFND	UNDFD	12	1.8
18	30.58	0.37	1.21	1.04	silty sand to sandy silt	<40	30-32	10	UNDEFINED
19	31.50	0.35	1.12	1.10	silty sand to sandy silt	<40	<30	10	UNDEFINED
20	31.49	0.45	1.43	1.16	sandy silt to clayey silt	UNDFND	UNDFD	12	2.4
21	31.88	0.36	1.12	1.23	silty sand to sandy silt	<40	<30	10	UNDEFINED
22	32.55	0.49	1.51	1.29	sandy silt to clayey silt	UNDFND	UNDFD	12	2.5
23	28.50	0.38	1.35	1.35	sandy silt to clayey silt	UNDFND	UNDFD	11	2.1
24	25.49	0.39	1.54	1.41	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
25	33.65	1.10	3.28	1.48	clayey silt to silty clay	UNDFND	UNDFD	16	2.5
26	41.23	0.47	1.13	1.54	silty sand to sandy silt	<40	<30	13	UNDEFINED
27	118.28	1.19	1.01	1.59	sand to silty sand	60-70	36-38	28	UNDEFINED
28	118.58	1.35	1.14	1.65	sand to silty sand	60-70	36-38	28	UNDEFINED
29	214.80	0.93	0.43	1.71	sand	80-90	38-40	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-14C
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 10:48
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	7.97	0.32	4.00	0.03	clay	UNDFND	UNDFD	8	.6
2	26.03	0.49	1.89	0.09	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
3	135.47	1.38	1.02	0.15	sand to silty sand	>90	>48	32	UNDEFINED
4	87.26	1.66	1.90	0.22	silty sand to sandy silt	80-90	44-46	28	UNDEFINED
5	86.75	1.38	1.58	0.28	silty sand to sandy silt	80-90	44-46	28	UNDEFINED
6	54.09	1.27	2.35	0.33	sandy silt to clayey silt	UNDFND	UNDFD	21	4.3
7	30.44	0.35	1.16	0.39	silty sand to sandy silt	40-50	36-38	10	UNDEFINED
8	20.95	0.18	0.87	0.45	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
9	12.95	0.20	1.52	0.51	clayey silt to silty clay	UNDFND	UNDFD	6	.9
10	14.92	0.31	2.04	0.57	clayey silt to silty clay	UNDFND	UNDFD	7	1.1
11	13.68	0.28	2.06	0.63	clayey silt to silty clay	UNDFND	UNDFD	7	1.0
12	15.33	0.22	1.45	0.69	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
13	16.78	0.19	1.14	0.75	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
14	19.56	0.28	1.45	0.81	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
15	18.03	0.27	1.50	0.87	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
16	16.48	0.32	1.95	0.93	clayey silt to silty clay	UNDFND	UNDFD	8	1.2
17	59.92	0.71	1.19	0.98	silty sand to sandy silt	50-60	34-36	19	UNDEFINED
18	19.45	0.35	1.81	1.04	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
19	21.92	0.38	1.74	1.10	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
20	23.55	0.16	0.66	1.16	silty sand to sandy silt	<40	<30	8	UNDEFINED
21	26.40	0.30	1.13	1.23	silty sand to sandy silt	<40	<30	8	UNDEFINED
22	27.49	0.24	0.86	1.29	silty sand to sandy silt	<40	<30	9	UNDEFINED
23	35.88	0.43	1.20	1.35	silty sand to sandy silt	<40	<30	11	UNDEFINED
24	37.96	0.48	1.26	1.41	silty sand to sandy silt	<40	<30	12	UNDEFINED
25	44.88	0.99	2.21	1.48	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
26	84.31	0.80	0.95	1.54	sand to silty sand	50-60	34-36	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-14D
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 13:02
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	11.08	0.25	2.29	0.03	clayey silt to silty clay	UNDFND	UNDFD	5	.8
2	36.38	0.48	1.31	0.09	silty sand to sandy silt	70-80	44-46	12	UNDEFINED
3	113.07	2.04	1.80	0.15	silty sand to sandy silt	>90	>48	36	UNDEFINED
4	144.76	3.06	2.11	0.22	silty sand to sandy silt	>90	>48	46	UNDEFINED
5	84.00	1.35	1.60	0.28	silty sand to sandy silt	80-90	44-46	27	UNDEFINED
6	46.65	0.51	1.08	0.33	silty sand to sandy silt	60-70	40-42	15	UNDEFINED
7	29.03	0.42	1.44	0.39	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
8	37.65	0.70	1.87	0.45	sandy silt to clayey silt	UNDFND	UNDFD	14	2.9
9	21.72	0.23	1.07	0.51	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
10	15.05	0.14	0.94	0.57	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
11	12.73	0.16	1.26	0.63	sandy silt to clayey silt	UNDFND	UNDFD	5	.9
12	13.90	0.16	1.17	0.69	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
13	26.27	0.48	1.83	0.75	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
14	28.34	1.08	3.79	0.81	clayey silt to silty clay	UNDFND	UNDFD	14	2.2
15	21.07	0.21	1.00	0.87	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
16	18.35	0.15	0.84	0.93	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
17	21.65	0.27	1.26	0.98	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W4-15
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:17:97 16:10
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	18.95	0.26	1.38	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
2	46.97	0.20	0.43	0.09	sand to silty sand	70-80	46-48	11	UNDEFINED
3	166.28	2.68	1.61	0.15	sand to silty sand	>90	>48	40	UNDEFINED
4	184.05	4.53	2.46	0.22	silty sand to sandy silt	>90	>48	>50	UNDEFINED
5	74.58	1.01	1.35	0.28	silty sand to sandy silt	70-80	42-44	24	UNDEFINED
6	37.59	0.33	0.89	0.33	silty sand to sandy silt	50-60	38-40	12	UNDEFINED
7	32.68	0.26	0.80	0.39	silty sand to sandy silt	40-50	36-38	10	UNDEFINED
8	35.68	0.25	0.71	0.45	silty sand to sandy silt	40-50	36-38	11	UNDEFINED
9	19.43	0.06	0.31	0.51	silty sand to sandy silt	<40	30-32	6	UNDEFINED
10	21.25	0.11	0.52	0.57	silty sand to sandy silt	<40	30-32	7	UNDEFINED
11	21.72	0.15	0.68	0.63	silty sand to sandy silt	<40	30-32	7	UNDEFINED
12	35.37	0.71	2.00	0.69	sandy silt to clayey silt	UNDFND	UNDFD	14	2.7
13	30.12	0.54	1.80	0.75	sandy silt to clayey silt	UNDFND	UNDFD	12	2.3
14	16.66	0.39	2.32	0.81	clayey silt to silty clay	UNDFND	UNDFD	8	1.2
15	25.01	0.21	0.86	0.87	silty sand to sandy silt	<40	<30	8	UNDEFINED
16	19.99	0.45	2.28	0.93	clayey silt to silty clay	UNDFND	UNDFD	10	1.5
17	13.41	0.26	1.94	0.98	clayey silt to silty clay	UNDFND	UNDFD	6	.9
18	15.20	0.17	1.14	1.04	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
19	15.72	0.35	2.24	1.10	clayey silt to silty clay	UNDFND	UNDFD	8	1.1
20	71.43	1.47	2.06	1.16	silty sand to sandy silt	50-60	34-36	23	UNDEFINED
21	20.96	0.44	2.11	1.23	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
22	35.11	0.47	1.33	1.29	silty sand to sandy silt	<40	<30	11	UNDEFINED
23	79.26	2.08	2.62	1.35	sandy silt to clayey silt	UNDFND	UNDFD	30	6.2
24	47.28	1.28	2.71	1.41	sandy silt to clayey silt	UNDFND	UNDFD	18	3.6
25	34.02	0.84	2.47	1.48	sandy silt to clayey silt	UNDFND	UNDFD	13	2.6
26	219.19	2.69	1.23	1.54	sand	80-90	40-42	42	UNDEFINED
27	262.29	3.06	1.17	1.59	sand	80-90	40-42	>50	UNDEFINED
28	212.28	2.29	1.08	1.65	sand	80-90	38-40	41	UNDEFINED
29	166.12	1.40	0.84	1.71	sand	70-80	38-40	32	UNDEFINED
30	125.20	0.80	0.63	1.77	sand	60-70	36-38	24	UNDEFINED
31	105.45	0.73	0.69	1.83	sand to silty sand	50-60	34-36	25	UNDEFINED
32	96.00	0.60	0.62	1.89	sand to silty sand	50-60	32-34	23	UNDEFINED
33	97.40	0.59	0.61	1.95	sand to silty sand	50-60	32-34	23	UNDEFINED
34	101.41	0.82	0.81	1.99	sand to silty sand	50-60	32-34	24	UNDEFINED
35	176.33	2.49	1.41	2.02	sand to silty sand	70-80	36-38	42	UNDEFINED
36	186.26	2.67	1.43	2.04	sand to silty sand	70-80	36-38	45	UNDEFINED
37	134.80	0.74	0.55	2.07	sand	60-70	34-36	26	UNDEFINED
38	113.29	0.35	0.31	2.10	sand	50-60	34-36	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	114.80	0.52	0.46	2.13	sand	50-60	34-36	22	UNDEFINED
40	130.19	1.42	1.09	2.16	sand to silty sand	60-70	34-36	31	UNDEFINED
41	99.77	0.87	0.87	2.19	sand to silty sand	50-60	32-34	24	UNDEFINED
42	105.54	0.70	0.66	2.22	sand	50-60	32-34	20	UNDEFINED
43	76.41	0.30	0.40	2.25	sand to silty sand	40-50	30-32	18	UNDEFINED
44	75.56	0.39	0.51	2.28	sand to silty sand	40-50	30-32	18	UNDEFINED
45	127.38	0.95	0.75	2.31	sand	60-70	34-36	24	UNDEFINED
46	99.44	0.48	0.48	2.34	sand	50-60	32-34	19	UNDEFINED
47	88.54	0.47	0.54	2.36	sand to silty sand	50-60	30-32	21	UNDEFINED
48	111.27	0.52	0.47	2.39	sand	50-60	32-34	21	UNDEFINED
49	184.55	2.70	1.46	2.42	sand to silty sand	70-80	36-38	44	UNDEFINED
50	244.92	2.12	0.86	2.45	sand	70-80	38-40	47	UNDEFINED
51	127.52	0.44	0.35	2.48	sand	60-70	32-34	24	UNDEFINED
52	206.56	2.42	1.17	2.51	sand	70-80	36-38	40	UNDEFINED
53	229.77	2.06	0.90	2.53	sand	70-80	36-38	44	UNDEFINED
54	203.86	1.13	0.56	2.56	sand	70-80	36-38	39	UNDEFINED
55	246.53	2.06	0.84	2.59	sand	70-80	36-38	47	UNDEFINED
56	219.62	2.66	1.21	2.62	sand	70-80	36-38	42	UNDEFINED
57	163.67	0.82	0.50	2.65	sand	60-70	34-36	31	UNDEFINED
58	131.47	0.65	0.49	2.68	sand	60-70	32-34	25	UNDEFINED
59	131.30	0.67	0.51	2.70	sand	60-70	32-34	25	UNDEFINED
60	194.70	3.48	1.79	2.73	sand to silty sand	70-80	36-38	47	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 08:27
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	15.06	0.14	0.96	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
2	44.33	0.24	0.55	0.09	sand to silty sand	70-80	46-48	11	UNDEFINED
3	55.58	0.45	0.80	0.15	sand to silty sand	70-80	44-46	13	UNDEFINED
4	50.47	1.08	2.14	0.22	sandy silt to clayey silt	UNDFND	UNDFD	19	4.0
5	145.56	0.70	0.48	0.28	sand	>90	46-48	28	UNDEFINED
6	122.18	0.68	0.55	0.33	sand	80-90	44-46	23	UNDEFINED
7	83.53	0.43	0.51	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	110.56	0.48	0.44	0.45	sand	80-90	42-44	21	UNDEFINED
9	177.07	0.71	0.40	0.51	sand	>90	44-46	34	UNDEFINED
10	159.95	0.84	0.52	0.57	sand	80-90	42-44	31	UNDEFINED
11	155.23	0.87	0.56	0.63	sand	80-90	42-44	30	UNDEFINED
12	147.29	0.71	0.48	0.69	sand	80-90	42-44	28	UNDEFINED
13	141.84	0.81	0.57	0.75	sand	80-90	40-42	27	UNDEFINED
14	133.14	0.68	0.51	0.81	sand	70-80	40-42	26	UNDEFINED
15	152.36	0.72	0.48	0.87	sand	80-90	40-42	29	UNDEFINED
16	177.27	0.90	0.51	0.93	sand	80-90	40-42	34	UNDEFINED
17	189.39	0.97	0.51	0.98	sand	80-90	40-42	36	UNDEFINED
18	172.57	0.92	0.53	1.04	sand	80-90	40-42	33	UNDEFINED
19	136.25	0.72	0.53	1.10	sand	70-80	38-40	26	UNDEFINED
20	148.35	0.80	0.54	1.16	sand	70-80	38-40	28	UNDEFINED
21	138.83	0.84	0.60	1.23	sand	70-80	38-40	27	UNDEFINED
22	138.65	0.83	0.60	1.29	sand	70-80	38-40	27	UNDEFINED
23	167.06	1.14	0.68	1.35	sand	70-80	38-40	32	UNDEFINED
24	211.09	1.05	0.50	1.41	sand	80-90	40-42	40	UNDEFINED
25	199.65	0.90	0.45	1.48	sand	80-90	38-40	38	UNDEFINED
26	162.40	1.00	0.62	1.54	sand	70-80	38-40	31	UNDEFINED
27	171.14	0.99	0.58	1.59	sand	70-80	38-40	33	UNDEFINED
28	172.13	0.90	0.52	1.65	sand	70-80	38-40	33	UNDEFINED
29	202.70	1.21	0.60	1.71	sand	70-80	38-40	39	UNDEFINED
30	198.15	0.98	0.49	1.77	sand	70-80	38-40	38	UNDEFINED
31	148.26	0.92	0.62	1.83	sand	60-70	36-38	28	UNDEFINED
32	143.79	0.78	0.54	1.89	sand	60-70	36-38	28	UNDEFINED
33	151.52	0.78	0.52	1.95	sand	60-70	36-38	29	UNDEFINED
34	148.51	0.91	0.61	1.99	sand	60-70	36-38	28	UNDEFINED
35	131.18	0.61	0.47	2.02	sand	60-70	34-36	25	UNDEFINED
36	141.18	0.74	0.53	2.04	sand	60-70	34-36	27	UNDEFINED
37	128.24	0.65	0.51	2.07	sand	60-70	34-36	25	UNDEFINED
38	126.17	0.59	0.47	2.10	sand	60-70	34-36	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	151.64	0.80	0.53	2.13	sand	60-70	36-38	29	UNDEFINED
40	162.09	0.80	0.49	2.16	sand	60-70	36-38	31	UNDEFINED
41	159.89	0.74	0.46	2.19	sand	60-70	36-38	31	UNDEFINED
42	114.57	0.50	0.43	2.22	sand	50-60	34-36	22	UNDEFINED
43	108.71	0.56	0.52	2.25	sand	50-60	32-34	21	UNDEFINED
44	130.16	0.59	0.45	2.28	sand	60-70	34-36	25	UNDEFINED
45	143.69	0.65	0.45	2.31	sand	60-70	34-36	28	UNDEFINED
46	116.40	0.39	0.33	2.34	sand	50-60	32-34	22	UNDEFINED
47	98.60	0.30	0.31	2.36	sand	50-60	32-34	19	UNDEFINED
48	104.73	0.29	0.28	2.39	sand	50-60	32-34	20	UNDEFINED
49	127.07	0.43	0.34	2.42	sand	60-70	34-36	24	UNDEFINED
50	132.04	0.61	0.46	2.45	sand	60-70	34-36	25	UNDEFINED
51	125.07	0.71	0.57	2.48	sand	60-70	32-34	24	UNDEFINED
52	120.84	0.70	0.58	2.51	sand	50-60	32-34	23	UNDEFINED
53	125.25	0.81	0.64	2.53	sand	50-60	32-34	24	UNDEFINED
54	109.90	0.56	0.51	2.56	sand	50-60	32-34	21	UNDEFINED
55	121.22	0.44	0.36	2.59	sand	50-60	32-34	23	UNDEFINED
56	118.20	0.58	0.49	2.62	sand	50-60	32-34	23	UNDEFINED
57	157.24	0.60	0.38	2.65	sand	60-70	34-36	30	UNDEFINED
58	177.17	0.69	0.39	2.68	sand	60-70	34-36	34	UNDEFINED
59	143.28	0.51	0.35	2.70	sand	60-70	34-36	27	UNDEFINED
60	144.71	0.52	0.36	2.73	sand	60-70	34-36	28	UNDEFINED
61	149.43	0.40	0.27	2.76	sand	60-70	34-36	29	UNDEFINED
62	136.38	0.53	0.39	2.79	sand	60-70	32-34	26	UNDEFINED
63	161.74	0.68	0.42	2.82	sand	60-70	34-36	31	UNDEFINED
64	119.88	0.44	0.37	2.85	sand	50-60	32-34	23	UNDEFINED
65	182.77	0.63	0.34	2.88	sand	60-70	34-36	35	UNDEFINED
66	137.07	0.65	0.47	2.91	sand	60-70	32-34	26	UNDEFINED
67	138.65	0.58	0.42	2.94	sand	60-70	32-34	27	UNDEFINED
68	153.37	0.89	0.58	2.97	sand	60-70	34-36	29	UNDEFINED
69	206.74	1.24	0.60	3.00	sand	70-80	34-36	40	UNDEFINED
70	211.40	1.29	0.61	3.03	sand	70-80	34-36	40	UNDEFINED
71	172.98	0.71	0.41	3.05	sand	60-70	34-36	33	UNDEFINED
72	149.90	1.12	0.75	3.08	sand	60-70	32-34	29	UNDEFINED
73	178.37	1.23	0.69	3.11	sand	60-70	34-36	34	UNDEFINED
74	201.44	0.60	0.30	3.14	sand	70-80	34-36	39	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-2
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 09:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	16.28	0.04	0.28	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.3
2	39.94	0.14	0.36	0.09	sand to silty sand	70-80	46-48	10	UNDEFINED
3	52.48	0.98	1.86	0.15	silty sand to sandy silt	70-80	44-46	17	UNDEFINED
4	117.52	0.57	0.48	0.22	sand	>90	46-48	23	UNDEFINED
5	113.17	0.61	0.53	0.28	sand	80-90	44-46	22	UNDEFINED
6	79.65	0.32	0.40	0.33	sand to silty sand	70-80	42-44	19	UNDEFINED
7	82.88	0.28	0.33	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	60.73	0.17	0.28	0.45	sand to silty sand	60-70	38-40	15	UNDEFINED
9	40.59	0.09	0.23	0.51	sand to silty sand	50-60	36-38	10	UNDEFINED
10	68.05	0.23	0.34	0.57	sand to silty sand	60-70	38-40	16	UNDEFINED
11	70.88	0.25	0.35	0.63	sand to silty sand	60-70	38-40	17	UNDEFINED
12	101.22	0.39	0.38	0.69	sand	70-80	40-42	19	UNDEFINED
13	125.41	0.58	0.46	0.75	sand	70-80	40-42	24	UNDEFINED
14	148.15	0.78	0.53	0.81	sand	80-90	40-42	28	UNDEFINED
15	163.79	0.59	0.36	0.87	sand	80-90	40-42	31	UNDEFINED
16	148.82	0.76	0.51	0.93	sand	70-80	40-42	29	UNDEFINED
17	186.05	1.01	0.54	0.98	sand	80-90	40-42	36	UNDEFINED
18	180.70	1.06	0.59	1.04	sand	80-90	40-42	35	UNDEFINED
19	143.97	0.77	0.54	1.10	sand	70-80	38-40	28	UNDEFINED
20	143.64	0.81	0.57	1.16	sand	70-80	38-40	28	UNDEFINED
21	147.07	0.75	0.51	1.23	sand	70-80	38-40	28	UNDEFINED
22	168.71	0.82	0.49	1.29	sand	70-80	38-40	32	UNDEFINED
23	174.12	0.89	0.51	1.35	sand	70-80	38-40	33	UNDEFINED
24	155.34	0.82	0.53	1.41	sand	70-80	38-40	30	UNDEFINED
25	195.97	0.95	0.48	1.48	sand	80-90	38-40	38	UNDEFINED
26	153.02	0.84	0.55	1.54	sand	70-80	38-40	29	UNDEFINED
27	204.65	1.15	0.56	1.59	sand	80-90	38-40	39	UNDEFINED
28	228.94	1.11	0.48	1.65	sand	80-90	40-42	44	UNDEFINED
29	173.40	0.63	0.36	1.71	sand	70-80	38-40	33	UNDEFINED
30	172.65	0.69	0.40	1.77	sand	70-80	38-40	33	UNDEFINED
31	152.63	0.53	0.35	1.83	sand	70-80	36-38	29	UNDEFINED
32	139.57	0.53	0.38	1.89	sand	60-70	36-38	27	UNDEFINED
33	115.01	0.57	0.49	1.95	sand	60-70	34-36	22	UNDEFINED
34	90.84	0.29	0.32	1.99	sand	50-60	32-34	17	UNDEFINED
35	90.86	0.31	0.34	2.02	sand	50-60	32-34	17	UNDEFINED
36	159.08	0.55	0.35	2.04	sand	60-70	36-38	30	UNDEFINED
37	164.16	0.95	0.58	2.07	sand	70-80	36-38	31	UNDEFINED
38	166.05	0.87	0.52	2.10	sand	70-80	36-38	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	193.70	0.62	0.32	2.13	sand	70-80	36-38	37	UNDEFINED
40	161.78	0.71	0.44	2.16	sand	60-70	36-38	31	UNDEFINED
41	178.97	0.63	0.35	2.19	sand	70-80	36-38	34	UNDEFINED
42	147.70	0.51	0.35	2.22	sand	60-70	34-36	28	UNDEFINED
43	108.39	0.37	0.34	2.25	sand	50-60	32-34	21	UNDEFINED
44	89.12	0.27	0.30	2.28	sand	50-60	32-34	17	UNDEFINED
45	84.65	0.29	0.35	2.31	sand to silty sand	40-50	30-32	20	UNDEFINED
46	108.70	0.52	0.48	2.34	sand	50-60	32-34	21	UNDEFINED
47	137.47	0.52	0.38	2.36	sand	60-70	34-36	26	UNDEFINED
48	124.04	0.43	0.35	2.39	sand	60-70	34-36	24	UNDEFINED
49	151.56	0.69	0.46	2.42	sand	60-70	34-36	29	UNDEFINED
50	171.91	0.56	0.32	2.45	sand	60-70	36-38	33	UNDEFINED
51	140.36	0.56	0.40	2.48	sand	60-70	34-36	27	UNDEFINED
52	145.62	0.47	0.32	2.51	sand	60-70	34-36	28	UNDEFINED
53	164.72	0.52	0.32	2.53	sand	60-70	34-36	32	UNDEFINED
54	138.01	0.54	0.39	2.56	sand	60-70	34-36	26	UNDEFINED
55	126.14	0.54	0.43	2.59	sand	50-60	32-34	24	UNDEFINED
56	179.54	0.58	0.32	2.62	sand	60-70	34-36	34	UNDEFINED
57	171.84	0.53	0.31	2.65	sand	60-70	34-36	33	UNDEFINED
58	185.08	0.54	0.29	2.68	sand	70-80	34-36	35	UNDEFINED
59	178.90	0.40	0.22	2.70	sand	60-70	34-36	34	UNDEFINED
60	148.56	0.38	0.25	2.73	sand	60-70	34-36	28	UNDEFINED
61	145.60	0.53	0.36	2.76	sand	60-70	34-36	28	UNDEFINED
62	146.51	0.58	0.39	2.79	sand	60-70	34-36	28	UNDEFINED
63	173.33	0.76	0.44	2.82	sand	60-70	34-36	33	UNDEFINED
64	183.79	0.82	0.45	2.85	sand	60-70	34-36	35	UNDEFINED
65	184.27	0.83	0.45	2.88	sand	60-70	34-36	35	UNDEFINED
66	167.02	0.48	0.29	2.91	sand	60-70	34-36	32	UNDEFINED
67	120.56	0.26	0.22	2.94	sand	50-60	32-34	23	UNDEFINED
68	65.90	0.19	0.28	2.97	sand to silty sand	<40	<30	16	UNDEFINED
69	117.68	0.29	0.25	3.00	sand	50-60	32-34	23	UNDEFINED
70	148.77	0.55	0.37	3.03	sand	60-70	32-34	29	UNDEFINED
71	169.93	0.55	0.32	3.05	sand	60-70	34-36	33	UNDEFINED
72	182.24	0.54	0.29	3.08	sand	60-70	34-36	35	UNDEFINED
73	112.18	0.37	0.33	3.11	sand	50-60	30-32	21	UNDEFINED
74	86.67	0.24	0.27	3.14	sand	40-50	<30	17	UNDEFINED
75	102.15	0.23	0.23	3.17	sand	50-60	30-32	20	UNDEFINED
76	163.50	0.50	0.31	3.20	sand	60-70	32-34	31	UNDEFINED
77	186.94	0.58	0.31	3.22	sand	60-70	34-36	36	UNDEFINED
78	134.28	0.44	0.33	3.25	sand	50-60	32-34	26	UNDEFINED
79	129.01	0.49	0.38	3.28	sand	50-60	32-34	25	UNDEFINED
80	178.77	0.94	0.52	3.31	sand	60-70	34-36	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

Contractor :GREGG Location : W3-2 Page No. 3

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	127.24	1.10	0.86	3.34	sand	50-60	30-32	24	UNDEFINED
82	168.58	0.95	0.56	3.37	sand	60-70	32-34	32	UNDEFINED
83	162.29	1.01	0.62	3.39	sand	60-70	32-34	31	UNDEFINED
84	135.99	0.46	0.34	3.42	sand	50-60	32-34	26	UNDEFINED
85	160.17	1.02	0.64	3.46	sand	60-70	32-34	31	UNDEFINED
86	152.94	0.48	0.31	3.48	sand	60-70	32-34	29	UNDEFINED
87	118.35	0.49	0.41	3.51	sand	50-60	30-32	23	UNDEFINED
88	202.02	0.78	0.39	3.54	sand	60-70	34-36	39	UNDEFINED
89	182.82	0.47	0.25	3.57	sand	60-70	32-34	35	UNDEFINED
90	140.20	0.48	0.34	3.60	sand	50-60	32-34	27	UNDEFINED
91	125.09	0.29	0.23	3.63	sand	50-60	30-32	24	UNDEFINED
92	133.13	0.43	0.32	3.66	sand	50-60	30-32	26	UNDEFINED
93	206.71	1.00	0.48	3.69	sand	60-70	34-36	40	UNDEFINED
94	261.65	1.26	0.48	3.71	gravelly sand to sand	70-80	36-38	42	UNDEFINED
95	204.02	0.91	0.45	3.74	sand	60-70	34-36	39	UNDEFINED
96	152.97	0.57	0.37	3.77	sand	50-60	32-34	29	UNDEFINED
97	144.43	0.37	0.26	3.80	sand	50-60	30-32	28	UNDEFINED
98	170.02	0.67	0.39	3.83	sand	60-70	32-34	33	UNDEFINED
99	194.82	0.82	0.42	3.86	sand	60-70	32-34	37	UNDEFINED
100	210.02	0.59	0.28	3.88	sand	60-70	34-36	40	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 10:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.37	0.06	0.45	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
2	64.06	0.51	0.80	0.09	sand to silty sand	80-90	>48	15	UNDEFINED
3	84.11	1.09	1.30	0.15	sand to silty sand	80-90	46-48	20	UNDEFINED
4	54.97	0.39	0.71	0.22	sand to silty sand	70-80	42-44	13	UNDEFINED
5	44.65	0.99	2.22	0.28	sandy silt to clayey silt	UNDFND	UNDFD	17	3.5
6	21.34	0.94	4.42	0.33	clay	UNDFND	UNDFD	20	1.6
7	82.93	0.61	0.74	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	101.54	0.36	0.35	0.45	sand	70-80	42-44	19	UNDEFINED
9	69.20	0.18	0.26	0.51	sand to silty sand	60-70	38-40	17	UNDEFINED
10	58.47	0.14	0.23	0.57	sand to silty sand	50-60	38-40	14	UNDEFINED
11	36.13	0.10	0.28	0.63	sand to silty sand	40-50	34-36	9	UNDEFINED
12	41.92	0.13	0.31	0.69	sand to silty sand	40-50	34-36	10	UNDEFINED
13	82.03	0.25	0.31	0.75	sand to silty sand	60-70	38-40	20	UNDEFINED
14	112.81	0.46	0.41	0.81	sand	70-80	40-42	22	UNDEFINED
15	119.94	0.51	0.43	0.87	sand	70-80	40-42	23	UNDEFINED
16	126.22	0.58	0.46	0.93	sand	70-80	40-42	24	UNDEFINED
17	108.30	0.53	0.48	0.98	sand	60-70	38-40	21	UNDEFINED
18	127.93	0.55	0.43	1.04	sand	70-80	38-40	25	UNDEFINED
19	164.26	0.84	0.51	1.10	sand	70-80	40-42	31	UNDEFINED
20	111.55	0.51	0.46	1.16	sand	60-70	36-38	21	UNDEFINED
21	198.48	0.98	0.49	1.23	sand	80-90	40-42	38	UNDEFINED
22	186.60	0.71	0.38	1.29	sand	80-90	40-42	36	UNDEFINED
23	137.31	0.76	0.55	1.35	sand	70-80	38-40	26	UNDEFINED
24	126.19	0.57	0.45	1.41	sand	60-70	36-38	24	UNDEFINED
25	160.46	0.61	0.38	1.48	sand	70-80	38-40	31	UNDEFINED
26	121.72	0.42	0.35	1.54	sand	60-70	36-38	23	UNDEFINED
27	109.74	0.34	0.31	1.59	sand	60-70	34-36	21	UNDEFINED
28	88.10	0.25	0.29	1.65	sand	50-60	34-36	17	UNDEFINED
29	93.36	0.26	0.28	1.71	sand	50-60	34-36	18	UNDEFINED
30	193.53	0.91	0.47	1.77	sand	70-80	38-40	37	UNDEFINED
31	217.56	0.95	0.44	1.83	sand	80-90	38-40	42	UNDEFINED
32	216.77	0.75	0.35	1.89	sand	70-80	38-40	42	UNDEFINED
33	250.34	1.05	0.42	1.95	gravelly sand to sand	80-90	38-40	40	UNDEFINED
34	257.35	1.12	0.44	1.99	gravelly sand to sand	80-90	38-40	41	UNDEFINED
35	160.14	0.62	0.39	2.02	sand	70-80	36-38	31	UNDEFINED
36	153.01	0.51	0.33	2.04	sand	60-70	36-38	29	UNDEFINED
37	240.65	1.27	0.53	2.07	sand	80-90	38-40	46	UNDEFINED
38	266.41	1.29	0.48	2.10	gravelly sand to sand	80-90	38-40	43	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	223.16	1.08	0.49	2.13	sand	70-80	38-40	43	UNDEFINED
40	180.74	0.74	0.41	2.16	sand	70-80	36-38	35	UNDEFINED
41	167.29	0.51	0.30	2.19	sand	70-80	36-38	32	UNDEFINED
42	213.88	0.80	0.37	2.22	sand	70-80	38-40	41	UNDEFINED
43	242.85	1.12	0.46	2.25	sand	80-90	38-40	47	UNDEFINED
44	235.00	1.19	0.51	2.28	sand	70-80	38-40	45	UNDEFINED
45	231.28	1.14	0.49	2.31	sand	70-80	38-40	44	UNDEFINED
46	209.57	0.76	0.36	2.34	sand	70-80	36-38	40	UNDEFINED
47	250.16	0.70	0.28	2.36	gravelly sand to sand	80-90	38-40	40	UNDEFINED
48	231.90	0.65	0.28	2.39	gravelly sand to sand	70-80	38-40	37	UNDEFINED
49	255.97	1.15	0.45	2.42	gravelly sand to sand	80-90	38-40	41	UNDEFINED
50	226.06	1.44	0.64	2.45	sand	70-80	36-38	43	UNDEFINED
51	292.11	1.11	0.38	2.48	gravelly sand to sand	80-90	38-40	47	UNDEFINED
52	261.13	0.89	0.34	2.51	gravelly sand to sand	80-90	38-40	42	UNDEFINED
53	265.25	1.24	0.47	2.53	gravelly sand to sand	80-90	38-40	42	UNDEFINED
54	304.44	1.25	0.41	2.56	gravelly sand to sand	80-90	38-40	49	UNDEFINED
55	159.62	0.37	0.23	2.59	sand	60-70	34-36	31	UNDEFINED
56	214.31	0.51	0.24	2.62	gravelly sand to sand	70-80	36-38	34	UNDEFINED
57	320.18	1.33	0.42	2.65	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
58	296.26	0.65	0.22	2.68	gravelly sand to sand	80-90	38-40	47	UNDEFINED
59	268.29	0.96	0.36	2.70	gravelly sand to sand	80-90	38-40	43	UNDEFINED
60	273.01	0.80	0.29	2.73	gravelly sand to sand	80-90	38-40	44	UNDEFINED
61	295.13	0.46	0.15	2.76	gravelly sand to sand	80-90	38-40	47	UNDEFINED
62	195.29	0.36	0.19	2.79	sand	70-80	34-36	37	UNDEFINED
63	173.35	0.41	0.24	2.82	sand	60-70	34-36	33	UNDEFINED
64	189.11	0.47	0.25	2.85	sand	60-70	34-36	36	UNDEFINED
65	137.02	0.37	0.27	2.88	sand	60-70	32-34	26	UNDEFINED
66	201.06	0.66	0.33	2.91	sand	70-80	34-36	39	UNDEFINED
67	191.79	0.74	0.39	2.94	sand	60-70	34-36	37	UNDEFINED
68	218.54	0.66	0.30	2.97	gravelly sand to sand	70-80	36-38	35	UNDEFINED
69	203.58	0.72	0.35	3.00	sand	70-80	34-36	39	UNDEFINED
70	283.25	1.07	0.38	3.03	gravelly sand to sand	80-90	36-38	45	UNDEFINED
71	366.77	1.17	0.32	3.05	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
72	309.18	1.59	0.51	3.08	gravelly sand to sand	80-90	38-40	49	UNDEFINED
73	236.21	1.25	0.53	3.11	sand	70-80	36-38	45	UNDEFINED
74	275.51	1.14	0.41	3.14	gravelly sand to sand	70-80	36-38	44	UNDEFINED
75	267.78	1.25	0.47	3.17	gravelly sand to sand	70-80	36-38	43	UNDEFINED
76	344.99	1.33	0.38	3.20	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
77	299.29	0.89	0.30	3.22	gravelly sand to sand	80-90	36-38	48	UNDEFINED
78	297.43	1.11	0.37	3.25	gravelly sand to sand	80-90	36-38	47	UNDEFINED
79	313.41	1.16	0.37	3.28	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
80	348.80	1.57	0.45	3.31	gravelly sand to sand	80-90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	317.66	1.47	0.46	3.34	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
82	364.08	1.71	0.47	3.37	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
83	393.10	1.41	0.36	3.39	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
84	328.28	1.03	0.31	3.42	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
85	336.91	1.88	0.56	3.46	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
86	329.10	1.91	0.58	3.48	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
87	393.99	1.35	0.34	3.51	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
88	354.93	1.03	0.29	3.54	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
89	305.18	1.42	0.46	3.57	gravelly sand to sand	80-90	36-38	49	UNDEFINED
90	332.29	1.31	0.40	3.60	gravelly sand to sand	80-90	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-5
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 12:34
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	12.18	0.00	0.00	0.03	undefined	UNDFND	UNDFD	UDF	UNDEFINED
2	44.71	0.00	0.00	0.09	undefined	UNDFND	UNDFD	UDF	UNDEFINED
3	73.04	0.13	0.18	0.15	sand to silty sand	80-90	46-48	17	UNDEFINED
4	58.16	0.20	0.35	0.22	sand to silty sand	70-80	42-44	14	UNDEFINED
5	25.77	0.33	1.27	0.28	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
6	25.32	0.34	1.34	0.33	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
7	82.60	0.15	0.18	0.39	sand	70-80	42-44	16	UNDEFINED
8	111.28	0.29	0.26	0.45	sand	80-90	42-44	21	UNDEFINED
9	102.89	0.26	0.25	0.51	sand	70-80	42-44	20	UNDEFINED
10	86.15	0.21	0.24	0.57	sand	70-80	40-42	17	UNDEFINED
11	73.24	0.15	0.21	0.63	sand to silty sand	60-70	38-40	18	UNDEFINED
12	71.56	0.10	0.14	0.69	sand to silty sand	60-70	38-40	17	UNDEFINED
13	105.14	0.23	0.22	0.75	sand	70-80	40-42	20	UNDEFINED
14	116.40	0.36	0.31	0.81	sand	70-80	40-42	22	UNDEFINED
15	87.91	0.23	0.26	0.87	sand	60-70	38-40	17	UNDEFINED
16	132.16	0.38	0.29	0.93	sand	70-80	40-42	25	UNDEFINED
17	159.95	0.68	0.42	0.98	sand	80-90	40-42	31	UNDEFINED
18	180.01	0.71	0.39	1.04	sand	80-90	40-42	34	UNDEFINED
19	179.50	0.69	0.39	1.10	sand	80-90	40-42	34	UNDEFINED
20	135.88	0.71	0.52	1.16	sand	70-80	38-40	26	UNDEFINED
21	122.20	0.62	0.51	1.23	sand	60-70	38-40	23	UNDEFINED
22	121.65	0.57	0.47	1.29	sand	60-70	36-38	23	UNDEFINED
23	170.00	0.89	0.52	1.35	sand	70-80	38-40	33	UNDEFINED
24	198.92	0.93	0.47	1.41	sand	80-90	40-42	38	UNDEFINED
25	212.10	0.98	0.46	1.48	sand	80-90	40-42	41	UNDEFINED
26	265.74	1.52	0.57	1.54	sand	80-90	40-42	>50	UNDEFINED
27	276.58	1.75	0.63	1.59	sand	80-90	40-42	>50	UNDEFINED
28	271.69	1.81	0.67	1.65	sand	80-90	40-42	>50	UNDEFINED
29	276.70	1.66	0.60	1.71	sand	80-90	40-42	>50	UNDEFINED
30	243.07	1.23	0.51	1.77	sand	80-90	40-42	47	UNDEFINED
31	192.84	0.93	0.48	1.83	sand	70-80	38-40	37	UNDEFINED
32	219.16	0.40	0.18	1.89	gravelly sand to sand	80-90	38-40	35	UNDEFINED
33	162.75	0.40	0.24	1.95	sand	70-80	36-38	31	UNDEFINED
34	148.29	0.27	0.18	1.99	sand	60-70	36-38	28	UNDEFINED
35	126.57	0.15	0.12	2.02	sand	60-70	34-36	24	UNDEFINED
36	138.65	0.25	0.18	2.04	sand	60-70	34-36	27	UNDEFINED
37	139.59	0.30	0.22	2.07	sand	60-70	34-36	27	UNDEFINED
38	130.56	0.32	0.25	2.10	sand	60-70	34-36	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	134.75	0.30	0.23	2.13	sand	60-70	34-36	26	UNDEFINED
40	147.57	0.30	0.20	2.16	sand	60-70	34-36	28	UNDEFINED
41	124.20	0.31	0.25	2.19	sand	60-70	34-36	24	UNDEFINED
42	126.81	0.37	0.29	2.22	sand	60-70	34-36	24	UNDEFINED
43	114.30	0.28	0.24	2.25	sand	50-60	32-34	22	UNDEFINED
44	110.59	0.33	0.30	2.28	sand	50-60	32-34	21	UNDEFINED
45	104.30	0.26	0.25	2.31	sand	50-60	32-34	20	UNDEFINED
46	94.41	0.27	0.28	2.34	sand	50-60	32-34	18	UNDEFINED
47	60.26	0.13	0.22	2.36	sand to silty sand	<40	<30	14	UNDEFINED
48	58.24	0.17	0.30	2.39	sand to silty sand	<40	<30	14	UNDEFINED
49	172.34	0.74	0.43	2.42	sand	60-70	36-38	33	UNDEFINED
50	190.71	0.66	0.35	2.45	sand	70-80	36-38	37	UNDEFINED
51	221.06	0.48	0.22	2.48	gravelly sand to sand	70-80	36-38	35	UNDEFINED
52	184.34	0.41	0.22	2.51	sand	70-80	36-38	35	UNDEFINED
53	184.72	0.24	0.13	2.53	sand	70-80	36-38	35	UNDEFINED
54	164.73	0.31	0.19	2.56	sand	60-70	34-36	32	UNDEFINED
55	150.74	0.32	0.21	2.59	sand	60-70	34-36	29	UNDEFINED
56	148.10	0.32	0.21	2.62	sand	60-70	34-36	28	UNDEFINED
57	216.87	0.43	0.20	2.65	gravelly sand to sand	70-80	36-38	35	UNDEFINED
58	155.24	0.46	0.29	2.68	sand	60-70	34-36	30	UNDEFINED
59	199.08	0.53	0.27	2.70	sand	70-80	36-38	38	UNDEFINED
60	149.48	0.48	0.32	2.73	sand	60-70	34-36	29	UNDEFINED
1	200.31	0.57	0.28	2.76	sand	70-80	36-38	38	UNDEFINED
62	201.81	0.77	0.38	2.79	sand	70-80	36-38	39	UNDEFINED
63	190.49	0.73	0.38	2.82	sand	70-80	34-36	36	UNDEFINED
64	185.91	0.63	0.34	2.85	sand	60-70	34-36	36	UNDEFINED
65	234.89	0.70	0.30	2.88	gravelly sand to sand	70-80	36-38	37	UNDEFINED
66	224.92	0.87	0.38	2.91	sand	70-80	36-38	43	UNDEFINED
67	171.38	0.47	0.28	2.94	sand	60-70	34-36	33	UNDEFINED
68	197.57	0.82	0.42	2.97	sand	70-80	34-36	38	UNDEFINED
69	169.76	0.65	0.39	3.00	sand	60-70	34-36	33	UNDEFINED
70	206.73	0.79	0.38	3.03	sand	70-80	34-36	40	UNDEFINED
71	157.27	0.47	0.30	3.05	sand	60-70	32-34	30	UNDEFINED
72	153.28	0.40	0.26	3.08	sand	60-70	32-34	29	UNDEFINED
73	154.97	0.40	0.26	3.11	sand	60-70	32-34	30	UNDEFINED
74	171.24	0.73	0.43	3.14	sand	60-70	34-36	33	UNDEFINED
75	170.04	0.50	0.30	3.17	sand	60-70	34-36	33	UNDEFINED
76	252.64	2.70	1.07	3.20	sand	70-80	36-38	48	UNDEFINED
77	214.72	1.27	0.59	3.22	sand	70-80	34-36	41	UNDEFINED
78	171.79	1.49	0.87	3.25	sand	60-70	34-36	33	UNDEFINED
79	211.40	0.98	0.46	3.28	sand	70-80	34-36	40	UNDEFINED
80	176.80	0.52	0.29	3.31	sand	60-70	34-36	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	148.67	0.15	0.10	3.34	sand	60-70	32-34	28	UNDEFINED
82	198.83	0.40	0.20	3.37	sand	60-70	34-36	38	UNDEFINED
83	285.57	0.68	0.24	3.39	gravelly sand to sand	70-80	36-38	46	UNDEFINED
84	229.13	0.50	0.22	3.42	gravelly sand to sand	70-80	34-36	37	UNDEFINED
85	186.60	0.78	0.42	3.46	sand	60-70	34-36	36	UNDEFINED
86	171.60	0.35	0.20	3.48	sand	60-70	32-34	33	UNDEFINED
87	179.42	0.61	0.34	3.51	sand	60-70	32-34	34	UNDEFINED
88	181.94	0.70	0.38	3.54	sand	60-70	32-34	35	UNDEFINED
89	133.41	0.90	0.67	3.57	sand	50-60	30-32	26	UNDEFINED
90	97.87	0.35	0.36	3.60	sand	40-50	<30	19	UNDEFINED
91	129.35	0.30	0.23	3.63	sand	50-60	30-32	25	UNDEFINED
92	120.25	0.27	0.22	3.66	sand	50-60	30-32	23	UNDEFINED
93	118.42	0.30	0.25	3.69	sand	50-60	30-32	23	UNDEFINED
94	125.81	0.46	0.36	3.71	sand	50-60	30-32	24	UNDEFINED
95	146.89	0.55	0.38	3.74	sand	50-60	32-34	28	UNDEFINED
96	216.05	1.38	0.64	3.77	sand	60-70	34-36	41	UNDEFINED
97	217.47	0.89	0.41	3.80	sand	60-70	34-36	42	UNDEFINED
98	199.39	1.07	0.53	3.83	sand	60-70	34-36	38	UNDEFINED
99	210.39	2.39	1.13	3.86	sand	60-70	34-36	40	UNDEFINED
100	246.60	1.66	0.67	3.88	sand	70-80	34-36	47	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-5
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 13:44
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	41.59	0.60	1.43	0.03	silty sand to sandy silt	>90	>48	13	UNDEFINED
2	80.29	0.66	0.82	0.09	sand to silty sand	>90	>48	19	UNDEFINED
3	79.11	0.66	0.83	0.15	sand to silty sand	80-90	46-48	19	UNDEFINED
4	29.67	0.81	2.72	0.22	sandy silt to clayey silt	UNDFND	UNDFD	11	2.3
5	93.64	0.64	0.68	0.28	sand to silty sand	80-90	44-46	22	UNDEFINED
6	118.52	0.78	0.66	0.33	sand	80-90	44-46	23	UNDEFINED
7	178.71	1.20	0.67	0.39	sand	>90	46-48	34	UNDEFINED
8	182.07	1.28	0.70	0.45	sand	>90	44-46	35	UNDEFINED
9	220.27	1.37	0.62	0.51	sand	>90	46-48	42	UNDEFINED
10	249.76	1.49	0.60	0.57	sand	>90	46-48	48	UNDEFINED
11	158.57	1.12	0.70	0.63	sand	80-90	42-44	30	UNDEFINED
12	143.48	0.82	0.57	0.69	sand	80-90	42-44	27	UNDEFINED
13	127.90	0.88	0.69	0.75	sand	70-80	40-42	25	UNDEFINED
14	161.59	1.08	0.67	0.81	sand	80-90	42-44	31	UNDEFINED
15	160.99	0.96	0.60	0.87	sand	80-90	40-42	31	UNDEFINED
16	161.60	0.99	0.61	0.93	sand	80-90	40-42	31	UNDEFINED
17	165.03	0.96	0.58	0.98	sand	80-90	40-42	32	UNDEFINED
18	133.93	0.89	0.67	1.04	sand	70-80	38-40	26	UNDEFINED
19	150.45	1.04	0.69	1.10	sand	70-80	40-42	29	UNDEFINED
20	133.87	0.98	0.73	1.16	sand	70-80	38-40	26	UNDEFINED
21	117.20	0.86	0.73	1.23	sand	60-70	36-38	22	UNDEFINED
22	138.11	0.92	0.67	1.29	sand	70-80	38-40	26	UNDEFINED
23	118.30	0.84	0.71	1.35	sand	60-70	36-38	23	UNDEFINED
24	119.60	0.82	0.69	1.41	sand	60-70	36-38	23	UNDEFINED
25	146.76	0.92	0.63	1.48	sand	70-80	38-40	28	UNDEFINED
26	198.18	1.19	0.60	1.54	sand	80-90	38-40	38	UNDEFINED
27	188.62	1.12	0.60	1.59	sand	70-80	38-40	36	UNDEFINED
28	169.59	1.24	0.73	1.65	sand	70-80	38-40	32	UNDEFINED
29	175.27	1.37	0.78	1.71	sand	70-80	38-40	34	UNDEFINED
30	166.74	1.09	0.65	1.77	sand	70-80	36-38	32	UNDEFINED
31	167.67	0.64	0.38	1.83	sand	70-80	36-38	32	UNDEFINED
32	121.47	0.65	0.54	1.89	sand	60-70	34-36	23	UNDEFINED
33	153.95	0.71	0.46	1.95	sand	60-70	36-38	29	UNDEFINED
34	178.96	0.93	0.52	1.99	sand	70-80	36-38	34	UNDEFINED
35	150.32	0.57	0.38	2.02	sand	60-70	36-38	29	UNDEFINED
36	127.25	0.62	0.49	2.04	sand	60-70	34-36	24	UNDEFINED
37	148.09	0.91	0.62	2.07	sand	60-70	36-38	28	UNDEFINED
38	150.50	0.48	0.32	2.10	sand	60-70	36-38	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

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PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	140.62	0.49	0.35	2.13	sand	60-70	34-36	27	UNDEFINED
40	139.26	0.51	0.37	2.16	sand	60-70	34-36	27	UNDEFINED
41	141.39	0.78	0.55	2.19	sand	60-70	34-36	27	UNDEFINED
42	143.02	0.86	0.60	2.22	sand	60-70	34-36	27	UNDEFINED
43	162.25	0.75	0.46	2.25	sand	60-70	36-38	31	UNDEFINED
44	155.59	0.68	0.43	2.28	sand	60-70	34-36	30	UNDEFINED
45	147.61	0.67	0.45	2.31	sand	60-70	34-36	28	UNDEFINED
46	147.88	0.71	0.48	2.34	sand	60-70	34-36	28	UNDEFINED
47	165.87	0.88	0.53	2.36	sand	60-70	36-38	32	UNDEFINED
48	203.14	0.91	0.45	2.39	sand	70-80	36-38	39	UNDEFINED
49	147.59	0.94	0.63	2.42	sand	60-70	34-36	28	UNDEFINED
50	140.46	0.87	0.62	2.45	sand	60-70	34-36	27	UNDEFINED
51	159.90	0.81	0.51	2.48	sand	60-70	34-36	31	UNDEFINED
52	123.98	0.63	0.51	2.51	sand	50-60	32-34	24	UNDEFINED
53	108.44	0.49	0.45	2.53	sand	50-60	32-34	21	UNDEFINED
54	134.30	0.74	0.55	2.56	sand	60-70	34-36	26	UNDEFINED
55	184.80	1.00	0.54	2.59	sand	70-80	36-38	35	UNDEFINED
56	151.81	0.84	0.56	2.62	sand	60-70	34-36	29	UNDEFINED
57	130.16	0.71	0.54	2.65	sand	60-70	32-34	25	UNDEFINED
58	121.53	0.62	0.51	2.68	sand	50-60	32-34	23	UNDEFINED
59	138.42	0.79	0.57	2.70	sand	60-70	32-34	27	UNDEFINED
60	160.28	0.96	0.60	2.73	sand	60-70	34-36	31	UNDEFINED
1	188.04	0.96	0.51	2.76	sand	70-80	34-36	36	UNDEFINED
62	163.35	0.83	0.51	2.79	sand	60-70	34-36	31	UNDEFINED
63	161.31	1.00	0.62	2.82	sand	60-70	34-36	31	UNDEFINED
64	148.25	0.92	0.62	2.85	sand	60-70	34-36	28	UNDEFINED
65	197.04	1.00	0.51	2.88	sand	70-80	34-36	38	UNDEFINED
66	185.64	1.09	0.59	2.91	sand	60-70	34-36	36	UNDEFINED
67	149.05	0.69	0.46	2.94	sand	60-70	32-34	29	UNDEFINED
68	165.87	1.00	0.60	2.97	sand	60-70	34-36	32	UNDEFINED
69	175.18	0.99	0.56	3.00	sand	60-70	34-36	34	UNDEFINED
70	120.96	0.34	0.28	3.03	sand	50-60	32-34	23	UNDEFINED
71	137.50	0.47	0.34	3.05	sand	50-60	32-34	26	UNDEFINED
72	172.05	1.60	0.93	3.08	sand	60-70	34-36	33	UNDEFINED
73	157.72	0.89	0.57	3.11	sand	60-70	32-34	30	UNDEFINED
74	148.66	0.46	0.31	3.14	sand	60-70	32-34	28	UNDEFINED
75	149.88	0.55	0.37	3.17	sand	60-70	32-34	29	UNDEFINED
76	153.68	0.47	0.31	3.20	sand	60-70	32-34	29	UNDEFINED
77	141.35	0.41	0.29	3.22	sand	50-60	32-34	27	UNDEFINED
78	173.24	1.03	0.60	3.25	sand	60-70	34-36	33	UNDEFINED
79	228.41	1.64	0.72	3.28	sand	70-80	34-36	44	UNDEFINED
80	216.76	0.81	0.37	3.31	sand	70-80	34-36	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	223.66	0.92	0.41	3.34	sand	70-80	34-36	43	UNDEFINED
82	203.68	0.81	0.40	3.37	sand	60-70	34-36	39	UNDEFINED
83	217.37	1.04	0.48	3.39	sand	70-80	34-36	42	UNDEFINED
84	181.36	0.44	0.24	3.42	sand	60-70	34-36	35	UNDEFINED
85	189.13	0.47	0.25	3.46	sand	60-70	34-36	36	UNDEFINED
86	244.23	0.97	0.40	3.48	gravelly sand to sand	70-80	36-38	39	UNDEFINED
87	254.42	1.44	0.57	3.51	sand	70-80	36-38	49	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-6
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 14:36
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	30.46	0.38	1.25	0.03	silty sand to sandy silt	80-90	>48	10	UNDEFINED
2	83.80	0.48	0.58	0.09	sand to silty sand	>90	>48	20	UNDEFINED
3	63.92	0.52	0.81	0.15	sand to silty sand	80-90	44-46	15	UNDEFINED
4	25.50	0.75	2.94	0.22	clayey silt to silty clay	UNDFND	UNDFD	12	2.0
5	18.79	0.48	2.58	0.28	clayey silt to silty clay	UNDFND	UNDFD	9	1.4
6	56.08	0.21	0.37	0.33	sand to silty sand	60-70	40-42	13	UNDEFINED
7	93.65	0.43	0.46	0.39	sand	70-80	42-44	18	UNDEFINED
8	144.56	0.64	0.44	0.45	sand	80-90	44-46	28	UNDEFINED
9	137.63	0.76	0.55	0.51	sand	80-90	42-44	26	UNDEFINED
10	123.65	0.56	0.45	0.57	sand	80-90	42-44	24	UNDEFINED
11	101.05	0.48	0.47	0.63	sand	70-80	40-42	19	UNDEFINED
12	95.12	0.32	0.34	0.69	sand	70-80	40-42	18	UNDEFINED
13	81.65	0.36	0.43	0.75	sand to silty sand	60-70	38-40	20	UNDEFINED
14	80.25	0.44	0.55	0.81	sand to silty sand	60-70	38-40	19	UNDEFINED
15	116.07	0.59	0.51	0.87	sand	70-80	38-40	22	UNDEFINED
16	127.69	0.51	0.40	0.93	sand	70-80	40-42	24	UNDEFINED
17	175.99	0.82	0.47	0.98	sand	80-90	40-42	34	UNDEFINED
18	200.85	0.98	0.49	1.04	sand	80-90	40-42	38	UNDEFINED
19	147.74	0.80	0.54	1.10	sand	70-80	38-40	28	UNDEFINED
20	169.08	0.88	0.52	1.16	sand	70-80	40-42	32	UNDEFINED
1	172.08	0.93	0.54	1.23	sand	70-80	40-42	33	UNDEFINED
2	187.01	0.97	0.52	1.29	sand	80-90	40-42	36	UNDEFINED
23	195.24	1.11	0.57	1.35	sand	80-90	40-42	37	UNDEFINED
24	204.37	1.43	0.70	1.41	sand	80-90	40-42	39	UNDEFINED
25	218.26	1.50	0.69	1.48	sand	80-90	40-42	42	UNDEFINED
26	155.17	1.00	0.64	1.54	sand	70-80	38-40	30	UNDEFINED
27	191.66	1.29	0.67	1.59	sand	70-80	38-40	37	UNDEFINED
28	264.42	1.63	0.62	1.65	sand	80-90	40-42	>50	UNDEFINED
29	265.58	1.58	0.60	1.71	sand	80-90	40-42	>50	UNDEFINED
30	276.76	1.55	0.56	1.77	sand	80-90	40-42	>50	UNDEFINED
31	198.67	0.89	0.45	1.83	sand	70-80	38-40	38	UNDEFINED
32	199.71	0.94	0.47	1.89	sand	70-80	38-40	38	UNDEFINED
33	129.74	0.56	0.43	1.95	sand	60-70	34-36	25	UNDEFINED
34	197.56	0.68	0.34	1.99	sand	70-80	38-40	38	UNDEFINED
35	152.92	0.60	0.39	2.02	sand	60-70	36-38	29	UNDEFINED
36	162.55	0.47	0.29	2.04	sand	70-80	36-38	31	UNDEFINED
37	186.52	0.66	0.35	2.07	sand	70-80	36-38	36	UNDEFINED
38	197.76	0.89	0.45	2.10	sand	70-80	36-38	38	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	194.29	0.60	0.31	2.13	sand	70-80	36-38	37	UNDEFINED
40	140.94	0.50	0.35	2.16	sand	60-70	34-36	27	UNDEFINED
41	145.00	0.45	0.31	2.19	sand	60-70	34-36	28	UNDEFINED
42	176.97	0.53	0.30	2.22	sand	70-80	36-38	34	UNDEFINED
43	196.76	0.57	0.29	2.25	sand	70-80	36-38	38	UNDEFINED
44	191.71	1.01	0.53	2.28	sand	70-80	36-38	37	UNDEFINED
45	170.71	0.55	0.32	2.31	sand	70-80	36-38	33	UNDEFINED
46	132.65	0.35	0.26	2.34	sand	60-70	34-36	25	UNDEFINED
47	136.06	0.37	0.27	2.36	sand	60-70	34-36	26	UNDEFINED
48	149.75	0.40	0.27	2.39	sand	60-70	34-36	29	UNDEFINED
49	148.10	0.48	0.32	2.42	sand	60-70	34-36	28	UNDEFINED
50	146.02	0.52	0.35	2.45	sand	60-70	34-36	28	UNDEFINED
51	129.26	0.42	0.32	2.48	sand	60-70	34-36	25	UNDEFINED
52	115.08	0.39	0.33	2.51	sand	50-60	32-34	22	UNDEFINED
53	106.75	0.32	0.30	2.53	sand	50-60	32-34	20	UNDEFINED
54	133.78	0.49	0.36	2.56	sand	60-70	34-36	26	UNDEFINED
55	171.94	0.69	0.40	2.59	sand	60-70	34-36	33	UNDEFINED
56	175.22	0.71	0.41	2.62	sand	60-70	34-36	34	UNDEFINED
57	164.05	0.54	0.33	2.65	sand	60-70	34-36	31	UNDEFINED
58	178.93	0.70	0.39	2.68	sand	60-70	34-36	34	UNDEFINED
59	207.83	0.80	0.38	2.70	sand	70-80	36-38	40	UNDEFINED
60	201.40	0.81	0.40	2.73	sand	70-80	36-38	39	UNDEFINED
61	148.83	0.46	0.31	2.76	sand	60-70	34-36	29	UNDEFINED
62	147.29	0.58	0.39	2.79	sand	60-70	34-36	28	UNDEFINED
63	128.29	0.56	0.44	2.82	sand	50-60	32-34	25	UNDEFINED
64	136.93	0.69	0.50	2.85	sand	60-70	32-34	26	UNDEFINED
65	143.99	0.82	0.57	2.88	sand	60-70	32-34	28	UNDEFINED
66	130.05	0.68	0.52	2.91	sand	50-60	32-34	25	UNDEFINED
67	119.42	0.57	0.48	2.94	sand	50-60	32-34	23	UNDEFINED
68	141.20	0.46	0.32	2.97	sand	60-70	32-34	27	UNDEFINED
69	124.42	0.42	0.34	3.00	sand	50-60	32-34	24	UNDEFINED
70	133.38	0.49	0.37	3.03	sand	50-60	32-34	26	UNDEFINED
71	170.00	0.91	0.54	3.05	sand	60-70	34-36	33	UNDEFINED
72	213.51	1.12	0.52	3.08	sand	70-80	34-36	41	UNDEFINED
73	208.09	1.15	0.55	3.11	sand	70-80	34-36	40	UNDEFINED
74	243.87	0.98	0.40	3.14	gravelly sand to sand	70-80	36-38	39	UNDEFINED
75	211.53	0.99	0.47	3.17	sand	70-80	34-36	41	UNDEFINED
76	216.43	0.71	0.33	3.20	sand	70-80	34-36	41	UNDEFINED
77	209.37	0.75	0.36	3.22	sand	70-80	34-36	40	UNDEFINED
78	201.07	0.87	0.43	3.25	sand	60-70	34-36	39	UNDEFINED
79	221.35	0.68	0.31	3.28	gravelly sand to sand	70-80	34-36	35	UNDEFINED
80	180.56	0.81	0.45	3.31	sand	60-70	34-36	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

---* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	211.55	1.36	0.64	3.34	sand	70-80	34-36	41	UNDEFINED
82	284.84	1.61	0.57	3.37	gravelly sand to sand	70-80	36-38	45	UNDEFINED
83	178.46	0.93	0.52	3.39	sand	60-70	34-36	34	UNDEFINED
84	133.66	0.62	0.46	3.42	sand	50-60	32-34	26	UNDEFINED
85	146.32	0.45	0.31	3.46	sand	50-60	32-34	28	UNDEFINED
86	179.59	0.57	0.32	3.48	sand	60-70	32-34	34	UNDEFINED
87	174.96	0.62	0.35	3.51	sand	60-70	32-34	34	UNDEFINED
88	150.97	0.51	0.34	3.54	sand	60-70	32-34	29	UNDEFINED
89	147.34	0.39	0.26	3.57	sand	50-60	32-34	28	UNDEFINED
90	136.32	0.35	0.26	3.60	sand	50-60	30-32	26	UNDEFINED
91	131.24	0.39	0.30	3.63	sand	50-60	30-32	25	UNDEFINED
92	120.82	0.41	0.34	3.66	sand	50-60	30-32	23	UNDEFINED
93	114.54	0.55	0.48	3.69	sand	50-60	30-32	22	UNDEFINED
94	113.04	1.30	1.15	3.71	sand to silty sand	50-60	30-32	27	UNDEFINED
95	187.80	1.89	1.00	3.74	sand	60-70	32-34	36	UNDEFINED
96	160.69	0.53	0.33	3.77	sand	60-70	32-34	31	UNDEFINED
97	183.13	0.69	0.37	3.80	sand	60-70	32-34	35	UNDEFINED
98	249.56	2.57	1.03	3.83	sand	70-80	34-36	48	UNDEFINED
99	234.12	0.80	0.34	3.86	gravelly sand to sand	70-80	34-36	37	UNDEFINED
100	149.51	0.46	0.31	3.88	sand	50-60	30-32	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-7
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:03:97 15:40
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	42.27	0.33	0.78	0.03	silty sand to sandy silt	>90	>48	13	UNDEFINED
2	57.64	1.36	2.36	0.09	sandy silt to clayey silt	UNDFND	UNDFD	22	4.6
3	43.16	1.39	3.21	0.15	clayey silt to silty clay	UNDFND	UNDFD	21	3.4
4	22.42	0.63	2.82	0.22	clayey silt to silty clay	UNDFND	UNDFD	11	1.7
5	61.37	0.95	1.55	0.28	silty sand to sandy silt	70-80	42-44	20	UNDEFINED
6	21.96	0.32	1.46	0.33	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
7	51.57	0.19	0.36	0.39	sand to silty sand	60-70	38-40	12	UNDEFINED
8	142.58	0.50	0.35	0.45	sand	80-90	44-46	27	UNDEFINED
9	118.96	0.59	0.49	0.51	sand	80-90	42-44	23	UNDEFINED
10	77.36	0.39	0.51	0.57	sand to silty sand	60-70	40-42	19	UNDEFINED
11	74.94	0.33	0.44	0.63	sand to silty sand	60-70	38-40	18	UNDEFINED
12	51.40	0.19	0.36	0.69	sand to silty sand	50-60	36-38	12	UNDEFINED
13	51.28	0.17	0.34	0.75	sand to silty sand	50-60	34-36	12	UNDEFINED
14	43.73	0.14	0.33	0.81	sand to silty sand	40-50	34-36	10	UNDEFINED
15	82.10	0.34	0.41	0.87	sand to silty sand	60-70	36-38	20	UNDEFINED
16	77.73	0.33	0.42	0.93	sand to silty sand	60-70	36-38	19	UNDEFINED
17	79.12	0.30	0.38	0.98	sand to silty sand	60-70	36-38	19	UNDEFINED
18	97.42	0.46	0.47	1.04	sand	60-70	36-38	19	UNDEFINED
19	110.08	0.44	0.40	1.10	sand	60-70	38-40	21	UNDEFINED
20	126.20	0.62	0.49	1.16	sand	70-80	38-40	24	UNDEFINED
21	183.14	1.01	0.55	1.23	sand	80-90	40-42	35	UNDEFINED
22	161.18	0.75	0.47	1.29	sand	70-80	38-40	31	UNDEFINED
23	230.04	1.29	0.56	1.35	sand	80-90	40-42	44	UNDEFINED
24	258.43	1.58	0.61	1.41	sand	80-90	40-42	50	UNDEFINED
25	231.49	1.27	0.55	1.48	sand	80-90	40-42	44	UNDEFINED
26	233.96	1.55	0.66	1.54	sand	80-90	40-42	45	UNDEFINED
27	224.96	1.40	0.62	1.59	sand	80-90	40-42	43	UNDEFINED
28	234.59	1.52	0.65	1.65	sand	80-90	40-42	45	UNDEFINED
29	254.10	1.76	0.69	1.71	sand	80-90	40-42	49	UNDEFINED
30	201.15	1.40	0.70	1.77	sand	70-80	38-40	39	UNDEFINED
31	192.01	0.99	0.51	1.83	sand	70-80	38-40	37	UNDEFINED
32	205.06	1.01	0.49	1.89	sand	70-80	38-40	39	UNDEFINED
33	222.35	1.38	0.62	1.95	sand	80-90	38-40	43	UNDEFINED
34	202.98	1.02	0.50	1.99	sand	70-80	38-40	39	UNDEFINED
35	229.44	0.94	0.41	2.02	sand	80-90	38-40	44	UNDEFINED
36	205.25	0.97	0.47	2.04	sand	70-80	38-40	39	UNDEFINED
37	198.81	0.71	0.36	2.07	sand	70-80	36-38	38	UNDEFINED
38	224.88	0.90	0.40	2.10	sand	70-80	38-40	43	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	209.73	0.98	0.47	2.13	sand	70-80	38-40	40	UNDEFINED
40	218.59	1.38	0.63	2.16	sand	70-80	38-40	42	UNDEFINED
41	267.65	1.60	0.60	2.19	sand	80-90	38-40	>50	UNDEFINED
42	264.90	1.11	0.42	2.22	gravelly sand to sand	80-90	38-40	42	UNDEFINED
43	232.44	0.61	0.26	2.25	gravelly sand to sand	70-80	38-40	37	UNDEFINED
44	209.51	0.56	0.27	2.28	sand	70-80	36-38	40	UNDEFINED
45	260.41	0.90	0.35	2.31	gravelly sand to sand	80-90	38-40	42	UNDEFINED
46	171.06	0.70	0.41	2.34	sand	60-70	36-38	33	UNDEFINED
47	179.21	0.67	0.37	2.36	sand	70-80	36-38	34	UNDEFINED
48	194.38	0.81	0.42	2.39	sand	70-80	36-38	37	UNDEFINED
49	145.68	0.80	0.55	2.42	sand	60-70	34-36	28	UNDEFINED
50	235.38	0.65	0.27	2.45	gravelly sand to sand	70-80	36-38	38	UNDEFINED
51	189.15	0.66	0.35	2.48	sand	70-80	36-38	36	UNDEFINED
52	170.17	0.66	0.39	2.51	sand	60-70	34-36	33	UNDEFINED
53	181.90	0.70	0.38	2.53	sand	70-80	36-38	35	UNDEFINED
54	165.27	0.60	0.36	2.56	sand	60-70	34-36	32	UNDEFINED
55	167.67	0.70	0.42	2.59	sand	60-70	34-36	32	UNDEFINED
56	219.76	1.10	0.50	2.62	sand	70-80	36-38	42	UNDEFINED
57	222.09	1.13	0.51	2.65	sand	70-80	36-38	43	UNDEFINED
58	183.15	0.95	0.52	2.68	sand	60-70	34-36	35	UNDEFINED
59	177.70	0.89	0.50	2.70	sand	60-70	34-36	34	UNDEFINED
60	233.84	1.06	0.45	2.73	sand	70-80	36-38	45	UNDEFINED
61	237.42	1.10	0.46	2.76	sand	70-80	36-38	45	UNDEFINED
62	248.39	1.01	0.40	2.79	gravelly sand to sand	70-80	36-38	40	UNDEFINED
63	237.72	0.84	0.35	2.82	gravelly sand to sand	70-80	36-38	38	UNDEFINED
64	173.23	0.77	0.44	2.85	sand	60-70	34-36	33	UNDEFINED
65	209.38	1.00	0.48	2.88	sand	70-80	36-38	40	UNDEFINED
66	176.79	1.19	0.67	2.91	sand	60-70	34-36	34	UNDEFINED
67	177.39	1.16	0.65	2.94	sand	60-70	34-36	34	UNDEFINED
68	135.12	0.77	0.57	2.97	sand	50-60	32-34	26	UNDEFINED
69	98.39	0.55	0.56	3.00	sand	50-60	30-32	19	UNDEFINED
70	97.89	0.46	0.47	3.03	sand	50-60	30-32	19	UNDEFINED
71	100.42	0.41	0.41	3.05	sand	50-60	30-32	19	UNDEFINED
72	104.26	0.43	0.41	3.08	sand	50-60	30-32	20	UNDEFINED
73	198.40	0.81	0.41	3.11	sand	70-80	34-36	38	UNDEFINED
74	281.17	1.08	0.39	3.14	gravelly sand to sand	70-80	36-38	45	UNDEFINED
75	238.99	1.16	0.49	3.17	sand	70-80	36-38	46	UNDEFINED
76	265.66	1.25	0.47	3.20	gravelly sand to sand	70-80	36-38	42	UNDEFINED
77	173.58	0.78	0.45	3.22	sand	60-70	34-36	33	UNDEFINED
78	126.58	0.47	0.38	3.25	sand	50-60	32-34	24	UNDEFINED
79	115.80	0.60	0.52	3.28	sand	50-60	30-32	22	UNDEFINED
80	132.48	0.70	0.53	3.31	sand	50-60	32-34	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	185.53	0.67	0.36	3.34	sand	60-70	34-36	36	UNDEFINED
82	189.02	0.58	0.31	3.37	sand	60-70	34-36	36	UNDEFINED
83	176.77	0.64	0.36	3.39	sand	60-70	34-36	34	UNDEFINED
84	166.37	0.62	0.37	3.42	sand	60-70	32-34	32	UNDEFINED
85	119.37	0.51	0.43	3.46	sand	50-60	30-32	23	UNDEFINED
86	142.28	0.73	0.52	3.48	sand	50-60	32-34	27	UNDEFINED
87	137.24	0.72	0.52	3.51	sand	50-60	32-34	26	UNDEFINED
88	148.14	0.59	0.40	3.54	sand	50-60	32-34	28	UNDEFINED
89	158.33	1.15	0.73	3.57	sand	60-70	32-34	30	UNDEFINED
90	159.00	0.74	0.46	3.60	sand	60-70	32-34	30	UNDEFINED
91	203.53	0.70	0.35	3.63	sand	60-70	34-36	39	UNDEFINED
92	239.86	0.76	0.32	3.66	gravelly sand to sand	70-80	34-36	38	UNDEFINED
93	170.61	1.64	0.96	3.69	sand	60-70	32-34	33	UNDEFINED
94	137.51	0.49	0.36	3.71	sand	50-60	30-32	26	UNDEFINED
95	173.14	0.74	0.43	3.74	sand	60-70	32-34	33	UNDEFINED
96	253.38	1.16	0.46	3.77	gravelly sand to sand	70-80	34-36	40	UNDEFINED
97	269.98	1.02	0.38	3.80	gravelly sand to sand	70-80	36-38	43	UNDEFINED
98	203.31	0.48	0.24	3.83	sand	60-70	34-36	39	UNDEFINED
99	176.66	0.41	0.23	3.86	sand	60-70	32-34	34	UNDEFINED
100	153.15	0.40	0.26	3.88	sand	50-60	32-34	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-8
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:04:97 07:43
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	16.02	0.18	1.11	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
2	57.53	0.61	1.06	0.09	silty sand to sandy silt	80-90	46-48	18	UNDEFINED
3	109.86	1.48	1.34	0.15	sand to silty sand	>90	>48	26	UNDEFINED
4	104.51	2.66	2.55	0.22	silty sand to sandy silt	80-90	46-48	33	UNDEFINED
5	76.69	0.88	1.14	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	45.78	0.56	1.23	0.33	silty sand to sandy silt	50-60	40-42	15	UNDEFINED
7	51.09	0.32	0.64	0.39	sand to silty sand	60-70	38-40	12	UNDEFINED
8	88.00	0.51	0.58	0.45	sand to silty sand	70-80	42-44	21	UNDEFINED
9	85.75	0.50	0.58	0.51	sand to silty sand	70-80	40-42	21	UNDEFINED
10	56.43	0.23	0.41	0.57	sand to silty sand	50-60	38-40	14	UNDEFINED
11	41.41	0.15	0.35	0.63	sand to silty sand	40-50	34-36	10	UNDEFINED
12	56.11	0.20	0.35	0.69	sand to silty sand	50-60	36-38	13	UNDEFINED
13	38.73	0.15	0.38	0.75	sand to silty sand	40-50	34-36	9	UNDEFINED
14	44.83	0.20	0.46	0.81	sand to silty sand	40-50	34-36	11	UNDEFINED
15	68.95	0.33	0.48	0.87	sand to silty sand	50-60	36-38	17	UNDEFINED
16	77.33	0.35	0.45	0.93	sand to silty sand	60-70	36-38	19	UNDEFINED
17	79.29	0.41	0.52	0.98	sand to silty sand	60-70	36-38	19	UNDEFINED
18	94.84	0.50	0.53	1.04	sand to silty sand	60-70	36-38	23	UNDEFINED
19	96.69	0.52	0.54	1.10	sand	60-70	36-38	19	UNDEFINED
20	98.05	0.54	0.55	1.16	sand	60-70	36-38	19	UNDEFINED
21	97.02	0.53	0.55	1.23	sand	60-70	36-38	19	UNDEFINED
22	140.09	0.71	0.51	1.29	sand	70-80	38-40	27	UNDEFINED
23	138.36	0.76	0.55	1.35	sand	70-80	38-40	27	UNDEFINED
24	133.23	0.74	0.56	1.41	sand	60-70	36-38	26	UNDEFINED
25	100.97	0.67	0.66	1.48	sand to silty sand	60-70	34-36	24	UNDEFINED
26	123.57	0.80	0.65	1.54	sand	60-70	36-38	24	UNDEFINED
27	145.35	1.03	0.71	1.59	sand	70-80	36-38	28	UNDEFINED
28	154.81	0.87	0.56	1.65	sand	70-80	36-38	30	UNDEFINED
29	179.54	1.13	0.63	1.71	sand	70-80	38-40	34	UNDEFINED
30	153.36	1.13	0.74	1.77	sand	70-80	36-38	29	UNDEFINED
31	135.26	0.85	0.63	1.83	sand	60-70	36-38	26	UNDEFINED
32	134.74	0.54	0.40	1.89	sand	60-70	36-38	26	UNDEFINED
33	128.91	0.62	0.48	1.95	sand	60-70	34-36	25	UNDEFINED
34	129.19	0.30	0.23	1.99	sand	60-70	34-36	25	UNDEFINED
35	105.11	0.26	0.25	2.02	sand	50-60	34-36	20	UNDEFINED
36	102.39	0.24	0.23	2.04	sand	50-60	32-34	20	UNDEFINED
37	145.37	0.29	0.20	2.07	sand	60-70	36-38	28	UNDEFINED
38	124.71	0.22	0.17	2.10	sand	60-70	34-36	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (reet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	147.67	0.35	0.24	2.13	sand	60-70	34-36	28	UNDEFINED
40	165.14	0.46	0.28	2.16	sand	70-80	36-38	32	UNDEFINED
41	162.49	0.38	0.24	2.19	sand	60-70	36-38	31	UNDEFINED
42	133.45	0.31	0.23	2.22	sand	60-70	34-36	26	UNDEFINED
43	153.84	0.35	0.23	2.25	sand	60-70	34-36	29	UNDEFINED
44	138.11	0.37	0.27	2.28	sand	60-70	34-36	26	UNDEFINED
45	118.62	0.31	0.26	2.31	sand	50-60	32-34	23	UNDEFINED
46	121.29	0.41	0.34	2.34	sand	60-70	34-36	23	UNDEFINED
47	159.37	0.55	0.34	2.36	sand	60-70	34-36	31	UNDEFINED
48	166.03	0.84	0.50	2.39	sand	60-70	34-36	32	UNDEFINED
49	156.59	0.40	0.26	2.42	sand	60-70	34-36	30	UNDEFINED
50	164.83	0.53	0.32	2.45	sand	60-70	34-36	32	UNDEFINED
51	161.22	0.57	0.36	2.48	sand	60-70	34-36	31	UNDEFINED
52	125.75	0.47	0.38	2.51	sand	60-70	32-34	24	UNDEFINED
53	179.05	0.68	0.38	2.53	sand	70-80	36-38	34	UNDEFINED
54	184.16	0.84	0.45	2.56	sand	70-80	36-38	35	UNDEFINED
55	189.55	0.80	0.42	2.59	sand	70-80	36-38	36	UNDEFINED
56	221.11	1.25	0.57	2.62	sand	70-80	36-38	42	UNDEFINED
57	284.82	2.26	0.79	2.65	sand	80-90	38-40	>50	UNDEFINED
58	226.45	1.28	0.56	2.68	sand	70-80	36-38	43	UNDEFINED
59	233.05	0.58	0.25	2.70	gravelly sand to sand	70-80	36-38	37	UNDEFINED
60	206.89	0.50	0.24	2.73	sand	70-80	36-38	40	UNDEFINED
61	195.41	0.47	0.24	2.76	sand	70-80	36-38	37	UNDEFINED
62	159.06	0.67	0.42	2.79	sand	60-70	34-36	30	UNDEFINED
63	215.64	1.00	0.46	2.82	sand	70-80	36-38	41	UNDEFINED
64	155.68	0.56	0.36	2.85	sand	60-70	34-36	30	UNDEFINED
65	160.61	0.50	0.31	2.88	sand	60-70	34-36	31	UNDEFINED
66	225.62	1.04	0.46	2.91	sand	70-80	36-38	43	UNDEFINED
67	208.56	0.56	0.27	2.94	sand	70-80	36-38	40	UNDEFINED
68	242.09	0.63	0.26	2.97	gravelly sand to sand	70-80	36-38	39	UNDEFINED
69	304.26	2.31	0.76	3.00	sand	80-90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-9
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 16:06
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	17.98	0.31	1.72	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
2	66.70	1.55	2.32	0.09	sandy silt to clayey silt	UNDFND	UNDFD	26	5.3
3	91.23	0.83	0.91	0.15	sand to silty sand	>90	46-48	22	UNDEFINED
4	48.28	0.57	1.19	0.22	silty sand to sandy silt	60-70	42-44	15	UNDEFINED
5	51.74	0.26	0.51	0.28	sand to silty sand	60-70	40-42	12	UNDEFINED
6	38.43	0.15	0.39	0.33	sand to silty sand	50-60	38-40	9	UNDEFINED
7	38.56	0.17	0.45	0.39	silty sand to sandy silt	50-60	38-40	12	UNDEFINED
8	61.82	0.33	0.53	0.45	sand to silty sand	60-70	40-42	15	UNDEFINED
9	59.27	0.31	0.52	0.51	sand to silty sand	60-70	38-40	14	UNDEFINED
10	33.98	0.16	0.47	0.57	silty sand to sandy silt	40-50	34-36	11	UNDEFINED
11	39.06	0.13	0.34	0.63	sand to silty sand	40-50	34-36	9	UNDEFINED
12	49.71	0.14	0.29	0.69	sand to silty sand	50-60	36-38	12	UNDEFINED
13	66.12	0.24	0.37	0.75	sand to silty sand	50-60	36-38	16	UNDEFINED
14	73.53	0.30	0.41	0.81	sand to silty sand	60-70	36-38	18	UNDEFINED
15	85.00	0.38	0.45	0.87	sand to silty sand	60-70	38-40	20	UNDEFINED
16	79.07	0.40	0.50	0.93	sand to silty sand	60-70	36-38	19	UNDEFINED
17	76.68	0.38	0.50	0.98	sand to silty sand	50-60	36-38	18	UNDEFINED
18	88.96	0.36	0.40	1.04	sand	60-70	36-38	17	UNDEFINED
19	91.26	0.41	0.44	1.10	sand	60-70	36-38	17	UNDEFINED
20	78.70	0.44	0.55	1.16	sand to silty sand	50-60	34-36	19	UNDEFINED
21	97.97	0.53	0.54	1.23	sand	60-70	36-38	19	UNDEFINED
22	104.40	0.62	0.59	1.29	sand	60-70	36-38	20	UNDEFINED
23	102.54	0.57	0.55	1.35	sand	60-70	36-38	20	UNDEFINED
24	133.19	0.58	0.43	1.41	sand	60-70	36-38	26	UNDEFINED
25	120.88	0.56	0.46	1.48	sand	60-70	36-38	23	UNDEFINED
26	127.42	0.54	0.43	1.54	sand	60-70	36-38	24	UNDEFINED
27	127.01	0.57	0.45	1.59	sand	60-70	36-38	24	UNDEFINED
28	132.30	0.68	0.51	1.65	sand	60-70	36-38	25	UNDEFINED
29	132.25	0.60	0.45	1.71	sand	60-70	36-38	25	UNDEFINED
30	119.16	0.55	0.46	1.77	sand	60-70	34-36	23	UNDEFINED
31	142.93	0.37	0.26	1.83	sand	60-70	36-38	27	UNDEFINED
32	169.42	0.58	0.35	1.89	sand	70-80	36-38	32	UNDEFINED
33	147.90	0.29	0.20	1.95	sand	60-70	36-38	28	UNDEFINED
34	138.65	0.34	0.24	1.99	sand	60-70	34-36	27	UNDEFINED
35	148.39	0.49	0.33	2.02	sand	60-70	36-38	28	UNDEFINED
36	132.50	0.41	0.31	2.04	sand	60-70	34-36	25	UNDEFINED
37	144.16	0.50	0.34	2.07	sand	60-70	34-36	28	UNDEFINED
38	128.77	0.41	0.32	2.10	sand	60-70	34-36	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	109.32	0.41	0.38	2.13	sand	50-60	32-34	21	UNDEFINED
40	103.24	0.40	0.39	2.16	sand	50-60	32-34	20	UNDEFINED
41	84.75	0.28	0.33	2.19	sand	50-60	32-34	16	UNDEFINED
42	87.93	0.29	0.33	2.22	sand	50-60	32-34	17	UNDEFINED
43	114.19	0.44	0.38	2.25	sand	50-60	32-34	22	UNDEFINED
44	127.01	0.41	0.32	2.28	sand	60-70	34-36	24	UNDEFINED
45	163.99	0.60	0.37	2.31	sand	60-70	36-38	31	UNDEFINED
46	177.30	0.73	0.41	2.34	sand	70-80	36-38	34	UNDEFINED
47	152.42	0.67	0.44	2.36	sand	60-70	34-36	29	UNDEFINED
48	129.25	0.59	0.45	2.39	sand	60-70	34-36	25	UNDEFINED
49	134.97	0.77	0.57	2.42	sand	60-70	34-36	26	UNDEFINED
50	141.77	0.86	0.60	2.45	sand	60-70	34-36	27	UNDEFINED
51	151.38	0.56	0.37	2.48	sand	60-70	34-36	29	UNDEFINED
52	162.18	0.69	0.43	2.51	sand	60-70	34-36	31	UNDEFINED
53	203.85	0.93	0.46	2.53	sand	70-80	36-38	39	UNDEFINED
54	172.63	0.52	0.30	2.56	sand	60-70	34-36	33	UNDEFINED
55	158.49	0.57	0.36	2.59	sand	60-70	34-36	30	UNDEFINED
56	172.32	0.96	0.56	2.62	sand	60-70	34-36	33	UNDEFINED
57	158.29	0.92	0.58	2.65	sand	60-70	34-36	30	UNDEFINED
58	155.17	0.91	0.59	2.68	sand	60-70	34-36	30	UNDEFINED
59	148.28	0.82	0.55	2.70	sand	60-70	34-36	28	UNDEFINED
60	177.30	0.87	0.49	2.73	sand	60-70	34-36	34	UNDEFINED
61	187.61	0.58	0.31	2.76	sand	70-80	34-36	36	UNDEFINED
62	173.26	0.48	0.28	2.79	sand	60-70	34-36	33	UNDEFINED
63	146.80	0.53	0.36	2.82	sand	60-70	34-36	28	UNDEFINED
64	177.53	0.90	0.51	2.85	sand	60-70	34-36	34	UNDEFINED
65	172.44	0.45	0.26	2.88	sand	60-70	34-36	33	UNDEFINED
66	146.74	0.39	0.27	2.91	sand	60-70	32-34	28	UNDEFINED
67	148.33	0.38	0.26	2.94	sand	60-70	32-34	28	UNDEFINED
68	177.53	0.52	0.29	2.97	sand	60-70	34-36	34	UNDEFINED
69	192.20	0.82	0.43	3.00	sand	60-70	34-36	37	UNDEFINED
70	188.10	0.74	0.39	3.03	sand	60-70	34-36	36	UNDEFINED
71	196.44	0.99	0.50	3.05	sand	70-80	34-36	38	UNDEFINED
72	179.45	1.03	0.57	3.08	sand	60-70	34-36	34	UNDEFINED
73	174.41	1.41	0.81	3.11	sand	60-70	34-36	33	UNDEFINED
74	149.80	0.58	0.39	3.14	sand	60-70	32-34	29	UNDEFINED
75	245.70	0.85	0.35	3.17	gravelly sand to sand	70-80	36-38	39	UNDEFINED
76	267.62	0.93	0.35	3.20	gravelly sand to sand	70-80	36-38	43	UNDEFINED
77	197.13	0.45	0.23	3.22	sand	60-70	34-36	38	UNDEFINED
78	191.79	0.43	0.22	3.25	sand	60-70	34-36	37	UNDEFINED
79	272.14	1.32	0.48	3.28	gravelly sand to sand	70-80	36-38	43	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-10
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:06:97 07:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	16.49	0.29	1.76	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.3
2	57.57	1.04	1.80	0.09	silty sand to sandy silt	80-90	46-48	18	UNDEFINED
3	68.85	1.30	1.89	0.15	silty sand to sandy silt	80-90	46-48	22	UNDEFINED
4	61.01	0.89	1.46	0.22	silty sand to sandy silt	70-80	42-44	19	UNDEFINED
5	103.20	0.64	0.62	0.28	sand	80-90	44-46	20	UNDEFINED
6	143.79	0.77	0.54	0.33	sand	>90	46-48	28	UNDEFINED
7	82.45	0.47	0.57	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	45.25	0.22	0.49	0.45	sand to silty sand	50-60	38-40	11	UNDEFINED
9	81.87	0.37	0.45	0.51	sand to silty sand	70-80	40-42	20	UNDEFINED
10	226.28	1.12	0.49	0.57	sand	>90	44-46	43	UNDEFINED
11	208.09	1.23	0.59	0.63	sand	>90	44-46	40	UNDEFINED
12	174.86	0.79	0.45	0.69	sand	80-90	42-44	33	UNDEFINED
13	133.02	0.66	0.49	0.75	sand	70-80	40-42	25	UNDEFINED
14	156.53	0.70	0.45	0.81	sand	80-90	42-44	30	UNDEFINED
15	157.56	0.72	0.46	0.87	sand	80-90	40-42	30	UNDEFINED
16	144.02	0.75	0.52	0.93	sand	70-80	40-42	28	UNDEFINED
17	167.88	0.79	0.47	0.98	sand	80-90	40-42	32	UNDEFINED
18	179.25	0.99	0.55	1.04	sand	80-90	40-42	34	UNDEFINED
19	212.50	0.88	0.41	1.10	sand	80-90	40-42	41	UNDEFINED
20	207.24	1.00	0.48	1.16	sand	80-90	40-42	40	UNDEFINED
21	171.33	0.82	0.48	1.23	sand	70-80	40-42	33	UNDEFINED
22	147.51	0.65	0.44	1.29	sand	70-80	38-40	28	UNDEFINED
23	185.56	0.91	0.49	1.35	sand	80-90	40-42	36	UNDEFINED
24	146.82	0.87	0.59	1.41	sand	70-80	38-40	28	UNDEFINED
25	102.46	0.56	0.54	1.48	sand	60-70	34-36	20	UNDEFINED
26	91.36	0.54	0.59	1.54	sand to silty sand	50-60	34-36	22	UNDEFINED
27	225.39	1.16	0.51	1.59	sand	80-90	40-42	43	UNDEFINED
28	288.40	1.52	0.53	1.65	gravelly sand to sand	80-90	40-42	46	UNDEFINED
29	309.97	1.52	0.49	1.71	gravelly sand to sand	>90	40-42	49	UNDEFINED
30	266.33	1.51	0.57	1.77	sand	80-90	40-42	>50	UNDEFINED
31	248.98	1.50	0.60	1.83	sand	80-90	40-42	48	UNDEFINED
32	192.82	0.93	0.48	1.89	sand	70-80	38-40	37	UNDEFINED
33	307.58	0.80	0.26	1.95	gravelly sand to sand	80-90	40-42	49	UNDEFINED
34	304.98	0.90	0.30	1.99	gravelly sand to sand	80-90	40-42	49	UNDEFINED
35	220.31	0.95	0.43	2.02	sand	70-80	38-40	42	UNDEFINED
36	230.27	0.55	0.24	2.04	gravelly sand to sand	80-90	38-40	37	UNDEFINED
37	183.80	0.57	0.31	2.07	sand	70-80	36-38	35	UNDEFINED
38	188.72	0.67	0.36	2.10	sand	70-80	36-38	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	111.50	0.40	0.36	2.13	sand	50-60	34-36	21	UNDEFINED
40	165.40	0.59	0.35	2.16	sand	70-80	36-38	32	UNDEFINED
41	207.86	0.92	0.44	2.19	sand	70-80	36-38	40	UNDEFINED
42	196.38	0.91	0.46	2.22	sand	70-80	36-38	38	UNDEFINED
43	144.00	0.54	0.37	2.25	sand	60-70	34-36	28	UNDEFINED
44	211.40	0.65	0.31	2.28	sand	70-80	36-38	40	UNDEFINED
45	230.30	0.78	0.34	2.31	gravelly sand to sand	70-80	38-40	37	UNDEFINED
46	167.68	0.49	0.29	2.34	sand	60-70	36-38	32	UNDEFINED
47	187.62	0.56	0.30	2.36	sand	70-80	36-38	36	UNDEFINED
48	224.74	0.88	0.39	2.39	sand	70-80	36-38	43	UNDEFINED
49	253.92	0.66	0.26	2.42	gravelly sand to sand	80-90	38-40	41	UNDEFINED
50	196.34	0.78	0.40	2.45	sand	70-80	36-38	38	UNDEFINED
51	225.92	0.93	0.41	2.48	sand	70-80	36-38	43	UNDEFINED
52	213.88	0.85	0.40	2.51	sand	70-80	36-38	41	UNDEFINED
53	192.06	0.62	0.32	2.53	sand	70-80	36-38	37	UNDEFINED
54	192.84	0.71	0.37	2.56	sand	70-80	36-38	37	UNDEFINED
55	235.04	0.85	0.36	2.59	gravelly sand to sand	70-80	36-38	38	UNDEFINED
56	238.80	1.24	0.52	2.62	sand	70-80	36-38	46	UNDEFINED
57	232.02	1.33	0.57	2.65	sand	70-80	36-38	44	UNDEFINED
58	279.46	1.10	0.40	2.68	gravelly sand to sand	80-90	38-40	45	UNDEFINED
59	257.92	0.96	0.37	2.70	gravelly sand to sand	70-80	36-38	41	UNDEFINED
60	273.69	1.21	0.44	2.73	gravelly sand to sand	80-90	38-40	44	UNDEFINED
61	245.52	0.90	0.37	2.76	gravelly sand to sand	70-80	36-38	39	UNDEFINED
62	249.43	0.88	0.35	2.79	gravelly sand to sand	70-80	36-38	40	UNDEFINED
63	144.33	0.45	0.31	2.82	sand	60-70	32-34	28	UNDEFINED
64	137.30	0.43	0.31	2.85	sand	60-70	32-34	26	UNDEFINED
65	191.57	0.70	0.37	2.88	sand	70-80	34-36	37	UNDEFINED
66	295.56	0.76	0.26	2.91	gravelly sand to sand	80-90	38-40	47	UNDEFINED
67	205.63	0.56	0.27	2.94	sand	70-80	34-36	39	UNDEFINED
68	267.42	0.55	0.21	2.97	gravelly sand to sand	70-80	36-38	43	UNDEFINED
69	242.95	0.93	0.38	3.00	gravelly sand to sand	70-80	36-38	39	UNDEFINED
70	239.31	1.15	0.48	3.03	sand	70-80	36-38	46	UNDEFINED
71	244.19	0.82	0.34	3.05	gravelly sand to sand	70-80	36-38	39	UNDEFINED
72	276.50	0.86	0.31	3.08	gravelly sand to sand	70-80	36-38	44	UNDEFINED
73	215.76	0.84	0.39	3.11	sand	70-80	34-36	41	UNDEFINED
74	189.57	0.91	0.48	3.14	sand	60-70	34-36	36	UNDEFINED
75	203.91	0.73	0.36	3.17	sand	70-80	34-36	39	UNDEFINED
76	194.68	0.55	0.28	3.20	sand	60-70	34-36	37	UNDEFINED
77	341.79	1.09	0.32	3.22	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
78	277.48	0.63	0.23	3.25	gravelly sand to sand	70-80	36-38	44	UNDEFINED
79	285.31	1.21	0.42	3.28	gravelly sand to sand	70-80	36-38	46	UNDEFINED
80	218.87	1.60	0.73	3.31	sand	70-80	34-36	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

- ** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.0

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	138.12	0.56	0.40	3.34	sand	50-60	32-34	26	UNDEFINED
82	191.25	1.22	0.64	3.37	sand	60-70	34-36	37	UNDEFINED
83	239.71	0.71	0.30	3.39	gravelly sand to sand	70-80	36-38	38	UNDEFINED
84	239.88	0.95	0.40	3.42	gravelly sand to sand	70-80	36-38	38	UNDEFINED
85	262.11	1.09	0.42	3.46	gravelly sand to sand	70-80	36-38	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W3-11
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 10:08
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	30.25	0.30	0.99	0.03	silty sand to sandy silt	80-90	>48	10	UNDEFINED
2	47.42	0.87	1.83	0.09	silty sand to sandy silt	80-90	46-48	15	UNDEFINED
3	87.22	1.02	1.17	0.15	sand to silty sand	80-90	46-48	21	UNDEFINED
4	27.30	0.27	0.97	0.22	silty sand to sandy silt	50-60	38-40	9	UNDEFINED
5	11.17	0.10	0.94	0.28	sandy silt to clayey silt	UNDFND	UNDFD	4	.8
6	10.85	0.08	0.72	0.33	sandy silt to clayey silt	UNDFND	UNDFD	4	.8
7	11.52	0.08	0.72	0.39	sandy silt to clayey silt	UNDFND	UNDFD	4	.8
8	22.98	0.13	0.55	0.45	silty sand to sandy silt	<40	32-34	7	UNDEFINED
9	64.76	0.40	0.62	0.51	sand to silty sand	60-70	38-40	16	UNDEFINED
10	94.68	0.47	0.49	0.57	sand	70-80	40-42	18	UNDEFINED
11	139.07	0.79	0.57	0.63	sand	80-90	42-44	27	UNDEFINED
12	172.34	0.76	0.44	0.69	sand	80-90	42-44	33	UNDEFINED
13	109.88	0.60	0.55	0.75	sand	70-80	40-42	21	UNDEFINED
14	63.15	0.38	0.61	0.81	sand to silty sand	50-60	36-38	15	UNDEFINED
15	76.79	0.32	0.42	0.87	sand to silty sand	60-70	36-38	18	UNDEFINED
16	69.87	0.35	0.50	0.93	sand to silty sand	50-60	36-38	17	UNDEFINED
17	74.93	0.41	0.55	0.98	sand to silty sand	50-60	36-38	18	UNDEFINED
18	91.87	0.54	0.59	1.04	sand to silty sand	60-70	36-38	22	UNDEFINED
19	95.09	0.48	0.51	1.10	sand	60-70	36-38	18	UNDEFINED
20	80.80	0.52	0.64	1.16	sand to silty sand	50-60	34-36	19	UNDEFINED
21	73.03	0.50	0.68	1.23	sand to silty sand	50-60	34-36	17	UNDEFINED
22	80.18	0.40	0.50	1.29	sand to silty sand	50-60	34-36	19	UNDEFINED
23	76.13	0.46	0.60	1.35	sand to silty sand	50-60	34-36	18	UNDEFINED
24	81.42	0.61	0.74	1.41	sand to silty sand	50-60	34-36	19	UNDEFINED
25	83.13	0.46	0.55	1.48	sand to silty sand	50-60	34-36	20	UNDEFINED
26	98.87	0.51	0.52	1.54	sand	60-70	34-36	19	UNDEFINED
27	96.29	0.51	0.53	1.59	sand	50-60	34-36	18	UNDEFINED
28	101.20	0.56	0.55	1.65	sand	50-60	34-36	19	UNDEFINED
29	134.89	0.61	0.45	1.71	sand	60-70	36-38	26	UNDEFINED
30	116.69	0.72	0.61	1.77	sand	60-70	34-36	22	UNDEFINED
31	106.02	0.77	0.72	1.83	sand to silty sand	50-60	34-36	25	UNDEFINED
32	94.39	0.43	0.46	1.89	sand	50-60	32-34	18	UNDEFINED
33	108.31	0.35	0.32	1.95	sand	50-60	34-36	21	UNDEFINED
34	92.85	0.43	0.46	1.99	sand	50-60	32-34	18	UNDEFINED
35	93.19	0.24	0.26	2.02	sand	50-60	32-34	18	UNDEFINED
36	72.44	0.37	0.51	2.04	sand to silty sand	40-50	30-32	17	UNDEFINED
37	75.63	0.43	0.57	2.07	sand to silty sand	40-50	30-32	18	UNDEFINED
38	72.95	0.42	0.58	2.10	sand to silty sand	40-50	30-32	17	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	75.49	0.43	0.57	2.13	sand to silty sand	40-50	30-32	18	UNDEFINED
40	75.83	0.30	0.40	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	104.68	0.34	0.32	2.19	sand	50-60	32-34	20	UNDEFINED
42	93.07	0.31	0.33	2.22	sand	50-60	32-34	18	UNDEFINED
43	96.45	0.45	0.47	2.25	sand	50-60	32-34	18	UNDEFINED
44	84.92	0.38	0.45	2.28	sand to silty sand	50-60	30-32	20	UNDEFINED
45	95.08	0.33	0.35	2.31	sand	50-60	32-34	18	UNDEFINED
46	122.45	0.40	0.32	2.34	sand	60-70	34-36	23	UNDEFINED
47	153.21	0.46	0.30	2.36	sand	60-70	34-36	29	UNDEFINED
48	142.29	0.57	0.40	2.39	sand	60-70	34-36	27	UNDEFINED
49	129.54	0.71	0.55	2.42	sand	60-70	34-36	25	UNDEFINED
50	139.64	0.85	0.61	2.45	sand	60-70	34-36	27	UNDEFINED
51	170.90	1.07	0.63	2.48	sand	60-70	34-36	33	UNDEFINED
52	182.99	0.82	0.45	2.51	sand	70-80	36-38	35	UNDEFINED
53	163.04	0.63	0.38	2.53	sand	60-70	34-36	31	UNDEFINED
54	141.23	0.46	0.33	2.56	sand	60-70	34-36	27	UNDEFINED
55	182.88	0.46	0.25	2.59	sand	70-80	36-38	35	UNDEFINED
56	161.47	0.39	0.24	2.62	sand	60-70	34-36	31	UNDEFINED
57	127.64	0.29	0.23	2.65	sand	50-60	32-34	24	UNDEFINED
58	173.03	0.42	0.24	2.68	sand	60-70	34-36	33	UNDEFINED
59	184.58	0.56	0.30	2.70	sand	60-70	34-36	35	UNDEFINED
60	166.99	0.69	0.41	2.73	sand	60-70	34-36	32	UNDEFINED
61	186.26	0.65	0.35	2.76	sand	60-70	34-36	36	UNDEFINED
62	178.70	0.73	0.41	2.79	sand	60-70	34-36	34	UNDEFINED
63	180.91	0.81	0.45	2.82	sand	60-70	34-36	35	UNDEFINED
64	189.45	0.96	0.51	2.85	sand	60-70	34-36	36	UNDEFINED
65	179.91	0.98	0.55	2.88	sand	60-70	34-36	34	UNDEFINED
66	174.45	0.84	0.48	2.91	sand	60-70	34-36	33	UNDEFINED
67	136.63	0.48	0.35	2.94	sand	60-70	32-34	26	UNDEFINED
68	57.44	0.28	0.48	2.97	sand to silty sand	<40	<30	14	UNDEFINED
69	102.66	0.33	0.32	3.00	sand	50-60	30-32	20	UNDEFINED
70	148.01	0.38	0.26	3.03	sand	60-70	32-34	28	UNDEFINED
71	176.45	0.69	0.39	3.05	sand	60-70	34-36	34	UNDEFINED
72	173.37	0.59	0.34	3.08	sand	60-70	34-36	33	UNDEFINED
73	207.19	0.91	0.44	3.11	sand	70-80	34-36	40	UNDEFINED
74	154.25	0.67	0.44	3.14	sand	60-70	32-34	30	UNDEFINED
75	141.08	0.51	0.37	3.17	sand	60-70	32-34	27	UNDEFINED
76	150.84	0.72	0.48	3.20	sand	60-70	32-34	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-12
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 13:54
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	19.67	0.17	0.86	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
2	28.53	0.19	0.65	0.09	silty sand to sandy silt	60-70	44-46	9	UNDEFINED
3	43.15	0.26	0.59	0.15	silty sand to sandy silt	60-70	42-44	14	UNDEFINED
4	22.80	0.30	1.30	0.22	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
5	18.10	0.10	0.58	0.28	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
6	17.21	0.09	0.51	0.33	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
7	21.19	0.11	0.53	0.39	silty sand to sandy silt	<40	34-36	7	UNDEFINED
8	24.95	0.14	0.55	0.45	silty sand to sandy silt	<40	34-36	8	UNDEFINED
9	22.47	0.14	0.60	0.51	silty sand to sandy silt	<40	32-34	7	UNDEFINED
10	58.25	0.37	0.64	0.57	sand to silty sand	50-60	38-40	14	UNDEFINED
11	95.31	0.46	0.48	0.63	sand	70-80	40-42	18	UNDEFINED
12	80.88	0.36	0.45	0.69	sand to silty sand	60-70	38-40	19	UNDEFINED
13	82.75	0.38	0.46	0.75	sand to silty sand	60-70	38-40	20	UNDEFINED
14	80.42	0.35	0.43	0.81	sand to silty sand	60-70	38-40	19	UNDEFINED
15	80.55	0.38	0.48	0.87	sand to silty sand	60-70	36-38	19	UNDEFINED
16	100.97	0.37	0.37	0.93	sand	60-70	38-40	19	UNDEFINED
17	96.55	0.44	0.46	0.98	sand	60-70	38-40	18	UNDEFINED
18	94.00	0.45	0.48	1.04	sand	60-70	36-38	18	UNDEFINED
19	97.55	0.35	0.36	1.10	sand	60-70	36-38	19	UNDEFINED
20	109.58	0.50	0.46	1.16	sand	60-70	36-38	21	UNDEFINED
21	104.75	0.52	0.50	1.23	sand	60-70	36-38	20	UNDEFINED
22	102.26	0.47	0.46	1.29	sand	60-70	36-38	20	UNDEFINED
23	123.04	0.56	0.45	1.35	sand	60-70	36-38	24	UNDEFINED
24	101.78	0.43	0.43	1.41	sand	60-70	36-38	19	UNDEFINED
25	93.40	0.34	0.36	1.48	sand	50-60	34-36	18	UNDEFINED
26	115.08	0.52	0.45	1.54	sand	60-70	36-38	22	UNDEFINED
27	123.39	0.57	0.46	1.59	sand	60-70	36-38	24	UNDEFINED
28	122.08	0.66	0.54	1.65	sand	60-70	36-38	23	UNDEFINED
29	114.70	0.42	0.36	1.71	sand	60-70	34-36	22	UNDEFINED
30	101.26	0.54	0.53	1.77	sand	50-60	34-36	19	UNDEFINED
31	104.83	0.52	0.50	1.83	sand	50-60	34-36	20	UNDEFINED
32	104.41	0.43	0.41	1.89	sand	50-60	34-36	20	UNDEFINED
33	103.87	0.36	0.35	1.95	sand	50-60	34-36	20	UNDEFINED
34	94.95	0.32	0.34	1.99	sand	50-60	32-34	18	UNDEFINED
35	82.83	0.29	0.35	2.02	sand to silty sand	50-60	32-34	20	UNDEFINED
36	69.93	0.26	0.37	2.04	sand to silty sand	40-50	30-32	17	UNDEFINED
37	65.98	0.15	0.22	2.07	sand to silty sand	40-50	30-32	16	UNDEFINED
38	85.86	0.22	0.26	2.10	sand	50-60	32-34	16	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	87.51	0.22	0.25	2.13	sand	50-60	32-34	17	UNDEFINED
40	102.17	0.47	0.46	2.16	sand	50-60	32-34	20	UNDEFINED
41	83.92	0.37	0.44	2.19	sand to silty sand	50-60	30-32	20	UNDEFINED
42	65.16	0.19	0.29	2.22	sand to silty sand	40-50	30-32	16	UNDEFINED
43	77.28	0.22	0.28	2.25	sand to silty sand	40-50	30-32	19	UNDEFINED
44	86.81	0.28	0.32	2.28	sand	50-60	30-32	17	UNDEFINED
45	80.47	0.30	0.37	2.31	sand to silty sand	40-50	30-32	19	UNDEFINED
46	80.66	0.24	0.29	2.34	sand to silty sand	40-50	30-32	19	UNDEFINED
47	76.26	0.20	0.26	2.36	sand to silty sand	40-50	30-32	18	UNDEFINED
48	84.57	0.23	0.27	2.39	sand	40-50	30-32	16	UNDEFINED
49	105.93	0.32	0.30	2.42	sand	50-60	32-34	20	UNDEFINED
50	125.36	0.42	0.34	2.45	sand	60-70	32-34	24	UNDEFINED
51	230.87	0.65	0.28	2.48	gravelly sand to sand	70-80	36-38	37	UNDEFINED
52	326.08	0.63	0.19	2.51	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
53	237.84	0.53	0.22	2.53	gravelly sand to sand	70-80	36-38	38	UNDEFINED
54	162.80	0.54	0.33	2.56	sand	60-70	34-36	31	UNDEFINED
55	156.55	0.51	0.32	2.59	sand	60-70	34-36	30	UNDEFINED
56	129.21	0.44	0.34	2.62	sand	60-70	32-34	25	UNDEFINED
57	122.77	0.42	0.34	2.65	sand	50-60	32-34	24	UNDEFINED
58	146.68	0.56	0.38	2.68	sand	60-70	34-36	28	UNDEFINED
59	163.27	0.67	0.41	2.70	sand	60-70	34-36	31	UNDEFINED
60	184.11	0.62	0.33	2.73	sand	60-70	34-36	35	UNDEFINED
61	126.96	0.38	0.30	2.76	sand	50-60	32-34	24	UNDEFINED
62	131.75	0.70	0.54	2.79	sand	50-60	32-34	25	UNDEFINED
63	107.35	0.78	0.73	2.82	sand to silty sand	50-60	30-32	26	UNDEFINED
64	160.04	0.55	0.34	2.85	sand	60-70	34-36	31	UNDEFINED
65	165.36	0.40	0.24	2.88	sand	60-70	34-36	32	UNDEFINED
66	132.48	0.50	0.38	2.91	sand	50-60	32-34	25	UNDEFINED
67	120.85	0.38	0.32	2.94	sand	50-60	32-34	23	UNDEFINED
68	123.67	0.44	0.36	2.97	sand	50-60	32-34	24	UNDEFINED
69	145.85	0.59	0.40	3.00	sand	60-70	32-34	28	UNDEFINED
70	180.95	0.70	0.39	3.03	sand	60-70	34-36	35	UNDEFINED
71	204.93	0.72	0.35	3.05	sand	70-80	34-36	39	UNDEFINED
72	170.46	0.54	0.32	3.08	sand	60-70	34-36	33	UNDEFINED
73	197.18	1.64	0.83	3.11	sand	60-70	34-36	38	UNDEFINED
74	180.51	0.68	0.38	3.14	sand	60-70	34-36	35	UNDEFINED
75	161.23	0.54	0.34	3.17	sand	60-70	32-34	31	UNDEFINED
76	166.60	1.03	0.62	3.20	sand	60-70	34-36	32	UNDEFINED
77	152.89	0.81	0.53	3.22	sand	60-70	32-34	29	UNDEFINED
78	163.65	0.85	0.52	3.25	sand	60-70	32-34	31	UNDEFINED
79	176.52	0.48	0.27	3.28	sand	60-70	34-36	34	UNDEFINED
80	168.37	0.80	0.47	3.31	sand	60-70	32-34	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) **

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	248.54	0.95	0.38	3.34	gravelly sand to sand	70-80	36-38	40	UNDEFINED
82	297.83	0.97	0.33	3.37	gravelly sand to sand	80-90	36-38	48	UNDEFINED
83	188.51	0.90	0.48	3.39	sand	60-70	34-36	36	UNDEFINED
84	228.63	1.74	0.76	3.42	sand	70-80	34-36	44	UNDEFINED
85	194.53	0.90	0.46	3.46	sand	60-70	34-36	37	UNDEFINED
86	184.18	0.71	0.39	3.48	sand	60-70	34-36	35	UNDEFINED
87	149.94	0.30	0.20	3.51	sand	60-70	32-34	29	UNDEFINED
88	138.73	0.35	0.25	3.54	sand	50-60	32-34	27	UNDEFINED
89	176.17	1.46	0.83	3.57	sand	60-70	32-34	34	UNDEFINED
90	195.30	1.27	0.65	3.60	sand	60-70	34-36	37	UNDEFINED
91	183.96	0.95	0.52	3.63	sand	60-70	32-34	35	UNDEFINED
92	186.20	0.87	0.46	3.66	sand	60-70	32-34	36	UNDEFINED
93	144.56	0.59	0.40	3.69	sand	50-60	32-34	28	UNDEFINED
94	158.68	0.86	0.54	3.71	sand	60-70	32-34	30	UNDEFINED
95	169.22	0.90	0.53	3.74	sand	60-70	32-34	32	UNDEFINED
96	105.98	2.43	2.30	3.77	silty sand to sandy silt	40-50	<30	34	UNDEFINED
97	54.10	0.72	1.34	3.80	silty sand to sandy silt	<40	<30	17	UNDEFINED
98	47.14	0.76	1.61	3.83	silty sand to sandy silt	<40	<30	15	UNDEFINED
99	62.58	1.28	2.05	3.86	silty sand to sandy silt	<40	<30	20	UNDEFINED
100	56.37	1.04	1.85	3.88	silty sand to sandy silt	<40	<30	18	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-13
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 14:56
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.88	0.45	3.27	0.03	silty clay to clay	UNDFND	UNDFD	9	1.1
2	76.06	1.30	1.71	0.09	silty sand to sandy silt	>90	>48	24	UNDEFINED
3	43.38	0.84	1.93	0.15	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
4	15.34	0.52	3.37	0.22	silty clay to clay	UNDFND	UNDFD	10	1.2
5	13.73	0.48	3.48	0.28	silty clay to clay	UNDFND	UNDFD	9	1.0
6	7.15	0.35	4.94	0.33	clay	UNDFND	UNDFD	7	.5
7	2.60	0.34	13.02	0.39	undefined	UNDFND	UNDFD	UDF	UNDEFINED
8	21.31	0.55	2.59	0.45	clayey silt to silty clay	UNDFND	UNDFD	10	1.6
9	53.94	0.89	1.66	0.51	silty sand to sandy silt	50-60	38-40	17	UNDEFINED
10	93.83	0.86	0.92	0.57	sand to silty sand	70-80	40-42	22	UNDEFINED
11	65.12	0.54	0.84	0.63	sand to silty sand	60-70	38-40	16	UNDEFINED
12	86.69	0.88	1.01	0.69	sand to silty sand	60-70	38-40	21	UNDEFINED
13	115.68	1.25	1.08	0.75	sand to silty sand	70-80	40-42	28	UNDEFINED
14	142.00	1.30	0.92	0.81	sand	70-80	40-42	27	UNDEFINED
15	142.11	1.51	1.06	0.87	sand to silty sand	70-80	40-42	34	UNDEFINED
16	113.09	1.59	1.41	0.93	sand to silty sand	70-80	38-40	27	UNDEFINED
17	178.57	1.75	0.98	0.98	sand	80-90	40-42	34	UNDEFINED
18	200.02	2.07	1.04	1.04	sand	80-90	40-42	38	UNDEFINED
19	158.87	1.80	1.13	1.10	sand to silty sand	70-80	40-42	38	UNDEFINED
20	121.32	1.34	1.10	1.16	sand to silty sand	70-80	38-40	29	UNDEFINED
21	121.36	1.33	1.10	1.23	sand to silty sand	60-70	38-40	29	UNDEFINED
22	111.43	1.47	1.32	1.29	sand to silty sand	60-70	36-38	27	UNDEFINED
23	151.40	1.50	0.99	1.35	sand	70-80	38-40	29	UNDEFINED
24	164.13	1.75	1.07	1.41	sand	70-80	38-40	31	UNDEFINED
25	109.14	1.51	1.39	1.48	sand to silty sand	60-70	36-38	26	UNDEFINED
26	134.63	1.86	1.38	1.54	sand to silty sand	60-70	36-38	32	UNDEFINED
27	153.52	2.59	1.69	1.59	sand to silty sand	70-80	36-38	37	UNDEFINED
28	155.45	2.10	1.35	1.65	sand to silty sand	70-80	36-38	37	UNDEFINED
29	194.18	2.59	1.33	1.71	sand to silty sand	70-80	38-40	47	UNDEFINED
30	228.75	2.42	1.06	1.77	sand	80-90	38-40	44	UNDEFINED
31	190.29	1.72	0.90	1.83	sand	70-80	38-40	36	UNDEFINED
32	177.41	1.74	0.98	1.89	sand	70-80	36-38	34	UNDEFINED
33	216.21	2.01	0.93	1.95	sand	70-80	38-40	41	UNDEFINED
34	206.30	1.99	0.97	1.99	sand	70-80	38-40	40	UNDEFINED
35	168.42	2.04	1.21	2.02	sand to silty sand	70-80	36-38	40	UNDEFINED
36	159.40	1.40	0.88	2.04	sand	60-70	36-38	31	UNDEFINED
37	152.22	1.05	0.69	2.07	sand	60-70	36-38	29	UNDEFINED
38	187.14	1.56	0.83	2.10	sand	70-80	36-38	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-13
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 14:56
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.88	0.45	3.27	0.03	silty clay to clay	UNDFND	UNDFD	9	1.1
2	76.06	1.30	1.71	0.09	silty sand to sandy silt	>90	>48	24	UNDEFINED
3	43.38	0.84	1.93	0.15	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
4	15.34	0.52	3.37	0.22	silty clay to clay	UNDFND	UNDFD	10	1.2
5	13.73	0.48	3.48	0.28	silty clay to clay	UNDFND	UNDFD	9	1.0
6	7.15	0.35	4.94	0.33	clay	UNDFND	UNDFD	7	.5
7	2.60	0.34	13.02	0.39	undefined	UNDFND	UNDFD	UDF	UNDEFINED
8	21.31	0.55	2.59	0.45	clayey silt to silty clay	UNDFND	UNDFD	10	1.6
9	53.94	0.89	1.66	0.51	silty sand to sandy silt	50-60	38-40	17	UNDEFINED
10	93.83	0.86	0.92	0.57	sand to silty sand	70-80	40-42	22	UNDEFINED
11	65.12	0.54	0.84	0.63	sand to silty sand	60-70	38-40	16	UNDEFINED
12	86.69	0.88	1.01	0.69	sand to silty sand	60-70	38-40	21	UNDEFINED
13	115.68	1.25	1.08	0.75	sand to silty sand	70-80	40-42	28	UNDEFINED
14	142.00	1.30	0.92	0.81	sand	70-80	40-42	27	UNDEFINED
15	142.11	1.51	1.06	0.87	sand to silty sand	70-80	40-42	34	UNDEFINED
16	113.09	1.59	1.41	0.93	sand to silty sand	70-80	38-40	27	UNDEFINED
17	178.57	1.75	0.98	0.98	sand	80-90	40-42	34	UNDEFINED
18	200.02	2.07	1.04	1.04	sand	80-90	40-42	38	UNDEFINED
19	158.87	1.80	1.13	1.10	sand to silty sand	70-80	40-42	38	UNDEFINED
20	121.32	1.34	1.10	1.16	sand to silty sand	70-80	38-40	29	UNDEFINED
21	121.36	1.33	1.10	1.23	sand to silty sand	60-70	38-40	29	UNDEFINED
22	111.43	1.47	1.32	1.29	sand to silty sand	60-70	36-38	27	UNDEFINED
23	151.40	1.50	0.99	1.35	sand	70-80	38-40	29	UNDEFINED
24	164.13	1.75	1.07	1.41	sand	70-80	38-40	31	UNDEFINED
25	109.14	1.51	1.39	1.48	sand to silty sand	60-70	36-38	26	UNDEFINED
26	134.63	1.86	1.38	1.54	sand to silty sand	60-70	36-38	32	UNDEFINED
27	153.52	2.59	1.69	1.59	sand to silty sand	70-80	36-38	37	UNDEFINED
28	155.45	2.10	1.35	1.65	sand to silty sand	70-80	36-38	37	UNDEFINED
29	194.18	2.59	1.33	1.71	sand to silty sand	70-80	38-40	47	UNDEFINED
30	228.75	2.42	1.06	1.77	sand	80-90	38-40	44	UNDEFINED
31	190.29	1.72	0.90	1.83	sand	70-80	38-40	36	UNDEFINED
32	177.41	1.74	0.98	1.89	sand	70-80	36-38	34	UNDEFINED
33	216.21	2.01	0.93	1.95	sand	70-80	38-40	41	UNDEFINED
34	206.30	1.99	0.97	1.99	sand	70-80	38-40	40	UNDEFINED
35	168.42	2.04	1.21	2.02	sand to silty sand	70-80	36-38	40	UNDEFINED
36	159.40	1.40	0.88	2.04	sand	60-70	36-38	31	UNDEFINED
37	152.22	1.05	0.69	2.07	sand	60-70	36-38	29	UNDEFINED
38	187.14	1.56	0.83	2.10	sand	70-80	36-38	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	181.50	2.06	1.14	2.13	sand	70-80	36-38	35	UNDEFINED
40	198.05	2.58	1.30	2.16	sand to silty sand	70-80	36-38	47	UNDEFINED
41	254.16	2.15	0.85	2.19	sand	80-90	38-40	49	UNDEFINED
42	215.68	2.10	0.97	2.22	sand	70-80	38-40	41	UNDEFINED
43	170.32	0.99	0.58	2.25	sand	70-80	36-38	33	UNDEFINED
44	128.84	0.97	0.75	2.28	sand	60-70	34-36	25	UNDEFINED
45	134.95	1.12	0.83	2.31	sand	60-70	34-36	26	UNDEFINED
46	179.74	1.95	1.08	2.34	sand	70-80	36-38	34	UNDEFINED
47	203.73	1.58	0.78	2.36	sand	70-80	36-38	39	UNDEFINED
48	180.65	1.80	0.99	2.39	sand	70-80	36-38	35	UNDEFINED
49	158.79	1.63	1.03	2.42	sand	60-70	34-36	30	UNDEFINED
50	204.47	1.88	0.92	2.45	sand	70-80	36-38	39	UNDEFINED
51	203.46	1.78	0.87	2.48	sand	70-80	36-38	39	UNDEFINED
52	168.20	1.85	1.10	2.51	sand	60-70	34-36	32	UNDEFINED
53	165.87	2.02	1.22	2.53	sand to silty sand	60-70	34-36	40	UNDEFINED
54	176.07	2.31	1.31	2.56	sand to silty sand	60-70	34-36	42	UNDEFINED
55	167.69	2.14	1.27	2.59	sand to silty sand	60-70	34-36	40	UNDEFINED
56	152.97	1.61	1.05	2.62	sand	60-70	34-36	29	UNDEFINED
57	153.87	1.57	1.02	2.65	sand	60-70	34-36	29	UNDEFINED
58	175.07	2.16	1.24	2.68	sand to silty sand	60-70	34-36	42	UNDEFINED
59	248.12	3.57	1.44	2.70	sand to silty sand	70-80	36-38	>50	UNDEFINED
60	256.96	3.52	1.37	2.73	sand	70-80	36-38	49	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-14B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 11:39
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	8.64	0.00	0.00	0.03	undefined	UNDFND	UNDFD	UDF	UNDEFINED
2	41.72	0.04	0.08	0.09	sand to silty sand	70-80	46-48	10	UNDEFINED
3	80.82	0.26	0.32	0.15	sand to silty sand	80-90	46-48	19	UNDEFINED
4	69.49	0.20	0.29	0.22	sand to silty sand	70-80	44-46	17	UNDEFINED
5	80.18	1.25	1.56	0.28	silty sand to sandy silt	70-80	44-46	26	UNDEFINED
6	108.85	0.68	0.63	0.33	sand	80-90	44-46	21	UNDEFINED
7	119.83	0.93	0.78	0.39	sand	80-90	44-46	23	UNDEFINED
8	44.75	0.28	0.63	0.45	sand to silty sand	50-60	38-40	11	UNDEFINED
9	30.49	0.14	0.46	0.51	silty sand to sandy silt	40-50	34-36	10	UNDEFINED
10	147.48	0.94	0.64	0.57	sand	80-90	42-44	28	UNDEFINED
11	190.71	1.59	0.83	0.63	sand	>90	44-46	37	UNDEFINED
12	56.61	0.35	0.62	0.69	sand to silty sand	50-60	36-38	14	UNDEFINED
13	60.21	1.41	2.35	0.75	sandy silt to clayey silt	UNDFND	UNDFD	23	4.7
14	36.80	0.25	0.69	0.81	silty sand to sandy silt	40-50	32-34	12	UNDEFINED
15	37.66	0.17	0.46	0.87	silty sand to sandy silt	40-50	32-34	12	UNDEFINED
16	26.94	0.09	0.35	0.93	silty sand to sandy silt	<40	<30	9	UNDEFINED
17	33.32	0.11	0.34	0.98	silty sand to sandy silt	<40	30-32	11	UNDEFINED
18	22.10	0.07	0.30	1.04	silty sand to sandy silt	<40	<30	7	UNDEFINED
19	19.59	0.02	0.11	1.10	silty sand to sandy silt	<40	<30	6	UNDEFINED
20	28.55	0.07	0.23	1.16	silty sand to sandy silt	<40	<30	9	UNDEFINED
21	24.20	0.06	0.23	1.23	silty sand to sandy silt	<40	<30	8	UNDEFINED
22	35.62	0.17	0.48	1.29	silty sand to sandy silt	<40	<30	11	UNDEFINED
23	77.54	0.77	1.00	1.35	sand to silty sand	50-60	34-36	19	UNDEFINED
24	76.35	0.70	0.92	1.41	sand to silty sand	50-60	34-36	18	UNDEFINED
25	68.24	0.25	0.36	1.48	sand to silty sand	50-60	32-34	16	UNDEFINED
26	48.70	0.18	0.37	1.54	sand to silty sand	<40	30-32	12	UNDEFINED
27	54.20	0.64	1.19	1.59	silty sand to sandy silt	40-50	30-32	17	UNDEFINED
28	34.83	0.46	1.32	1.65	silty sand to sandy silt	<40	<30	11	UNDEFINED
29	61.87	1.32	2.14	1.71	silty sand to sandy silt	40-50	30-32	20	UNDEFINED
30	27.50	0.41	1.48	1.77	sandy silt to clayey silt	UNDFND	UNDFD	11	2.0
31	9.41	0.06	0.67	1.83	sandy silt to clayey silt	UNDFND	UNDFD	4	.6
32	5.66	0.09	1.62	1.89	sensitive fine grained	UNDFND	UNDFD	3	.3
33	12.64	0.25	1.95	1.95	clayey silt to silty clay	UNDFND	UNDFD	6	.8
34	54.39	0.16	0.29	1.99	sand to silty sand	<40	<30	13	UNDEFINED
35	102.57	0.34	0.33	2.02	sand	50-60	32-34	20	UNDEFINED
36	83.79	0.19	0.23	2.04	sand	50-60	32-34	16	UNDEFINED
37	72.33	0.20	0.27	2.07	sand to silty sand	40-50	30-32	17	UNDEFINED
38	48.26	0.49	1.02	2.10	silty sand to sandy silt	<40	<30	15	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	15.61	0.09	0.56	2.13	sandy silt to clayey silt	UNDFND	UNDFD	6	1.0
40	49.93	0.46	0.92	2.16	silty sand to sandy silt	<40	<30	16	UNDEFINED
41	40.72	0.66	1.62	2.19	silty sand to sandy silt	<40	<30	13	UNDEFINED
42	84.02	0.52	0.62	2.22	sand to silty sand	50-60	30-32	20	UNDEFINED
43	89.35	0.31	0.35	2.25	sand	50-60	32-34	17	UNDEFINED
44	85.78	0.22	0.26	2.28	sand	50-60	30-32	16	UNDEFINED
45	79.96	0.21	0.26	2.31	sand to silty sand	40-50	30-32	19	UNDEFINED
46	91.51	0.23	0.25	2.34	sand	50-60	32-34	18	UNDEFINED
47	98.02	0.23	0.23	2.36	sand	50-60	32-34	19	UNDEFINED
48	97.47	0.21	0.21	2.39	sand	50-60	32-34	19	UNDEFINED
49	100.60	0.20	0.20	2.42	sand	50-60	32-34	19	UNDEFINED
50	104.85	0.40	0.38	2.45	sand	50-60	32-34	20	UNDEFINED
51	93.21	0.28	0.30	2.48	sand	50-60	30-32	18	UNDEFINED
52	99.35	0.26	0.26	2.51	sand	50-60	32-34	19	UNDEFINED
53	113.11	0.29	0.25	2.53	sand	50-60	32-34	22	UNDEFINED
54	80.77	0.22	0.28	2.56	sand to silty sand	40-50	30-32	19	UNDEFINED
55	72.67	0.22	0.31	2.59	sand to silty sand	40-50	<30	17	UNDEFINED
56	90.48	0.29	0.32	2.62	sand	40-50	30-32	17	UNDEFINED
57	100.45	0.12	0.12	2.65	sand	50-60	30-32	19	UNDEFINED
58	120.71	0.36	0.30	2.68	sand	50-60	32-34	23	UNDEFINED
59	95.61	0.41	0.43	2.70	sand	50-60	30-32	18	UNDEFINED
60	91.02	0.35	0.39	2.73	sand	40-50	30-32	17	UNDEFINED
61	79.64	0.28	0.35	2.76	sand to silty sand	40-50	<30	19	UNDEFINED
62	80.68	0.25	0.31	2.79	sand to silty sand	40-50	<30	19	UNDEFINED
63	79.84	0.24	0.30	2.82	sand to silty sand	40-50	<30	19	UNDEFINED
64	79.45	0.24	0.30	2.85	sand to silty sand	40-50	<30	19	UNDEFINED
65	104.66	0.27	0.26	2.88	sand	50-60	30-32	20	UNDEFINED
66	86.41	0.26	0.30	2.91	sand	40-50	30-32	17	UNDEFINED
67	83.60	0.20	0.24	2.94	sand	40-50	<30	16	UNDEFINED
68	115.14	0.32	0.28	2.97	sand	50-60	32-34	22	UNDEFINED
69	144.68	1.17	0.81	3.00	sand	60-70	32-34	28	UNDEFINED
70	83.50	0.23	0.28	3.03	sand	40-50	<30	16	UNDEFINED
71	113.82	0.21	0.18	3.05	sand	50-60	30-32	22	UNDEFINED
72	133.22	0.25	0.19	3.08	sand	50-60	32-34	26	UNDEFINED
73	135.47	0.36	0.26	3.11	sand	50-60	32-34	26	UNDEFINED
74	128.18	0.97	0.76	3.14	sand	50-60	32-34	25	UNDEFINED
75	113.02	0.25	0.22	3.17	sand	50-60	30-32	22	UNDEFINED
76	112.27	0.18	0.16	3.20	sand	50-60	30-32	22	UNDEFINED
77	120.90	0.31	0.26	3.22	sand	50-60	30-32	23	UNDEFINED
78	121.74	0.38	0.31	3.25	sand	50-60	30-32	23	UNDEFINED
79	171.96	1.07	0.62	3.28	sand	60-70	34-36	33	UNDEFINED
80	192.14	0.62	0.32	3.31	sand	60-70	34-36	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ***

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	205.81	0.75	0.37	3.34	sand	70-80	34-36	39	UNDEFINED
82	244.91	1.01	0.41	3.37	gravelly sand to sand	70-80	36-38	39	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-14
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 11:01
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	24.45	0.15	0.60	0.03	silty sand to sandy silt	70-80	>48	8	UNDEFINED
2	82.47	0.42	0.51	0.09	sand to silty sand	>90	>48	20	UNDEFINED
3	83.26	0.67	0.80	0.15	sand to silty sand	80-90	46-48	20	UNDEFINED
4	128.79	0.63	0.49	0.22	sand	>90	46-48	25	UNDEFINED
5	144.02	1.26	0.87	0.28	sand	>90	46-48	28	UNDEFINED
6	101.95	0.86	0.85	0.33	sand to silty sand	80-90	44-46	24	UNDEFINED
7	210.82	1.38	0.65	0.39	sand	>90	46-48	40	UNDEFINED
8	178.42	2.21	1.24	0.45	sand to silty sand	>90	44-46	43	UNDEFINED
9	170.33	1.38	0.81	0.51	sand	>90	44-46	33	UNDEFINED
10	232.49	2.35	1.01	0.57	sand	>90	44-46	45	UNDEFINED
11	124.00	1.65	1.33	0.63	sand to silty sand	70-80	42-44	30	UNDEFINED
12	76.65	0.57	0.74	0.69	sand to silty sand	60-70	38-40	18	UNDEFINED
13	72.26	1.28	1.77	0.75	silty sand to sandy silt	60-70	38-40	23	UNDEFINED
14	46.68	0.31	0.67	0.81	sand to silty sand	40-50	34-36	11	UNDEFINED
15	42.19	0.33	0.78	0.87	silty sand to sandy silt	40-50	32-34	13	UNDEFINED
16	44.93	0.24	0.53	0.93	sand to silty sand	40-50	32-34	11	UNDEFINED
17	38.42	0.26	0.69	0.98	silty sand to sandy silt	<40	32-34	12	UNDEFINED
18	56.42	0.37	0.66	1.04	sand to silty sand	40-50	34-36	14	UNDEFINED
19	62.21	0.74	1.19	1.10	silty sand to sandy silt	50-60	34-36	20	UNDEFINED
20	44.33	0.53	1.20	1.16	silty sand to sandy silt	40-50	30-32	14	UNDEFINED
1	141.04	1.04	0.74	1.23	sand	70-80	38-40	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W3-14A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:05:97 11:20
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	12.82	0.00	0.03	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
2	50.32	0.25	0.50	0.09	sand to silty sand	80-90	46-48	12	UNDEFINED
3	84.24	0.48	0.57	0.15	sand to silty sand	80-90	46-48	20	UNDEFINED
4	142.65	0.52	0.36	0.22	sand	>90	46-48	27	UNDEFINED
5	201.26	1.26	0.63	0.28	sand	>90	>48	39	UNDEFINED
6	248.69	1.93	0.78	0.33	sand	>90	>48	48	UNDEFINED
7	156.67	1.02	0.65	0.39	sand	>90	44-46	30	UNDEFINED
8	25.98	0.23	0.90	0.45	silty sand to sandy silt	<40	34-36	8	UNDEFINED
9	129.97	0.79	0.61	0.51	sand	80-90	42-44	25	UNDEFINED
10	352.76	3.02	0.86	0.57	sand	>90	46-48	>50	UNDEFINED
11	232.89	2.22	0.95	0.63	sand	>90	44-46	45	UNDEFINED
12	128.91	1.36	1.05	0.69	sand to silty sand	70-80	40-42	31	UNDEFINED
13	49.74	0.54	1.10	0.75	silty sand to sandy silt	50-60	34-36	16	UNDEFINED
14	54.85	0.55	1.01	0.81	silty sand to sandy silt	50-60	34-36	18	UNDEFINED
15	40.89	0.29	0.72	0.87	silty sand to sandy silt	40-50	32-34	13	UNDEFINED
16	28.67	0.39	1.35	0.93	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
17	25.09	0.02	0.08	0.98	silty sand to sandy silt	<40	<30	8	UNDEFINED
18	46.68	0.26	0.55	1.04	sand to silty sand	40-50	32-34	11	UNDEFINED
19	64.97	0.31	0.48	1.10	sand to silty sand	50-60	34-36	16	UNDEFINED
20	186.80	2.65	1.42	1.16	sand to silty sand	80-90	40-42	45	UNDEFINED
21	111.69	3.39	3.04	1.23	sandy silt to clayey silt	UNDFND	UNDFD	43	8.8
22	108.55	2.26	2.08	1.29	silty sand to sandy silt	60-70	36-38	35	UNDEFINED
23	162.06	3.03	1.87	1.35	sand to silty sand	70-80	38-40	39	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-15
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 15:17
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	11.84	0.01	0.08	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	.9
2	29.15	0.18	0.63	0.09	silty sand to sandy silt	60-70	44-46	9	UNDEFINED
3	34.98	0.12	0.36	0.15	silty sand to sandy silt	60-70	42-44	11	UNDEFINED
4	25.70	0.06	0.25	0.22	silty sand to sandy silt	40-50	38-40	8	UNDEFINED
5	15.43	0.05	0.35	0.28	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
6	67.84	0.35	0.51	0.33	sand to silty sand	70-80	42-44	16	UNDEFINED
7	81.20	0.75	0.92	0.39	sand to silty sand	70-80	42-44	19	UNDEFINED
8	76.07	0.35	0.46	0.45	sand to silty sand	70-80	40-42	18	UNDEFINED
9	75.92	0.53	0.70	0.51	sand to silty sand	60-70	40-42	18	UNDEFINED
10	69.78	0.96	1.38	0.57	silty sand to sandy silt	60-70	38-40	22	UNDEFINED
11	119.40	0.67	0.56	0.63	sand	70-80	40-42	23	UNDEFINED
12	50.34	0.68	1.35	0.69	silty sand to sandy silt	50-60	36-38	16	UNDEFINED
13	38.23	0.23	0.59	0.75	silty sand to sandy silt	40-50	32-34	12	UNDEFINED
14	28.69	0.13	0.47	0.81	silty sand to sandy silt	<40	30-32	9	UNDEFINED
15	17.32	0.01	0.06	0.87	silty sand to sandy silt	<40	<30	6	UNDEFINED
16	6.42	-0.02	-0.26	0.93	undefined	UNDFND	UNDFD	UDF	UNDEFINED
17	6.25	-0.02	-0.29	0.98	undefined	UNDFND	UNDFD	UDF	UNDEFINED
18	14.57	0.02	0.14	1.04	sandy silt to clayey silt	UNDFND	UNDFD	6	1.0
19	29.87	0.50	1.66	1.10	sandy silt to clayey silt	UNDFND	UNDFD	11	2.3
20	31.83	0.25	0.77	1.16	silty sand to sandy silt	<40	<30	10	UNDEFINED
21	66.56	2.53	3.81	1.23	clayey silt to silty clay	UNDFND	UNDFD	32	5.2
22	32.68	0.29	0.88	1.29	silty sand to sandy silt	<40	<30	10	UNDEFINED
23	61.17	0.90	1.47	1.35	silty sand to sandy silt	40-50	32-34	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-15B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 15:42
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	16.65	0.00	0.02	0.03	silty sand to sandy silt	60-70	46-48	5	UNDEFINED
2	29.16	0.06	0.20	0.09	silty sand to sandy silt	60-70	44-46	9	UNDEFINED
3	35.21	0.09	0.26	0.15	silty sand to sandy silt	60-70	42-44	11	UNDEFINED
4	24.90	0.06	0.23	0.22	silty sand to sandy silt	40-50	38-40	8	UNDEFINED
5	60.90	1.26	2.07	0.28	silty sand to sandy silt	70-80	42-44	19	UNDEFINED
6	118.72	1.30	1.10	0.33	sand to silty sand	80-90	44-46	28	UNDEFINED
7	88.03	0.86	0.97	0.39	sand to silty sand	70-80	42-44	21	UNDEFINED
8	84.67	0.53	0.62	0.45	sand to silty sand	70-80	40-42	20	UNDEFINED
9	90.29	0.55	0.61	0.51	sand to silty sand	70-80	40-42	22	UNDEFINED
10	88.88	0.59	0.66	0.57	sand to silty sand	70-80	40-42	21	UNDEFINED
11	79.60	0.55	0.70	0.63	sand to silty sand	60-70	38-40	19	UNDEFINED
12	64.98	0.46	0.71	0.69	sand to silty sand	50-60	36-38	16	UNDEFINED
13	42.66	0.32	0.75	0.75	silty sand to sandy silt	40-50	34-36	14	UNDEFINED
14	44.23	0.55	1.24	0.81	silty sand to sandy silt	40-50	34-36	14	UNDEFINED
15	87.74	0.62	0.70	0.87	sand to silty sand	60-70	38-40	21	UNDEFINED
16	32.49	0.25	0.76	0.93	silty sand to sandy silt	<40	30-32	10	UNDEFINED
17	34.76	0.37	1.07	0.98	silty sand to sandy silt	<40	30-32	11	UNDEFINED
18	60.75	1.08	1.78	1.04	silty sand to sandy silt	50-60	34-36	19	UNDEFINED
19	99.81	2.16	2.16	1.10	silty sand to sandy silt	60-70	36-38	32	UNDEFINED
20	41.53	0.40	0.96	1.16	silty sand to sandy silt	<40	30-32	13	UNDEFINED
21	45.80	0.37	0.81	1.23	silty sand to sandy silt	40-50	30-32	15	UNDEFINED
22	45.93	0.35	0.77	1.29	silty sand to sandy silt	40-50	30-32	15	UNDEFINED
23	37.26	0.35	0.93	1.35	silty sand to sandy silt	<40	<30	12	UNDEFINED
24	23.09	0.25	1.10	1.41	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
25	31.00	0.16	0.52	1.48	silty sand to sandy silt	<40	<30	10	UNDEFINED
26	48.02	0.44	0.93	1.54	silty sand to sandy silt	<40	30-32	15	UNDEFINED
27	77.29	0.92	1.19	1.59	sand to silty sand	50-60	32-34	19	UNDEFINED
28	53.64	1.75	3.25	1.65	sandy silt to clayey silt	UNDFND	UNDFD	21	4.1
29	118.67	2.86	2.41	1.71	silty sand to sandy silt	60-70	34-36	38	UNDEFINED
30	27.99	0.46	1.64	1.77	sandy silt to clayey silt	UNDFND	UNDFD	11	2.0
31	27.23	0.31	1.14	1.83	silty sand to sandy silt	<40	<30	9	UNDEFINED
32	32.23	0.56	1.73	1.89	sandy silt to clayey silt	UNDFND	UNDFD	12	2.4
33	17.68	0.49	2.79	1.95	clayey silt to silty clay	UNDFND	UNDFD	8	1.2
34	47.88	0.54	1.12	1.99	silty sand to sandy silt	<40	<30	15	UNDEFINED
35	82.85	0.38	0.46	2.02	sand to silty sand	50-60	32-34	20	UNDEFINED
36	31.05	0.53	1.71	2.04	sandy silt to clayey silt	UNDFND	UNDFD	12	2.3
37	66.35	0.32	0.49	2.07	sand to silty sand	40-50	30-32	16	UNDEFINED
38	38.68	0.54	1.39	2.10	silty sand to sandy silt	<40	<30	12	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	49.78	0.43	0.85	2.13	silty sand to sandy silt	<40	<30	16	UNDEFINED
40	47.20	0.47	0.99	2.16	silty sand to sandy silt	<40	<30	15	UNDEFINED
41	36.65	0.72	1.97	2.19	sandy silt to clayey silt	UNDFND	UNDFD	14	2.7
42	127.40	0.55	0.43	2.22	sand	60-70	34-36	24	UNDEFINED
43	144.93	0.48	0.33	2.25	sand	60-70	34-36	28	UNDEFINED
44	144.05	0.74	0.51	2.28	sand	60-70	34-36	28	UNDEFINED
45	127.75	0.47	0.37	2.31	sand	60-70	34-36	24	UNDEFINED
46	117.68	0.50	0.42	2.34	sand	50-60	32-34	23	UNDEFINED
47	110.50	0.42	0.38	2.36	sand	50-60	32-34	21	UNDEFINED
48	120.82	0.44	0.36	2.39	sand	50-60	32-34	23	UNDEFINED
49	139.43	0.54	0.39	2.42	sand	60-70	34-36	27	UNDEFINED
50	174.97	0.59	0.34	2.45	sand	60-70	36-38	34	UNDEFINED
51	144.38	0.55	0.38	2.48	sand	60-70	34-36	28	UNDEFINED
52	101.93	0.38	0.38	2.51	sand	50-60	32-34	20	UNDEFINED
53	89.07	0.31	0.34	2.53	sand	50-60	30-32	17	UNDEFINED
54	101.05	0.28	0.28	2.56	sand	50-60	32-34	19	UNDEFINED
55	171.19	0.51	0.30	2.59	sand	60-70	34-36	33	UNDEFINED
56	141.69	0.47	0.33	2.62	sand	60-70	34-36	27	UNDEFINED
57	124.07	0.38	0.31	2.65	sand	50-60	32-34	24	UNDEFINED
58	142.26	0.46	0.33	2.68	sand	60-70	34-36	27	UNDEFINED
59	130.93	0.47	0.36	2.70	sand	60-70	32-34	25	UNDEFINED
60	141.05	0.43	0.30	2.73	sand	60-70	32-34	27	UNDEFINED
61	130.28	0.45	0.34	2.76	sand	50-60	32-34	25	UNDEFINED
62	121.34	0.42	0.35	2.79	sand	50-60	32-34	23	UNDEFINED
63	129.74	0.58	0.45	2.82	sand	50-60	32-34	25	UNDEFINED
64	158.48	0.74	0.47	2.85	sand	60-70	34-36	30	UNDEFINED
65	125.95	0.54	0.43	2.88	sand	50-60	32-34	24	UNDEFINED
66	120.95	0.52	0.43	2.91	sand	50-60	32-34	23	UNDEFINED
67	162.61	0.68	0.42	2.94	sand	60-70	34-36	31	UNDEFINED
68	165.94	0.66	0.40	2.97	sand	60-70	34-36	32	UNDEFINED
69	164.71	0.75	0.46	3.00	sand	60-70	34-36	32	UNDEFINED
70	168.42	0.63	0.38	3.03	sand	60-70	34-36	32	UNDEFINED
71	180.61	0.56	0.31	3.05	sand	60-70	34-36	35	UNDEFINED
72	165.48	0.71	0.43	3.08	sand	60-70	34-36	32	UNDEFINED
73	162.37	0.60	0.37	3.11	sand	60-70	34-36	31	UNDEFINED
74	150.75	0.56	0.37	3.14	sand	60-70	32-34	29	UNDEFINED
75	125.36	0.59	0.47	3.17	sand	50-60	32-34	24	UNDEFINED
76	109.29	0.48	0.44	3.20	sand	50-60	30-32	21	UNDEFINED
77	140.21	0.62	0.44	3.22	sand	50-60	32-34	27	UNDEFINED
78	171.68	0.87	0.51	3.25	sand	60-70	34-36	33	UNDEFINED
79	193.47	1.10	0.57	3.28	sand	60-70	34-36	37	UNDEFINED
80	157.55	0.86	0.55	3.31	sand	60-70	32-34	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	130.22	0.55	0.42	3.34	sand	50-60	32-34	25	UNDEFINED
82	137.77	0.53	0.39	3.37	sand	50-60	32-34	26	UNDEFINED
83	166.36	1.37	0.82	3.39	sand	60-70	32-34	32	UNDEFINED
84	244.96	1.64	0.67	3.42	sand	70-80	36-38	47	UNDEFINED
85	184.83	0.89	0.48	3.46	sand	60-70	34-36	35	UNDEFINED
86	151.65	0.41	0.27	3.48	sand	60-70	32-34	29	UNDEFINED
87	135.55	0.46	0.34	3.51	sand	50-60	30-32	26	UNDEFINED
88	139.29	0.57	0.41	3.54	sand	50-60	32-34	27	UNDEFINED
89	119.32	1.05	0.88	3.57	sand to silty sand	50-60	30-32	29	UNDEFINED
90	110.40	0.25	0.22	3.60	sand	50-60	30-32	21	UNDEFINED
91	132.28	0.40	0.30	3.63	sand	50-60	30-32	25	UNDEFINED
92	185.90	0.88	0.47	3.66	sand	60-70	32-34	36	UNDEFINED
93	152.67	0.74	0.49	3.69	sand	60-70	32-34	29	UNDEFINED
94	128.24	0.51	0.40	3.71	sand	50-60	30-32	25	UNDEFINED
95	115.26	0.44	0.38	3.74	sand	50-60	30-32	22	UNDEFINED
96	156.49	0.66	0.42	3.77	sand	60-70	32-34	30	UNDEFINED
97	166.46	0.77	0.46	3.80	sand	60-70	32-34	32	UNDEFINED
98	133.80	0.49	0.37	3.83	sand	50-60	30-32	26	UNDEFINED
99	169.51	1.04	0.62	3.86	sand	60-70	32-34	32	UNDEFINED
100	156.57	0.71	0.46	3.88	sand	60-70	32-34	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W3-15A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:20:97 14:51
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.32	0.00	0.01	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
2	19.11	0.00	0.00	0.09	undefined	UNDFND	UNDFD	UDF	UNDEFINED
3	27.37	0.00	0.01	0.15	silty sand to sandy silt	50-60	40-42	9	UNDEFINED
4	17.42	0.00	0.01	0.22	silty sand to sandy silt	<40	36-38	6	UNDEFINED
5	22.96	0.03	0.14	0.28	silty sand to sandy silt	40-50	36-38	7	UNDEFINED
6	54.25	0.16	0.30	0.33	sand to silty sand	60-70	40-42	13	UNDEFINED
7	23.14	0.04	0.18	0.39	silty sand to sandy silt	<40	34-36	7	UNDEFINED
8	36.31	0.01	0.02	0.45	sand to silty sand	40-50	36-38	9	UNDEFINED
9	79.22	0.19	0.24	0.51	sand to silty sand	60-70	40-42	19	UNDEFINED
10	73.32	0.20	0.27	0.57	sand to silty sand	60-70	38-40	18	UNDEFINED
11	79.86	0.31	0.39	0.63	sand to silty sand	60-70	38-40	19	UNDEFINED
12	60.67	0.28	0.45	0.69	sand to silty sand	50-60	36-38	15	UNDEFINED
13	61.67	0.26	0.41	0.75	sand to silty sand	50-60	36-38	15	UNDEFINED
14	73.86	0.47	0.64	0.81	sand to silty sand	60-70	36-38	18	UNDEFINED
15	85.40	0.62	0.73	0.87	sand to silty sand	60-70	38-40	20	UNDEFINED
16	43.54	0.30	0.70	0.93	silty sand to sandy silt	40-50	32-34	14	UNDEFINED
17	40.83	0.76	1.87	0.98	sandy silt to clayey silt	UNDFND	UNDFD	16	3.1
18	61.56	0.56	0.91	1.04	sand to silty sand	50-60	34-36	15	UNDEFINED
19	57.81	0.68	1.18	1.10	silty sand to sandy silt	40-50	34-36	18	UNDEFINED
20	32.66	0.12	0.38	1.16	silty sand to sandy silt	<40	<30	10	UNDEFINED
1	69.60	0.82	1.18	1.23	sand to silty sand	50-60	34-36	17	UNDEFINED
2	45.35	0.83	1.83	1.29	silty sand to sandy silt	40-50	30-32	14	UNDEFINED
23	38.61	0.16	0.41	1.35	sand to silty sand	<40	<30	9	UNDEFINED
24	26.57	0.07	0.25	1.41	silty sand to sandy silt	<40	<30	8	UNDEFINED
25	23.59	0.09	0.36	1.48	silty sand to sandy silt	<40	<30	8	UNDEFINED
26	29.73	0.10	0.33	1.54	silty sand to sandy silt	<40	<30	9	UNDEFINED
27	47.02	0.22	0.47	1.59	sand to silty sand	<40	30-32	11	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-16
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:10:97 07:52
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	28.49	0.55	1.93	0.03	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
2	57.07	1.00	1.75	0.09	silty sand to sandy silt	80-90	46-48	18	UNDEFINED
3	60.27	1.14	1.90	0.15	silty sand to sandy silt	70-80	44-46	19	UNDEFINED
4	70.28	1.13	1.60	0.22	silty sand to sandy silt	70-80	44-46	22	UNDEFINED
5	182.19	1.64	0.90	0.28	sand	>90	46-48	35	UNDEFINED
6	136.44	1.51	1.11	0.33	sand to silty sand	>90	44-46	33	UNDEFINED
7	87.56	0.80	0.92	0.39	sand to silty sand	70-80	42-44	21	UNDEFINED
8	60.41	0.27	0.45	0.45	sand to silty sand	60-70	38-40	14	UNDEFINED
9	90.05	0.31	0.34	0.51	sand	70-80	40-42	17	UNDEFINED
10	169.58	0.76	0.45	0.57	sand	80-90	44-46	32	UNDEFINED
11	183.86	0.89	0.49	0.63	sand	>90	44-46	35	UNDEFINED
12	195.55	0.90	0.46	0.69	sand	>90	44-46	37	UNDEFINED
13	127.88	0.57	0.44	0.75	sand	70-80	40-42	24	UNDEFINED
14	177.99	0.82	0.46	0.81	sand	80-90	42-44	34	UNDEFINED
15	154.28	0.72	0.47	0.87	sand	80-90	40-42	30	UNDEFINED
16	134.49	0.75	0.56	0.93	sand	70-80	40-42	26	UNDEFINED
17	130.76	0.75	0.57	0.98	sand	70-80	38-40	25	UNDEFINED
18	148.62	0.80	0.53	1.04	sand	70-80	40-42	28	UNDEFINED
19	129.50	0.72	0.56	1.10	sand	70-80	38-40	25	UNDEFINED
20	138.32	0.66	0.48	1.16	sand	70-80	38-40	26	UNDEFINED
21	122.60	0.52	0.42	1.23	sand	60-70	38-40	23	UNDEFINED
22	128.26	0.59	0.46	1.29	sand	70-80	38-40	25	UNDEFINED
23	123.43	0.59	0.48	1.35	sand	60-70	36-38	24	UNDEFINED
24	147.90	0.71	0.48	1.41	sand	70-80	38-40	28	UNDEFINED
25	138.55	0.69	0.49	1.48	sand	70-80	36-38	27	UNDEFINED
26	106.19	0.54	0.51	1.54	sand	60-70	34-36	20	UNDEFINED
27	109.79	0.61	0.55	1.59	sand	60-70	34-36	21	UNDEFINED
28	129.60	0.65	0.50	1.65	sand	60-70	36-38	25	UNDEFINED
29	146.12	0.63	0.43	1.71	sand	60-70	36-38	28	UNDEFINED
30	108.15	0.54	0.50	1.77	sand	60-70	34-36	21	UNDEFINED
31	118.01	0.62	0.52	1.83	sand	60-70	34-36	23	UNDEFINED
32	134.57	0.67	0.50	1.89	sand	60-70	36-38	26	UNDEFINED
33	126.73	0.46	0.36	1.95	sand	60-70	34-36	24	UNDEFINED
34	152.49	0.48	0.32	1.99	sand	60-70	36-38	29	UNDEFINED
35	119.53	0.37	0.31	2.02	sand	60-70	34-36	23	UNDEFINED
36	90.80	0.38	0.42	2.04	sand	50-60	32-34	17	UNDEFINED
37	100.47	0.38	0.38	2.07	sand	50-60	32-34	19	UNDEFINED
38	120.45	0.44	0.37	2.10	sand	60-70	34-36	23	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	155.26	0.43	0.28	2.13	sand	60-70	36-38	30	UNDEFINED
40	145.13	0.38	0.26	2.16	sand	60-70	34-36	28	UNDEFINED
41	169.85	0.47	0.28	2.19	sand	70-80	36-38	33	UNDEFINED
42	130.24	0.44	0.34	2.22	sand	60-70	34-36	25	UNDEFINED
43	139.67	0.57	0.41	2.25	sand	60-70	34-36	27	UNDEFINED
44	121.07	0.41	0.34	2.28	sand	60-70	34-36	23	UNDEFINED
45	94.44	0.23	0.24	2.31	sand	50-60	32-34	18	UNDEFINED
46	93.09	0.33	0.35	2.34	sand	50-60	32-34	18	UNDEFINED
47	79.02	0.27	0.34	2.36	sand to silty sand	40-50	30-32	19	UNDEFINED
48	101.63	0.29	0.29	2.39	sand	50-60	32-34	19	UNDEFINED
49	129.21	0.47	0.36	2.42	sand	60-70	34-36	25	UNDEFINED
50	169.92	1.05	0.62	2.45	sand	60-70	34-36	33	UNDEFINED
51	135.48	0.48	0.35	2.48	sand	60-70	34-36	26	UNDEFINED
52	136.46	0.35	0.26	2.51	sand	60-70	34-36	26	UNDEFINED
53	159.29	0.47	0.29	2.53	sand	60-70	34-36	31	UNDEFINED
54	125.59	0.36	0.29	2.56	sand	50-60	32-34	24	UNDEFINED
55	104.82	0.32	0.31	2.59	sand	50-60	32-34	20	UNDEFINED
56	117.75	0.42	0.36	2.62	sand	50-60	32-34	23	UNDEFINED
57	145.89	0.56	0.38	2.65	sand	60-70	34-36	28	UNDEFINED
58	186.85	0.71	0.38	2.68	sand	70-80	34-36	36	UNDEFINED
59	246.91	1.65	0.67	2.70	sand	70-80	36-38	47	UNDEFINED
60	170.35	1.94	1.14	2.73	sand	60-70	34-36	33	UNDEFINED
61	155.26	1.15	0.74	2.76	sand	60-70	34-36	30	UNDEFINED
62	158.57	0.83	0.52	2.79	sand	60-70	34-36	30	UNDEFINED
63	144.70	0.74	0.51	2.82	sand	60-70	32-34	28	UNDEFINED
64	117.15	0.38	0.33	2.85	sand	50-60	32-34	22	UNDEFINED
65	139.28	0.41	0.29	2.88	sand	60-70	32-34	27	UNDEFINED
66	210.19	1.27	0.61	2.91	sand	70-80	36-38	40	UNDEFINED
67	211.19	1.00	0.47	2.94	sand	70-80	36-38	40	UNDEFINED
68	136.87	0.35	0.26	2.97	sand	60-70	32-34	26	UNDEFINED
69	141.90	0.96	0.67	3.00	sand	60-70	32-34	27	UNDEFINED
70	133.70	0.62	0.46	3.03	sand	50-60	32-34	26	UNDEFINED
71	181.82	0.89	0.49	3.05	sand	60-70	34-36	35	UNDEFINED
72	227.77	1.68	0.74	3.08	sand	70-80	36-38	44	UNDEFINED
73	159.02	0.89	0.56	3.11	sand	60-70	32-34	30	UNDEFINED
74	128.04	0.49	0.38	3.14	sand	50-60	32-34	25	UNDEFINED
75	178.76	1.76	0.99	3.17	sand	60-70	34-36	34	UNDEFINED
76	140.50	0.75	0.54	3.20	sand	50-60	32-34	27	UNDEFINED
77	152.05	0.48	0.32	3.22	sand	60-70	32-34	29	UNDEFINED
78	168.71	0.77	0.46	3.25	sand	60-70	34-36	32	UNDEFINED
79	186.76	0.83	0.45	3.28	sand	60-70	34-36	36	UNDEFINED
80	200.90	1.06	0.53	3.31	sand	60-70	34-36	38	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ***

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	178.14	1.42	0.80	3.34	sand	60-70	34-36	34	UNDEFINED
82	141.14	0.76	0.54	3.37	sand	50-60	32-34	27	UNDEFINED
83	140.06	0.75	0.54	3.39	sand	50-60	32-34	27	UNDEFINED
84	156.41	1.56	1.00	3.42	sand	60-70	32-34	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-17
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:01:97 10:47
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	18.19	0.18	0.97	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
2	28.87	0.20	0.70	0.09	silty sand to sandy silt	60-70	44-46	9	UNDEFINED
3	46.07	0.41	0.89	0.15	silty sand to sandy silt	70-80	44-46	15	UNDEFINED
4	24.31	0.16	0.66	0.22	silty sand to sandy silt	40-50	38-40	8	UNDEFINED
5	21.93	0.21	0.97	0.28	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
6	28.36	0.21	0.73	0.33	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
7	57.49	0.50	0.87	0.39	sand to silty sand	60-70	40-42	14	UNDEFINED
8	47.23	0.50	1.05	0.45	silty sand to sandy silt	50-60	38-40	15	UNDEFINED
9	55.21	0.85	1.54	0.51	silty sand to sandy silt	50-60	38-40	18	UNDEFINED
10	37.16	1.22	3.27	0.57	clayey silt to silty clay	UNDFND	UNDFD	18	2.9
11	22.48	0.50	2.23	0.63	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
12	50.38	1.75	3.46	0.69	clayey silt to silty clay	UNDFND	UNDFD	24	3.9
13	231.52	7.17	3.10	0.75	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-17A
Site : 13
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:01:97 11:02
Geologist : 20 TON A AD054
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	21.08	0.33	1.59	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
2	60.54	0.59	0.97	0.09	sand to silty sand	80-90	>48	14	UNDEFINED
3	118.72	1.28	1.08	0.15	sand to silty sand	>90	>48	28	UNDEFINED
4	64.38	0.79	1.23	0.22	silty sand to sandy silt	70-80	44-46	21	UNDEFINED
5	65.48	0.52	0.79	0.28	sand to silty sand	70-80	42-44	16	UNDEFINED
6	199.72	1.13	0.57	0.33	sand	>90	46-48	38	UNDEFINED
7	231.07	2.12	0.92	0.39	sand	>90	46-48	44	UNDEFINED
8	174.73	2.86	1.63	0.45	sand to silty sand	>90	44-46	42	UNDEFINED
9	60.91	0.46	0.75	0.51	sand to silty sand	60-70	38-40	15	UNDEFINED
10	43.75	0.26	0.60	0.57	sand to silty sand	50-60	36-38	10	UNDEFINED
11	50.51	0.33	0.65	0.63	sand to silty sand	50-60	36-38	12	UNDEFINED
12	98.21	1.39	1.41	0.69	sand to silty sand	70-80	40-42	24	UNDEFINED
13	53.43	1.25	2.33	0.75	sandy silt to clayey silt	UNDFND	UNDFD	20	4.2
14	47.69	1.18	2.47	0.81	sandy silt to clayey silt	UNDFND	UNDFD	18	3.7
15	60.85	1.19	1.96	0.87	silty sand to sandy silt	50-60	36-38	19	UNDEFINED
16	44.64	1.20	2.69	0.93	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
17	358.78	1.13	0.31	0.98	gravelly sand to sand	>90	44-46	>50	UNDEFINED
18	282.71	2.31	0.82	1.04	sand	>90	42-44	>50	UNDEFINED
19	54.36	1.25	2.29	1.10	sandy silt to clayey silt	UNDFND	UNDFD	21	4.2
20	42.21	0.20	0.47	1.16	sand to silty sand	<40	30-32	10	UNDEFINED
21	46.72	0.19	0.41	1.23	sand to silty sand	40-50	30-32	11	UNDEFINED
22	62.58	0.32	0.51	1.29	sand to silty sand	40-50	32-34	15	UNDEFINED
23	65.96	0.30	0.45	1.35	sand to silty sand	50-60	32-34	16	UNDEFINED
24	62.10	0.31	0.49	1.41	sand to silty sand	40-50	32-34	15	UNDEFINED
25	60.26	0.41	0.68	1.48	sand to silty sand	40-50	32-34	14	UNDEFINED
26	145.84	3.41	2.34	1.54	silty sand to sandy silt	70-80	36-38	47	UNDEFINED
27	157.29	6.11	3.88	1.59	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
28	130.65	6.31	4.83	1.65	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
29	88.23	3.10	3.51	1.71	sandy silt to clayey silt	UNDFND	UNDFD	34	6.9
30	31.86	0.45	1.42	1.77	silty sand to sandy silt	<40	<30	10	UNDEFINED
31	51.61	0.51	0.99	1.83	silty sand to sandy silt	<40	<30	16	UNDEFINED
32	39.84	0.58	1.46	1.89	silty sand to sandy silt	<40	<30	13	UNDEFINED
33	37.75	0.47	1.25	1.95	silty sand to sandy silt	<40	<30	12	UNDEFINED
34	101.80	0.44	0.43	1.99	sand	50-60	32-34	20	UNDEFINED
35	28.88	0.63	2.18	2.02	sandy silt to clayey silt	UNDFND	UNDFD	11	2.1
36	106.63	0.40	0.38	2.04	sand	50-60	34-36	20	UNDEFINED
37	54.89	1.05	1.92	2.07	silty sand to sandy silt	<40	<30	18	UNDEFINED
38	232.09	0.51	0.22	2.10	gravelly sand to sand	80-90	38-40	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

' Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W3-17B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:01:97 11:27
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	26.69	0.16	0.61	0.03	silty sand to sandy silt	70-80	>48	9	UNDEFINED
2	46.53	0.24	0.51	0.09	sand to silty sand	70-80	46-48	11	UNDEFINED
3	143.19	0.78	0.55	0.15	sand	>90	>48	27	UNDEFINED
4	117.29	1.07	0.91	0.22	sand to silty sand	>90	46-48	28	UNDEFINED
5	114.49	0.86	0.75	0.28	sand	80-90	44-46	22	UNDEFINED
6	202.82	1.55	0.77	0.33	sand	>90	46-48	39	UNDEFINED
7	286.39	1.80	0.63	0.39	sand	>90	>48	>50	UNDEFINED
8	170.26	0.96	0.56	0.45	sand	>90	44-46	33	UNDEFINED
9	109.47	1.12	1.02	0.51	sand to silty sand	70-80	42-44	26	UNDEFINED
10	113.54	1.33	1.17	0.57	sand to silty sand	70-80	42-44	27	UNDEFINED
11	82.51	0.69	0.84	0.63	sand to silty sand	60-70	38-40	20	UNDEFINED
12	26.08	0.14	0.54	0.69	silty sand to sandy silt	<40	30-32	8	UNDEFINED
13	24.47	0.04	0.16	0.75	silty sand to sandy silt	<40	30-32	8	UNDEFINED
14	25.36	0.10	0.39	0.81	silty sand to sandy silt	<40	30-32	8	UNDEFINED
15	26.60	0.03	0.11	0.87	silty sand to sandy silt	<40	30-32	8	UNDEFINED
16	28.61	0.03	0.12	0.93	silty sand to sandy silt	<40	30-32	9	UNDEFINED
17	42.96	0.30	0.71	0.98	silty sand to sandy silt	40-50	32-34	14	UNDEFINED
18	82.01	1.43	1.75	1.04	silty sand to sandy silt	60-70	36-38	26	UNDEFINED
19	130.17	3.01	2.31	1.10	silty sand to sandy silt	70-80	38-40	42	UNDEFINED
20	15.33	0.45	2.96	1.16	clayey silt to silty clay	UNDFND	UNDFD	7	1.1
1	15.08	0.17	1.14	1.23	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
2	16.48	0.18	1.08	1.29	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
23	47.39	0.86	1.81	1.35	silty sand to sandy silt	40-50	30-32	15	UNDEFINED
24	73.81	0.60	0.82	1.41	sand to silty sand	50-60	34-36	18	UNDEFINED
25	109.12	0.40	0.36	1.48	sand	60-70	36-38	21	UNDEFINED
26	34.44	0.10	0.30	1.54	silty sand to sandy silt	<40	<30	11	UNDEFINED
27	54.53	0.32	0.59	1.59	sand to silty sand	40-50	30-32	13	UNDEFINED
28	55.64	0.12	0.21	1.65	sand to silty sand	40-50	30-32	13	UNDEFINED
29	39.96	0.34	0.85	1.71	silty sand to sandy silt	<40	<30	13	UNDEFINED
30	66.48	0.39	0.58	1.77	sand to silty sand	40-50	30-32	16	UNDEFINED
31	69.94	0.55	0.79	1.83	sand to silty sand	40-50	30-32	17	UNDEFINED
32	40.01	0.67	1.67	1.89	silty sand to sandy silt	<40	<30	13	UNDEFINED
33	30.34	0.48	1.59	1.95	sandy silt to clayey silt	UNDFND	UNDFD	12	2.2
34	65.62	0.47	0.71	1.99	sand to silty sand	40-50	30-32	16	UNDEFINED
35	76.82	0.59	0.77	2.02	sand to silty sand	40-50	30-32	18	UNDEFINED
36	101.08	0.18	0.18	2.04	sand	50-60	32-34	19	UNDEFINED
37	81.31	0.57	0.70	2.07	sand to silty sand	50-60	32-34	19	UNDEFINED
38	77.24	0.88	1.14	2.10	sand to silty sand	40-50	30-32	18	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	221.68	0.45	0.20	2.13	gravelly sand to sand	70-80	38-40	35	UNDEFINED
40	148.21	1.25	0.85	2.16	sand	60-70	34-36	28	UNDEFINED
41	190.25	0.71	0.37	2.19	sand	70-80	36-38	36	UNDEFINED
42	247.61	0.83	0.34	2.22	gravelly sand to sand	80-90	38-40	40	UNDEFINED
43	252.45	0.87	0.35	2.25	gravelly sand to sand	80-90	38-40	40	UNDEFINED
44	263.24	0.91	0.34	2.28	gravelly sand to sand	80-90	38-40	42	UNDEFINED
45	235.29	0.65	0.28	2.31	gravelly sand to sand	70-80	38-40	38	UNDEFINED
46	272.20	0.80	0.30	2.34	gravelly sand to sand	80-90	38-40	43	UNDEFINED
47	161.78	0.49	0.30	2.36	sand	60-70	34-36	31	UNDEFINED
48	141.69	0.32	0.22	2.39	sand	60-70	34-36	27	UNDEFINED
49	170.51	0.52	0.31	2.42	sand	60-70	36-38	33	UNDEFINED
50	204.95	0.61	0.30	2.45	sand	70-80	36-38	39	UNDEFINED
51	206.00	0.54	0.26	2.48	sand	70-80	36-38	39	UNDEFINED
52	284.01	0.78	0.27	2.51	gravelly sand to sand	80-90	38-40	45	UNDEFINED
53	214.52	0.58	0.27	2.53	gravelly sand to sand	70-80	36-38	34	UNDEFINED
54	184.13	0.62	0.34	2.56	sand	70-80	36-38	35	UNDEFINED
55	167.24	0.58	0.35	2.59	sand	60-70	34-36	32	UNDEFINED
56	201.31	0.78	0.39	2.62	sand	70-80	36-38	39	UNDEFINED
57	216.30	0.73	0.34	2.65	sand	70-80	36-38	41	UNDEFINED
58	247.37	1.05	0.43	2.68	gravelly sand to sand	70-80	36-38	39	UNDEFINED
59	227.38	1.01	0.44	2.70	sand	70-80	36-38	44	UNDEFINED
60	196.49	0.80	0.41	2.73	sand	70-80	36-38	38	UNDEFINED
1	169.94	0.64	0.37	2.76	sand	60-70	34-36	33	UNDEFINED
2	182.11	0.78	0.43	2.79	sand	60-70	34-36	35	UNDEFINED
63	174.05	0.62	0.36	2.82	sand	60-70	34-36	33	UNDEFINED
64	201.08	0.61	0.30	2.85	sand	70-80	36-38	39	UNDEFINED
65	178.64	0.52	0.29	2.88	sand	60-70	34-36	34	UNDEFINED
66	198.36	0.55	0.28	2.91	sand	70-80	34-36	38	UNDEFINED
67	214.00	0.70	0.33	2.94	sand	70-80	36-38	41	UNDEFINED
68	177.54	0.46	0.26	2.97	sand	60-70	34-36	34	UNDEFINED
69	145.79	0.56	0.38	3.00	sand	60-70	32-34	28	UNDEFINED
70	136.42	0.60	0.44	3.03	sand	50-60	32-34	26	UNDEFINED
71	184.74	0.49	0.26	3.05	sand	60-70	34-36	35	UNDEFINED
72	181.32	0.52	0.29	3.08	sand	60-70	34-36	35	UNDEFINED
73	192.29	0.67	0.35	3.11	sand	60-70	34-36	37	UNDEFINED
74	173.09	0.62	0.36	3.14	sand	60-70	34-36	33	UNDEFINED
75	130.10	0.42	0.32	3.17	sand	50-60	32-34	25	UNDEFINED
76	105.76	0.28	0.27	3.20	sand	50-60	30-32	20	UNDEFINED
77	88.78	0.18	0.20	3.22	sand	40-50	<30	17	UNDEFINED
78	106.59	0.22	0.20	3.25	sand	50-60	30-32	20	UNDEFINED
79	98.10	0.31	0.32	3.28	sand	40-50	30-32	19	UNDEFINED
80	104.02	0.35	0.34	3.31	sand	50-60	30-32	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	104.30	0.31	0.30	3.34	sand	50-60	30-32	20	UNDEFINED
82	112.67	0.29	0.25	3.37	sand	50-60	30-32	22	UNDEFINED
83	114.65	0.32	0.28	3.39	sand	50-60	30-32	22	UNDEFINED
84	127.40	0.33	0.26	3.42	sand	50-60	30-32	24	UNDEFINED
85	109.25	0.30	0.28	3.46	sand	50-60	30-32	21	UNDEFINED
86	92.10	0.33	0.36	3.48	sand	40-50	<30	18	UNDEFINED
87	48.88	0.07	0.15	3.51	sand to silty sand	<40	<30	12	UNDEFINED
88	91.07	0.42	0.46	3.54	sand	40-50	<30	17	UNDEFINED
89	132.48	0.39	0.29	3.57	sand	50-60	30-32	25	UNDEFINED
90	189.09	0.74	0.39	3.60	sand	60-70	34-36	36	UNDEFINED
91	175.22	0.64	0.36	3.63	sand	60-70	32-34	34	UNDEFINED
92	163.64	0.98	0.60	3.66	sand	60-70	32-34	31	UNDEFINED
93	110.57	0.17	0.15	3.69	sand	50-60	30-32	21	UNDEFINED
94	98.81	0.43	0.44	3.71	sand	40-50	<30	19	UNDEFINED
95	97.58	0.31	0.31	3.74	sand	40-50	<30	19	UNDEFINED
96	124.39	0.29	0.23	3.77	sand	50-60	30-32	24	UNDEFINED
97	147.00	0.73	0.50	3.80	sand	50-60	32-34	28	UNDEFINED
98	102.25	0.37	0.36	3.83	sand	40-50	<30	20	UNDEFINED
99	89.28	0.32	0.36	3.86	sand	40-50	<30	17	UNDEFINED
100	95.38	0.32	0.34	3.88	sand	40-50	<30	18	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:02:97 08:38
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	2.55	0.17	6.73	0.03	organic material	UNDFND	UNDFD	2	.2
2	9.85	0.09	0.93	0.09	clayey silt to silty clay	UNDFND	UNDFD	5	.7
3	37.53	0.17	0.45	0.15	silty sand to sandy silt	60-70	42-44	12	UNDEFINED
4	32.22	0.20	0.62	0.22	silty sand to sandy silt	50-60	40-42	10	UNDEFINED
5	46.51	0.23	0.48	0.28	sand to silty sand	60-70	40-42	11	UNDEFINED
6	105.61	0.44	0.42	0.33	sand	80-90	44-46	20	UNDEFINED
7	108.90	0.49	0.45	0.39	sand	80-90	42-44	21	UNDEFINED
8	90.01	0.45	0.50	0.45	sand to silty sand	70-80	42-44	22	UNDEFINED
9	84.45	0.38	0.46	0.51	sand to silty sand	70-80	40-42	20	UNDEFINED
10	108.79	0.53	0.49	0.57	sand	70-80	40-42	21	UNDEFINED
11	85.64	0.49	0.57	0.63	sand to silty sand	60-70	40-42	21	UNDEFINED
12	116.25	0.60	0.52	0.69	sand	70-80	40-42	22	UNDEFINED
13	145.19	0.89	0.61	0.75	sand	80-90	42-44	28	UNDEFINED
14	289.52	3.43	1.19	0.81	sand	>90	44-46	>50	UNDEFINED
15	307.62	3.44	1.12	0.87	sand	>90	44-46	>50	UNDEFINED
16	225.01	3.58	1.59	0.93	sand to silty sand	>90	42-44	>50	UNDEFINED
17	117.74	3.30	2.81	0.98	sandy silt to clayey silt	UNDFND	UNDFD	45	9.3
18	87.51	3.88	4.43	1.04	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
19	102.06	2.40	2.35	1.10	silty sand to sandy silt	60-70	36-38	33	UNDEFINED
20	55.90	3.05	5.45	1.16	clay	UNDFND	UNDFD	>50	4.3
1	93.28	3.25	3.49	1.23	sandy silt to clayey silt	UNDFND	UNDFD	36	7.3
2	79.45	3.33	4.19	1.29	clayey silt to silty clay	UNDFND	UNDFD	38	6.2
23	91.85	4.37	4.76	1.35	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
24	81.44	3.07	3.77	1.41	clayey silt to silty clay	UNDFND	UNDFD	39	6.4
25	47.23	1.65	3.49	1.48	clayey silt to silty clay	UNDFND	UNDFD	23	3.6
26	30.62	1.02	3.33	1.54	clayey silt to silty clay	UNDFND	UNDFD	15	2.3
27	63.36	0.38	0.57	1.59	sand to silty sand	40-50	32-34	15	UNDEFINED
28	57.96	0.50	0.85	1.65	sand to silty sand	40-50	30-32	14	UNDEFINED
29	53.13	0.49	0.93	1.71	silty sand to sandy silt	40-50	30-32	17	UNDEFINED
30	52.76	0.50	0.95	1.77	silty sand to sandy silt	40-50	30-32	17	UNDEFINED
31	51.40	0.60	1.17	1.83	silty sand to sandy silt	<40	<30	16	UNDEFINED
32	58.65	0.62	1.06	1.89	silty sand to sandy silt	40-50	30-32	19	UNDEFINED
33	56.65	0.60	1.06	1.95	silty sand to sandy silt	40-50	<30	18	UNDEFINED
34	59.71	0.74	1.24	1.99	silty sand to sandy silt	40-50	30-32	19	UNDEFINED
35	63.61	0.85	1.34	2.02	silty sand to sandy silt	40-50	30-32	20	UNDEFINED
36	71.57	0.91	1.27	2.04	silty sand to sandy silt	40-50	30-32	23	UNDEFINED
37	67.77	0.63	0.92	2.07	sand to silty sand	40-50	30-32	16	UNDEFINED
38	79.74	0.70	0.87	2.10	sand to silty sand	40-50	30-32	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	84.20	0.72	0.85	2.13	sand to silty sand	50-60	32-34	20	UNDEFINED
40	83.82	0.70	0.84	2.16	sand to silty sand	50-60	32-34	20	UNDEFINED
41	71.43	0.62	0.86	2.19	sand to silty sand	40-50	30-32	17	UNDEFINED
42	73.98	0.51	0.69	2.22	sand to silty sand	40-50	30-32	18	UNDEFINED
43	70.07	0.38	0.54	2.25	sand to silty sand	40-50	30-32	17	UNDEFINED
44	75.46	0.46	0.61	2.28	sand to silty sand	40-50	30-32	18	UNDEFINED
45	80.52	0.58	0.73	2.31	sand to silty sand	40-50	30-32	19	UNDEFINED
46	80.72	0.76	0.94	2.34	sand to silty sand	40-50	30-32	19	UNDEFINED
47	80.75	0.58	0.72	2.36	sand to silty sand	40-50	30-32	19	UNDEFINED
48	97.99	0.73	0.74	2.39	sand to silty sand	50-60	32-34	23	UNDEFINED
49	95.91	0.64	0.66	2.42	sand to silty sand	50-60	32-34	23	UNDEFINED
50	110.18	0.84	0.76	2.45	sand to silty sand	50-60	32-34	26	UNDEFINED
51	109.47	1.27	1.16	2.48	sand to silty sand	50-60	32-34	26	UNDEFINED
52	106.89	1.43	1.34	2.51	sand to silty sand	50-60	32-34	26	UNDEFINED
53	108.15	1.54	1.42	2.53	sand to silty sand	50-60	32-34	26	UNDEFINED
54	105.79	1.44	1.36	2.56	sand to silty sand	50-60	32-34	25	UNDEFINED
55	84.80	0.96	1.14	2.59	sand to silty sand	40-50	30-32	20	UNDEFINED
56	71.10	0.57	0.79	2.62	sand to silty sand	40-50	<30	17	UNDEFINED
57	83.39	0.59	0.71	2.65	sand to silty sand	40-50	30-32	20	UNDEFINED
58	107.29	0.91	0.85	2.68	sand to silty sand	50-60	32-34	26	UNDEFINED
59	109.86	1.00	0.91	2.70	sand to silty sand	50-60	32-34	26	UNDEFINED
60	99.90	0.87	0.87	2.73	sand to silty sand	50-60	30-32	24	UNDEFINED
1	91.40	0.70	0.77	2.76	sand to silty sand	40-50	30-32	22	UNDEFINED
2	111.08	0.88	0.79	2.79	sand to silty sand	50-60	32-34	27	UNDEFINED
63	114.18	1.24	1.09	2.82	sand to silty sand	50-60	32-34	27	UNDEFINED
64	120.57	1.13	0.93	2.85	sand to silty sand	50-60	32-34	29	UNDEFINED
65	116.63	1.22	1.04	2.88	sand to silty sand	50-60	32-34	28	UNDEFINED
66	93.73	0.75	0.80	2.91	sand to silty sand	40-50	30-32	22	UNDEFINED
67	77.73	0.51	0.66	2.94	sand to silty sand	40-50	<30	19	UNDEFINED
68	75.24	0.47	0.62	2.97	sand to silty sand	40-50	<30	18	UNDEFINED
69	84.89	0.60	0.71	3.00	sand to silty sand	40-50	<30	20	UNDEFINED
70	104.31	0.73	0.70	3.03	sand to silty sand	50-60	30-32	25	UNDEFINED
71	120.52	1.07	0.89	3.05	sand to silty sand	50-60	32-34	29	UNDEFINED
72	123.77	1.07	0.87	3.08	sand to silty sand	50-60	32-34	30	UNDEFINED
73	122.55	1.04	0.85	3.11	sand to silty sand	50-60	32-34	29	UNDEFINED
74	116.52	1.29	1.10	3.14	sand to silty sand	50-60	30-32	28	UNDEFINED
75	119.17	1.24	1.04	3.17	sand to silty sand	50-60	30-32	29	UNDEFINED
76	110.80	0.93	0.84	3.20	sand to silty sand	50-60	30-32	27	UNDEFINED
77	128.38	0.69	0.53	3.22	sand	50-60	32-34	25	UNDEFINED
78	153.42	1.33	0.87	3.25	sand	60-70	32-34	29	UNDEFINED
79	139.24	1.29	0.93	3.28	sand	50-60	32-34	27	UNDEFINED
80	142.90	0.90	0.63	3.31	sand	50-60	32-34	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	153.94	1.08	0.70	3.34	sand	60-70	32-34	29	UNDEFINED
82	138.16	0.69	0.50	3.37	sand	50-60	32-34	26	UNDEFINED
83	145.44	0.70	0.48	3.39	sand	50-60	32-34	28	UNDEFINED
84	140.78	0.61	0.43	3.42	sand	50-60	32-34	27	UNDEFINED
85	147.41	0.78	0.53	3.46	sand	60-70	32-34	28	UNDEFINED
86	167.06	1.21	0.72	3.48	sand	60-70	32-34	32	UNDEFINED
87	147.81	1.05	0.71	3.51	sand	50-60	32-34	28	UNDEFINED
88	124.81	0.76	0.61	3.54	sand	50-60	30-32	24	UNDEFINED
89	119.69	0.79	0.66	3.57	sand	50-60	30-32	23	UNDEFINED
90	168.16	1.18	0.70	3.60	sand	60-70	32-34	32	UNDEFINED
91	168.43	0.75	0.45	3.63	sand	60-70	32-34	32	UNDEFINED
92	149.36	0.66	0.44	3.66	sand	50-60	32-34	29	UNDEFINED
93	182.07	1.09	0.60	3.69	sand	60-70	32-34	35	UNDEFINED
94	155.91	0.69	0.44	3.71	sand	60-70	32-34	30	UNDEFINED
95	152.63	0.67	0.44	3.74	sand	50-60	32-34	29	UNDEFINED
96	139.29	0.59	0.42	3.77	sand	50-60	30-32	27	UNDEFINED
97	156.28	0.76	0.49	3.80	sand	60-70	32-34	30	UNDEFINED
98	159.88	0.81	0.51	3.83	sand	60-70	32-34	31	UNDEFINED
99	164.10	0.96	0.59	3.86	sand	60-70	32-34	31	UNDEFINED
100	165.63	0.89	0.54	3.88	sand	60-70	32-34	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-2
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:02:97 09:49
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	4.47	0.09	1.90	0.03	silty clay to clay	UNDFND	UNDFD	3	.3
2	17.48	0.06	0.32	0.09	silty sand to sandy silt	50-60	42-44	6	UNDEFINED
3	17.18	0.04	0.23	0.15	silty sand to sandy silt	40-50	38-40	5	UNDEFINED
4	36.82	0.08	0.22	0.22	sand to silty sand	50-60	40-42	9	UNDEFINED
5	43.97	0.10	0.23	0.28	sand to silty sand	60-70	40-42	11	UNDEFINED
6	44.45	0.09	0.20	0.33	sand to silty sand	50-60	38-40	11	UNDEFINED
7	48.99	0.20	0.40	0.39	sand to silty sand	50-60	38-40	12	UNDEFINED
8	96.12	0.30	0.31	0.45	sand	70-80	42-44	18	UNDEFINED
9	110.73	0.27	0.24	0.51	sand	70-80	42-44	21	UNDEFINED
10	121.36	0.52	0.43	0.57	sand	80-90	42-44	23	UNDEFINED
11	120.90	0.58	0.48	0.63	sand	70-80	40-42	23	UNDEFINED
12	146.72	0.53	0.36	0.69	sand	80-90	42-44	28	UNDEFINED
13	147.66	0.59	0.40	0.75	sand	80-90	42-44	28	UNDEFINED
14	172.11	0.69	0.40	0.81	sand	80-90	42-44	33	UNDEFINED
15	280.64	2.06	0.73	0.87	sand	>90	44-46	>50	UNDEFINED
16	236.80	1.61	0.68	0.93	sand	>90	42-44	45	UNDEFINED
17	234.96	1.13	0.48	0.98	sand	>90	42-44	45	UNDEFINED
18	265.04	2.62	0.99	1.04	sand	>90	42-44	>50	UNDEFINED
19	186.64	2.61	1.40	1.10	sand to silty sand	80-90	40-42	45	UNDEFINED
20	146.62	2.56	1.74	1.16	sand to silty sand	70-80	38-40	35	UNDEFINED
21	183.04	3.44	1.88	1.23	sand to silty sand	80-90	40-42	44	UNDEFINED
22	150.95	1.27	0.84	1.29	sand	70-80	38-40	29	UNDEFINED
23	169.92	1.82	1.07	1.35	sand	70-80	38-40	33	UNDEFINED
24	106.82	1.55	1.46	1.41	sand to silty sand	60-70	36-38	26	UNDEFINED
25	162.67	1.21	0.75	1.48	sand	70-80	38-40	31	UNDEFINED
26	113.89	2.10	1.85	1.54	silty sand to sandy silt	60-70	36-38	36	UNDEFINED
27	89.38	1.80	2.01	1.59	silty sand to sandy silt	50-60	34-36	29	UNDEFINED
28	64.85	1.65	2.54	1.65	sandy silt to clayey silt	UNDFND	UNDFD	25	5.0
29	145.06	2.72	1.88	1.71	silty sand to sandy silt	60-70	36-38	46	UNDEFINED
30	131.82	3.55	2.69	1.77	silty sand to sandy silt	60-70	36-38	42	UNDEFINED
31	131.24	1.64	1.25	1.83	sand to silty sand	60-70	36-38	31	UNDEFINED
32	113.67	1.14	1.00	1.89	sand to silty sand	60-70	34-36	27	UNDEFINED
33	116.24	0.99	0.85	1.95	sand to silty sand	60-70	34-36	28	UNDEFINED
34	130.08	1.91	1.47	1.99	sand to silty sand	60-70	34-36	31	UNDEFINED
35	115.42	1.51	1.31	2.02	sand to silty sand	60-70	34-36	28	UNDEFINED
36	76.54	0.73	0.95	2.04	sand to silty sand	40-50	30-32	18	UNDEFINED
37	71.67	0.38	0.53	2.07	sand to silty sand	40-50	30-32	17	UNDEFINED
38	70.49	0.36	0.51	2.10	sand to silty sand	40-50	30-32	17	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	73.65	0.32	0.43	2.13	sand to silty sand	40-50	30-32	18	UNDEFINED
40	74.65	0.47	0.63	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	71.11	0.36	0.50	2.19	sand to silty sand	40-50	30-32	17	UNDEFINED
42	81.28	0.45	0.55	2.22	sand to silty sand	40-50	30-32	19	UNDEFINED
43	80.18	0.73	0.92	2.25	sand to silty sand	40-50	30-32	19	UNDEFINED
44	112.91	1.23	1.09	2.28	sand to silty sand	50-60	32-34	27	UNDEFINED
45	82.99	0.52	0.62	2.31	sand to silty sand	40-50	30-32	20	UNDEFINED
46	72.08	0.33	0.46	2.34	sand to silty sand	40-50	30-32	17	UNDEFINED
47	70.75	0.44	0.61	2.36	sand to silty sand	40-50	30-32	17	UNDEFINED
48	70.99	0.44	0.63	2.39	sand to silty sand	40-50	30-32	17	UNDEFINED
49	68.35	0.37	0.55	2.42	sand to silty sand	40-50	<30	16	UNDEFINED
50	79.17	0.48	0.61	2.45	sand to silty sand	40-50	30-32	19	UNDEFINED
51	94.97	0.61	0.65	2.48	sand to silty sand	50-60	30-32	23	UNDEFINED
52	87.07	0.51	0.58	2.51	sand to silty sand	40-50	30-32	21	UNDEFINED
53	72.90	0.35	0.48	2.53	sand to silty sand	40-50	<30	17	UNDEFINED
54	74.39	0.39	0.53	2.56	sand to silty sand	40-50	<30	18	UNDEFINED
55	85.97	0.46	0.54	2.59	sand to silty sand	40-50	30-32	21	UNDEFINED
56	80.72	0.46	0.57	2.62	sand to silty sand	40-50	30-32	19	UNDEFINED
57	74.00	0.44	0.59	2.65	sand to silty sand	40-50	<30	18	UNDEFINED
58	82.46	0.45	0.55	2.68	sand to silty sand	40-50	30-32	20	UNDEFINED
59	98.53	0.71	0.72	2.70	sand to silty sand	50-60	30-32	24	UNDEFINED
60	105.98	1.02	0.96	2.73	sand to silty sand	50-60	32-34	25	UNDEFINED
61	103.64	0.96	0.93	2.76	sand to silty sand	50-60	30-32	25	UNDEFINED
62	104.15	0.88	0.84	2.79	sand to silty sand	50-60	30-32	25	UNDEFINED
63	97.18	0.79	0.81	2.82	sand to silty sand	50-60	30-32	23	UNDEFINED
64	111.71	0.68	0.61	2.85	sand	50-60	32-34	21	UNDEFINED
65	104.71	0.57	0.54	2.88	sand	50-60	30-32	20	UNDEFINED
66	104.58	0.59	0.56	2.91	sand	50-60	30-32	20	UNDEFINED
67	122.13	0.83	0.68	2.94	sand	50-60	32-34	23	UNDEFINED
68	139.20	0.96	0.69	2.97	sand	60-70	32-34	27	UNDEFINED
69	126.01	0.78	0.62	3.00	sand	50-60	32-34	24	UNDEFINED
70	111.10	0.64	0.58	3.03	sand	50-60	30-32	21	UNDEFINED
71	122.14	0.64	0.52	3.05	sand	50-60	32-34	23	UNDEFINED
72	139.98	0.93	0.67	3.08	sand	60-70	32-34	27	UNDEFINED
73	148.95	1.19	0.80	3.11	sand	60-70	32-34	29	UNDEFINED
74	142.31	1.05	0.74	3.14	sand	60-70	32-34	27	UNDEFINED
75	138.04	0.84	0.61	3.17	sand	50-60	32-34	26	UNDEFINED
76	137.43	1.09	0.79	3.20	sand	50-60	32-34	26	UNDEFINED
77	144.13	1.32	0.91	3.22	sand	60-70	32-34	28	UNDEFINED
78	125.07	0.86	0.69	3.25	sand	50-60	30-32	24	UNDEFINED
79	106.28	0.45	0.42	3.28	sand	50-60	30-32	20	UNDEFINED
80	110.98	0.51	0.46	3.31	sand	50-60	30-32	21	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	130.17	0.61	0.47	3.34	sand	50-60	32-34	25	UNDEFINED
82	143.64	0.96	0.67	3.37	sand	50-60	32-34	28	UNDEFINED
83	172.59	1.51	0.87	3.39	sand	60-70	32-34	33	UNDEFINED
84	178.69	1.30	0.73	3.42	sand	60-70	34-36	34	UNDEFINED
85	181.20	1.21	0.67	3.46	sand	60-70	34-36	35	UNDEFINED
86	181.64	1.00	0.55	3.48	sand	60-70	34-36	35	UNDEFINED
87	180.69	0.70	0.39	3.51	sand	60-70	32-34	35	UNDEFINED
88	163.95	1.40	0.85	3.54	sand	60-70	32-34	31	UNDEFINED
89	148.47	0.93	0.62	3.57	sand	50-60	32-34	28	UNDEFINED
90	157.07	0.64	0.41	3.60	sand	60-70	32-34	30	UNDEFINED
91	151.11	0.69	0.46	3.63	sand	60-70	32-34	29	UNDEFINED
92	154.15	0.62	0.40	3.66	sand	60-70	32-34	30	UNDEFINED
93	132.49	0.55	0.41	3.69	sand	50-60	30-32	25	UNDEFINED
94	131.37	0.52	0.40	3.71	sand	50-60	30-32	25	UNDEFINED
95	130.56	0.50	0.38	3.74	sand	50-60	30-32	25	UNDEFINED
96	126.99	0.58	0.45	3.77	sand	50-60	30-32	24	UNDEFINED
97	131.97	0.53	0.40	3.80	sand	50-60	30-32	25	UNDEFINED
98	146.42	0.63	0.43	3.83	sand	50-60	30-32	28	UNDEFINED
99	136.41	0.58	0.43	3.86	sand	50-60	30-32	26	UNDEFINED
100	138.69	0.54	0.39	3.88	sand	50-60	30-32	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:02:97 10:53
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	22.07	0.31	1.41	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
2	38.68	0.24	0.62	0.09	silty sand to sandy silt	70-80	46-48	12	UNDEFINED
3	72.18	0.30	0.42	0.15	sand to silty sand	80-90	46-48	17	UNDEFINED
4	53.45	0.19	0.36	0.22	sand to silty sand	70-80	42-44	13	UNDEFINED
5	55.87	0.26	0.46	0.28	sand to silty sand	60-70	42-44	13	UNDEFINED
6	171.51	0.84	0.49	0.33	sand	>90	46-48	33	UNDEFINED
7	186.67	1.45	0.78	0.39	sand	>90	46-48	36	UNDEFINED
8	159.20	0.91	0.57	0.45	sand	>90	44-46	30	UNDEFINED
9	195.03	0.88	0.45	0.51	sand	>90	44-46	37	UNDEFINED
10	192.88	1.00	0.52	0.57	sand	>90	44-46	37	UNDEFINED
11	188.06	1.07	0.57	0.63	sand	>90	44-46	36	UNDEFINED
12	135.34	0.78	0.58	0.69	sand	80-90	42-44	26	UNDEFINED
13	210.11	1.44	0.69	0.75	sand	>90	42-44	40	UNDEFINED
14	249.05	3.08	1.24	0.81	sand	>90	44-46	48	UNDEFINED
15	200.57	1.84	0.92	0.87	sand	80-90	42-44	38	UNDEFINED
16	141.59	0.99	0.70	0.93	sand	70-80	40-42	27	UNDEFINED
17	96.14	1.41	1.47	0.98	sand to silty sand	60-70	38-40	23	UNDEFINED
18	121.88	1.71	1.40	1.04	sand to silty sand	70-80	38-40	29	UNDEFINED
19	108.42	1.66	1.53	1.10	sand to silty sand	60-70	38-40	26	UNDEFINED
20	110.30	2.00	1.81	1.16	silty sand to sandy silt	60-70	36-38	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-3A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:02:97 11:11
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	20.93	0.19	0.92	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
2	39.13	0.06	0.14	0.09	sand to silty sand	70-80	46-48	9	UNDEFINED
3	48.80	0.07	0.14	0.15	sand to silty sand	70-80	44-46	12	UNDEFINED
4	47.60	0.10	0.21	0.22	sand to silty sand	60-70	42-44	11	UNDEFINED
5	43.32	0.08	0.18	0.28	sand to silty sand	60-70	40-42	10	UNDEFINED
6	102.94	0.47	0.45	0.33	sand	80-90	44-46	20	UNDEFINED
7	176.42	0.96	0.55	0.39	sand	>90	46-48	34	UNDEFINED
8	161.24	0.82	0.51	0.45	sand	>90	44-46	31	UNDEFINED
9	167.91	0.80	0.48	0.51	sand	>90	44-46	32	UNDEFINED
10	149.08	0.66	0.44	0.57	sand	80-90	42-44	29	UNDEFINED
11	184.34	1.09	0.59	0.63	sand	>90	44-46	35	UNDEFINED
12	165.65	1.49	0.90	0.69	sand	80-90	42-44	32	UNDEFINED
13	213.39	1.72	0.81	0.75	sand	>90	44-46	41	UNDEFINED
14	252.45	4.58	1.81	0.81	sand to silty sand	>90	44-46	>50	UNDEFINED
15	157.62	1.70	1.08	0.87	sand	80-90	40-42	30	UNDEFINED
16	147.82	1.93	1.31	0.93	sand to silty sand	70-80	40-42	35	UNDEFINED
17	90.35	1.03	1.14	0.98	sand to silty sand	60-70	36-38	22	UNDEFINED
18	89.24	1.48	1.66	1.04	silty sand to sandy silt	60-70	36-38	28	UNDEFINED
19	185.97	1.67	0.90	1.10	sand	80-90	40-42	36	UNDEFINED
20	201.29	2.55	1.27	1.16	sand	80-90	40-42	39	UNDEFINED
21	106.73	1.65	1.55	1.23	sand to silty sand	60-70	36-38	26	UNDEFINED
22	113.00	1.59	1.41	1.29	sand to silty sand	60-70	36-38	27	UNDEFINED
23	142.90	1.77	1.24	1.35	sand to silty sand	70-80	38-40	34	UNDEFINED
24	92.13	1.59	1.73	1.41	silty sand to sandy silt	50-60	34-36	29	UNDEFINED
25	83.33	0.42	0.50	1.48	sand to silty sand	50-60	34-36	20	UNDEFINED
26	77.26	0.42	0.54	1.54	sand to silty sand	50-60	32-34	19	UNDEFINED
27	80.64	0.58	0.72	1.59	sand to silty sand	50-60	32-34	19	UNDEFINED
28	80.46	0.57	0.71	1.65	sand to silty sand	50-60	32-34	19	UNDEFINED
29	73.75	0.48	0.65	1.71	sand to silty sand	50-60	32-34	18	UNDEFINED
30	65.70	0.37	0.57	1.77	sand to silty sand	40-50	30-32	16	UNDEFINED
31	74.00	0.41	0.55	1.83	sand to silty sand	40-50	32-34	18	UNDEFINED
32	69.34	0.29	0.42	1.89	sand to silty sand	40-50	30-32	17	UNDEFINED
33	75.76	0.35	0.46	1.95	sand to silty sand	40-50	32-34	18	UNDEFINED
34	78.09	0.43	0.54	1.99	sand to silty sand	40-50	32-34	19	UNDEFINED
35	84.15	0.43	0.51	2.02	sand to silty sand	50-60	32-34	20	UNDEFINED
36	93.29	0.48	0.51	2.04	sand to silty sand	50-60	32-34	22	UNDEFINED
37	92.65	0.47	0.50	2.07	sand to silty sand	50-60	32-34	22	UNDEFINED
38	83.40	0.43	0.51	2.10	sand to silty sand	50-60	32-34	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	76.32	0.37	0.48	2.13	sand to silty sand	40-50	30-32	18	UNDEFINED
40	74.72	0.37	0.49	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	83.43	0.40	0.48	2.19	sand to silty sand	50-60	30-32	20	UNDEFINED
42	87.17	0.43	0.49	2.22	sand to silty sand	50-60	32-34	21	UNDEFINED
43	93.68	0.47	0.50	2.25	sand	50-60	32-34	18	UNDEFINED
44	94.27	0.47	0.50	2.28	sand	50-60	32-34	18	UNDEFINED
45	89.03	0.37	0.41	2.31	sand	50-60	30-32	17	UNDEFINED
46	92.06	0.47	0.51	2.34	sand to silty sand	50-60	32-34	22	UNDEFINED
47	113.39	0.58	0.51	2.36	sand	50-60	32-34	22	UNDEFINED
48	132.70	0.78	0.59	2.39	sand	60-70	34-36	25	UNDEFINED
49	143.81	0.91	0.63	2.42	sand	60-70	34-36	28	UNDEFINED
50	126.72	0.78	0.61	2.45	sand	60-70	34-36	24	UNDEFINED
51	106.04	0.50	0.47	2.48	sand	50-60	32-34	20	UNDEFINED
52	100.89	0.45	0.45	2.51	sand	50-60	32-34	19	UNDEFINED
53	113.58	0.63	0.55	2.53	sand	50-60	32-34	22	UNDEFINED
54	150.09	0.80	0.53	2.56	sand	60-70	34-36	29	UNDEFINED
55	156.41	1.19	0.76	2.59	sand	60-70	34-36	30	UNDEFINED
56	151.18	1.38	0.91	2.62	sand	60-70	34-36	29	UNDEFINED
57	129.22	1.39	1.07	2.65	sand to silty sand	60-70	32-34	31	UNDEFINED
58	127.34	1.37	1.07	2.68	sand to silty sand	50-60	32-34	30	UNDEFINED
59	155.94	1.67	1.07	2.70	sand	60-70	34-36	30	UNDEFINED
60	146.42	1.76	1.20	2.73	sand to silty sand	60-70	34-36	35	UNDEFINED
61	149.92	1.78	1.19	2.76	sand to silty sand	60-70	34-36	36	UNDEFINED
62	135.14	1.30	0.97	2.79	sand to silty sand	60-70	32-34	32	UNDEFINED
63	141.12	0.85	0.60	2.82	sand	60-70	32-34	27	UNDEFINED
64	173.40	1.41	0.81	2.85	sand	60-70	34-36	33	UNDEFINED
65	164.15	1.04	0.63	2.88	sand	60-70	34-36	31	UNDEFINED
66	171.70	1.21	0.70	2.91	sand	60-70	34-36	33	UNDEFINED
67	179.39	1.48	0.83	2.94	sand	60-70	34-36	34	UNDEFINED
68	168.57	1.17	0.70	2.97	sand	60-70	34-36	32	UNDEFINED
69	186.05	1.41	0.76	3.00	sand	60-70	34-36	36	UNDEFINED
70	196.71	1.34	0.68	3.03	sand	70-80	34-36	38	UNDEFINED
71	196.92	1.66	0.84	3.05	sand	70-80	34-36	38	UNDEFINED
72	210.86	2.02	0.96	3.08	sand	70-80	34-36	40	UNDEFINED
73	215.54	2.06	0.95	3.11	sand	70-80	34-36	41	UNDEFINED
74	208.77	1.85	0.89	3.14	sand	70-80	34-36	40	UNDEFINED
75	216.80	2.03	0.94	3.17	sand	70-80	34-36	42	UNDEFINED
76	226.84	1.86	0.82	3.20	sand	70-80	36-38	43	UNDEFINED
77	210.09	1.48	0.70	3.22	sand	70-80	34-36	40	UNDEFINED
78	185.84	1.13	0.61	3.25	sand	60-70	34-36	36	UNDEFINED
79	186.61	1.25	0.67	3.28	sand	60-70	34-36	36	UNDEFINED
80	223.77	2.23	1.00	3.31	sand	70-80	34-36	43	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	246.94	2.77	1.12	3.34	sand	70-80	36-38	47	UNDEFINED
82	244.71	2.80	1.14	3.37	sand	70-80	36-38	47	UNDEFINED
83	227.01	2.59	1.14	3.39	sand	70-80	34-36	43	UNDEFINED
84	209.12	2.08	0.99	3.42	sand	70-80	34-36	40	UNDEFINED
85	208.94	1.86	0.89	3.46	sand	70-80	34-36	40	UNDEFINED
86	205.29	1.92	0.94	3.48	sand	60-70	34-36	39	UNDEFINED
87	246.51	2.24	0.91	3.51	sand	70-80	36-38	47	UNDEFINED
88	246.01	1.95	0.79	3.54	sand	70-80	34-36	47	UNDEFINED
89	239.29	1.71	0.71	3.57	sand	70-80	34-36	46	UNDEFINED
90	258.69	1.54	0.60	3.60	sand	70-80	36-38	50	UNDEFINED
91	263.91	1.45	0.55	3.63	sand	70-80	36-38	>50	UNDEFINED
92	248.36	1.35	0.54	3.66	sand	70-80	34-36	48	UNDEFINED
93	263.95	1.64	0.62	3.69	sand	70-80	36-38	>50	UNDEFINED
94	306.05	2.00	0.65	3.71	sand	70-80	36-38	>50	UNDEFINED
95	334.29	2.23	0.67	3.74	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
96	317.15	2.04	0.64	3.77	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
97	261.13	1.39	0.53	3.80	sand	70-80	34-36	>50	UNDEFINED
98	233.58	1.15	0.49	3.83	sand	70-80	34-36	45	UNDEFINED
99	202.98	0.97	0.48	3.86	sand	60-70	34-36	39	UNDEFINED
100	195.84	0.91	0.47	3.88	sand	60-70	32-34	38	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-4
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:02:97 13:08
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	45.99	0.90	1.95	0.03	sandy silt to clayey silt	UNDFND	UNDFD	18	3.6
2	69.36	1.32	1.90	0.09	silty sand to sandy silt	>90	>48	22	UNDEFINED
3	129.87	0.86	0.67	0.15	sand	>90	>48	25	UNDEFINED
4	101.93	0.63	0.62	0.22	sand	80-90	46-48	20	UNDEFINED
5	57.26	0.22	0.38	0.28	sand to silty sand	60-70	42-44	14	UNDEFINED
6	95.88	0.43	0.45	0.33	sand	80-90	44-46	18	UNDEFINED
7	93.20	0.47	0.50	0.39	sand to silty sand	70-80	42-44	22	UNDEFINED
8	98.59	0.36	0.36	0.45	sand	70-80	42-44	19	UNDEFINED
9	96.13	0.54	0.56	0.51	sand to silty sand	70-80	40-42	23	UNDEFINED
10	89.60	0.47	0.52	0.57	sand to silty sand	70-80	40-42	21	UNDEFINED
11	123.37	0.77	0.62	0.63	sand	70-80	42-44	24	UNDEFINED
12	107.91	0.46	0.43	0.69	sand	70-80	40-42	21	UNDEFINED
13	129.03	0.98	0.76	0.75	sand	70-80	40-42	25	UNDEFINED
14	156.07	0.60	0.38	0.81	sand	80-90	40-42	30	UNDEFINED
15	138.52	0.73	0.53	0.87	sand	70-80	40-42	27	UNDEFINED
16	136.09	0.52	0.38	0.93	sand	70-80	40-42	26	UNDEFINED
17	102.10	0.95	0.93	0.98	sand to silty sand	60-70	38-40	24	UNDEFINED
18	34.77	0.60	1.73	1.04	sandy silt to clayey silt	UNDFND	UNDFD	13	2.6
19	55.07	0.80	1.45	1.10	silty sand to sandy silt	40-50	32-34	18	UNDEFINED
20	77.61	0.68	0.87	1.16	sand to silty sand	50-60	34-36	19	UNDEFINED
21	144.49	1.16	0.80	1.23	sand	70-80	38-40	28	UNDEFINED
22	123.25	0.96	0.78	1.29	sand	60-70	36-38	24	UNDEFINED
23	108.14	0.96	0.88	1.35	sand to silty sand	60-70	36-38	26	UNDEFINED
24	100.83	1.38	1.37	1.41	sand to silty sand	60-70	36-38	24	UNDEFINED
25	78.38	0.81	1.04	1.48	sand to silty sand	50-60	34-36	19	UNDEFINED
26	60.91	0.73	1.20	1.54	silty sand to sandy silt	40-50	32-34	19	UNDEFINED
27	48.98	0.44	0.91	1.59	silty sand to sandy silt	<40	30-32	16	UNDEFINED
28	116.86	0.38	0.33	1.65	sand	60-70	36-38	22	UNDEFINED
29	114.28	0.82	0.71	1.71	sand	60-70	34-36	22	UNDEFINED
30	102.38	1.81	1.77	1.77	silty sand to sandy silt	50-60	34-36	33	UNDEFINED
31	252.88	3.54	1.40	1.83	sand	80-90	40-42	48	UNDEFINED
32	137.85	1.42	1.03	1.89	sand to silty sand	60-70	36-38	33	UNDEFINED
33	67.71	0.69	1.01	1.95	sand to silty sand	40-50	30-32	16	UNDEFINED
34	56.70	0.71	1.26	1.99	silty sand to sandy silt	40-50	<30	18	UNDEFINED
35	45.81	0.31	0.67	2.02	sand to silty sand	<40	<30	11	UNDEFINED
36	56.58	0.40	0.71	2.04	sand to silty sand	40-50	<30	14	UNDEFINED
37	40.56	0.51	1.26	2.07	silty sand to sandy silt	<40	<30	13	UNDEFINED
38	73.61	0.66	0.90	2.10	sand to silty sand	40-50	30-32	18	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	91.46	0.77	0.84	2.13	sand to silty sand	50-60	32-34	22	UNDEFINED
40	56.73	0.80	1.40	2.16	silty sand to sandy silt	<40	<30	18	UNDEFINED
41	51.89	1.09	2.09	2.19	sandy silt to clayey silt	UNDFND	UNDFD	20	3.9
42	38.54	0.46	1.20	2.22	silty sand to sandy silt	<40	<30	12	UNDEFINED
43	26.08	0.29	1.11	2.25	silty sand to sandy silt	<40	<30	8	UNDEFINED
44	44.93	0.30	0.67	2.28	silty sand to sandy silt	<40	<30	14	UNDEFINED
45	42.79	0.27	0.63	2.31	silty sand to sandy silt	<40	<30	14	UNDEFINED
46	47.58	0.38	0.80	2.34	silty sand to sandy silt	<40	<30	15	UNDEFINED
47	48.02	0.39	0.81	2.36	silty sand to sandy silt	<40	<30	15	UNDEFINED
48	52.93	0.43	0.81	2.39	sand to silty sand	<40	<30	13	UNDEFINED
49	49.41	0.34	0.69	2.42	sand to silty sand	<40	<30	12	UNDEFINED
50	47.26	0.30	0.64	2.45	sand to silty sand	<40	<30	11	UNDEFINED
51	58.87	0.36	0.61	2.48	sand to silty sand	<40	<30	14	UNDEFINED
52	63.09	0.40	0.64	2.51	sand to silty sand	40-50	<30	15	UNDEFINED
53	68.14	0.47	0.69	2.53	sand to silty sand	40-50	<30	16	UNDEFINED
54	66.45	0.42	0.64	2.56	sand to silty sand	40-50	<30	16	UNDEFINED
55	65.66	0.36	0.54	2.59	sand to silty sand	40-50	<30	16	UNDEFINED
56	66.29	0.32	0.49	2.62	sand to silty sand	40-50	<30	16	UNDEFINED
57	59.75	0.32	0.53	2.65	sand to silty sand	<40	<30	14	UNDEFINED
58	63.00	0.38	0.60	2.68	sand to silty sand	<40	<30	15	UNDEFINED
59	65.29	0.37	0.56	2.70	sand to silty sand	40-50	<30	16	UNDEFINED
60	65.43	0.37	0.57	2.73	sand to silty sand	40-50	<30	16	UNDEFINED
1	76.02	0.61	0.81	2.76	sand to silty sand	40-50	<30	18	UNDEFINED
2	82.65	0.83	1.00	2.79	sand to silty sand	40-50	30-32	20	UNDEFINED
63	76.63	0.94	1.22	2.82	sand to silty sand	40-50	<30	18	UNDEFINED
64	62.74	0.83	1.32	2.85	silty sand to sandy silt	<40	<30	20	UNDEFINED
65	76.53	0.73	0.96	2.88	sand to silty sand	40-50	<30	18	UNDEFINED
66	64.57	0.49	0.76	2.91	sand to silty sand	<40	<30	15	UNDEFINED
67	71.77	0.54	0.75	2.94	sand to silty sand	40-50	<30	17	UNDEFINED
68	96.03	0.95	0.99	2.97	sand to silty sand	40-50	30-32	23	UNDEFINED
69	98.01	1.01	1.03	3.00	sand to silty sand	50-60	30-32	23	UNDEFINED
70	91.32	0.65	0.71	3.03	sand to silty sand	40-50	30-32	22	UNDEFINED
71	98.54	0.76	0.77	3.05	sand to silty sand	50-60	30-32	24	UNDEFINED
72	101.88	0.98	0.96	3.08	sand to silty sand	50-60	30-32	24	UNDEFINED
73	97.78	0.88	0.91	3.11	sand to silty sand	40-50	30-32	23	UNDEFINED
74	89.82	0.62	0.69	3.14	sand to silty sand	40-50	<30	22	UNDEFINED
75	100.54	0.69	0.69	3.17	sand to silty sand	50-60	30-32	24	UNDEFINED
76	113.70	1.05	0.92	3.20	sand to silty sand	50-60	30-32	27	UNDEFINED
77	118.19	1.17	0.99	3.22	sand to silty sand	50-60	30-32	28	UNDEFINED
78	115.18	0.94	0.81	3.25	sand to silty sand	50-60	30-32	28	UNDEFINED
79	118.99	0.88	0.74	3.28	sand	50-60	30-32	23	UNDEFINED
80	115.27	0.85	0.74	3.31	sand	50-60	30-32	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* * Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	132.28	1.07	0.81	3.34	sand	50-60	32-34	25	UNDEFINED
82	157.45	1.79	1.14	3.37	sand to silty sand	60-70	32-34	38	UNDEFINED
83	158.11	2.06	1.31	3.39	sand to silty sand	60-70	32-34	38	UNDEFINED
84	152.66	2.10	1.38	3.42	sand to silty sand	60-70	32-34	37	UNDEFINED
85	151.72	1.98	1.30	3.46	sand to silty sand	60-70	32-34	36	UNDEFINED
86	129.09	1.30	1.01	3.48	sand to silty sand	50-60	30-32	31	UNDEFINED
87	134.14	1.19	0.89	3.51	sand	50-60	30-32	26	UNDEFINED
88	142.83	1.16	0.81	3.54	sand	50-60	32-34	27	UNDEFINED
89	154.43	1.57	1.02	3.57	sand	60-70	32-34	30	UNDEFINED
90	141.90	1.22	0.86	3.60	sand	50-60	32-34	27	UNDEFINED
91	134.43	0.76	0.57	3.63	sand	50-60	30-32	26	UNDEFINED
92	156.86	0.89	0.57	3.66	sand	60-70	32-34	30	UNDEFINED
93	175.11	1.35	0.77	3.69	sand	60-70	32-34	34	UNDEFINED
94	170.16	1.03	0.61	3.71	sand	60-70	32-34	33	UNDEFINED
95	174.96	1.00	0.57	3.74	sand	60-70	32-34	34	UNDEFINED
96	188.84	1.08	0.57	3.77	sand	60-70	32-34	36	UNDEFINED
97	203.59	1.14	0.56	3.80	sand	60-70	34-36	39	UNDEFINED
98	205.71	1.10	0.54	3.83	sand	60-70	34-36	39	UNDEFINED
99	211.60	1.40	0.66	3.86	sand	60-70	34-36	41	UNDEFINED
100	213.39	1.27	0.59	3.88	sand	60-70	34-36	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-5
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:03:97 08:15
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.23	0.09	0.67	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
2	41.37	0.31	0.75	0.09	silty sand to sandy silt	70-80	46-48	13	UNDEFINED
3	49.64	1.15	2.31	0.15	sandy silt to clayey silt	UNDFND	UNDFD	19	3.9
4	204.43	1.79	0.88	0.22	sand	>90	>48	39	UNDEFINED
5	196.64	1.48	0.75	0.28	sand	>90	>48	38	UNDEFINED
6	114.11	0.61	0.53	0.33	sand	80-90	44-46	22	UNDEFINED
7	148.28	0.77	0.52	0.39	sand	>90	44-46	28	UNDEFINED
8	198.24	0.91	0.46	0.45	sand	>90	46-48	38	UNDEFINED
9	150.27	0.63	0.42	0.51	sand	80-90	44-46	29	UNDEFINED
10	196.50	1.14	0.58	0.57	sand	>90	44-46	38	UNDEFINED
11	120.89	0.69	0.57	0.63	sand	70-80	40-42	23	UNDEFINED
12	101.38	0.53	0.52	0.69	sand	70-80	40-42	19	UNDEFINED
13	113.02	0.47	0.42	0.75	sand	70-80	40-42	22	UNDEFINED
14	99.88	0.50	0.50	0.81	sand	60-70	38-40	19	UNDEFINED
15	98.25	0.40	0.41	0.87	sand	60-70	38-40	19	UNDEFINED
16	135.30	0.57	0.42	0.93	sand	70-80	40-42	26	UNDEFINED
17	129.12	0.65	0.50	0.98	sand	70-80	38-40	25	UNDEFINED
18	134.31	0.53	0.39	1.04	sand	70-80	38-40	26	UNDEFINED
19	150.38	0.62	0.41	1.10	sand	70-80	40-42	29	UNDEFINED
20	160.39	0.68	0.42	1.16	sand	70-80	40-42	31	UNDEFINED
1	156.28	0.79	0.51	1.23	sand	70-80	38-40	30	UNDEFINED
2	117.07	0.57	0.48	1.29	sand	60-70	36-38	22	UNDEFINED
23	115.62	0.45	0.39	1.35	sand	60-70	36-38	22	UNDEFINED
24	123.04	0.56	0.45	1.41	sand	60-70	36-38	24	UNDEFINED
25	141.88	0.82	0.58	1.48	sand	70-80	36-38	27	UNDEFINED
26	183.94	1.03	0.56	1.54	sand	70-80	38-40	35	UNDEFINED
27	153.80	0.90	0.59	1.59	sand	70-80	38-40	29	UNDEFINED
28	146.69	0.78	0.53	1.65	sand	70-80	36-38	28	UNDEFINED
29	155.28	0.72	0.46	1.71	sand	70-80	36-38	30	UNDEFINED
30	152.58	0.95	0.62	1.77	sand	70-80	36-38	29	UNDEFINED
31	206.08	1.74	0.85	1.83	sand	70-80	38-40	39	UNDEFINED
32	208.28	1.81	0.87	1.89	sand	70-80	38-40	40	UNDEFINED
33	197.24	1.12	0.57	1.95	sand	70-80	38-40	38	UNDEFINED
34	171.65	0.46	0.27	1.99	sand	70-80	36-38	33	UNDEFINED
35	175.82	0.48	0.27	2.02	sand	70-80	36-38	34	UNDEFINED
36	219.62	2.72	1.24	2.04	sand	70-80	38-40	42	UNDEFINED
37	139.24	1.52	1.09	2.07	sand to silty sand	60-70	34-36	33	UNDEFINED
38	136.40	0.87	0.64	2.10	sand	60-70	34-36	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	131.07	0.55	0.42	2.13	sand	60-70	34-36	25	UNDEFINED
40	96.36	0.52	0.54	2.16	sand	50-60	32-34	18	UNDEFINED
41	203.95	2.39	1.17	2.19	sand	70-80	36-38	39	UNDEFINED
42	186.45	0.98	0.52	2.22	sand	70-80	36-38	36	UNDEFINED
43	164.79	0.53	0.32	2.25	sand	60-70	36-38	32	UNDEFINED
44	155.56	0.70	0.45	2.28	sand	60-70	34-36	30	UNDEFINED
45	134.57	0.53	0.40	2.31	sand	60-70	34-36	26	UNDEFINED
46	122.58	0.49	0.40	2.34	sand	60-70	34-36	23	UNDEFINED
47	125.01	0.40	0.32	2.36	sand	60-70	34-36	24	UNDEFINED
48	136.96	1.28	0.93	2.39	sand	60-70	34-36	26	UNDEFINED
49	136.53	0.58	0.43	2.42	sand	60-70	34-36	26	UNDEFINED
50	129.62	1.08	0.84	2.45	sand	60-70	34-36	25	UNDEFINED
51	29.23	0.55	1.89	2.48	sandy silt to clayey silt	UNDFND	UNDFD	11	2.0
52	19.64	0.29	1.49	2.51	sandy silt to clayey silt	UNDFND	UNDFD	8	1.3
53	22.36	0.48	2.13	2.53	sandy silt to clayey silt	UNDFND	UNDFD	9	1.5
54	17.52	0.34	1.93	2.56	sandy silt to clayey silt	UNDFND	UNDFD	7	1.1
55	24.27	0.37	1.54	2.59	sandy silt to clayey silt	UNDFND	UNDFD	9	1.6
56	25.85	0.71	2.75	2.62	clayey silt to silty clay	UNDFND	UNDFD	12	1.8
57	25.07	0.86	3.41	2.65	clayey silt to silty clay	UNDFND	UNDFD	12	1.7
58	167.05	1.26	0.75	2.68	sand	60-70	34-36	32	UNDEFINED
59	217.66	1.40	0.64	2.70	sand	70-80	36-38	42	UNDEFINED
60	255.14	1.67	0.65	2.73	sand	70-80	36-38	49	UNDEFINED
61	243.18	3.50	1.44	2.76	sand to silty sand	70-80	36-38	>50	UNDEFINED
62	226.29	1.62	0.72	2.79	sand	70-80	36-38	43	UNDEFINED
63	194.28	0.95	0.49	2.82	sand	70-80	34-36	37	UNDEFINED
64	190.34	1.11	0.58	2.85	sand	70-80	34-36	36	UNDEFINED
65	197.79	1.00	0.50	2.88	sand	70-80	34-36	38	UNDEFINED
66	192.22	1.22	0.63	2.91	sand	70-80	34-36	37	UNDEFINED
67	192.14	0.75	0.39	2.94	sand	60-70	34-36	37	UNDEFINED
68	159.50	0.59	0.37	2.97	sand	60-70	34-36	31	UNDEFINED
69	185.29	1.03	0.56	3.00	sand	60-70	34-36	35	UNDEFINED
70	232.26	1.40	0.60	3.03	sand	70-80	36-38	44	UNDEFINED
71	259.18	1.58	0.61	3.05	sand	70-80	36-38	50	UNDEFINED
72	197.56	2.09	1.06	3.08	sand	70-80	34-36	38	UNDEFINED
73	241.50	1.69	0.70	3.11	sand	70-80	36-38	46	UNDEFINED
74	209.96	2.89	1.38	3.14	sand to silty sand	70-80	34-36	>50	UNDEFINED
75	216.85	1.89	0.87	3.17	sand	70-80	34-36	42	UNDEFINED
76	63.94	1.42	2.22	3.20	silty sand to sandy silt	<40	<30	20	UNDEFINED
77	157.46	1.22	0.78	3.22	sand	60-70	32-34	30	UNDEFINED
78	149.99	0.83	0.55	3.25	sand	60-70	32-34	29	UNDEFINED
79	127.90	0.72	0.56	3.28	sand	50-60	32-34	25	UNDEFINED
80	124.82	0.87	0.70	3.31	sand	50-60	30-32	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* * Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	136.13	1.02	0.75	3.34	sand	50-60	32-34	26	UNDEFINED
82	144.97	1.11	0.76	3.37	sand	50-60	32-34	28	UNDEFINED
83	151.95	1.11	0.73	3.39	sand	60-70	32-34	29	UNDEFINED
84	143.67	1.02	0.71	3.42	sand	50-60	32-34	28	UNDEFINED
85	154.88	1.16	0.75	3.46	sand	60-70	32-34	30	UNDEFINED
86	160.53	1.26	0.79	3.48	sand	60-70	32-34	31	UNDEFINED
87	165.69	1.26	0.76	3.51	sand	60-70	32-34	32	UNDEFINED
88	167.27	1.29	0.77	3.54	sand	60-70	32-34	32	UNDEFINED
89	153.96	1.13	0.74	3.57	sand	60-70	32-34	29	UNDEFINED
90	152.72	0.93	0.61	3.60	sand	60-70	32-34	29	UNDEFINED
91	165.30	1.00	0.60	3.63	sand	60-70	32-34	32	UNDEFINED
92	204.09	1.51	0.74	3.66	sand	60-70	34-36	39	UNDEFINED
93	184.14	1.38	0.75	3.69	sand	60-70	32-34	35	UNDEFINED
94	199.97	1.50	0.75	3.71	sand	60-70	34-36	38	UNDEFINED
95	223.24	2.58	1.16	3.74	sand	70-80	34-36	43	UNDEFINED
96	252.89	3.40	1.34	3.77	sand	70-80	34-36	48	UNDEFINED
97	245.59	2.94	1.20	3.80	sand	70-80	34-36	47	UNDEFINED
98	190.95	1.29	0.67	3.83	sand	60-70	32-34	37	UNDEFINED
99	212.51	1.67	0.79	3.86	sand	60-70	34-36	41	UNDEFINED
100	240.34	2.42	1.01	3.88	sand	70-80	34-36	46	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-6
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:04:97 15:02
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	20.80	0.40	1.94	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
2	35.21	0.17	0.49	0.09	silty sand to sandy silt	70-80	44-46	11	UNDEFINED
3	72.12	0.35	0.48	0.15	sand to silty sand	80-90	46-48	17	UNDEFINED
4	86.84	0.45	0.52	0.22	sand to silty sand	80-90	44-46	21	UNDEFINED
5	62.81	0.28	0.45	0.28	sand to silty sand	70-80	42-44	15	UNDEFINED
6	55.32	0.26	0.47	0.33	sand to silty sand	60-70	40-42	13	UNDEFINED
7	59.29	0.29	0.49	0.39	sand to silty sand	60-70	40-42	14	UNDEFINED
8	127.37	0.70	0.55	0.45	sand	80-90	42-44	24	UNDEFINED
9	150.80	0.82	0.54	0.51	sand	80-90	44-46	29	UNDEFINED
10	77.19	0.46	0.59	0.57	sand to silty sand	60-70	38-40	18	UNDEFINED
11	99.41	0.54	0.54	0.63	sand	70-80	40-42	19	UNDEFINED
12	160.74	1.08	0.67	0.69	sand	80-90	42-44	31	UNDEFINED
13	293.78	3.36	1.14	0.75	sand	>90	44-46	>50	UNDEFINED
14	289.87	3.32	1.15	0.81	sand	>90	44-46	>50	UNDEFINED
15	423.71	5.55	1.31	0.87	sand	>90	46-48	>50	UNDEFINED
16	334.61	4.09	1.22	0.93	sand	>90	44-46	>50	UNDEFINED
17	278.98	3.03	1.08	0.98	sand	>90	42-44	>50	UNDEFINED
18	242.86	3.07	1.27	1.04	sand	>90	42-44	47	UNDEFINED
19	235.38	3.90	1.66	1.10	sand to silty sand	80-90	42-44	>50	UNDEFINED
20	203.62	6.29	3.09	1.16	silty sand to sandy silt	80-90	40-42	>50	UNDEFINED
21	179.63	4.30	2.39	1.23	silty sand to sandy silt	80-90	40-42	>50	UNDEFINED
22	113.89	2.55	2.24	1.29	silty sand to sandy silt	60-70	36-38	36	UNDEFINED
23	151.66	1.66	1.09	1.35	sand to silty sand	70-80	38-40	36	UNDEFINED
24	151.14	1.98	1.31	1.41	sand to silty sand	70-80	38-40	36	UNDEFINED
25	149.30	1.63	1.09	1.48	sand to silty sand	70-80	38-40	36	UNDEFINED
26	119.59	1.20	1.00	1.54	sand to silty sand	60-70	36-38	29	UNDEFINED
27	112.63	1.10	0.98	1.59	sand to silty sand	60-70	36-38	27	UNDEFINED
28	108.40	0.95	0.87	1.65	sand to silty sand	60-70	34-36	26	UNDEFINED
29	111.63	1.03	0.92	1.71	sand to silty sand	60-70	34-36	27	UNDEFINED
30	117.38	0.98	0.84	1.77	sand to silty sand	60-70	34-36	28	UNDEFINED
31	103.50	0.79	0.76	1.83	sand to silty sand	50-60	34-36	25	UNDEFINED
32	98.93	0.75	0.76	1.89	sand to silty sand	50-60	34-36	24	UNDEFINED
33	102.90	0.84	0.82	1.95	sand to silty sand	50-60	34-36	25	UNDEFINED
34	116.61	1.00	0.86	1.99	sand to silty sand	60-70	34-36	28	UNDEFINED
35	125.69	1.05	0.84	2.02	sand	60-70	34-36	24	UNDEFINED
36	110.07	1.00	0.91	2.04	sand to silty sand	50-60	34-36	26	UNDEFINED
37	110.12	1.05	0.95	2.07	sand to silty sand	50-60	34-36	26	UNDEFINED
38	107.56	1.04	0.96	2.10	sand to silty sand	50-60	32-34	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	109.60	1.03	0.94	2.13	sand to silty sand	50-60	32-34	26	UNDEFINED
40	101.59	1.00	0.98	2.16	sand to silty sand	50-60	32-34	24	UNDEFINED
41	109.34	1.08	0.99	2.19	sand to silty sand	50-60	32-34	26	UNDEFINED
42	95.20	0.89	0.94	2.22	sand to silty sand	50-60	32-34	23	UNDEFINED
43	85.89	0.79	0.92	2.25	sand to silty sand	50-60	30-32	21	UNDEFINED
44	87.07	0.82	0.95	2.28	sand to silty sand	50-60	30-32	21	UNDEFINED
45	97.68	0.93	0.95	2.31	sand to silty sand	50-60	32-34	23	UNDEFINED
46	124.78	1.39	1.11	2.34	sand to silty sand	60-70	34-36	30	UNDEFINED
47	121.37	1.61	1.33	2.36	sand to silty sand	50-60	32-34	29	UNDEFINED
48	118.58	1.61	1.36	2.39	sand to silty sand	50-60	32-34	28	UNDEFINED
49	137.41	1.97	1.43	2.42	sand to silty sand	60-70	34-36	33	UNDEFINED
50	141.23	2.26	1.60	2.45	sand to silty sand	60-70	34-36	34	UNDEFINED
51	139.25	2.11	1.51	2.48	sand to silty sand	60-70	34-36	33	UNDEFINED
52	138.68	1.91	1.38	2.51	sand to silty sand	60-70	34-36	33	UNDEFINED
53	113.18	1.65	1.46	2.53	sand to silty sand	50-60	32-34	27	UNDEFINED
54	108.02	1.55	1.43	2.56	sand to silty sand	50-60	32-34	26	UNDEFINED
55	110.43	1.54	1.40	2.59	sand to silty sand	50-60	32-34	26	UNDEFINED
56	114.67	1.36	1.18	2.62	sand to silty sand	50-60	32-34	27	UNDEFINED
57	109.24	1.22	1.12	2.65	sand to silty sand	50-60	32-34	26	UNDEFINED
58	104.28	1.04	1.00	2.68	sand to silty sand	50-60	32-34	25	UNDEFINED
59	101.26	0.99	0.98	2.70	sand to silty sand	50-60	30-32	24	UNDEFINED
60	105.52	1.03	0.98	2.73	sand to silty sand	50-60	30-32	25	UNDEFINED
61	103.93	1.00	0.96	2.76	sand to silty sand	50-60	30-32	25	UNDEFINED
62	101.65	0.97	0.96	2.79	sand to silty sand	50-60	30-32	24	UNDEFINED
63	106.95	1.03	0.96	2.82	sand to silty sand	50-60	30-32	26	UNDEFINED
64	103.00	0.97	0.94	2.85	sand to silty sand	50-60	30-32	25	UNDEFINED
65	97.85	0.88	0.89	2.88	sand to silty sand	50-60	30-32	23	UNDEFINED
66	101.92	0.99	0.97	2.91	sand to silty sand	50-60	30-32	24	UNDEFINED
67	125.49	1.52	1.22	2.94	sand to silty sand	50-60	32-34	30	UNDEFINED
68	136.73	1.96	1.43	2.97	sand to silty sand	60-70	32-34	33	UNDEFINED
69	149.17	2.36	1.58	3.00	sand to silty sand	60-70	32-34	36	UNDEFINED
70	146.31	2.10	1.43	3.03	sand to silty sand	60-70	32-34	35	UNDEFINED
71	153.09	2.13	1.39	3.05	sand to silty sand	60-70	32-34	37	UNDEFINED
72	145.96	1.77	1.21	3.08	sand to silty sand	60-70	32-34	35	UNDEFINED
73	151.36	2.03	1.34	3.11	sand to silty sand	60-70	32-34	36	UNDEFINED
74	122.18	1.45	1.19	3.14	sand to silty sand	50-60	32-34	29	UNDEFINED
75	107.78	0.95	0.88	3.17	sand to silty sand	50-60	30-32	26	UNDEFINED
76	142.31	1.19	0.84	3.20	sand	60-70	32-34	27	UNDEFINED
77	162.17	1.39	0.86	3.22	sand	60-70	32-34	31	UNDEFINED
78	154.43	1.14	0.74	3.25	sand	60-70	32-34	30	UNDEFINED
79	147.42	1.18	0.80	3.28	sand	60-70	32-34	28	UNDEFINED
80	147.18	1.25	0.85	3.31	sand	60-70	32-34	28	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ***

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	145.68	1.26	0.86	3.34	sand	60-70	32-34	28	UNDEFINED
82	145.88	1.35	0.93	3.37	sand	60-70	32-34	28	UNDEFINED
83	192.16	2.49	1.30	3.39	sand to silty sand	60-70	34-36	46	UNDEFINED
84	153.77	1.35	0.88	3.42	sand	60-70	32-34	29	UNDEFINED
85	164.65	2.93	1.78	3.46	sand to silty sand	60-70	32-34	39	UNDEFINED
86	153.05	1.17	0.77	3.48	sand	60-70	32-34	29	UNDEFINED
87	165.50	1.33	0.81	3.51	sand	60-70	32-34	32	UNDEFINED
88	164.25	1.33	0.81	3.54	sand	60-70	32-34	31	UNDEFINED
89	166.17	1.40	0.84	3.57	sand	60-70	32-34	32	UNDEFINED
90	176.57	1.61	0.91	3.60	sand	60-70	32-34	34	UNDEFINED
91	177.41	1.64	0.93	3.63	sand	60-70	32-34	34	UNDEFINED
92	179.45	1.62	0.90	3.66	sand	60-70	32-34	34	UNDEFINED
93	169.99	1.45	0.85	3.69	sand	60-70	32-34	33	UNDEFINED
94	171.54	1.59	0.93	3.71	sand	60-70	32-34	33	UNDEFINED
95	184.50	1.63	0.88	3.74	sand	60-70	32-34	35	UNDEFINED
96	174.86	1.56	0.89	3.77	sand	60-70	32-34	33	UNDEFINED
97	183.02	1.79	0.98	3.80	sand	60-70	32-34	35	UNDEFINED
98	209.62	2.09	1.00	3.83	sand	60-70	34-36	40	UNDEFINED
99	188.45	1.84	0.98	3.86	sand	60-70	32-34	36	UNDEFINED
100	183.07	2.05	1.12	3.88	sand	60-70	32-34	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-7
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:04:97 12:58
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	5.23	0.24	4.65	0.03	clay	UNDFND	UNDFD	5	.4
2	9.89	0.30	3.07	0.09	silty clay to clay	UNDFND	UNDFD	6	.7
3	33.16	0.42	1.25	0.15	silty sand to sandy silt	60-70	42-44	11	UNDEFINED
4	73.37	0.48	0.66	0.22	sand to silty sand	70-80	44-46	18	UNDEFINED
5	81.57	0.56	0.69	0.28	sand to silty sand	70-80	44-46	20	UNDEFINED
6	81.83	0.54	0.66	0.33	sand to silty sand	70-80	42-44	20	UNDEFINED
7	47.75	0.27	0.56	0.39	sand to silty sand	50-60	38-40	11	UNDEFINED
8	43.41	0.18	0.41	0.45	sand to silty sand	50-60	36-38	10	UNDEFINED
9	61.05	0.29	0.47	0.51	sand to silty sand	60-70	38-40	15	UNDEFINED
10	81.26	0.49	0.60	0.57	sand to silty sand	60-70	40-42	19	UNDEFINED
11	90.45	0.71	0.78	0.63	sand to silty sand	70-80	40-42	22	UNDEFINED
12	182.14	1.26	0.69	0.69	sand	80-90	42-44	35	UNDEFINED
13	220.58	2.16	0.98	0.75	sand	>90	44-46	42	UNDEFINED
14	283.94	2.63	0.93	0.81	sand	>90	44-46	>50	UNDEFINED
15	242.07	1.43	0.59	0.87	sand	>90	42-44	46	UNDEFINED
16	286.89	3.09	1.08	0.93	sand	>90	44-46	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-7A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:04:97 13:18
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.08	0.33	2.51	0.03	clayey silt to silty clay	UNDFND	UNDFD	6	1.0
2	19.93	0.46	2.33	0.09	clayey silt to silty clay	UNDFND	UNDFD	10	1.5
3	44.10	0.52	1.19	0.15	silty sand to sandy silt	70-80	44-46	14	UNDEFINED
4	75.82	0.34	0.44	0.22	sand to silty sand	80-90	44-46	18	UNDEFINED
5	75.24	0.28	0.37	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	86.43	0.32	0.38	0.33	sand	70-80	42-44	17	UNDEFINED
7	67.15	0.31	0.46	0.39	sand to silty sand	60-70	40-42	16	UNDEFINED
8	46.07	0.16	0.35	0.45	sand to silty sand	50-60	38-40	11	UNDEFINED
9	62.22	0.24	0.38	0.51	sand to silty sand	60-70	38-40	15	UNDEFINED
10	80.83	0.40	0.49	0.57	sand to silty sand	60-70	40-42	19	UNDEFINED
11	126.30	0.65	0.51	0.63	sand	70-80	42-44	24	UNDEFINED
12	157.81	0.71	0.45	0.69	sand	80-90	42-44	30	UNDEFINED
13	243.74	1.72	0.70	0.75	sand	>90	44-46	47	UNDEFINED
14	253.72	1.47	0.58	0.81	sand	>90	44-46	49	UNDEFINED
15	210.81	2.03	0.96	0.87	sand	>90	42-44	40	UNDEFINED
16	237.70	1.90	0.80	0.93	sand	>90	42-44	46	UNDEFINED
17	424.28	5.03	1.19	0.98	sand	>90	46-48	>50	UNDEFINED
18	292.27	2.62	0.90	1.04	sand	>90	42-44	>50	UNDEFINED
19	268.80	1.87	0.70	1.10	sand	>90	42-44	>50	UNDEFINED
20	276.11	2.59	0.94	1.16	sand	>90	42-44	>50	UNDEFINED
1	241.86	2.75	1.14	1.23	sand	80-90	42-44	46	UNDEFINED
2	205.10	1.06	0.52	1.29	sand	80-90	40-42	39	UNDEFINED
23	258.68	2.50	0.97	1.35	sand	80-90	40-42	50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-7B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:04:97 13:37
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	19.36	0.27	1.37	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
2	36.22	0.17	0.46	0.09	silty sand to sandy silt	70-80	44-46	12	UNDEFINED
3	63.82	0.22	0.34	0.15	sand to silty sand	80-90	44-46	15	UNDEFINED
4	79.17	0.31	0.39	0.22	sand to silty sand	80-90	44-46	19	UNDEFINED
5	89.73	0.34	0.38	0.28	sand	80-90	44-46	17	UNDEFINED
6	80.43	0.40	0.50	0.33	sand to silty sand	70-80	42-44	19	UNDEFINED
7	69.16	0.34	0.49	0.39	sand to silty sand	60-70	40-42	17	UNDEFINED
8	65.00	0.30	0.46	0.45	sand to silty sand	60-70	40-42	16	UNDEFINED
9	49.75	0.18	0.37	0.51	sand to silty sand	50-60	38-40	12	UNDEFINED
10	62.08	0.27	0.44	0.57	sand to silty sand	60-70	38-40	15	UNDEFINED
11	101.43	0.57	0.57	0.63	sand	70-80	40-42	19	UNDEFINED
12	224.93	1.58	0.70	0.69	sand	>90	44-46	43	UNDEFINED
13	220.73	1.41	0.64	0.75	sand	>90	44-46	42	UNDEFINED
14	159.90	1.72	1.08	0.81	sand	80-90	42-44	31	UNDEFINED
15	262.78	2.67	1.01	0.87	sand	>90	44-46	>50	UNDEFINED
16	279.11	1.71	0.61	0.93	sand	>90	44-46	>50	UNDEFINED
17	334.99	4.07	1.22	0.98	sand	>90	44-46	>50	UNDEFINED
18	285.05	2.83	0.99	1.04	sand	>90	42-44	>50	UNDEFINED
19	446.48	4.40	0.99	1.10	sand	>90	44-46	>50	UNDEFINED
20	459.18	5.71	1.24	1.16	sand	>90	44-46	>50	UNDEFINED
21	399.29	9.93	2.49	1.23	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
22	232.52	1.89	0.81	1.29	sand	80-90	40-42	45	UNDEFINED
23	178.85	1.00	0.56	1.35	sand	70-80	38-40	34	UNDEFINED
24	272.50	4.00	1.47	1.41	sand to silty sand	>90	40-42	>50	UNDEFINED
25	139.96	2.95	2.11	1.48	silty sand to sandy silt	70-80	36-38	45	UNDEFINED
26	175.51	1.07	0.61	1.54	sand	70-80	38-40	34	UNDEFINED
27	144.81	1.02	0.70	1.59	sand	70-80	36-38	28	UNDEFINED
28	123.67	0.88	0.71	1.65	sand	60-70	36-38	24	UNDEFINED
29	112.67	0.93	0.82	1.71	sand to silty sand	60-70	34-36	27	UNDEFINED
30	109.27	0.89	0.81	1.77	sand to silty sand	60-70	34-36	26	UNDEFINED
31	131.52	1.00	0.76	1.83	sand	60-70	36-38	25	UNDEFINED
32	151.85	1.13	0.75	1.89	sand	60-70	36-38	29	UNDEFINED
33	156.96	1.12	0.71	1.95	sand	70-80	36-38	30	UNDEFINED
34	166.61	1.31	0.78	1.99	sand	70-80	36-38	32	UNDEFINED
35	177.87	1.38	0.78	2.02	sand	70-80	36-38	34	UNDEFINED
36	233.50	1.98	0.85	2.04	sand	80-90	38-40	45	UNDEFINED
37	292.63	2.97	1.01	2.07	sand	80-90	40-42	>50	UNDEFINED
38	270.94	2.78	1.03	2.10	sand	80-90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****
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PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	194.82	1.49	0.76	2.13	sand	70-80	36-38	37	UNDEFINED
40	151.74	0.83	0.54	2.16	sand	60-70	36-38	29	UNDEFINED
41	157.57	1.10	0.69	2.19	sand	60-70	36-38	30	UNDEFINED
42	171.54	1.34	0.78	2.22	sand	70-80	36-38	33	UNDEFINED
43	182.39	1.43	0.79	2.25	sand	70-80	36-38	35	UNDEFINED
44	194.91	1.85	0.95	2.28	sand	70-80	36-38	37	UNDEFINED
45	219.16	2.04	0.93	2.31	sand	70-80	36-38	42	UNDEFINED
46	215.56	1.95	0.90	2.34	sand	70-80	36-38	41	UNDEFINED
47	220.70	1.84	0.83	2.36	sand	70-80	36-38	42	UNDEFINED
48	207.41	1.61	0.78	2.39	sand	70-80	36-38	40	UNDEFINED
49	179.50	1.36	0.76	2.42	sand	70-80	36-38	34	UNDEFINED
50	155.79	1.16	0.75	2.45	sand	60-70	34-36	30	UNDEFINED
51	156.51	1.10	0.70	2.48	sand	60-70	34-36	30	UNDEFINED
52	137.43	1.08	0.79	2.51	sand	60-70	34-36	26	UNDEFINED
53	131.76	1.01	0.77	2.53	sand	60-70	34-36	25	UNDEFINED
54	149.30	1.17	0.78	2.56	sand	60-70	34-36	29	UNDEFINED
55	171.11	1.70	0.99	2.59	sand	60-70	34-36	33	UNDEFINED
56	196.21	2.29	1.17	2.62	sand	70-80	36-38	38	UNDEFINED
57	204.48	2.62	1.28	2.65	sand	70-80	36-38	39	UNDEFINED
58	188.12	2.41	1.28	2.68	sand to silty sand	70-80	36-38	45	UNDEFINED
59	177.66	1.76	0.99	2.70	sand	60-70	34-36	34	UNDEFINED
60	181.44	2.04	1.13	2.73	sand	60-70	34-36	35	UNDEFINED
1	193.15	2.37	1.22	2.76	sand	70-80	34-36	37	UNDEFINED
62	182.45	2.25	1.23	2.79	sand to silty sand	60-70	34-36	44	UNDEFINED
63	155.76	1.23	0.79	2.82	sand	60-70	34-36	30	UNDEFINED
64	165.75	1.56	0.94	2.85	sand	60-70	34-36	32	UNDEFINED
65	185.09	1.98	1.07	2.88	sand	60-70	34-36	35	UNDEFINED
66	188.29	2.00	1.06	2.91	sand	60-70	34-36	36	UNDEFINED
67	193.55	1.81	0.94	2.94	sand	70-80	34-36	37	UNDEFINED
68	211.57	2.19	1.03	2.97	sand	70-80	36-38	41	UNDEFINED
69	220.19	2.12	0.96	3.00	sand	70-80	36-38	42	UNDEFINED
70	208.22	2.24	1.07	3.03	sand	70-80	34-36	40	UNDEFINED
71	189.39	2.08	1.10	3.05	sand	60-70	34-36	36	UNDEFINED
72	200.71	2.42	1.20	3.08	sand	70-80	34-36	38	UNDEFINED
73	188.47	2.26	1.20	3.11	sand	60-70	34-36	36	UNDEFINED
74	193.62	2.11	1.09	3.14	sand	60-70	34-36	37	UNDEFINED
75	203.11	2.46	1.21	3.17	sand	70-80	34-36	39	UNDEFINED
76	179.19	1.55	0.86	3.20	sand	60-70	34-36	34	UNDEFINED
77	178.46	1.31	0.74	3.22	sand	60-70	34-36	34	UNDEFINED
78	200.85	1.82	0.91	3.25	sand	60-70	34-36	38	UNDEFINED
79	228.97	2.69	1.18	3.28	sand	70-80	34-36	44	UNDEFINED
80	212.41	2.97	1.40	3.31	sand to silty sand	70-80	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* * Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	180.78	2.16	1.19	3.34	sand	60-70	34-36	35	UNDEFINED
82	188.79	1.94	1.03	3.37	sand	60-70	34-36	36	UNDEFINED
83	219.62	2.64	1.20	3.39	sand	70-80	34-36	42	UNDEFINED
84	213.15	3.18	1.49	3.42	sand to silty sand	70-80	34-36	>50	UNDEFINED
85	202.56	2.26	1.12	3.46	sand	60-70	34-36	39	UNDEFINED
86	231.10	2.80	1.21	3.48	sand	70-80	34-36	44	UNDEFINED
87	239.39	2.72	1.14	3.51	sand	70-80	34-36	46	UNDEFINED
88	225.43	2.08	0.92	3.54	sand	70-80	34-36	43	UNDEFINED
89	208.38	1.54	0.74	3.57	sand	60-70	34-36	40	UNDEFINED
90	179.44	1.07	0.60	3.60	sand	60-70	32-34	34	UNDEFINED
91	170.62	0.92	0.54	3.63	sand	60-70	32-34	33	UNDEFINED
92	170.94	0.84	0.49	3.66	sand	60-70	32-34	33	UNDEFINED
93	198.50	1.04	0.52	3.69	sand	60-70	34-36	38	UNDEFINED
94	215.65	1.82	0.84	3.71	sand	60-70	34-36	41	UNDEFINED
95	200.52	1.08	0.54	3.74	sand	60-70	34-36	38	UNDEFINED
96	216.65	1.18	0.54	3.77	sand	60-70	34-36	42	UNDEFINED
97	203.49	1.14	0.56	3.80	sand	60-70	34-36	39	UNDEFINED
98	255.54	1.76	0.69	3.83	sand	70-80	34-36	49	UNDEFINED
99	258.52	2.00	0.77	3.86	sand	70-80	34-36	50	UNDEFINED
100	240.12	1.05	0.44	3.88	sand	70-80	34-36	46	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-8
Site : ANOKA PARK

CPT Date : 11:03:97 13:37
Geologist : JOSE CERCONE

Water table (feet) : 32.8084

Tot. Unit Wt. (avg) : 120 pcf

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	13.71	0.27	1.99	0.03	clayey silt to silty clay	UNDFND	UNDFD	7	1.0
2	16.12	0.30	1.86	0.09	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
3	56.14	0.51	0.91	0.15	sand to silty sand	70-80	44-46	13	UNDEFINED
4	90.89	0.65	0.72	0.22	sand to silty sand	80-90	44-46	22	UNDEFINED
5	74.31	0.49	0.66	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	36.23	0.24	0.66	0.33	silty sand to sandy silt	50-60	38-40	12	UNDEFINED
7	63.29	0.41	0.64	0.39	sand to silty sand	60-70	40-42	15	UNDEFINED
8	112.03	0.62	0.55	0.45	sand	80-90	42-44	21	UNDEFINED
9	137.68	0.75	0.54	0.51	sand	80-90	42-44	26	UNDEFINED
10	137.44	0.73	0.53	0.57	sand	80-90	42-44	26	UNDEFINED
11	113.23	0.62	0.55	0.63	sand	70-80	40-42	22	UNDEFINED
12	115.18	0.65	0.56	0.69	sand	70-80	40-42	22	UNDEFINED
13	99.15	0.62	0.62	0.75	sand to silty sand	70-80	38-40	24	UNDEFINED
14	125.88	0.69	0.55	0.81	sand	70-80	40-42	24	UNDEFINED
15	181.60	1.54	0.85	0.87	sand	80-90	42-44	35	UNDEFINED
16	143.11	0.85	0.59	0.93	sand	70-80	40-42	27	UNDEFINED
17	133.16	1.08	0.81	0.98	sand	70-80	40-42	26	UNDEFINED
18	194.57	1.56	0.80	1.04	sand	80-90	40-42	37	UNDEFINED
19	207.75	1.00	0.48	1.10	sand	80-90	40-42	40	UNDEFINED
20	157.54	1.16	0.74	1.16	sand	70-80	40-42	30	UNDEFINED
21	188.67	1.92	1.02	1.23	sand	80-90	40-42	36	UNDEFINED
22	254.09	2.01	0.79	1.29	sand	80-90	42-44	49	UNDEFINED
23	252.06	2.24	0.89	1.35	sand	80-90	40-42	48	UNDEFINED
24	255.28	2.35	0.92	1.41	sand	80-90	40-42	49	UNDEFINED
25	525.62	5.63	1.07	1.48	sand	>90	44-46	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-8A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:03:97 13:57
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	11.97	0.15	1.24	0.03	sandy silt to clayey silt	UNDFND	UNDFD	5	.9
2	12.15	0.20	1.67	0.09	clayey silt to silty clay	UNDFND	UNDFD	6	.9
3	25.45	0.44	1.72	0.15	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
4	90.62	0.35	0.39	0.22	sand	80-90	44-46	17	UNDEFINED
5	81.47	0.38	0.46	0.28	sand to silty sand	70-80	44-46	20	UNDEFINED
6	51.52	0.17	0.32	0.33	sand to silty sand	60-70	40-42	12	UNDEFINED
7	31.85	0.09	0.28	0.39	silty sand to sandy silt	40-50	36-38	10	UNDEFINED
8	72.79	0.43	0.59	0.45	sand to silty sand	60-70	40-42	17	UNDEFINED
9	115.14	0.48	0.42	0.51	sand	80-90	42-44	22	UNDEFINED
10	135.97	0.63	0.47	0.57	sand	80-90	42-44	26	UNDEFINED
11	128.14	0.59	0.46	0.63	sand	80-90	42-44	25	UNDEFINED
12	111.19	0.51	0.46	0.69	sand	70-80	40-42	21	UNDEFINED
13	135.21	1.28	0.95	0.75	sand	70-80	40-42	26	UNDEFINED
14	143.21	0.75	0.52	0.81	sand	80-90	40-42	27	UNDEFINED
15	161.60	1.25	0.77	0.87	sand	80-90	40-42	31	UNDEFINED
16	159.19	0.94	0.59	0.93	sand	80-90	40-42	30	UNDEFINED
17	173.90	0.88	0.51	0.98	sand	80-90	40-42	33	UNDEFINED
18	242.95	1.40	0.58	1.04	sand	>90	42-44	47	UNDEFINED
19	171.55	1.40	0.82	1.10	sand	80-90	40-42	33	UNDEFINED
20	174.66	0.87	0.50	1.16	sand	80-90	40-42	33	UNDEFINED
21	235.75	1.36	0.58	1.23	sand	80-90	40-42	45	UNDEFINED
22	234.41	1.20	0.51	1.29	sand	80-90	40-42	45	UNDEFINED
23	206.68	1.01	0.49	1.35	sand	80-90	40-42	40	UNDEFINED
24	282.60	2.82	1.00	1.41	sand	>90	42-44	>50	UNDEFINED
25	288.61	2.61	0.90	1.48	sand	>90	42-44	>50	UNDEFINED
26	98.42	2.31	2.35	1.54	silty sand to sandy silt	60-70	34-36	31	UNDEFINED
27	196.31	2.49	1.27	1.59	sand to silty sand	70-80	38-40	47	UNDEFINED
28	112.81	1.95	1.73	1.65	silty sand to sandy silt	60-70	34-36	36	UNDEFINED
29	173.12	2.44	1.41	1.71	sand to silty sand	70-80	38-40	41	UNDEFINED
30	198.27	4.14	2.09	1.77	silty sand to sandy silt	70-80	38-40	>50	UNDEFINED
31	148.33	2.86	1.93	1.83	silty sand to sandy silt	60-70	36-38	47	UNDEFINED
32	155.74	2.32	1.49	1.89	sand to silty sand	70-80	36-38	37	UNDEFINED
33	141.19	3.24	2.29	1.95	silty sand to sandy silt	60-70	36-38	45	UNDEFINED
34	105.99	2.08	1.96	1.99	silty sand to sandy silt	50-60	34-36	34	UNDEFINED
35	82.04	1.46	1.78	2.02	silty sand to sandy silt	50-60	32-34	26	UNDEFINED
36	105.03	0.54	0.52	2.04	sand	50-60	32-34	20	UNDEFINED
37	97.24	0.56	0.57	2.07	sand to silty sand	50-60	32-34	23	UNDEFINED
38	100.20	0.57	0.57	2.10	sand	50-60	32-34	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	98.77	0.56	0.57	2.13	sand	50-60	32-34	19	UNDEFINED
40	114.29	0.61	0.54	2.16	sand	50-60	34-36	22	UNDEFINED
41	114.16	0.69	0.60	2.19	sand	50-60	34-36	22	UNDEFINED
42	105.56	0.61	0.58	2.22	sand	50-60	32-34	20	UNDEFINED
43	103.51	0.68	0.65	2.25	sand to silty sand	50-60	32-34	25	UNDEFINED
44	123.73	0.85	0.68	2.28	sand	60-70	34-36	24	UNDEFINED
45	134.26	0.90	0.67	2.31	sand	60-70	34-36	26	UNDEFINED
46	134.07	0.91	0.68	2.34	sand	60-70	34-36	26	UNDEFINED
47	138.54	1.14	0.83	2.36	sand	60-70	34-36	27	UNDEFINED
48	135.39	1.17	0.86	2.39	sand	60-70	34-36	26	UNDEFINED
49	146.07	1.31	0.89	2.42	sand	60-70	34-36	28	UNDEFINED
50	131.12	1.37	1.04	2.45	sand to silty sand	60-70	34-36	31	UNDEFINED
51	129.45	1.33	1.02	2.48	sand to silty sand	60-70	34-36	31	UNDEFINED
52	128.45	1.28	1.00	2.51	sand to silty sand	60-70	32-34	31	UNDEFINED
53	122.11	1.08	0.88	2.53	sand to silty sand	50-60	32-34	29	UNDEFINED
54	120.78	1.04	0.86	2.56	sand to silty sand	50-60	32-34	29	UNDEFINED
55	120.31	0.78	0.65	2.59	sand	50-60	32-34	23	UNDEFINED
56	136.53	0.91	0.67	2.62	sand	60-70	34-36	26	UNDEFINED
57	150.69	1.33	0.88	2.65	sand	60-70	34-36	29	UNDEFINED
58	146.99	1.71	1.17	2.68	sand to silty sand	60-70	34-36	35	UNDEFINED
59	134.05	1.74	1.30	2.70	sand to silty sand	60-70	32-34	32	UNDEFINED
60	150.88	2.02	1.34	2.73	sand to silty sand	60-70	34-36	36	UNDEFINED
61	154.30	1.99	1.29	2.76	sand to silty sand	60-70	34-36	37	UNDEFINED
62	144.28	2.08	1.44	2.79	sand to silty sand	60-70	34-36	35	UNDEFINED
63	147.90	1.90	1.28	2.82	sand to silty sand	60-70	34-36	35	UNDEFINED
64	133.25	1.01	0.76	2.85	sand	50-60	32-34	26	UNDEFINED
65	136.86	1.03	0.75	2.88	sand	60-70	32-34	26	UNDEFINED
66	145.53	1.31	0.90	2.91	sand	60-70	32-34	28	UNDEFINED
67	158.98	1.41	0.88	2.94	sand	60-70	34-36	30	UNDEFINED
68	170.90	1.43	0.84	2.97	sand	60-70	34-36	33	UNDEFINED
69	173.57	1.78	1.03	3.00	sand	60-70	34-36	33	UNDEFINED
70	173.85	1.90	1.10	3.03	sand	60-70	34-36	33	UNDEFINED
71	165.65	1.55	0.94	3.05	sand	60-70	34-36	32	UNDEFINED
72	166.35	1.29	0.78	3.08	sand	60-70	34-36	32	UNDEFINED
73	160.74	1.10	0.69	3.11	sand	60-70	34-36	31	UNDEFINED
74	166.05	1.29	0.78	3.14	sand	60-70	34-36	32	UNDEFINED
75	173.52	1.52	0.87	3.17	sand	60-70	34-36	33	UNDEFINED
76	185.49	2.08	1.12	3.20	sand	60-70	34-36	36	UNDEFINED
77	195.90	2.62	1.34	3.22	sand to silty sand	60-70	34-36	47	UNDEFINED
78	186.22	2.21	1.19	3.25	sand	60-70	34-36	36	UNDEFINED
79	195.32	2.62	1.34	3.28	sand to silty sand	60-70	34-36	47	UNDEFINED
80	209.58	2.86	1.37	3.31	sand to silty sand	70-80	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	199.59	2.08	1.04	3.34	sand	60-70	34-36	38	UNDEFINED
82	199.08	2.35	1.18	3.37	sand	60-70	34-36	38	UNDEFINED
83	192.48	2.42	1.26	3.39	sand to silty sand	60-70	34-36	46	UNDEFINED
84	191.00	1.53	0.80	3.42	sand	60-70	34-36	37	UNDEFINED
85	204.45	1.46	0.71	3.46	sand	60-70	34-36	39	UNDEFINED
86	211.73	1.37	0.65	3.48	sand	70-80	34-36	41	UNDEFINED
87	235.35	1.64	0.70	3.51	sand	70-80	34-36	45	UNDEFINED
88	205.57	1.08	0.53	3.54	sand	60-70	34-36	39	UNDEFINED
89	192.42	1.03	0.53	3.57	sand	60-70	34-36	37	UNDEFINED
90	237.12	1.48	0.63	3.60	sand	70-80	34-36	45	UNDEFINED
91	286.55	1.88	0.66	3.63	sand	70-80	36-38	>50	UNDEFINED
92	285.83	1.59	0.56	3.66	gravelly sand to sand	70-80	36-38	46	UNDEFINED
93	229.17	1.22	0.53	3.69	sand	70-80	34-36	44	UNDEFINED
94	203.52	1.14	0.56	3.71	sand	60-70	34-36	39	UNDEFINED
95	211.59	1.06	0.50	3.74	sand	60-70	34-36	41	UNDEFINED
96	207.08	0.90	0.44	3.77	sand	60-70	34-36	40	UNDEFINED
97	205.11	1.50	0.73	3.80	sand	60-70	34-36	39	UNDEFINED
98	222.75	2.17	0.97	3.83	sand	70-80	34-36	43	UNDEFINED
99	217.69	1.05	0.48	3.86	sand	60-70	34-36	42	UNDEFINED
100	261.26	2.51	0.96	3.88	sand	70-80	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-9
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:03:97 11:06
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	149.22	2.04	1.37	0.03	sand to silty sand	>90	>48	36	UNDEFINED
2	140.81	1.13	0.80	0.09	sand	>90	>48	27	UNDEFINED
3	123.92	0.95	0.77	0.15	sand	>90	>48	24	UNDEFINED
4	53.57	1.11	2.06	0.22	sandy silt to clayey silt	UNDFND	UNDFD	21	4.2
5	107.34	1.30	1.22	0.28	sand to silty sand	80-90	44-46	26	UNDEFINED
6	158.34	1.03	0.65	0.33	sand	>90	46-48	30	UNDEFINED
7	123.90	0.65	0.53	0.39	sand	80-90	44-46	24	UNDEFINED
8	113.68	0.48	0.42	0.45	sand	80-90	42-44	22	UNDEFINED
9	121.52	0.57	0.47	0.51	sand	80-90	42-44	23	UNDEFINED
10	131.10	0.88	0.67	0.57	sand	80-90	42-44	25	UNDEFINED
11	149.03	0.78	0.52	0.63	sand	80-90	42-44	29	UNDEFINED
12	138.38	0.65	0.47	0.69	sand	80-90	42-44	27	UNDEFINED
13	129.63	0.65	0.50	0.75	sand	70-80	40-42	25	UNDEFINED
14	109.75	0.56	0.51	0.81	sand	70-80	40-42	21	UNDEFINED
15	120.54	0.48	0.40	0.87	sand	70-80	40-42	23	UNDEFINED
16	114.30	0.53	0.46	0.93	sand	70-80	38-40	22	UNDEFINED
17	114.94	0.60	0.52	0.98	sand	70-80	38-40	22	UNDEFINED
18	124.79	0.65	0.52	1.04	sand	70-80	38-40	24	UNDEFINED
19	101.43	0.54	0.53	1.10	sand	60-70	36-38	19	UNDEFINED
20	113.94	0.64	0.56	1.16	sand	60-70	38-40	22	UNDEFINED
21	121.64	0.98	0.81	1.23	sand	60-70	38-40	23	UNDEFINED
22	107.29	1.30	1.22	1.29	sand to silty sand	60-70	36-38	26	UNDEFINED
23	198.06	2.49	1.26	1.35	sand	80-90	40-42	38	UNDEFINED
24	198.36	1.41	0.71	1.41	sand	80-90	40-42	38	UNDEFINED
25	167.05	1.20	0.72	1.48	sand	70-80	38-40	32	UNDEFINED
26	145.16	1.67	1.15	1.54	sand to silty sand	70-80	36-38	35	UNDEFINED
27	156.13	1.52	0.97	1.59	sand	70-80	38-40	30	UNDEFINED
28	187.15	0.93	0.50	1.65	sand	70-80	38-40	36	UNDEFINED
29	287.84	2.96	1.03	1.71	sand	80-90	40-42	>50	UNDEFINED
30	330.80	3.41	1.03	1.77	sand	>90	40-42	>50	UNDEFINED
31	124.86	1.16	0.93	1.83	sand to silty sand	60-70	34-36	30	UNDEFINED
32	66.07	0.36	0.54	1.89	sand to silty sand	40-50	30-32	16	UNDEFINED
33	37.98	0.28	0.74	1.95	silty sand to sandy silt	<40	<30	12	UNDEFINED
34	29.76	0.19	0.63	1.99	silty sand to sandy silt	<40	<30	10	UNDEFINED
35	31.86	0.36	1.12	2.02	silty sand to sandy silt	<40	<30	10	UNDEFINED
36	34.43	0.47	1.36	2.04	silty sand to sandy silt	<40	<30	11	UNDEFINED
37	70.02	0.70	1.00	2.07	sand to silty sand	40-50	30-32	17	UNDEFINED
38	66.79	0.95	1.42	2.10	silty sand to sandy silt	40-50	30-32	21	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	82.60	1.13	1.37	2.13	silty sand to sandy silt	50-60	32-34	26	UNDEFINED
40	77.87	0.90	1.16	2.16	sand to silty sand	40-50	30-32	19	UNDEFINED
41	120.17	0.95	0.79	2.19	sand	60-70	34-36	23	UNDEFINED
42	107.89	1.77	1.64	2.22	silty sand to sandy silt	50-60	32-34	34	UNDEFINED
43	138.15	2.14	1.55	2.25	sand to silty sand	60-70	34-36	33	UNDEFINED
44	101.09	1.41	1.39	2.28	sand to silty sand	50-60	32-34	24	UNDEFINED
45	96.57	1.29	1.34	2.31	sand to silty sand	50-60	32-34	23	UNDEFINED
46	81.67	1.31	1.60	2.34	silty sand to sandy silt	40-50	30-32	26	UNDEFINED
47	72.48	1.01	1.39	2.36	silty sand to sandy silt	40-50	30-32	23	UNDEFINED
48	96.16	1.49	1.55	2.39	silty sand to sandy silt	50-60	32-34	31	UNDEFINED
49	99.05	1.60	1.62	2.42	silty sand to sandy silt	50-60	32-34	32	UNDEFINED
50	118.93	1.92	1.62	2.45	sand to silty sand	50-60	32-34	28	UNDEFINED
51	145.59	1.70	1.17	2.48	sand to silty sand	60-70	34-36	35	UNDEFINED
52	142.67	1.73	1.21	2.51	sand to silty sand	60-70	34-36	34	UNDEFINED
53	128.59	3.14	2.44	2.53	silty sand to sandy silt	60-70	32-34	41	UNDEFINED
54	105.87	1.70	1.61	2.56	silty sand to sandy silt	50-60	32-34	34	UNDEFINED
55	138.82	1.33	0.95	2.59	sand	60-70	34-36	27	UNDEFINED
56	156.33	2.70	1.73	2.62	sand to silty sand	60-70	34-36	37	UNDEFINED
57	237.33	2.15	0.90	2.65	sand	70-80	36-38	45	UNDEFINED
58	232.87	2.28	0.98	2.68	sand	70-80	36-38	45	UNDEFINED
59	168.73	3.75	2.22	2.70	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
60	138.07	2.74	1.98	2.73	silty sand to sandy silt	60-70	32-34	44	UNDEFINED
61	185.93	3.73	2.01	2.76	sand to silty sand	60-70	34-36	45	UNDEFINED
62	333.93	4.54	1.36	2.79	sand	80-90	38-40	>50	UNDEFINED
63	198.40	5.94	2.99	2.82	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
64	192.41	5.32	2.76	2.85	silty sand to sandy silt	70-80	34-36	>50	UNDEFINED
65	120.71	2.43	2.01	2.88	silty sand to sandy silt	50-60	32-34	39	UNDEFINED
66	93.64	1.48	1.58	2.91	silty sand to sandy silt	40-50	30-32	30	UNDEFINED
67	117.03	1.28	1.10	2.94	sand to silty sand	50-60	32-34	28	UNDEFINED
68	135.08	1.38	1.02	2.97	sand to silty sand	50-60	32-34	32	UNDEFINED
69	137.51	1.38	1.00	3.00	sand to silty sand	60-70	32-34	33	UNDEFINED
70	156.76	1.55	0.99	3.03	sand	60-70	34-36	30	UNDEFINED
71	138.23	1.39	1.01	3.05	sand to silty sand	50-60	32-34	33	UNDEFINED
72	115.92	1.11	0.95	3.08	sand to silty sand	50-60	30-32	28	UNDEFINED
73	108.80	1.05	0.97	3.11	sand to silty sand	50-60	30-32	26	UNDEFINED
74	107.31	1.07	0.99	3.14	sand to silty sand	50-60	30-32	26	UNDEFINED
75	101.71	0.94	0.92	3.17	sand to silty sand	50-60	30-32	24	UNDEFINED
76	105.12	1.02	0.97	3.20	sand to silty sand	50-60	30-32	25	UNDEFINED
77	113.92	1.14	1.00	3.22	sand to silty sand	50-60	30-32	27	UNDEFINED
78	112.22	1.04	0.93	3.25	sand to silty sand	50-60	30-32	27	UNDEFINED
79	125.89	1.34	1.06	3.28	sand to silty sand	50-60	30-32	30	UNDEFINED
80	135.76	1.79	1.32	3.31	sand to silty sand	50-60	32-34	33	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*-** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

MKC

Contractor :GREGG Location : W1-9 Page No. 3

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	135.60	1.92	1.41	3.34	sand to silty sand	50-60	32-34	32	UNDEFINED
82	158.50	2.53	1.59	3.37	sand to silty sand	60-70	32-34	38	UNDEFINED
83	169.65	3.50	2.06	3.39	silty sand to sandy silt	60-70	32-34	>50	UNDEFINED
84	151.57	2.46	1.62	3.42	sand to silty sand	60-70	32-34	36	UNDEFINED
85	112.89	1.31	1.16	3.46	sand to silty sand	50-60	30-32	27	UNDEFINED
86	107.40	1.32	1.23	3.48	sand to silty sand	50-60	30-32	26	UNDEFINED
87	110.75	1.44	1.30	3.51	sand to silty sand	50-60	30-32	27	UNDEFINED
88	118.00	1.40	1.18	3.54	sand to silty sand	50-60	30-32	28	UNDEFINED
89	127.47	1.77	1.39	3.57	sand to silty sand	50-60	30-32	31	UNDEFINED
90	117.46	1.47	1.25	3.60	sand to silty sand	50-60	30-32	28	UNDEFINED
91	114.23	1.27	1.11	3.63	sand to silty sand	50-60	30-32	27	UNDEFINED
92	146.39	2.51	1.72	3.66	sand to silty sand	50-60	32-34	35	UNDEFINED
93	165.82	3.49	2.10	3.69	silty sand to sandy silt	60-70	32-34	>50	UNDEFINED
94	145.67	2.82	1.94	3.71	silty sand to sandy silt	50-60	32-34	47	UNDEFINED
95	126.21	1.61	1.28	3.74	sand to silty sand	50-60	30-32	30	UNDEFINED
96	159.01	2.16	1.36	3.77	sand to silty sand	60-70	32-34	38	UNDEFINED
97	171.57	2.45	1.43	3.80	sand to silty sand	60-70	32-34	41	UNDEFINED
98	147.52	1.50	1.02	3.83	sand	50-60	30-32	28	UNDEFINED
99	148.29	1.38	0.93	3.86	sand	50-60	30-32	28	UNDEFINED
100	158.37	1.10	0.69	3.88	sand	60-70	32-34	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-10
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:03:97 09:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	37.17	0.24	0.65	0.03	silty sand to sandy silt	80-90	>48	12	UNDEFINED
2	83.53	0.45	0.54	0.09	sand to silty sand	>90	>48	20	UNDEFINED
3	97.55	0.63	0.64	0.15	sand to silty sand	>90	46-48	23	UNDEFINED
4	53.99	1.05	1.94	0.22	silty sand to sandy silt	70-80	42-44	17	UNDEFINED
5	80.05	0.65	0.81	0.28	sand to silty sand	70-80	44-46	19	UNDEFINED
6	79.53	0.35	0.44	0.33	sand to silty sand	70-80	42-44	19	UNDEFINED
7	77.70	0.34	0.44	0.39	sand to silty sand	70-80	42-44	19	UNDEFINED
8	108.55	0.59	0.55	0.45	sand	80-90	42-44	21	UNDEFINED
9	128.69	0.53	0.41	0.51	sand	80-90	42-44	25	UNDEFINED
10	150.24	0.67	0.44	0.57	sand	80-90	42-44	29	UNDEFINED
11	146.09	0.67	0.46	0.63	sand	80-90	42-44	28	UNDEFINED
12	143.21	0.66	0.46	0.69	sand	80-90	42-44	27	UNDEFINED
13	146.49	0.75	0.51	0.75	sand	80-90	42-44	28	UNDEFINED
14	119.61	0.68	0.57	0.81	sand	70-80	40-42	23	UNDEFINED
15	128.19	0.68	0.53	0.87	sand	70-80	40-42	25	UNDEFINED
16	114.67	0.68	0.59	0.93	sand	70-80	38-40	22	UNDEFINED
17	98.64	0.53	0.54	0.98	sand	60-70	38-40	19	UNDEFINED
18	102.82	0.70	0.68	1.04	sand to silty sand	60-70	38-40	25	UNDEFINED
19	94.79	0.47	0.49	1.10	sand	60-70	36-38	18	UNDEFINED
20	94.59	0.44	0.47	1.16	sand	60-70	36-38	18	UNDEFINED
21	101.44	0.49	0.48	1.23	sand	60-70	36-38	19	UNDEFINED
22	100.18	0.44	0.44	1.29	sand	60-70	36-38	19	UNDEFINED
23	86.14	0.43	0.50	1.35	sand to silty sand	50-60	34-36	21	UNDEFINED
24	80.70	0.44	0.54	1.41	sand to silty sand	50-60	34-36	19	UNDEFINED
25	76.00	0.36	0.47	1.48	sand to silty sand	50-60	32-34	18	UNDEFINED
26	80.61	0.43	0.53	1.54	sand to silty sand	50-60	34-36	19	UNDEFINED
27	120.40	0.66	0.55	1.59	sand	60-70	36-38	23	UNDEFINED
28	91.26	0.47	0.52	1.65	sand to silty sand	50-60	34-36	22	UNDEFINED
29	82.96	0.46	0.55	1.71	sand to silty sand	50-60	32-34	20	UNDEFINED
30	85.11	0.44	0.52	1.77	sand to silty sand	50-60	32-34	20	UNDEFINED
31	96.09	0.91	0.94	1.83	sand to silty sand	50-60	34-36	23	UNDEFINED
32	78.13	0.24	0.30	1.89	sand to silty sand	50-60	32-34	19	UNDEFINED
33	84.83	0.23	0.27	1.95	sand	50-60	32-34	16	UNDEFINED
34	116.60	0.77	0.66	1.99	sand	60-70	34-36	22	UNDEFINED
35	107.50	0.96	0.90	2.02	sand to silty sand	50-60	34-36	26	UNDEFINED
36	105.47	0.36	0.34	2.04	sand	50-60	32-34	20	UNDEFINED
37	117.68	0.68	0.58	2.07	sand	60-70	34-36	23	UNDEFINED
38	95.41	0.36	0.38	2.10	sand	50-60	32-34	18	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	72.74	0.22	0.30	2.13	sand to silty sand	40-50	30-32	17	UNDEFINED
40	76.48	0.57	0.74	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	67.85	0.19	0.28	2.19	sand to silty sand	40-50	30-32	16	UNDEFINED
42	78.49	0.23	0.29	2.22	sand to silty sand	40-50	30-32	19	UNDEFINED
43	92.11	0.32	0.35	2.25	sand	50-60	32-34	18	UNDEFINED
44	142.66	1.02	0.72	2.28	sand	60-70	34-36	27	UNDEFINED
45	121.29	0.47	0.39	2.31	sand	60-70	34-36	23	UNDEFINED
46	90.95	0.39	0.43	2.34	sand	50-60	32-34	17	UNDEFINED
47	137.02	1.26	0.92	2.36	sand	60-70	34-36	26	UNDEFINED
48	163.69	0.75	0.46	2.39	sand	60-70	34-36	31	UNDEFINED
49	128.04	0.91	0.71	2.42	sand	60-70	34-36	25	UNDEFINED
50	208.51	1.71	0.82	2.45	sand	70-80	36-38	40	UNDEFINED
51	164.76	1.84	1.12	2.48	sand	60-70	34-36	32	UNDEFINED
52	120.15	0.63	0.52	2.51	sand	50-60	32-34	23	UNDEFINED
53	125.74	0.72	0.57	2.53	sand	50-60	32-34	24	UNDEFINED
54	131.66	0.49	0.37	2.56	sand	60-70	32-34	25	UNDEFINED
55	138.96	0.52	0.37	2.59	sand	60-70	34-36	27	UNDEFINED
56	143.22	0.61	0.43	2.62	sand	60-70	34-36	27	UNDEFINED
57	147.09	0.88	0.60	2.65	sand	60-70	34-36	28	UNDEFINED
58	146.93	1.05	0.71	2.68	sand	60-70	34-36	28	UNDEFINED
59	115.55	0.67	0.58	2.70	sand	50-60	32-34	22	UNDEFINED
60	138.97	2.15	1.55	2.73	sand to silty sand	60-70	32-34	33	UNDEFINED
61	311.59	3.90	1.25	2.76	sand	80-90	38-40	>50	UNDEFINED
62	211.55	0.91	0.43	2.79	sand	70-80	36-38	41	UNDEFINED
63	161.83	2.42	1.50	2.82	sand to silty sand	60-70	34-36	39	UNDEFINED
64	70.65	1.66	2.34	2.85	sandy silt to clayey silt	UNDFND	UNDFD	27	5.3
65	114.46	4.40	3.84	2.88	sandy silt to clayey silt	UNDFND	UNDFD	44	8.8
66	127.93	5.54	4.33	2.91	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
67	187.74	2.64	1.41	2.94	sand to silty sand	60-70	34-36	45	UNDEFINED
68	184.73	2.74	1.49	2.97	sand to silty sand	60-70	34-36	44	UNDEFINED
69	232.60	3.31	1.42	3.00	sand to silty sand	70-80	36-38	>50	UNDEFINED
70	239.62	2.36	0.98	3.03	sand	70-80	36-38	46	UNDEFINED
71	262.09	1.72	0.66	3.05	sand	70-80	36-38	>50	UNDEFINED
72	195.45	3.54	1.81	3.08	sand to silty sand	60-70	34-36	47	UNDEFINED
73	152.26	5.18	3.40	3.11	sandy silt to clayey silt	UNDFND	UNDFD	>50	11.8
74	266.73	3.09	1.16	3.14	sand	70-80	36-38	>50	UNDEFINED
75	142.41	5.63	3.95	3.17	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
76	221.59	5.81	2.62	3.20	silty sand to sandy silt	70-80	34-36	>50	UNDEFINED
77	169.32	1.06	0.63	3.22	sand	60-70	34-36	32	UNDEFINED
78	154.53	1.05	0.68	3.25	sand	60-70	32-34	30	UNDEFINED
79	161.55	1.20	0.74	3.28	sand	60-70	32-34	31	UNDEFINED
80	176.55	1.68	0.95	3.31	sand	60-70	34-36	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	184.99	2.10	1.14	3.34	sand	60-70	34-36	35	UNDEFINED
82	161.45	1.44	0.89	3.37	sand	60-70	32-34	31	UNDEFINED
83	147.59	1.13	0.77	3.39	sand	60-70	32-34	28	UNDEFINED
84	187.59	1.89	1.01	3.42	sand	60-70	34-36	36	UNDEFINED
85	200.54	2.12	1.06	3.46	sand	60-70	34-36	38	UNDEFINED
86	217.33	2.42	1.12	3.48	sand	70-80	34-36	42	UNDEFINED
87	220.45	2.64	1.20	3.51	sand	70-80	34-36	42	UNDEFINED
88	226.10	2.34	1.03	3.54	sand	70-80	34-36	43	UNDEFINED
89	256.59	3.42	1.33	3.57	sand	70-80	36-38	49	UNDEFINED
90	279.05	5.00	1.79	3.60	sand to silty sand	70-80	36-38	>50	UNDEFINED
91	263.85	4.52	1.71	3.63	sand to silty sand	70-80	36-38	>50	UNDEFINED
92	250.70	4.43	1.77	3.66	sand to silty sand	70-80	34-36	>50	UNDEFINED
93	237.82	3.60	1.51	3.69	sand to silty sand	70-80	34-36	>50	UNDEFINED
94	230.10	2.69	1.17	3.71	sand	70-80	34-36	44	UNDEFINED
95	238.49	2.17	0.91	3.74	sand	70-80	34-36	46	UNDEFINED
96	232.39	1.74	0.75	3.77	sand	70-80	34-36	45	UNDEFINED
97	227.29	1.34	0.59	3.80	sand	70-80	34-36	44	UNDEFINED
98	249.03	1.38	0.55	3.83	sand	70-80	34-36	48	UNDEFINED
99	242.84	1.05	0.43	3.86	sand	70-80	34-36	47	UNDEFINED
100	233.08	1.30	0.56	3.88	sand	70-80	34-36	45	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-11
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:05:97 07:46
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	8.02	0.82	10.21	0.03	undefined	UNDFND	UNDFD	UDF	UNDEFINED
2	8.66	0.67	7.80	0.09	clay	UNDFND	UNDFD	8	.6
3	18.65	0.35	1.85	0.15	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
4	78.52	0.69	0.87	0.22	sand to silty sand	80-90	44-46	19	UNDEFINED
5	96.41	0.89	0.92	0.28	sand to silty sand	80-90	44-46	23	UNDEFINED
6	106.83	0.86	0.81	0.33	sand to silty sand	80-90	44-46	26	UNDEFINED
7	69.07	0.55	0.79	0.39	sand to silty sand	60-70	40-42	17	UNDEFINED
8	91.61	0.83	0.91	0.45	sand to silty sand	70-80	42-44	22	UNDEFINED
9	116.08	0.95	0.82	0.51	sand to silty sand	80-90	42-44	28	UNDEFINED
10	160.74	1.43	0.89	0.57	sand	80-90	42-44	31	UNDEFINED
11	156.49	1.51	0.96	0.63	sand	80-90	42-44	30	UNDEFINED
12	153.03	1.26	0.82	0.69	sand	80-90	42-44	29	UNDEFINED
13	182.33	1.85	1.02	0.75	sand	80-90	42-44	35	UNDEFINED
14	185.31	1.72	0.93	0.81	sand	80-90	42-44	36	UNDEFINED
15	174.27	1.52	0.88	0.87	sand	80-90	42-44	33	UNDEFINED
16	192.63	1.78	0.92	0.93	sand	80-90	42-44	37	UNDEFINED
17	267.93	2.70	1.01	0.98	sand	>90	42-44	>50	UNDEFINED
18	238.94	2.34	0.98	1.04	sand	>90	42-44	46	UNDEFINED
19	155.35	1.33	0.86	1.10	sand	70-80	40-42	30	UNDEFINED
20	166.56	1.54	0.92	1.16	sand	70-80	40-42	32	UNDEFINED
21	143.19	1.50	1.05	1.23	sand to silty sand	70-80	38-40	34	UNDEFINED
22	135.18	1.40	1.04	1.29	sand to silty sand	70-80	38-40	32	UNDEFINED
23	205.82	3.53	1.71	1.35	sand to silty sand	80-90	40-42	49	UNDEFINED
24	201.79	2.62	1.30	1.41	sand to silty sand	80-90	40-42	48	UNDEFINED
25	254.88	4.78	1.88	1.48	sand to silty sand	80-90	40-42	>50	UNDEFINED
26	201.33	2.74	1.36	1.54	sand to silty sand	80-90	38-40	48	UNDEFINED
27	226.87	4.65	2.05	1.59	sand to silty sand	80-90	40-42	>50	UNDEFINED
28	222.38	4.10	1.85	1.65	sand to silty sand	80-90	38-40	>50	UNDEFINED
29	247.21	5.17	2.09	1.71	sand to silty sand	80-90	40-42	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-11A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:05:97 08:21
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	10.43	0.44	4.23	0.03	clay	UNDFND	UNDFD	10	.8
2	11.47	0.58	5.06	0.09	clay	UNDFND	UNDFD	11	.9
3	17.12	0.33	1.90	0.15	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
4	44.10	0.33	0.74	0.22	silty sand to sandy silt	60-70	42-44	14	UNDEFINED
5	42.39	0.35	0.82	0.28	silty sand to sandy silt	60-70	40-42	14	UNDEFINED
6	52.12	0.36	0.70	0.33	sand to silty sand	60-70	40-42	12	UNDEFINED
7	60.69	0.49	0.80	0.39	sand to silty sand	60-70	40-42	15	UNDEFINED
8	79.86	0.68	0.85	0.45	sand to silty sand	70-80	40-42	19	UNDEFINED
9	118.75	1.09	0.92	0.51	sand to silty sand	80-90	42-44	28	UNDEFINED
10	138.55	1.30	0.94	0.57	sand	80-90	42-44	27	UNDEFINED
11	117.55	1.15	0.98	0.63	sand to silty sand	70-80	40-42	28	UNDEFINED
12	149.57	1.39	0.93	0.69	sand	80-90	42-44	29	UNDEFINED
13	199.21	2.21	1.11	0.75	sand	>90	42-44	38	UNDEFINED
14	151.04	1.64	1.09	0.81	sand to silty sand	80-90	40-42	36	UNDEFINED
15	144.72	1.41	0.98	0.87	sand	70-80	40-42	28	UNDEFINED
16	205.69	1.86	0.90	0.93	sand	80-90	42-44	39	UNDEFINED
17	197.28	2.75	1.39	0.98	sand to silty sand	80-90	42-44	47	UNDEFINED
18	199.75	2.15	1.08	1.04	sand	80-90	40-42	38	UNDEFINED
19	165.69	1.87	1.13	1.10	sand	70-80	40-42	32	UNDEFINED
20	146.39	1.76	1.20	1.16	sand to silty sand	70-80	38-40	35	UNDEFINED
21	140.61	1.88	1.34	1.23	sand to silty sand	70-80	38-40	34	UNDEFINED
22	193.48	2.76	1.43	1.29	sand to silty sand	80-90	40-42	46	UNDEFINED
23	169.16	2.24	1.32	1.35	sand to silty sand	70-80	38-40	41	UNDEFINED
24	202.52	2.71	1.34	1.41	sand to silty sand	80-90	40-42	48	UNDEFINED
25	230.82	3.04	1.32	1.48	sand	80-90	40-42	44	UNDEFINED
26	214.57	3.10	1.44	1.54	sand to silty sand	80-90	40-42	>50	UNDEFINED
27	326.06	5.21	1.60	1.59	sand to silty sand	>90	42-44	>50	UNDEFINED
28	326.97	7.61	2.33	1.65	sand to silty sand	>90	42-44	>50	UNDEFINED
29	268.66	6.20	2.31	1.71	silty sand to sandy silt	80-90	40-42	>50	UNDEFINED
30	281.74	7.86	2.79	1.77	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
31	202.47	9.78	4.83	1.83	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
32	122.30	5.27	4.31	1.89	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
33	133.19	2.04	1.53	1.95	sand to silty sand	60-70	34-36	32	UNDEFINED
34	138.39	2.69	1.94	1.99	silty sand to sandy silt	60-70	34-36	44	UNDEFINED
35	142.49	2.53	1.77	2.02	sand to silty sand	60-70	36-38	34	UNDEFINED
36	130.32	2.07	1.59	2.04	sand to silty sand	60-70	34-36	31	UNDEFINED
37	132.93	1.92	1.44	2.07	sand to silty sand	60-70	34-36	32	UNDEFINED
38	120.34	1.79	1.48	2.10	sand to silty sand	60-70	34-36	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W1-11A

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Dc - Dr (%)	PHI deg.	SPT N	Su tsf
39	124.78	1.83	1.47	2.13	sand to silty sand	60-70	34-36	30	UNDEFINED
40	124.99	1.96	1.57	2.16	sand to silty sand	60-70	34-36	30	UNDEFINED
41	123.96	1.98	1.60	2.19	sand to silty sand	60-70	34-36	30	UNDEFINED
42	116.71	1.88	1.61	2.22	sand to silty sand	50-60	34-36	28	UNDEFINED
43	108.47	1.64	1.51	2.25	sand to silty sand	50-60	32-34	26	UNDEFINED
44	111.44	1.73	1.56	2.28	sand to silty sand	50-60	32-34	27	UNDEFINED
45	119.17	1.72	1.44	2.31	sand to silty sand	50-60	34-36	29	UNDEFINED
46	119.36	1.80	1.51	2.34	sand to silty sand	50-60	32-34	29	UNDEFINED
47	129.99	2.04	1.57	2.36	sand to silty sand	60-70	34-36	31	UNDEFINED
48	116.50	1.70	1.46	2.39	sand to silty sand	50-60	32-34	28	UNDEFINED
49	95.97	1.35	1.41	2.42	sand to silty sand	50-60	32-34	23	UNDEFINED
50	96.31	1.40	1.45	2.45	sand to silty sand	50-60	32-34	23	UNDEFINED
51	99.75	1.35	1.35	2.48	sand to silty sand	50-60	32-34	24	UNDEFINED
52	105.90	1.84	1.74	2.51	silty sand to sandy silt	50-60	32-34	34	UNDEFINED
53	133.32	2.73	2.05	2.53	silty sand to sandy silt	60-70	34-36	43	UNDEFINED
54	135.24	2.88	2.13	2.56	silty sand to sandy silt	60-70	34-36	43	UNDEFINED
55	133.65	2.52	1.89	2.59	silty sand to sandy silt	60-70	32-34	43	UNDEFINED
56	128.15	2.55	1.99	2.62	silty sand to sandy silt	50-60	32-34	41	UNDEFINED
57	144.70	2.43	1.68	2.65	sand to silty sand	60-70	34-36	35	UNDEFINED
58	156.13	2.64	1.69	2.68	sand to silty sand	60-70	34-36	37	UNDEFINED
59	144.16	2.96	2.05	2.70	silty sand to sandy silt	60-70	34-36	46	UNDEFINED
60	140.09	2.83	2.02	2.73	silty sand to sandy silt	60-70	32-34	45	UNDEFINED
61	139.99	2.62	1.87	2.76	silty sand to sandy silt	60-70	32-34	45	UNDEFINED
62	154.20	2.63	1.71	2.79	sand to silty sand	60-70	34-36	37	UNDEFINED
63	154.46	2.83	1.83	2.82	sand to silty sand	60-70	34-36	37	UNDEFINED
64	163.50	2.78	1.70	2.85	sand to silty sand	60-70	34-36	39	UNDEFINED
65	161.73	3.18	1.97	2.88	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
66	154.26	3.19	2.07	2.91	silty sand to sandy silt	60-70	34-36	49	UNDEFINED
67	160.55	3.28	2.05	2.94	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
68	161.81	2.89	1.79	2.97	sand to silty sand	60-70	34-36	39	UNDEFINED
69	164.46	2.90	1.76	3.00	sand to silty sand	60-70	34-36	39	UNDEFINED
70	150.71	2.38	1.58	3.03	sand to silty sand	60-70	32-34	36	UNDEFINED
71	146.38	2.23	1.53	3.05	sand to silty sand	60-70	32-34	35	UNDEFINED
72	149.62	2.58	1.73	3.08	sand to silty sand	60-70	32-34	36	UNDEFINED
73	145.49	2.72	1.87	3.11	silty sand to sandy silt	60-70	32-34	46	UNDEFINED
74	150.70	2.71	1.80	3.14	sand to silty sand	60-70	32-34	36	UNDEFINED
75	161.22	3.33	2.07	3.17	silty sand to sandy silt	60-70	32-34	>50	UNDEFINED
76	170.17	4.13	2.42	3.20	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
77	177.02	4.39	2.48	3.22	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
78	157.03	3.42	2.18	3.25	silty sand to sandy silt	60-70	32-34	>50	UNDEFINED
79	151.47	2.55	1.69	3.28	sand to silty sand	60-70	32-34	36	UNDEFINED
80	147.97	2.34	1.58	3.31	sand to silty sand	60-70	32-34	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	151.41	1.77	1.17	3.34	sand to silty sand	60-70	32-34	36	UNDEFINED
82	155.65	2.00	1.28	3.37	sand to silty sand	60-70	32-34	37	UNDEFINED
83	163.65	2.02	1.23	3.39	sand to silty sand	60-70	32-34	39	UNDEFINED
84	187.49	1.70	0.91	3.42	sand	60-70	34-36	36	UNDEFINED
85	165.77	1.68	1.01	3.46	sand	60-70	32-34	32	UNDEFINED
86	177.58	1.81	1.02	3.48	sand	60-70	32-34	34	UNDEFINED
87	176.37	1.79	1.01	3.51	sand	60-70	32-34	34	UNDEFINED
88	174.64	2.36	1.35	3.54	sand to silty sand	60-70	32-34	42	UNDEFINED
89	180.44	1.73	0.96	3.57	sand	60-70	32-34	35	UNDEFINED
90	165.37	1.48	0.89	3.60	sand	60-70	32-34	32	UNDEFINED
91	141.18	1.45	1.02	3.63	sand to silty sand	50-60	32-34	34	UNDEFINED
92	139.26	1.24	0.89	3.66	sand	50-60	30-32	27	UNDEFINED
93	128.94	1.20	0.93	3.69	sand to silty sand	50-60	30-32	31	UNDEFINED
94	125.25	1.02	0.81	3.71	sand	50-60	30-32	24	UNDEFINED
95	145.41	1.45	1.00	3.74	sand	50-60	32-34	28	UNDEFINED
96	161.60	1.77	1.10	3.77	sand	60-70	32-34	31	UNDEFINED
97	150.12	1.75	1.17	3.80	sand to silty sand	50-60	32-34	36	UNDEFINED
98	143.05	1.61	1.12	3.83	sand to silty sand	50-60	30-32	34	UNDEFINED
99	150.89	1.69	1.12	3.86	sand to silty sand	50-60	32-34	36	UNDEFINED
100	151.53	1.79	1.18	3.88	sand to silty sand	50-60	32-34	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-12
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:05:97 09:33
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	7.55	0.45	5.94	0.03	clay	UNDFND	UNDFD	7	.6
2	9.19	0.42	4.54	0.09	clay	UNDFND	UNDFD	9	.7
3	35.53	0.33	0.92	0.15	silty sand to sandy silt	60-70	42-44	11	UNDEFINED
4	74.92	0.64	0.85	0.22	sand to silty sand	80-90	44-46	18	UNDEFINED
5	88.22	0.73	0.83	0.28	sand to silty sand	80-90	44-46	21	UNDEFINED
6	110.40	0.93	0.84	0.33	sand to silty sand	80-90	44-46	26	UNDEFINED
7	110.55	1.02	0.92	0.39	sand to silty sand	80-90	42-44	26	UNDEFINED
8	121.78	1.14	0.94	0.45	sand to silty sand	80-90	42-44	29	UNDEFINED
9	127.79	1.30	1.02	0.51	sand to silty sand	80-90	42-44	31	UNDEFINED
10	152.59	1.73	1.13	0.57	sand to silty sand	80-90	42-44	37	UNDEFINED
11	136.06	1.83	1.35	0.63	sand to silty sand	80-90	42-44	33	UNDEFINED
12	193.18	3.51	1.82	0.69	sand to silty sand	>90	42-44	46	UNDEFINED
13	201.47	3.29	1.63	0.75	sand to silty sand	>90	42-44	48	UNDEFINED
14	167.28	1.66	1.00	0.81	sand	80-90	42-44	32	UNDEFINED
15	120.76	1.30	1.08	0.87	sand to silty sand	70-80	40-42	29	UNDEFINED
16	167.66	1.80	1.07	0.93	sand	80-90	40-42	32	UNDEFINED
17	164.44	1.86	1.13	0.98	sand	80-90	40-42	32	UNDEFINED
18	138.25	1.62	1.17	1.04	sand to silty sand	70-80	38-40	33	UNDEFINED
19	138.49	1.47	1.06	1.10	sand to silty sand	70-80	38-40	33	UNDEFINED
20	168.54	1.99	1.18	1.16	sand to silty sand	70-80	40-42	40	UNDEFINED
21	158.84	1.83	1.15	1.23	sand to silty sand	70-80	38-40	38	UNDEFINED
22	121.28	1.22	1.00	1.29	sand to silty sand	60-70	36-38	29	UNDEFINED
23	215.18	3.23	1.50	1.35	sand to silty sand	80-90	40-42	>50	UNDEFINED
24	233.67	2.95	1.26	1.41	sand	80-90	40-42	45	UNDEFINED
25	287.89	4.66	1.62	1.48	sand to silty sand	>90	42-44	>50	UNDEFINED
26	364.54	4.50	1.23	1.54	sand	>90	42-44	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-12A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:05:97 10:05
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	11.14	0.38	3.38	0.03	silty clay to clay	UNDFND	UNDFD	7	.8
2	11.21	0.39	3.52	0.09	silty clay to clay	UNDFND	UNDFD	7	.8
3	16.02	0.37	2.28	0.15	clayey silt to silty clay	UNDFND	UNDFD	8	1.2
4	29.49	0.31	1.05	0.22	silty sand to sandy silt	50-60	40-42	9	UNDEFINED
5	54.19	0.42	0.78	0.28	sand to silty sand	60-70	42-44	13	UNDEFINED
6	65.50	0.46	0.70	0.33	sand to silty sand	70-80	42-44	16	UNDEFINED
7	96.18	0.78	0.81	0.39	sand to silty sand	70-80	42-44	23	UNDEFINED
8	127.36	1.16	0.91	0.45	sand to silty sand	80-90	42-44	30	UNDEFINED
9	135.21	1.21	0.89	0.51	sand	80-90	42-44	26	UNDEFINED
10	134.38	1.25	0.93	0.57	sand	80-90	42-44	26	UNDEFINED
11	134.01	1.34	1.00	0.63	sand to silty sand	80-90	42-44	32	UNDEFINED
12	153.62	1.68	1.10	0.69	sand to silty sand	80-90	42-44	37	UNDEFINED
13	186.26	2.47	1.33	0.75	sand to silty sand	80-90	42-44	45	UNDEFINED
14	162.21	1.74	1.07	0.81	sand	80-90	42-44	31	UNDEFINED
15	100.65	0.99	0.98	0.87	sand to silty sand	60-70	38-40	24	UNDEFINED
16	85.11	0.88	1.03	0.93	sand to silty sand	60-70	36-38	20	UNDEFINED
17	113.78	1.21	1.06	0.98	sand to silty sand	70-80	38-40	27	UNDEFINED
18	142.14	1.54	1.08	1.04	sand to silty sand	70-80	40-42	34	UNDEFINED
19	139.02	1.66	1.19	1.10	sand to silty sand	70-80	38-40	33	UNDEFINED
20	136.37	1.38	1.01	1.16	sand to silty sand	70-80	38-40	33	UNDEFINED
1	142.22	1.72	1.21	1.23	sand to silty sand	70-80	38-40	34	UNDEFINED
2	228.04	2.31	1.01	1.29	sand	80-90	40-42	44	UNDEFINED
23	203.25	2.44	1.20	1.35	sand	80-90	40-42	39	UNDEFINED
24	188.39	2.90	1.54	1.41	sand to silty sand	70-80	38-40	45	UNDEFINED
25	221.44	2.58	1.17	1.48	sand	80-90	40-42	42	UNDEFINED
26	265.13	3.99	1.50	1.54	sand to silty sand	80-90	40-42	>50	UNDEFINED
27	285.47	5.32	1.87	1.59	sand to silty sand	>90	40-42	>50	UNDEFINED
28	247.14	3.11	1.26	1.65	sand	80-90	40-42	47	UNDEFINED
29	347.54	5.83	1.68	1.71	sand to silty sand	>90	42-44	>50	UNDEFINED
30	389.74	7.97	2.04	1.77	sand to silty sand	>90	42-44	>50	UNDEFINED
31	343.83	5.14	1.50	1.83	sand	>90	40-42	>50	UNDEFINED
32	269.07	5.16	1.92	1.89	sand to silty sand	80-90	40-42	>50	UNDEFINED
33	214.58	3.87	1.81	1.95	sand to silty sand	70-80	38-40	>50	UNDEFINED
34	380.49	4.47	1.17	1.99	sand	>90	40-42	>50	UNDEFINED
35	85.93	3.31	3.86	2.02	clayey silt to silty clay	UNDFND	UNDFD	41	6.7
36	33.86	1.52	4.48	2.04	silty clay to clay	UNDFND	UNDFD	22	2.5
37	79.87	2.31	2.89	2.07	sandy silt to clayey silt	UNDFND	UNDFD	31	6.2
38	210.01	2.47	1.18	2.10	sand	70-80	38-40	40	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	139.01	3.34	2.40	2.13	silty sand to sandy silt	60-70	34-36	44	UNDEFINED
40	95.29	1.55	1.63	2.16	silty sand to sandy silt	50-60	32-34	30	UNDEFINED
41	96.11	1.25	1.30	2.19	sand to silty sand	50-60	32-34	23	UNDEFINED
42	87.46	1.13	1.29	2.22	sand to silty sand	50-60	32-34	21	UNDEFINED
43	86.73	1.15	1.32	2.25	sand to silty sand	50-60	30-32	21	UNDEFINED
44	120.35	1.57	1.30	2.28	sand to silty sand	60-70	34-36	29	UNDEFINED
45	119.42	1.63	1.36	2.31	sand to silty sand	50-60	34-36	29	UNDEFINED
46	109.65	1.53	1.40	2.34	sand to silty sand	50-60	32-34	26	UNDEFINED
47	119.39	1.70	1.43	2.36	sand to silty sand	50-60	32-34	29	UNDEFINED
48	129.41	1.85	1.43	2.39	sand to silty sand	60-70	34-36	31	UNDEFINED
49	133.62	2.06	1.54	2.42	sand to silty sand	60-70	34-36	32	UNDEFINED
50	134.05	2.38	1.78	2.45	sand to silty sand	60-70	34-36	32	UNDEFINED
51	115.22	2.04	1.77	2.48	silty sand to sandy silt	50-60	32-34	37	UNDEFINED
52	113.94	1.81	1.59	2.51	sand to silty sand	50-60	32-34	27	UNDEFINED
53	143.66	2.23	1.55	2.53	sand to silty sand	60-70	34-36	34	UNDEFINED
54	163.32	2.68	1.64	2.56	sand to silty sand	60-70	34-36	39	UNDEFINED
55	178.91	3.63	2.03	2.59	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
56	156.30	3.49	2.23	2.62	silty sand to sandy silt	60-70	34-36	50	UNDEFINED
57	149.62	3.39	2.26	2.65	silty sand to sandy silt	60-70	34-36	48	UNDEFINED
58	173.57	3.88	2.24	2.68	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
59	174.58	4.16	2.38	2.70	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
60	165.06	3.60	2.18	2.73	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
61	167.13	2.39	1.43	2.76	sand to silty sand	60-70	34-36	40	UNDEFINED
62	148.77	2.58	1.74	2.79	sand to silty sand	60-70	34-36	36	UNDEFINED
63	156.63	2.94	1.88	2.82	sand to silty sand	60-70	34-36	38	UNDEFINED
64	158.67	2.88	1.82	2.85	sand to silty sand	60-70	34-36	38	UNDEFINED
65	156.08	3.22	2.06	2.88	silty sand to sandy silt	60-70	34-36	50	UNDEFINED
66	156.62	3.53	2.25	2.91	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
67	169.17	3.78	2.24	2.94	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
68	160.96	3.54	2.20	2.97	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
69	146.52	2.89	1.97	3.00	silty sand to sandy silt	60-70	32-34	47	UNDEFINED
70	147.64	2.42	1.64	3.03	sand to silty sand	60-70	32-34	35	UNDEFINED
71	159.81	2.46	1.54	3.05	sand to silty sand	60-70	34-36	38	UNDEFINED
72	164.00	2.72	1.66	3.08	sand to silty sand	60-70	34-36	39	UNDEFINED
73	168.41	3.43	2.03	3.11	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
74	169.01	3.64	2.15	3.14	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
75	154.19	3.31	2.15	3.17	silty sand to sandy silt	60-70	32-34	49	UNDEFINED
76	178.33	3.98	2.23	3.20	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
77	179.39	4.17	2.32	3.22	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
78	191.50	4.60	2.40	3.25	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
79	181.30	4.06	2.24	3.28	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
80	153.73	2.96	1.93	3.31	silty sand to sandy silt	60-70	32-34	49	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	162.57	3.02	1.86	3.34	sand to silty sand	60-70	32-34	39	UNDEFINED
82	169.13	2.54	1.50	3.37	sand to silty sand	60-70	32-34	41	UNDEFINED
83	167.70	2.36	1.41	3.39	sand to silty sand	60-70	32-34	40	UNDEFINED
84	166.59	2.35	1.41	3.42	sand to silty sand	60-70	32-34	40	UNDEFINED
85	143.65	2.04	1.42	3.46	sand to silty sand	50-60	32-34	34	UNDEFINED
86	126.18	1.76	1.39	3.48	sand to silty sand	50-60	30-32	30	UNDEFINED
87	120.15	1.54	1.29	3.51	sand to silty sand	50-60	30-32	29	UNDEFINED
88	124.90	1.67	1.34	3.54	sand to silty sand	50-60	30-32	30	UNDEFINED
89	147.98	1.88	1.27	3.57	sand to silty sand	50-60	32-34	35	UNDEFINED
90	152.50	2.17	1.42	3.60	sand to silty sand	60-70	32-34	37	UNDEFINED
91	154.93	2.01	1.30	3.63	sand to silty sand	60-70	32-34	37	UNDEFINED
92	162.70	2.09	1.28	3.66	sand to silty sand	60-70	32-34	39	UNDEFINED
93	154.71	1.94	1.25	3.69	sand to silty sand	60-70	32-34	37	UNDEFINED
94	158.11	1.52	0.96	3.71	sand	60-70	32-34	30	UNDEFINED
95	152.56	1.65	1.08	3.74	sand to silty sand	50-60	32-34	37	UNDEFINED
96	146.70	1.82	1.24	3.77	sand to silty sand	50-60	32-34	35	UNDEFINED
97	152.57	1.87	1.23	3.80	sand to silty sand	50-60	32-34	37	UNDEFINED
98	138.73	1.77	1.27	3.83	sand to silty sand	50-60	30-32	33	UNDEFINED
99	124.14	1.48	1.19	3.86	sand to silty sand	50-60	30-32	30	UNDEFINED
100	127.35	1.58	1.24	3.88	sand to silty sand	50-60	30-32	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-13
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:05:97 12:25
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	20.26	0.51	2.51	0.03	clayey silt to silty clay	UNDFND	UNDFD	10	1.6
2	22.73	1.15	5.07	0.09	clay	UNDFND	UNDFD	22	1.8
3	22.08	1.20	5.43	0.15	clay	UNDFND	UNDFD	21	1.7
4	85.31	0.64	0.75	0.22	sand to silty sand	80-90	44-46	20	UNDEFINED
5	106.08	0.73	0.68	0.28	sand to silty sand	80-90	44-46	25	UNDEFINED
6	136.41	0.86	0.63	0.33	sand	>90	44-46	26	UNDEFINED
7	147.05	0.96	0.65	0.39	sand	>90	44-46	28	UNDEFINED
8	125.75	0.79	0.63	0.45	sand	80-90	42-44	24	UNDEFINED
9	124.70	0.72	0.58	0.51	sand	80-90	42-44	24	UNDEFINED
10	156.10	1.03	0.66	0.57	sand	80-90	42-44	30	UNDEFINED
11	143.46	0.94	0.65	0.63	sand	80-90	42-44	27	UNDEFINED
12	116.30	0.61	0.52	0.69	sand	70-80	40-42	22	UNDEFINED
13	87.84	0.53	0.61	0.75	sand to silty sand	60-70	38-40	21	UNDEFINED
14	76.25	0.48	0.63	0.81	sand to silty sand	60-70	36-38	18	UNDEFINED
15	65.86	0.42	0.64	0.87	sand to silty sand	50-60	36-38	16	UNDEFINED
16	78.31	0.51	0.65	0.93	sand to silty sand	60-70	36-38	19	UNDEFINED
17	78.32	0.52	0.67	0.98	sand to silty sand	50-60	36-38	19	UNDEFINED
18	80.02	0.50	0.62	1.04	sand to silty sand	50-60	36-38	19	UNDEFINED
19	83.68	0.57	0.68	1.10	sand to silty sand	60-70	36-38	20	UNDEFINED
20	138.03	0.87	0.63	1.16	sand	70-80	38-40	26	UNDEFINED
21	114.38	0.80	0.70	1.23	sand	60-70	36-38	22	UNDEFINED
22	104.50	0.61	0.58	1.29	sand	60-70	36-38	20	UNDEFINED
23	154.87	1.27	0.82	1.35	sand	70-80	38-40	30	UNDEFINED
24	124.86	1.03	0.82	1.41	sand	60-70	36-38	24	UNDEFINED
25	98.68	0.56	0.57	1.48	sand	60-70	34-36	19	UNDEFINED
26	123.04	0.66	0.54	1.54	sand	60-70	36-38	24	UNDEFINED
27	144.36	1.33	0.92	1.59	sand	70-80	36-38	28	UNDEFINED
28	150.80	1.08	0.71	1.65	sand	70-80	36-38	29	UNDEFINED
29	124.49	0.61	0.49	1.71	sand	60-70	36-38	24	UNDEFINED
30	82.42	0.56	0.68	1.77	sand to silty sand	50-60	32-34	20	UNDEFINED
31	122.69	0.54	0.44	1.83	sand	60-70	34-36	24	UNDEFINED
32	159.88	0.98	0.61	1.89	sand	70-80	36-38	31	UNDEFINED
33	160.45	1.10	0.68	1.95	sand	70-80	36-38	31	UNDEFINED
34	165.06	1.18	0.71	1.99	sand	70-80	36-38	32	UNDEFINED
35	157.42	0.75	0.48	2.02	sand	60-70	36-38	30	UNDEFINED
36	152.17	1.08	0.71	2.04	sand	60-70	36-38	29	UNDEFINED
37	115.46	0.75	0.65	2.07	sand	60-70	34-36	22	UNDEFINED
38	110.99	0.45	0.40	2.10	sand	50-60	34-36	21	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	71.66	0.41	0.58	2.13	sand to silty sand	40-50	30-32	17	UNDEFINED
40	98.36	0.65	0.66	2.16	sand to silty sand	50-60	32-34	24	UNDEFINED
41	131.09	1.27	0.97	2.19	sand to silty sand	60-70	34-36	31	UNDEFINED
42	182.75	1.25	0.68	2.22	sand	70-80	36-38	35	UNDEFINED
43	196.99	3.08	1.56	2.25	sand to silty sand	70-80	36-38	47	UNDEFINED
44	107.51	2.54	2.37	2.28	silty sand to sandy silt	50-60	32-34	34	UNDEFINED
45	196.69	2.33	1.18	2.31	sand	70-80	36-38	38	UNDEFINED
46	222.08	5.38	2.42	2.34	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
47	175.00	3.82	2.18	2.36	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
48	156.88	2.68	1.71	2.39	sand to silty sand	60-70	34-36	38	UNDEFINED
49	165.90	3.45	2.08	2.42	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
50	127.82	3.23	2.53	2.45	silty sand to sandy silt	60-70	34-36	41	UNDEFINED
51	101.08	2.83	2.80	2.48	sandy silt to clayey silt	UNDFND	UNDFD	39	7.8
52	105.23	3.34	3.17	2.51	sandy silt to clayey silt	UNDFND	UNDFD	40	8.1
53	90.85	2.42	2.67	2.53	sandy silt to clayey silt	UNDFND	UNDFD	35	7.0
54	106.06	1.51	1.43	2.56	sand to silty sand	50-60	32-34	25	UNDEFINED
55	80.65	1.76	2.19	2.59	silty sand to sandy silt	40-50	30-32	26	UNDEFINED
56	97.79	0.86	0.88	2.62	sand to silty sand	50-60	30-32	23	UNDEFINED
57	105.13	1.12	1.06	2.65	sand to silty sand	50-60	32-34	25	UNDEFINED
58	105.36	0.77	0.73	2.68	sand to silty sand	50-60	32-34	25	UNDEFINED
59	125.89	1.03	0.82	2.70	sand	50-60	32-34	24	UNDEFINED
60	114.30	0.81	0.71	2.73	sand	50-60	32-34	22	UNDEFINED
61	104.41	0.73	0.70	2.76	sand to silty sand	50-60	30-32	25	UNDEFINED
62	103.11	0.76	0.74	2.79	sand to silty sand	50-60	30-32	25	UNDEFINED
63	121.93	0.87	0.71	2.82	sand	50-60	32-34	23	UNDEFINED
64	141.42	1.01	0.72	2.85	sand	60-70	32-34	27	UNDEFINED
65	147.85	1.10	0.74	2.88	sand	60-70	32-34	28	UNDEFINED
66	154.24	1.27	0.82	2.91	sand	60-70	34-36	30	UNDEFINED
67	155.35	1.32	0.85	2.94	sand	60-70	34-36	30	UNDEFINED
68	160.34	1.38	0.86	2.97	sand	60-70	34-36	31	UNDEFINED
69	186.47	1.78	0.95	3.00	sand	60-70	34-36	36	UNDEFINED
70	194.78	1.82	0.93	3.03	sand	60-70	34-36	37	UNDEFINED
71	198.78	1.64	0.83	3.05	sand	70-80	34-36	38	UNDEFINED
72	214.59	1.98	0.92	3.08	sand	70-80	34-36	41	UNDEFINED
73	228.46	2.46	1.08	3.11	sand	70-80	36-38	44	UNDEFINED
74	236.43	3.26	1.38	3.14	sand to silty sand	70-80	36-38	>50	UNDEFINED
75	192.52	2.33	1.21	3.17	sand	60-70	34-36	37	UNDEFINED
76	173.09	1.44	0.83	3.20	sand	60-70	34-36	33	UNDEFINED
77	212.75	1.91	0.90	3.22	sand	70-80	34-36	41	UNDEFINED
78	224.45	2.21	0.99	3.25	sand	70-80	34-36	43	UNDEFINED
79	230.20	2.61	1.13	3.28	sand	70-80	36-38	44	UNDEFINED
80	214.96	2.16	1.01	3.31	sand	70-80	34-36	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*-** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ***

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	200.52	1.58	0.79	3.34	sand	60-70	34-36	38	UNDEFINED
82	243.28	2.51	1.03	3.37	sand	70-80	36-38	47	UNDEFINED
83	242.73	2.82	1.16	3.39	sand	70-80	36-38	47	UNDEFINED
84	268.43	3.13	1.17	3.42	sand	70-80	36-38	>50	UNDEFINED
85	278.63	3.92	1.41	3.46	sand	70-80	36-38	>50	UNDEFINED
86	247.85	3.28	1.32	3.48	sand	70-80	36-38	47	UNDEFINED
87	246.66	1.95	0.79	3.51	sand	70-80	36-38	47	UNDEFINED
88	261.49	1.84	0.70	3.54	sand -	70-80	36-38	>50	UNDEFINED
89	252.27	1.93	0.76	3.57	sand	70-80	36-38	48	UNDEFINED
90	237.09	1.80	0.76	3.60	sand	70-80	34-36	45	UNDEFINED
91	267.09	1.82	0.68	3.63	sand	70-80	36-38	>50	UNDEFINED
92	272.92	1.89	0.69	3.66	sand	70-80	36-38	>50	UNDEFINED
93	292.45	1.74	0.59	3.69	gravelly sand to sand	70-80	36-38	47	UNDEFINED
94	302.03	1.81	0.60	3.71	gravelly sand to sand	70-80	36-38	48	UNDEFINED
95	249.24	1.41	0.57	3.74	sand	70-80	34-36	48	UNDEFINED
96	219.58	1.10	0.50	3.77	sand	70-80	34-36	42	UNDEFINED
97	201.16	0.93	0.46	3.80	sand	60-70	34-36	39	UNDEFINED
98	217.87	1.01	0.47	3.83	sand	60-70	34-36	42	UNDEFINED
99	294.15	3.00	1.02	3.86	sand	70-80	36-38	>50	UNDEFINED
100	316.48	2.00	0.63	3.88	gravelly sand to sand	80-90	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-14
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:06:97 09:36
Geologist : JOSE SERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	33.82	0.67	1.99	0.03	sandy silt to clayey silt	UNDFND	UNDFD	13	2.7
2	38.97	0.22	0.56	0.09	silty sand to sandy silt	70-80	46-48	12	UNDEFINED
3	29.67	0.57	1.93	0.15	sandy silt to clayey silt	UNDFND	UNDFD	11	2.3
4	51.51	1.07	2.07	0.22	sandy silt to clayey silt	UNDFND	UNDFD	20	4.1
5	94.80	0.44	0.46	0.28	sand	80-90	44-46	18	UNDEFINED
6	103.64	0.51	0.49	0.33	sand	80-90	44-46	20	UNDEFINED
7	104.87	0.54	0.52	0.39	sand	80-90	42-44	20	UNDEFINED
8	107.30	0.46	0.43	0.45	sand	80-90	42-44	21	UNDEFINED
9	119.79	0.60	0.50	0.51	sand	80-90	42-44	23	UNDEFINED
10	129.82	0.72	0.55	0.57	sand	80-90	42-44	25	UNDEFINED
11	161.22	0.83	0.51	0.63	sand	80-90	42-44	31	UNDEFINED
12	118.29	0.71	0.60	0.69	sand	70-80	40-42	23	UNDEFINED
13	87.15	0.59	0.68	0.75	sand to silty sand	60-70	38-40	21	UNDEFINED
14	94.60	0.53	0.56	0.81	sand to silty sand	60-70	38-40	23	UNDEFINED
15	93.00	0.56	0.60	0.87	sand to silty sand	60-70	38-40	22	UNDEFINED
16	81.09	0.45	0.56	0.93	sand to silty sand	60-70	36-38	19	UNDEFINED
17	88.43	0.42	0.47	0.98	sand to silty sand	60-70	36-38	21	UNDEFINED
18	90.29	0.47	0.52	1.04	sand to silty sand	60-70	36-38	22	UNDEFINED
19	84.42	0.49	0.58	1.10	sand to silty sand	60-70	36-38	20	UNDEFINED
20	117.06	0.62	0.53	1.16	sand	60-70	38-40	22	UNDEFINED
21	133.54	0.64	0.48	1.23	sand	70-80	38-40	26	UNDEFINED
22	106.87	0.66	0.61	1.29	sand	60-70	36-38	20	UNDEFINED
23	142.68	0.76	0.53	1.35	sand	70-80	38-40	27	UNDEFINED
24	134.41	0.81	0.60	1.41	sand	70-80	36-38	26	UNDEFINED
25	107.03	0.76	0.71	1.48	sand to silty sand	60-70	36-38	26	UNDEFINED
26	139.80	0.88	0.63	1.54	sand	70-80	36-38	27	UNDEFINED
27	113.88	0.71	0.63	1.59	sand	60-70	36-38	22	UNDEFINED
28	108.01	0.74	0.69	1.65	sand	60-70	34-36	21	UNDEFINED
29	110.38	0.55	0.50	1.71	sand	60-70	34-36	21	UNDEFINED
30	115.00	0.50	0.44	1.77	sand	60-70	34-36	22	UNDEFINED
31	78.03	0.30	0.39	1.83	sand to silty sand	50-60	32-34	19	UNDEFINED
32	78.26	0.25	0.32	1.89	sand to silty sand	50-60	32-34	19	UNDEFINED
33	91.60	0.27	0.29	1.95	sand	50-60	32-34	18	UNDEFINED
34	98.18	0.33	0.34	1.99	sand	50-60	32-34	19	UNDEFINED
35	130.68	0.63	0.48	2.02	sand	60-70	34-36	25	UNDEFINED
36	143.61	1.19	0.83	2.04	sand	60-70	36-38	28	UNDEFINED
37	172.57	0.64	0.37	2.07	sand	70-80	36-38	33	UNDEFINED
38	139.87	0.57	0.41	2.10	sand	60-70	34-36	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	102.86	0.51	0.50	2.13	sand	50-60	32-34	20	UNDEFINED
40	76.21	0.29	0.38	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	91.90	0.29	0.31	2.19	sand	50-60	32-34	18	UNDEFINED
42	83.20	0.38	0.46	2.22	sand to silty sand	40-50	30-32	20	UNDEFINED
43	68.06	0.33	0.49	2.25	sand to silty sand	40-50	30-32	16	UNDEFINED
44	74.52	0.33	0.45	2.28	sand to silty sand	40-50	30-32	18	UNDEFINED
45	91.82	0.48	0.53	2.31	sand to silty sand	50-60	32-34	22	UNDEFINED
46	73.56	0.24	0.33	2.34	sand to silty sand	40-50	30-32	18	UNDEFINED
47	73.92	0.41	0.55	2.36	sand to silty sand	40-50	30-32	18	UNDEFINED
48	108.81	0.47	0.43	2.39	sand	50-60	32-34	21	UNDEFINED
49	94.59	0.25	0.27	2.42	sand	50-60	32-34	18	UNDEFINED
50	153.13	1.37	0.89	2.45	sand	60-70	34-36	29	UNDEFINED
51	170.68	0.79	0.46	2.48	sand	60-70	34-36	33	UNDEFINED
52	259.35	3.84	1.48	2.51	sand to silty sand	80-90	38-40	>50	UNDEFINED
53	319.13	2.07	0.65	2.53	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
54	240.25	1.29	0.54	2.56	sand	70-80	36-38	46	UNDEFINED
55	183.29	2.47	1.35	2.59	sand to silty sand	70-80	36-38	44	UNDEFINED
56	189.92	1.15	0.61	2.62	sand	70-80	36-38	36	UNDEFINED
57	214.94	1.85	0.86	2.65	sand	70-80	36-38	41	UNDEFINED
58	220.36	1.40	0.64	2.68	sand	70-80	36-38	42	UNDEFINED
59	267.49	1.84	0.69	2.70	sand	80-90	38-40	>50	UNDEFINED
60	294.72	3.38	1.15	2.73	sand	80-90	38-40	>50	UNDEFINED
61	288.12	3.24	1.12	2.76	sand	80-90	38-40	>50	UNDEFINED
62	308.77	3.93	1.27	2.79	sand	80-90	38-40	>50	UNDEFINED
63	435.51	3.28	0.75	2.82	gravelly sand to sand	>90	40-42	>50	UNDEFINED
64	324.65	1.70	0.52	2.85	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
65	320.78	4.33	1.35	2.88	sand	80-90	38-40	>50	UNDEFINED
66	199.24	5.13	2.57	2.91	silty sand to sandy silt	70-80	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-15
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:06:97 10:51
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	20.65	0.06	0.31	0.03	silty sand to sandy silt	70-80	>48	7	UNDEFINED
2	66.73	0.43	0.65	0.09	sand to silty sand	80-90	>48	16	UNDEFINED
3	55.04	0.40	0.72	0.15	sand to silty sand	70-80	44-46	13	UNDEFINED
4	35.40	0.20	0.56	0.22	silty sand to sandy silt	50-60	40-42	11	UNDEFINED
5	15.89	0.26	1.64	0.28	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
6	20.66	0.42	2.05	0.33	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
7	91.06	0.39	0.43	0.39	sand	70-80	42-44	17	UNDEFINED
8	135.87	0.72	0.53	0.45	sand	80-90	44-46	26	UNDEFINED
9	115.39	0.60	0.52	0.51	sand	80-90	42-44	22	UNDEFINED
10	83.75	0.39	0.46	0.57	sand to silty sand	60-70	40-42	20	UNDEFINED
11	53.35	0.16	0.30	0.63	sand to silty sand	50-60	36-38	13	UNDEFINED
12	64.04	0.16	0.24	0.69	sand to silty sand	50-60	36-38	15	UNDEFINED
13	44.52	0.09	0.20	0.75	sand to silty sand	40-50	34-36	11	UNDEFINED
14	50.82	0.12	0.24	0.81	sand to silty sand	50-60	34-36	12	UNDEFINED
15	72.35	0.27	0.37	0.87	sand to silty sand	50-60	36-38	17	UNDEFINED
16	75.30	0.30	0.40	0.93	sand to silty sand	50-60	36-38	18	UNDEFINED
17	74.44	0.32	0.43	0.98	sand to silty sand	50-60	36-38	18	UNDEFINED
18	97.74	0.43	0.44	1.04	sand	60-70	36-38	19	UNDEFINED
19	90.75	0.33	0.37	1.10	sand	60-70	36-38	17	UNDEFINED
20	111.89	0.40	0.36	1.16	sand	60-70	36-38	21	UNDEFINED
21	84.13	0.32	0.38	1.23	sand to silty sand	50-60	34-36	20	UNDEFINED
22	79.30	0.23	0.30	1.29	sand to silty sand	50-60	34-36	19	UNDEFINED
23	83.02	0.30	0.36	1.35	sand to silty sand	50-60	34-36	20	UNDEFINED
24	101.23	0.38	0.37	1.41	sand	60-70	36-38	19	UNDEFINED
25	61.13	0.18	0.30	1.48	sand to silty sand	40-50	32-34	15	UNDEFINED
26	71.28	0.22	0.32	1.54	sand to silty sand	50-60	32-34	17	UNDEFINED
27	85.19	0.33	0.38	1.59	sand to silty sand	50-60	34-36	20	UNDEFINED
28	66.69	0.39	0.59	1.65	sand to silty sand	40-50	32-34	16	UNDEFINED
29	66.09	0.30	0.45	1.71	sand to silty sand	40-50	30-32	16	UNDEFINED
30	89.59	0.49	0.55	1.77	sand to silty sand	50-60	32-34	21	UNDEFINED
31	87.35	0.34	0.39	1.83	sand	50-60	32-34	17	UNDEFINED
32	82.47	0.27	0.33	1.89	sand to silty sand	50-60	32-34	20	UNDEFINED
33	75.07	0.25	0.33	1.95	sand to silty sand	40-50	30-32	18	UNDEFINED
34	79.27	0.27	0.34	1.99	sand to silty sand	50-60	32-34	19	UNDEFINED
35	71.58	0.23	0.31	2.02	sand to silty sand	40-50	30-32	17	UNDEFINED
36	77.35	0.25	0.32	2.04	sand to silty sand	40-50	30-32	19	UNDEFINED
37	79.04	0.25	0.32	2.07	sand to silty sand	40-50	30-32	19	UNDEFINED
38	78.77	0.29	0.37	2.10	sand to silty sand	40-50	30-32	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	88.12	0.36	0.40	2.13	sand	50-60	32-34	17	UNDEFINED
40	82.20	0.32	0.39	2.16	sand to silty sand	50-60	30-32	20	UNDEFINED
41	73.82	0.26	0.36	2.19	sand to silty sand	40-50	30-32	18	UNDEFINED
42	85.23	0.31	0.36	2.22	sand to silty sand	50-60	30-32	20	UNDEFINED
43	90.06	0.36	0.40	2.25	sand	50-60	32-34	17	UNDEFINED
44	91.21	0.36	0.40	2.28	sand	50-60	32-34	17	UNDEFINED
45	111.52	0.38	0.34	2.31	sand	50-60	32-34	21	UNDEFINED
46	114.08	0.68	0.60	2.34	sand	50-60	32-34	22	UNDEFINED
47	92.95	0.52	0.56	2.36	sand to silty sand	50-60	32-34	22	UNDEFINED
48	93.44	0.34	0.36	2.39	sand	50-60	32-34	18	UNDEFINED
49	116.57	0.29	0.25	2.42	sand	50-60	32-34	22	UNDEFINED
50	92.42	0.26	0.28	2.45	sand	50-60	30-32	18	UNDEFINED
51	109.31	0.25	0.23	2.48	sand	50-60	32-34	21	UNDEFINED
52	105.14	0.38	0.37	2.51	sand	50-60	32-34	20	UNDEFINED
53	104.78	0.28	0.27	2.53	sand	50-60	32-34	20	UNDEFINED
54	109.17	0.22	0.20	2.56	sand	50-60	32-34	21	UNDEFINED
55	120.77	0.46	0.38	2.59	sand	50-60	32-34	23	UNDEFINED
56	172.46	0.77	0.45	2.62	sand	60-70	34-36	33	UNDEFINED
57	208.01	1.37	0.66	2.65	sand	70-80	36-38	40	UNDEFINED
58	160.58	0.70	0.44	2.68	sand	60-70	34-36	31	UNDEFINED
59	195.05	0.94	0.48	2.70	sand	70-80	36-38	37	UNDEFINED
60	173.09	0.95	0.55	2.73	sand	60-70	34-36	33	UNDEFINED
1	145.35	0.39	0.27	2.76	sand	60-70	34-36	28	UNDEFINED
2	131.86	0.51	0.38	2.79	sand	50-60	32-34	25	UNDEFINED
63	135.70	0.70	0.51	2.82	sand	60-70	32-34	26	UNDEFINED
64	166.36	1.05	0.63	2.85	sand	60-70	34-36	32	UNDEFINED
65	212.90	0.66	0.31	2.88	sand	70-80	36-38	41	UNDEFINED
66	227.35	1.24	0.55	2.91	sand	70-80	36-38	44	UNDEFINED
67	212.62	1.73	0.81	2.94	sand	70-80	36-38	41	UNDEFINED
68	222.19	1.45	0.65	2.97	sand	70-80	36-38	43	UNDEFINED
69	254.57	1.28	0.50	3.00	sand	70-80	36-38	49	UNDEFINED
70	249.20	0.86	0.34	3.03	gravelly sand to sand	70-80	36-38	40	UNDEFINED
71	230.41	1.18	0.51	3.05	sand	70-80	36-38	44	UNDEFINED
72	197.54	0.72	0.37	3.08	sand	70-80	34-36	38	UNDEFINED
73	196.50	1.70	0.86	3.11	sand	60-70	34-36	38	UNDEFINED
74	203.47	1.79	0.88	3.14	sand	70-80	34-36	39	UNDEFINED
75	184.83	2.14	1.16	3.17	sand	60-70	34-36	35	UNDEFINED
76	149.97	1.00	0.66	3.20	sand	60-70	32-34	29	UNDEFINED
77	139.19	0.76	0.55	3.22	sand	50-60	32-34	27	UNDEFINED
78	135.53	0.70	0.51	3.25	sand	50-60	32-34	26	UNDEFINED
79	129.62	0.70	0.54	3.28	sand	50-60	32-34	25	UNDEFINED
80	151.18	1.01	0.67	3.31	sand	60-70	32-34	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	375.21	3.90	1.04	3.34	sand	80-90	38-40	>50	UNDEFINED
82	273.23	3.49	1.28	3.37	sand	70-80	36-38	>50	UNDEFINED
83	227.80	2.16	0.95	3.39	sand	70-80	34-36	44	UNDEFINED
84	236.49	2.02	0.85	3.42	sand	70-80	34-36	45	UNDEFINED
85	258.24	2.68	1.04	3.46	sand	70-80	36-38	49	UNDEFINED
86	286.06	4.03	1.41	3.48	sand	70-80	36-38	>50	UNDEFINED
87	281.89	3.94	1.40	3.51	sand	70-80	36-38	>50	UNDEFINED
88	273.54	3.78	1.38	3.54	sand	70-80	36-38	>50	UNDEFINED
89	264.87	3.96	1.50	3.57	sand to silty sand	70-80	36-38	>50	UNDEFINED
90	266.21	3.81	1.43	3.60	sand to silty sand	70-80	36-38	>50	UNDEFINED
91	296.84	3.66	1.23	3.63	sand	70-80	36-38	>50	UNDEFINED
92	311.43	3.96	1.27	3.66	sand	80-90	36-38	>50	UNDEFINED
93	322.86	5.00	1.55	3.69	sand to silty sand	80-90	36-38	>50	UNDEFINED
94	292.99	4.47	1.53	3.71	sand to silty sand	70-80	36-38	>50	UNDEFINED
95	277.34	3.54	1.28	3.74	sand	70-80	36-38	>50	UNDEFINED
96	287.32	4.16	1.45	3.77	sand	70-80	36-38	>50	UNDEFINED
97	272.25	4.23	1.55	3.80	sand to silty sand	70-80	36-38	>50	UNDEFINED
98	260.16	2.81	1.08	3.83	sand	70-80	34-36	50	UNDEFINED
99	262.12	1.93	0.74	3.86	sand	70-80	34-36	>50	UNDEFINED
100	261.44	1.91	0.73	3.88	sand	70-80	34-36	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-16
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:12:97 13:20
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	40.20	0.05	0.13	0.03	sand to silty sand	>90	>48	10	UNDEFINED
2	46.39	0.01	0.03	0.09	sand to silty sand	70-80	46-48	11	UNDEFINED
3	53.26	-0.01	-0.01	0.15	undefined	UNDFND	UNDFD	UDF	UNDEFINED
4	75.71	0.09	0.12	0.22	sand	80-90	44-46	15	UNDEFINED
5	91.49	0.18	0.20	0.28	sand	80-90	44-46	18	UNDEFINED
6	71.63	0.12	0.16	0.33	sand to silty sand	70-80	42-44	17	UNDEFINED
7	130.54	0.58	0.45	0.39	sand	80-90	44-46	25	UNDEFINED
8	262.14	1.08	0.41	0.45	gravelly sand to sand	>90	46-48	42	UNDEFINED
9	284.59	1.55	0.55	0.51	gravelly sand to sand	>90	46-48	45	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-16A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:12:97 13:37
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	21.75	-0.01	-0.05	0.03	undefined	UNDFND	UNDFD	UDF	UNDEFINED
2	56.75	0.01	0.02	0.09	sand to silty sand	80-90	46-48	14	UNDEFINED
3	69.57	0.08	0.11	0.15	sand to silty sand	80-90	46-48	17	UNDEFINED
4	145.21	0.49	0.34	0.22	sand	>90	>48	28	UNDEFINED
5	316.44	2.07	0.65	0.28	gravelly sand to sand	>90	>48	>50	UNDEFINED
6	248.77	1.43	0.58	0.33	sand	>90	>48	48	UNDEFINED
7	204.60	0.55	0.27	0.39	sand	>90	46-48	39	UNDEFINED
8	134.37	0.49	0.36	0.45	sand	80-90	44-46	26	UNDEFINED
9	104.65	0.32	0.31	0.51	sand	70-80	42-44	20	UNDEFINED
10	107.82	0.22	0.20	0.57	sand	70-80	40-42	21	UNDEFINED
11	151.83	0.35	0.23	0.63	sand	80-90	42-44	29	UNDEFINED
12	133.95	0.42	0.32	0.69	sand	80-90	42-44	26	UNDEFINED
13	135.88	0.39	0.29	0.75	sand	70-80	40-42	26	UNDEFINED
14	104.13	0.42	0.40	0.81	sand	70-80	38-40	20	UNDEFINED
15	126.43	0.44	0.35	0.87	sand	70-80	40-42	24	UNDEFINED
16	115.35	0.53	0.46	0.93	sand	70-80	38-40	22	UNDEFINED
17	114.02	0.38	0.33	0.98	sand	70-80	38-40	22	UNDEFINED
18	169.97	0.48	0.28	1.04	sand	80-90	40-42	33	UNDEFINED
19	194.01	0.60	0.31	1.10	sand	80-90	40-42	37	UNDEFINED
20	172.63	0.62	0.36	1.16	sand	80-90	40-42	33	UNDEFINED
21	127.80	0.54	0.42	1.23	sand	70-80	38-40	24	UNDEFINED
22	149.44	0.65	0.43	1.29	sand	70-80	38-40	29	UNDEFINED
23	162.50	0.57	0.35	1.35	sand	70-80	38-40	31	UNDEFINED
24	201.64	0.84	0.42	1.41	sand	80-90	40-42	39	UNDEFINED
25	130.73	0.47	0.36	1.48	sand	60-70	36-38	25	UNDEFINED
26	149.91	0.44	0.29	1.54	sand	70-80	38-40	29	UNDEFINED
27	115.25	0.39	0.34	1.59	sand	60-70	36-38	22	UNDEFINED
28	107.47	0.38	0.35	1.65	sand	60-70	34-36	21	UNDEFINED
29	97.95	0.38	0.38	1.71	sand	50-60	34-36	19	UNDEFINED
30	102.86	0.36	0.35	1.77	sand	50-60	34-36	20	UNDEFINED
31	108.78	0.27	0.25	1.83	sand	60-70	34-36	21	UNDEFINED
32	125.22	0.31	0.25	1.89	sand	60-70	34-36	24	UNDEFINED
33	107.20	0.26	0.24	1.95	sand	50-60	34-36	21	UNDEFINED
34	98.00	0.32	0.33	1.99	sand	50-60	32-34	19	UNDEFINED
35	112.74	0.38	0.34	2.02	sand	60-70	34-36	22	UNDEFINED
36	140.02	0.39	0.28	2.04	sand	60-70	34-36	27	UNDEFINED
37	134.29	0.58	0.43	2.07	sand	60-70	34-36	26	UNDEFINED
38	132.02	0.62	0.47	2.10	sand	60-70	34-36	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	144.81	0.56	0.39	2.13	sand	60-70	34-36	28	UNDEFINED
40	116.20	0.39	0.33	2.16	sand	50-60	34-36	22	UNDEFINED
41	117.54	0.30	0.25	2.19	sand	60-70	34-36	23	UNDEFINED
42	134.94	0.29	0.21	2.22	sand	60-70	34-36	26	UNDEFINED
43	115.72	0.42	0.37	2.25	sand	50-60	32-34	22	UNDEFINED
44	148.32	0.69	0.47	2.28	sand	60-70	34-36	28	UNDEFINED
45	178.03	2.59	1.46	2.31	sand to silty sand	70-80	36-38	43	UNDEFINED
46	186.75	3.38	1.81	2.34	sand to silty sand	70-80	36-38	45	UNDEFINED
47	139.57	2.33	1.67	2.36	sand to silty sand	60-70	34-36	33	UNDEFINED
48	124.55	0.72	0.58	2.39	sand	60-70	34-36	24	UNDEFINED
49	105.45	0.55	0.52	2.42	sand	50-60	32-34	20	UNDEFINED
50	110.24	0.64	0.58	2.45	sand	50-60	32-34	21	UNDEFINED
51	108.71	0.62	0.57	2.48	sand	50-60	32-34	21	UNDEFINED
52	112.41	0.59	0.53	2.51	sand	50-60	32-34	22	UNDEFINED
53	110.46	0.60	0.55	2.53	sand	50-60	32-34	21	UNDEFINED
54	128.37	0.74	0.57	2.56	sand	60-70	32-34	25	UNDEFINED
55	156.48	1.03	0.66	2.59	sand	60-70	34-36	30	UNDEFINED
56	149.49	0.94	0.63	2.62	sand	60-70	34-36	29	UNDEFINED
57	142.18	0.95	0.67	2.65	sand	60-70	34-36	27	UNDEFINED
58	149.00	1.04	0.70	2.68	sand	60-70	34-36	29	UNDEFINED
59	155.66	0.92	0.59	2.70	sand	60-70	34-36	30	UNDEFINED
60	166.28	0.98	0.59	2.73	sand	60-70	34-36	32	UNDEFINED
61	166.24	1.05	0.63	2.76	sand	60-70	34-36	32	UNDEFINED
62	171.64	0.96	0.56	2.79	sand	60-70	34-36	33	UNDEFINED
63	174.64	1.61	0.92	2.82	sand	60-70	34-36	33	UNDEFINED
64	176.77	1.75	0.99	2.85	sand	60-70	34-36	34	UNDEFINED
65	144.97	0.75	0.51	2.88	sand	60-70	32-34	28	UNDEFINED
66	125.93	0.56	0.44	2.91	sand	50-60	32-34	24	UNDEFINED
67	113.80	0.44	0.39	2.94	sand	50-60	32-34	22	UNDEFINED
68	117.17	0.40	0.34	2.97	sand	50-60	32-34	22	UNDEFINED
69	128.20	0.36	0.28	3.00	sand	50-60	32-34	25	UNDEFINED
70	145.96	0.31	0.21	3.03	sand	60-70	32-34	28	UNDEFINED
71	170.55	0.55	0.32	3.05	sand	60-70	34-36	33	UNDEFINED
72	231.44	1.45	0.62	3.08	sand	70-80	36-38	44	UNDEFINED
73	188.41	1.10	0.58	3.11	sand	60-70	34-36	36	UNDEFINED
74	185.43	1.61	0.87	3.14	sand	60-70	34-36	36	UNDEFINED
75	200.49	1.80	0.90	3.17	sand	70-80	34-36	38	UNDEFINED
76	182.42	1.80	0.99	3.20	sand	60-70	34-36	35	UNDEFINED
77	147.05	0.82	0.56	3.22	sand	60-70	32-34	28	UNDEFINED
78	150.54	0.50	0.33	3.25	sand	60-70	32-34	29	UNDEFINED
79	152.53	0.37	0.25	3.28	sand	60-70	32-34	29	UNDEFINED
80	182.99	0.72	0.39	3.31	sand	60-70	34-36	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	185.21	0.80	0.43	3.34	sand	60-70	34-36	35	UNDEFINED
82	162.64	0.77	0.47	3.37	sand	60-70	32-34	31	UNDEFINED
83	159.22	0.73	0.46	3.39	sand	60-70	32-34	31	UNDEFINED
84	176.67	0.79	0.45	3.42	sand	60-70	32-34	34	UNDEFINED
85	178.49	0.99	0.56	3.46	sand	60-70	34-36	34	UNDEFINED
86	179.24	0.78	0.44	3.48	sand	60-70	32-34	34	UNDEFINED
87	173.61	0.82	0.47	3.51	sand	60-70	32-34	33	UNDEFINED
88	174.63	0.87	0.50	3.54	sand	60-70	32-34	33	UNDEFINED
89	173.25	0.89	0.51	3.57	sand	60-70	32-34	33	UNDEFINED
90	181.93	0.94	0.52	3.60	sand	60-70	32-34	35	UNDEFINED
91	210.30	1.18	0.56	3.63	sand	60-70	34-36	40	UNDEFINED
92	212.22	1.17	0.55	3.66	sand	60-70	34-36	41	UNDEFINED
93	212.48	1.20	0.56	3.69	sand	60-70	34-36	41	UNDEFINED
94	208.86	1.23	0.59	3.71	sand	60-70	34-36	40	UNDEFINED
95	252.79	1.63	0.64	3.74	sand	70-80	34-36	48	UNDEFINED
96	279.91	2.09	0.75	3.77	sand	70-80	36-38	>50	UNDEFINED
97	247.76	1.47	0.59	3.80	sand	70-80	34-36	47	UNDEFINED
98	242.42	1.15	0.48	3.83	sand	70-80	34-36	46	UNDEFINED
99	243.36	1.20	0.49	3.86	sand	70-80	34-36	47	UNDEFINED
100	237.19	1.08	0.46	3.88	sand	70-80	34-36	45	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-17
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:12:97 11:12
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	21.17	0.11	0.50	0.03	silty sand to sandy silt	70-80	>48	7	UNDEFINED
2	18.29	0.04	0.19	0.09	silty sand to sandy silt	50-60	42-44	6	UNDEFINED
3	14.86	0.02	0.15	0.15	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
4	21.26	0.02	0.09	0.22	silty sand to sandy silt	40-50	38-40	7	UNDEFINED
5	28.32	0.02	0.07	0.28	silty sand to sandy silt	40-50	38-40	9	UNDEFINED
6	34.35	0.02	0.05	0.33	sand to silty sand	50-60	38-40	8	UNDEFINED
7	44.52	0.05	0.10	0.39	sand to silty sand	50-60	38-40	11	UNDEFINED
8	127.32	0.31	0.24	0.45	sand	80-90	42-44	24	UNDEFINED
9	178.39	0.86	0.48	0.51	sand	>90	44-46	34	UNDEFINED
10	142.32	0.89	0.63	0.57	sand	80-90	42-44	27	UNDEFINED
11	159.66	0.41	0.26	0.63	sand	80-90	42-44	31	UNDEFINED
12	173.01	0.52	0.30	0.69	sand	80-90	42-44	33	UNDEFINED
13	138.69	0.43	0.31	0.75	sand	80-90	40-42	27	UNDEFINED
14	109.57	0.34	0.31	0.81	sand	70-80	40-42	21	UNDEFINED
15	99.37	0.44	0.44	0.87	sand	60-70	38-40	19	UNDEFINED
16	98.39	0.47	0.48	0.93	sand	60-70	38-40	19	UNDEFINED
17	119.14	0.59	0.50	0.98	sand	70-80	38-40	23	UNDEFINED
18	117.06	0.39	0.33	1.04	sand	70-80	38-40	22	UNDEFINED
19	115.61	0.37	0.32	1.10	sand	60-70	38-40	22	UNDEFINED
20	152.53	0.67	0.44	1.16	sand	70-80	38-40	29	UNDEFINED
21	139.07	0.49	0.35	1.23	sand	70-80	38-40	27	UNDEFINED
22	147.18	0.73	0.50	1.29	sand	70-80	38-40	28	UNDEFINED
23	180.60	1.17	0.65	1.35	sand	70-80	38-40	35	UNDEFINED
24	151.96	0.65	0.43	1.41	sand	70-80	38-40	29	UNDEFINED
25	114.23	0.40	0.35	1.48	sand	60-70	36-38	22	UNDEFINED
26	132.24	0.40	0.30	1.54	sand	60-70	36-38	25	UNDEFINED
27	125.98	0.60	0.48	1.59	sand	60-70	36-38	24	UNDEFINED
28	108.48	0.43	0.40	1.65	sand	60-70	34-36	21	UNDEFINED
29	112.16	0.35	0.32	1.71	sand	60-70	34-36	21	UNDEFINED
30	100.91	0.35	0.35	1.77	sand	50-60	34-36	19	UNDEFINED
31	101.91	0.23	0.22	1.83	sand	50-60	34-36	20	UNDEFINED
32	98.33	0.26	0.26	1.89	sand	50-60	34-36	19	UNDEFINED
33	77.18	0.25	0.32	1.95	sand to silty sand	40-50	32-34	18	UNDEFINED
34	87.92	0.33	0.38	1.99	sand	50-60	32-34	17	UNDEFINED
35	80.65	0.26	0.32	2.02	sand to silty sand	50-60	32-34	19	UNDEFINED
36	96.85	0.39	0.41	2.04	sand	50-60	32-34	19	UNDEFINED
37	121.24	0.57	0.47	2.07	sand	60-70	34-36	23	UNDEFINED
38	116.86	0.32	0.28	2.10	sand	60-70	34-36	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

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DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	109.19	0.24	0.22	2.13	sand	50-60	32-34	21	UNDEFINED
40	109.50	0.21	0.19	2.16	sand	50-60	32-34	21	UNDEFINED
41	126.20	0.57	0.46	2.19	sand	60-70	34-36	24	UNDEFINED
42	115.27	0.61	0.53	2.22	sand	50-60	34-36	22	UNDEFINED
43	83.62	0.20	0.24	2.25	sand	40-50	30-32	16	UNDEFINED
44	106.76	0.37	0.35	2.28	sand	50-60	32-34	20	UNDEFINED
45	105.16	0.30	0.29	2.31	sand	50-60	32-34	20	UNDEFINED
46	118.54	0.33	0.28	2.34	sand	50-60	32-34	23	UNDEFINED
47	87.49	0.21	0.24	2.36	sand	50-60	30-32	17	UNDEFINED
48	117.84	1.19	1.01	2.39	sand to silty sand	50-60	32-34	28	UNDEFINED
49	165.48	1.09	0.66	2.42	sand	60-70	34-36	32	UNDEFINED
50	159.05	0.87	0.54	2.45	sand	60-70	34-36	30	UNDEFINED
51	99.44	1.41	1.42	2.48	sand to silty sand	50-60	32-34	24	UNDEFINED
52	81.19	3.85	4.74	2.51	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
53	69.12	2.65	3.84	2.53	clayey silt to silty clay	UNDFND	UNDFD	33	5.2
54	94.92	2.44	2.57	2.56	silty sand to sandy silt	50-60	30-32	30	UNDEFINED
55	184.66	2.98	1.61	2.59	sand to silty sand	70-80	36-38	44	UNDEFINED
56	134.44	2.25	1.67	2.62	sand to silty sand	60-70	32-34	32	UNDEFINED
57	101.40	3.48	3.44	2.65	sandy silt to clayey silt	UNDFND	UNDFD	39	7.8
58	77.37	3.66	4.73	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	111.22	0.69	0.62	2.70	sand	50-60	32-34	21	UNDEFINED
60	107.94	0.60	0.55	2.73	sand	50-60	32-34	21	UNDEFINED
61	101.74	0.52	0.51	2.76	sand	50-60	30-32	19	UNDEFINED
62	115.20	0.66	0.57	2.79	sand	50-60	32-34	22	UNDEFINED
63	110.70	0.70	0.63	2.82	sand	50-60	32-34	21	UNDEFINED
64	105.13	0.65	0.62	2.85	sand	50-60	30-32	20	UNDEFINED
65	114.29	0.74	0.65	2.88	sand	50-60	32-34	22	UNDEFINED
66	125.58	1.01	0.81	2.91	sand	50-60	32-34	24	UNDEFINED
67	128.91	1.08	0.84	2.94	sand	50-60	32-34	25	UNDEFINED
68	144.26	1.11	0.77	2.97	sand	60-70	32-34	28	UNDEFINED
69	143.08	1.07	0.75	3.00	sand	60-70	32-34	27	UNDEFINED
70	130.59	0.91	0.70	3.03	sand	50-60	32-34	25	UNDEFINED
71	130.88	0.89	0.68	3.05	sand	50-60	32-34	25	UNDEFINED
72	137.21	1.04	0.76	3.08	sand	50-60	32-34	26	UNDEFINED
73	137.36	1.18	0.86	3.11	sand	50-60	32-34	26	UNDEFINED
74	153.57	1.07	0.69	3.14	sand	60-70	32-34	29	UNDEFINED
75	170.20	1.43	0.84	3.17	sand	60-70	34-36	33	UNDEFINED
76	174.89	1.23	0.71	3.20	sand	60-70	34-36	34	UNDEFINED
77	182.76	1.14	0.62	3.22	sand	60-70	34-36	35	UNDEFINED
78	187.56	1.17	0.62	3.25	sand	60-70	34-36	36	UNDEFINED
79	187.08	1.55	0.83	3.28	sand	60-70	34-36	36	UNDEFINED
80	186.46	1.64	0.88	3.31	sand	60-70	34-36	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.0

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	189.83	1.76	0.93	3.34	sand	60-70	34-36	36	UNDEFINED
82	169.46	1.36	0.80	3.37	sand	60-70	32-34	32	UNDEFINED
83	178.84	1.19	0.66	3.39	sand	60-70	34-36	34	UNDEFINED
84	177.67	1.40	0.79	3.42	sand	60-70	34-36	34	UNDEFINED
85	173.77	1.40	0.80	3.46	sand	60-70	32-34	33	UNDEFINED
86	171.91	1.19	0.69	3.48	sand	60-70	32-34	33	UNDEFINED
87	183.64	1.69	0.92	3.51	sand	60-70	34-36	35	UNDEFINED
88	183.32	2.10	1.15	3.54	sand	60-70	34-36	35	UNDEFINED
89	177.43	1.56	0.88	3.57	sand	60-70	32-34	34	UNDEFINED
90	163.92	1.06	0.64	3.60	sand	60-70	32-34	31	UNDEFINED
91	168.21	0.85	0.50	3.63	sand	60-70	32-34	32	UNDEFINED
92	167.80	0.82	0.49	3.66	sand	60-70	32-34	32	UNDEFINED
93	166.86	1.02	0.61	3.69	sand	60-70	32-34	32	UNDEFINED
94	138.87	0.70	0.50	3.71	sand	50-60	30-32	27	UNDEFINED
95	156.07	0.66	0.42	3.74	sand	60-70	32-34	30	UNDEFINED
96	168.85	0.77	0.45	3.77	sand	60-70	32-34	32	UNDEFINED
97	171.03	0.82	0.48	3.80	sand	60-70	32-34	33	UNDEFINED
98	168.76	0.62	0.37	3.83	sand	60-70	32-34	32	UNDEFINED
99	154.19	0.58	0.38	3.86	sand	50-60	32-34	30	UNDEFINED
100	179.30	0.70	0.39	3.88	sand	60-70	32-34	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-18
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:12:97 10:04
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	56.74	0.67	1.18	0.03	silty sand to sandy silt	>90	>48	18	UNDEFINED
2	113.33	2.18	1.92	0.09	silty sand to sandy silt	>90	>48	36	UNDEFINED
3	65.97	0.84	1.28	0.15	silty sand to sandy silt	80-90	46-48	21	UNDEFINED
4	89.96	1.14	1.27	0.22	sand to silty sand	80-90	44-46	22	UNDEFINED
5	107.35	1.38	1.29	0.28	sand to silty sand	80-90	44-46	26	UNDEFINED
6	72.78	0.42	0.57	0.33	sand to silty sand	70-80	42-44	17	UNDEFINED
7	79.46	0.29	0.37	0.39	sand to silty sand	70-80	42-44	19	UNDEFINED
8	83.58	0.32	0.39	0.45	sand to silty sand	70-80	40-42	20	UNDEFINED
9	97.89	0.45	0.46	0.51	sand	70-80	40-42	19	UNDEFINED
10	144.91	0.71	0.49	0.57	sand	80-90	42-44	28	UNDEFINED
11	219.10	1.58	0.72	0.63	sand	>90	44-46	42	UNDEFINED
12	263.39	1.97	0.75	0.69	sand	>90	44-46	>50	UNDEFINED
13	205.92	0.95	0.46	0.75	sand	>90	42-44	39	UNDEFINED
14	162.15	0.64	0.40	0.81	sand	80-90	42-44	31	UNDEFINED
15	137.57	0.51	0.37	0.87	sand	70-80	40-42	26	UNDEFINED
16	168.14	0.65	0.39	0.93	sand	80-90	40-42	32	UNDEFINED
17	162.49	0.86	0.53	0.98	sand	80-90	40-42	31	UNDEFINED
18	183.56	0.77	0.42	1.04	sand	80-90	40-42	35	UNDEFINED
19	192.97	0.85	0.44	1.10	sand	80-90	40-42	37	UNDEFINED
20	157.43	0.82	0.52	1.16	sand	70-80	40-42	30	UNDEFINED
21	200.74	0.88	0.44	1.23	sand	80-90	40-42	38	UNDEFINED
22	192.77	1.10	0.57	1.29	sand	80-90	40-42	37	UNDEFINED
23	168.03	0.87	0.52	1.35	sand	70-80	38-40	32	UNDEFINED
24	132.25	0.59	0.44	1.41	sand	60-70	36-38	25	UNDEFINED
25	193.48	0.88	0.46	1.48	sand	70-80	38-40	37	UNDEFINED
26	202.90	0.84	0.41	1.54	sand	80-90	38-40	39	UNDEFINED
27	210.22	1.08	0.52	1.59	sand	80-90	38-40	40	UNDEFINED
28	165.74	0.62	0.37	1.65	sand	70-80	38-40	32	UNDEFINED
29	152.87	0.74	0.49	1.71	sand	70-80	36-38	29	UNDEFINED
30	241.11	1.47	0.61	1.77	sand	80-90	40-42	46	UNDEFINED
31	304.66	1.82	0.60	1.83	gravelly sand to sand	80-90	40-42	49	UNDEFINED
32	181.82	0.58	0.32	1.89	sand	70-80	36-38	35	UNDEFINED
33	145.07	0.45	0.31	1.95	sand	60-70	36-38	28	UNDEFINED
34	138.67	0.42	0.30	1.99	sand	60-70	34-36	27	UNDEFINED
35	137.21	0.57	0.42	2.02	sand	60-70	34-36	26	UNDEFINED
36	82.93	0.31	0.37	2.04	sand to silty sand	50-60	32-34	20	UNDEFINED
37	86.05	0.28	0.33	2.07	sand	50-60	32-34	16	UNDEFINED
38	100.78	0.37	0.37	2.10	sand	50-60	32-34	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	98.37	0.27	0.27	2.13	sand	50-60	32-34	19	UNDEFINED
40	127.90	0.41	0.32	2.16	sand	60-70	34-36	25	UNDEFINED
41	100.71	0.31	0.30	2.19	sand	50-60	32-34	19	UNDEFINED
42	99.44	0.35	0.35	2.22	sand	50-60	32-34	19	UNDEFINED
43	86.19	0.26	0.30	2.25	sand	50-60	30-32	17	UNDEFINED
44	130.37	0.35	0.27	2.28	sand	60-70	34-36	25	UNDEFINED
45	105.28	0.33	0.31	2.31	sand	50-60	32-34	20	UNDEFINED
46	120.74	0.27	0.22	2.34	sand	50-60	34-36	23	UNDEFINED
47	128.96	0.40	0.31	2.36	sand	60-70	34-36	25	UNDEFINED
48	123.26	0.47	0.38	2.39	sand	60-70	32-34	24	UNDEFINED
49	149.02	0.34	0.23	2.42	sand	60-70	34-36	29	UNDEFINED
50	136.88	0.52	0.38	2.45	sand	60-70	34-36	26	UNDEFINED
51	151.52	0.70	0.46	2.48	sand	60-70	34-36	29	UNDEFINED
52	168.49	0.61	0.36	2.51	sand	60-70	34-36	32	UNDEFINED
53	157.95	0.83	0.52	2.53	sand	60-70	34-36	30	UNDEFINED
54	163.25	0.26	0.16	2.56	sand	60-70	34-36	31	UNDEFINED
55	122.42	0.26	0.21	2.59	sand	50-60	32-34	23	UNDEFINED
56	145.67	0.36	0.25	2.62	sand	60-70	34-36	28	UNDEFINED
57	172.94	0.39	0.23	2.65	sand	60-70	34-36	33	UNDEFINED
58	135.10	0.44	0.33	2.68	sand	60-70	32-34	26	UNDEFINED
59	117.07	0.39	0.34	2.70	sand	50-60	32-34	22	UNDEFINED
60	147.01	0.34	0.23	2.73	sand	60-70	34-36	28	UNDEFINED
61	179.44	0.56	0.31	2.76	sand	60-70	34-36	34	UNDEFINED
62	224.68	1.17	0.52	2.79	sand	70-80	36-38	43	UNDEFINED
63	213.35	0.88	0.41	2.82	sand	70-80	36-38	41	UNDEFINED
64	136.76	0.43	0.32	2.85	sand	60-70	32-34	26	UNDEFINED
65	121.47	0.27	0.22	2.88	sand	50-60	32-34	23	UNDEFINED
66	159.84	0.46	0.29	2.91	sand	60-70	34-36	31	UNDEFINED
67	205.74	0.77	0.37	2.94	sand	70-80	34-36	39	UNDEFINED
68	160.28	0.73	0.45	2.97	sand	60-70	34-36	31	UNDEFINED
69	180.99	0.54	0.30	3.00	sand	60-70	34-36	35	UNDEFINED
70	199.52	1.53	0.77	3.03	sand	70-80	34-36	38	UNDEFINED
71	155.19	0.60	0.39	3.05	sand	60-70	32-34	30	UNDEFINED
72	203.01	1.22	0.60	3.08	sand	70-80	34-36	39	UNDEFINED
73	236.72	1.58	0.67	3.11	sand	70-80	36-38	45	UNDEFINED
74	219.29	0.57	0.26	3.14	gravelly sand to sand	70-80	34-36	35	UNDEFINED
75	206.53	0.66	0.32	3.17	sand	70-80	34-36	40	UNDEFINED
76	278.16	1.85	0.66	3.20	sand	70-80	36-38	>50	UNDEFINED
77	241.22	1.51	0.63	3.22	sand	70-80	36-38	46	UNDEFINED
78	329.45	3.08	0.93	3.25	sand	80-90	38-40	>50	UNDEFINED
79	488.87	2.50	0.51	3.28	gravelly sand to sand	>90	40-42	>50	UNDEFINED
80	144.23	3.75	2.60	3.31	silty sand to sandy silt	60-70	32-34	46	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	77.54	1.54	1.98	3.34	silty sand to sandy silt	40-50	<30	25	UNDEFINED
82	87.57	1.65	1.89	3.37	silty sand to sandy silt	40-50	<30	28	UNDEFINED
83	71.82	1.41	1.97	3.39	silty sand to sandy silt	<40	<30	23	UNDEFINED
84	67.60	1.34	1.98	3.42	silty sand to sandy silt	<40	<30	22	UNDEFINED
85	71.74	1.91	2.66	3.46	sandy silt to clayey silt	UNDFND	UNDFD	27	5.3
86	106.68	2.73	2.56	3.48	silty sand to sandy silt	50-60	30-32	34	UNDEFINED
87	181.26	1.31	0.72	3.51	sand	60-70	32-34	35	UNDEFINED
88	154.13	0.62	0.40	3.54	sand	60-70	32-34	30	UNDEFINED
89	147.97	0.69	0.46	3.57	sand	50-60	32-34	28	UNDEFINED
90	159.85	0.75	0.47	3.60	sand	60-70	32-34	31	UNDEFINED
91	172.72	0.94	0.54	3.63	sand	60-70	32-34	33	UNDEFINED
92	177.88	1.08	0.61	3.66	sand	60-70	32-34	34	UNDEFINED
93	169.07	1.08	0.64	3.69	sand	60-70	32-34	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-19
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:12:97 08:50
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	28.14	0.15	0.53	0.03	silty sand to sandy silt	80-90	>48	9	UNDEFINED
2	40.77	0.31	0.75	0.09	silty sand to sandy silt	70-80	46-48	13	UNDEFINED
3	46.01	0.64	1.40	0.15	silty sand to sandy silt	70-80	44-46	15	UNDEFINED
4	51.68	0.28	0.54	0.22	sand to silty sand	60-70	42-44	12	UNDEFINED
5	24.47	0.14	0.55	0.28	silty sand to sandy silt	40-50	36-38	8	UNDEFINED
6	27.34	0.16	0.59	0.33	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
7	58.40	0.29	0.49	0.39	sand to silty sand	60-70	40-42	14	UNDEFINED
8	149.65	0.59	0.40	0.45	sand	80-90	44-46	29	UNDEFINED
9	189.69	0.79	0.42	0.51	sand	>90	44-46	36	UNDEFINED
10	153.93	0.72	0.46	0.57	sand	80-90	42-44	29	UNDEFINED
11	149.10	0.90	0.60	0.63	sand	80-90	42-44	29	UNDEFINED
12	156.55	0.77	0.49	0.69	sand	80-90	42-44	30	UNDEFINED
13	133.69	0.69	0.51	0.75	sand	70-80	40-42	26	UNDEFINED
14	142.68	0.67	0.47	0.81	sand	70-80	40-42	27	UNDEFINED
15	153.92	0.61	0.39	0.87	sand	80-90	40-42	29	UNDEFINED
16	163.75	0.75	0.45	0.93	sand	80-90	40-42	31	UNDEFINED
17	153.78	0.85	0.55	0.98	sand	70-80	40-42	29	UNDEFINED
18	156.70	0.98	0.63	1.04	sand	70-80	40-42	30	UNDEFINED
19	184.35	0.92	0.50	1.10	sand	80-90	40-42	35	UNDEFINED
20	247.97	1.36	0.55	1.16	sand	>90	42-44	48	UNDEFINED
21	193.01	1.01	0.52	1.23	sand	80-90	40-42	37	UNDEFINED
22	174.29	0.80	0.46	1.29	sand	70-80	38-40	33	UNDEFINED
23	187.80	0.86	0.46	1.35	sand	80-90	40-42	36	UNDEFINED
24	175.89	0.99	0.56	1.41	sand	70-80	38-40	34	UNDEFINED
25	196.46	0.96	0.49	1.48	sand	80-90	38-40	38	UNDEFINED
26	222.58	1.14	0.51	1.54	sand	80-90	40-42	43	UNDEFINED
27	209.00	1.21	0.58	1.59	sand	80-90	38-40	40	UNDEFINED
28	188.17	1.04	0.55	1.65	sand	70-80	38-40	36	UNDEFINED
29	173.39	1.07	0.62	1.71	sand	70-80	38-40	33	UNDEFINED
30	156.30	0.96	0.62	1.77	sand	70-80	36-38	30	UNDEFINED
31	139.43	0.92	0.66	1.83	sand	60-70	36-38	27	UNDEFINED
32	133.57	0.46	0.35	1.89	sand	60-70	36-38	26	UNDEFINED
33	145.57	0.62	0.42	1.95	sand	60-70	36-38	28	UNDEFINED
34	119.25	0.44	0.37	1.99	sand	60-70	34-36	23	UNDEFINED
35	167.69	0.57	0.34	2.02	sand	70-80	36-38	32	UNDEFINED
36	169.87	0.70	0.41	2.04	sand	70-80	36-38	33	UNDEFINED
37	167.65	0.67	0.40	2.07	sand	70-80	36-38	32	UNDEFINED
38	149.05	0.49	0.33	2.10	sand	60-70	36-38	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note. For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	184.55	0.46	0.25	2.13	sand	70-80	36-38	35	UNDEFINED
40	169.90	0.47	0.28	2.16	sand	70-80	36-38	33	UNDEFINED
41	144.36	0.54	0.38	2.19	sand	60-70	34-36	28	UNDEFINED
42	131.54	0.49	0.37	2.22	sand	60-70	34-36	25	UNDEFINED
43	146.84	0.54	0.37	2.25	sand	60-70	34-36	28	UNDEFINED
44	150.87	0.45	0.30	2.28	sand	60-70	34-36	29	UNDEFINED
45	132.60	0.57	0.43	2.31	sand	60-70	34-36	25	UNDEFINED
46	141.91	0.55	0.39	2.34	sand	60-70	34-36	27	UNDEFINED
47	138.70	0.54	0.39	2.36	sand	60-70	34-36	27	UNDEFINED
48	151.10	0.65	0.43	2.39	sand	60-70	34-36	29	UNDEFINED
49	139.87	0.60	0.43	2.42	sand	60-70	34-36	27	UNDEFINED
50	102.72	0.57	0.55	2.45	sand	50-60	32-34	20	UNDEFINED
51	130.54	0.56	0.43	2.48	sand	60-70	34-36	25	UNDEFINED
52	115.58	0.60	0.52	2.51	sand	50-60	32-34	22	UNDEFINED
53	109.84	0.61	0.56	2.53	sand	50-60	32-34	21	UNDEFINED
54	143.51	0.73	0.51	2.56	sand	60-70	34-36	27	UNDEFINED
55	112.62	0.56	0.50	2.59	sand	50-60	32-34	22	UNDEFINED
56	135.90	0.72	0.53	2.62	sand	60-70	34-36	26	UNDEFINED
57	140.88	0.67	0.47	2.65	sand	60-70	34-36	27	UNDEFINED
58	147.11	0.58	0.40	2.68	sand	60-70	34-36	28	UNDEFINED
59	139.99	0.63	0.45	2.70	sand	60-70	34-36	27	UNDEFINED
60	133.03	0.62	0.47	2.73	sand	60-70	32-34	25	UNDEFINED
61	131.85	0.63	0.47	2.76	sand	60-70	32-34	25	UNDEFINED
62	118.14	0.37	0.32	2.79	sand	50-60	32-34	23	UNDEFINED
63	123.08	0.42	0.34	2.82	sand	50-60	32-34	24	UNDEFINED
64	124.46	0.61	0.49	2.85	sand	50-60	32-34	24	UNDEFINED
65	111.17	0.51	0.46	2.88	sand	50-60	30-32	21	UNDEFINED
66	132.56	0.64	0.48	2.91	sand	50-60	32-34	25	UNDEFINED
67	196.01	1.08	0.55	2.94	sand	70-80	34-36	38	UNDEFINED
68	177.90	0.90	0.51	2.97	sand	60-70	34-36	34	UNDEFINED
69	162.88	1.52	0.93	3.00	sand	60-70	34-36	31	UNDEFINED
70	170.46	0.41	0.24	3.03	sand	60-70	34-36	33	UNDEFINED
71	134.20	0.37	0.27	3.05	sand	50-60	32-34	26	UNDEFINED
72	122.95	0.33	0.27	3.08	sand	50-60	32-34	24	UNDEFINED
73	114.39	0.50	0.43	3.11	sand	50-60	30-32	22	UNDEFINED
74	107.11	0.43	0.40	3.14	sand	50-60	30-32	21	UNDEFINED
75	121.28	0.43	0.35	3.17	sand	50-60	30-32	23	UNDEFINED
76	147.37	0.60	0.41	3.20	sand	60-70	32-34	28	UNDEFINED
77	126.33	0.60	0.48	3.22	sand	50-60	32-34	24	UNDEFINED
78	111.73	0.58	0.52	3.25	sand	50-60	30-32	21	UNDEFINED
79	63.87	0.32	0.50	3.28	sand to silty sand	<40	<30	15	UNDEFINED
80	108.24	0.54	0.50	3.31	sand	50-60	30-32	21	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

-- Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	182.93	1.10	0.60	3.34	sand	60-70	34-36	35	UNDEFINED
82	144.59	0.77	0.53	3.37	sand	50-60	32-34	28	UNDEFINED
83	115.42	0.69	0.60	3.39	sand	50-60	30-32	22	UNDEFINED
84	166.05	0.97	0.59	3.42	sand	60-70	32-34	32	UNDEFINED
85	142.59	0.71	0.50	3.46	sand	50-60	32-34	27	UNDEFINED
86	149.61	0.43	0.29	3.48	sand	60-70	32-34	29	UNDEFINED
87	171.38	0.51	0.30	3.51	sand	60-70	32-34	33	UNDEFINED
88	152.60	0.55	0.36	3.54	sand	60-70	32-34	29	UNDEFINED
89	166.00	0.68	0.41	3.57	sand	60-70	32-34	32	UNDEFINED
90	130.30	0.39	0.30	3.60	sand	50-60	30-32	25	UNDEFINED
91	129.09	0.35	0.27	3.63	sand	50-60	30-32	25	UNDEFINED
92	147.19	0.48	0.32	3.66	sand	50-60	32-34	28	UNDEFINED
93	169.23	0.98	0.58	3.69	sand	60-70	32-34	32	UNDEFINED
94	145.74	0.60	0.41	3.71	sand	50-60	32-34	28	UNDEFINED
95	102.41	0.45	0.44	3.74	sand	40-50	<30	20	UNDEFINED
96	97.67	0.37	0.38	3.77	sand	40-50	<30	19	UNDEFINED
97	102.82	0.43	0.42	3.80	sand	40-50	<30	20	UNDEFINED
98	100.12	0.43	0.43	3.83	sand	40-50	<30	19	UNDEFINED
99	120.65	0.55	0.46	3.86	sand	50-60	30-32	23	UNDEFINED
100	192.52	1.41	0.73	3.88	sand	60-70	32-34	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-20
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:06:97 13:04
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	119.22	2.46	2.06	0.03	silty sand to sandy silt	>90	>48	38	UNDEFINED
2	74.77	1.64	2.19	0.09	silty sand to sandy silt	>90	>48	24	UNDEFINED
3	52.94	1.17	2.21	0.15	sandy silt to clayey silt	UNDFND	UNDFD	20	4.2
4	75.75	1.60	2.11	0.22	silty sand to sandy silt	80-90	44-46	24	UNDEFINED
5	98.98	1.56	1.58	0.28	silty sand to sandy silt	80-90	44-46	32	UNDEFINED
6	78.33	0.87	1.11	0.33	sand to silty sand	70-80	42-44	19	UNDEFINED
7	82.44	0.80	0.97	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	77.68	0.52	0.67	0.45	sand to silty sand	70-80	40-42	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-20A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:06:97 13:48
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	37.87	0.50	1.32	0.03	silty sand to sandy silt	80-90	>48	12	UNDEFINED
2	47.09	1.14	2.42	0.09	sandy silt to clayey silt	UNDFND	UNDFD	18	3.7
3	76.43	1.72	2.26	0.15	silty sand to sandy silt	80-90	46-48	24	UNDEFINED
4	278.50	0.78	0.28	0.22	gravelly sand to sand	>90	>48	44	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) ' PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-20B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:06:97 13:58
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	14.72	0.06	0.38	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
2	13.46	0.11	0.82	0.09	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
3	41.65	2.60	6.24	0.15	clay	UNDFND	UNDFD	40	3.3
4	76.39	1.58	2.07	0.22	silty sand to sandy silt	80-90	44-46	24	UNDEFINED
5	34.14	0.44	1.29	0.28	silty sand to sandy silt	50-60	38-40	11	UNDEFINED
6	55.87	0.35	0.63	0.33	sand to silty sand	60-70	40-42	13	UNDEFINED
7	39.99	0.25	0.61	0.39	silty sand to sandy silt	50-60	38-40	13	UNDEFINED
8	40.20	0.18	0.45	0.45	sand to silty sand	50-60	36-38	10	UNDEFINED
9	18.20	0.05	0.26	0.51	silty sand to sandy silt	<40	30-32	6	UNDEFINED
10	42.63	0.21	0.50	0.57	sand to silty sand	50-60	36-38	10	UNDEFINED
11	83.45	0.46	0.55	0.63	sand to silty sand	60-70	38-40	20	UNDEFINED
12	93.20	0.44	0.48	0.69	sand	60-70	40-42	18	UNDEFINED
13	111.84	0.62	0.55	0.75	sand	70-80	40-42	21	UNDEFINED
14	103.06	0.59	0.57	0.81	sand	70-80	38-40	20	UNDEFINED
15	98.44	0.45	0.45	0.87	sand	60-70	38-40	19	UNDEFINED
16	100.11	0.57	0.57	0.93	sand	60-70	38-40	19	UNDEFINED
17	111.15	0.53	0.48	0.98	sand	60-70	38-40	21	UNDEFINED
18	110.85	0.61	0.55	1.04	sand	60-70	38-40	21	UNDEFINED
19	106.13	0.62	0.58	1.10	sand	60-70	36-38	20	UNDEFINED
20	117.41	0.66	0.56	1.16	sand	60-70	38-40	22	UNDEFINED
21	120.98	0.75	0.62	1.23	sand	60-70	38-40	23	UNDEFINED
22	153.75	0.92	0.60	1.29	sand	70-80	38-40	29	UNDEFINED
23	179.58	1.22	0.68	1.35	sand	70-80	38-40	34	UNDEFINED
24	160.76	1.04	0.65	1.41	sand	70-80	38-40	31	UNDEFINED
25	139.48	0.91	0.65	1.48	sand	70-80	36-38	27	UNDEFINED
26	176.26	1.27	0.72	1.54	sand	70-80	38-40	34	UNDEFINED
27	200.79	1.33	0.66	1.59	sand	70-80	38-40	38	UNDEFINED
28	204.80	1.38	0.67	1.65	sand	80-90	38-40	39	UNDEFINED
29	199.57	1.40	0.70	1.71	sand	70-80	38-40	38	UNDEFINED
30	205.19	1.43	0.69	1.77	sand	70-80	38-40	39	UNDEFINED
31	174.08	1.15	0.66	1.83	sand	70-80	36-38	33	UNDEFINED
32	166.65	0.75	0.45	1.89	sand	70-80	36-38	32	UNDEFINED
33	159.01	0.95	0.60	1.95	sand	70-80	36-38	30	UNDEFINED
34	144.99	0.88	0.61	1.99	sand	60-70	36-38	28	UNDEFINED
35	147.28	0.73	0.50	2.02	sand	60-70	36-38	28	UNDEFINED
36	181.72	0.82	0.45	2.04	sand	70-80	36-38	35	UNDEFINED
37	174.72	1.01	0.58	2.07	sand	70-80	36-38	33	UNDEFINED
38	175.04	0.85	0.48	2.10	sand	70-80	36-38	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	184.28	1.06	0.57	2.13	sand	70-80	36-38	35	UNDEFINED
40	160.62	0.77	0.48	2.16	sand	60-70	36-38	31	UNDEFINED
41	160.72	0.91	0.56	2.19	sand	60-70	36-38	31	UNDEFINED
42	176.14	0.94	0.53	2.22	sand	70-80	36-38	34	UNDEFINED
43	182.19	0.53	0.29	2.25	sand	70-80	36-38	35	UNDEFINED
44	147.34	0.36	0.24	2.28	sand	60-70	34-36	28	UNDEFINED
45	142.69	0.43	0.30	2.31	sand	60-70	34-36	27	UNDEFINED
46	178.37	0.89	0.50	2.34	sand	70-80	36-38	34	UNDEFINED
47	202.56	1.01	0.50	2.36	sand	70-80	36-38	39	UNDEFINED
48	142.20	0.62	0.43	2.39	sand	60-70	34-36	27	UNDEFINED
49	133.80	0.80	0.60	2.42	sand	60-70	34-36	26	UNDEFINED
50	128.84	0.81	0.63	2.45	sand	60-70	34-36	25	UNDEFINED
51	151.02	0.83	0.55	2.48	sand	60-70	34-36	29	UNDEFINED
52	152.82	0.91	0.59	2.51	sand	60-70	34-36	29	UNDEFINED
53	170.51	0.70	0.41	2.53	sand	60-70	34-36	33	UNDEFINED
54	174.08	0.70	0.40	2.56	sand	60-70	34-36	33	UNDEFINED
55	162.96	0.72	0.44	2.59	sand	60-70	34-36	31	UNDEFINED
56	166.66	0.82	0.49	2.62	sand	60-70	34-36	32	UNDEFINED
57	163.15	0.83	0.51	2.65	sand	60-70	34-36	31	UNDEFINED
58	153.01	0.80	0.52	2.68	sand	60-70	34-36	29	UNDEFINED
59	195.18	1.02	0.52	2.70	sand	70-80	36-38	37	UNDEFINED
60	196.76	1.03	0.52	2.73	sand	70-80	36-38	38	UNDEFINED
61	195.85	1.11	0.57	2.76	sand	70-80	36-38	38	UNDEFINED
62	189.69	1.17	0.62	2.79	sand	70-80	34-36	36	UNDEFINED
63	228.25	1.36	0.60	2.82	sand	70-80	36-38	44	UNDEFINED
64	245.37	1.44	0.59	2.85	sand	70-80	36-38	47	UNDEFINED
65	220.01	1.27	0.58	2.88	sand	70-80	36-38	42	UNDEFINED
66	183.71	0.86	0.47	2.91	sand	60-70	34-36	35	UNDEFINED
67	123.10	0.54	0.44	2.94	sand	50-60	32-34	24	UNDEFINED
68	232.08	0.86	0.37	2.97	gravelly sand to sand	70-80	36-38	37	UNDEFINED
69	219.27	0.87	0.40	3.00	sand	70-80	36-38	42	UNDEFINED
70	216.06	0.91	0.42	3.03	sand	70-80	36-38	41	UNDEFINED
71	148.01	0.71	0.48	3.05	sand	60-70	32-34	28	UNDEFINED
72	161.29	0.86	0.54	3.08	sand	60-70	34-36	31	UNDEFINED
73	236.68	1.42	0.60	3.11	sand	70-80	36-38	45	UNDEFINED
74	380.93	2.18	0.57	3.14	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
75	257.75	1.62	0.63	3.17	sand	70-80	36-38	49	UNDEFINED
76	292.20	1.31	0.45	3.20	gravelly sand to sand	80-90	36-38	47	UNDEFINED
77	264.25	1.46	0.55	3.22	sand	70-80	36-38	>50	UNDEFINED
78	163.94	0.74	0.45	3.25	sand	60-70	32-34	31	UNDEFINED
79	168.74	0.84	0.50	3.28	sand	60-70	32-34	32	UNDEFINED
80	273.29	1.89	0.69	3.31	sand	70-80	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* * Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	208.39	1.17	0.56	3.34	sand	70-80	34-36	40	UNDEFINED
82	154.92	0.76	0.49	3.37	sand	60-70	32-34	30	UNDEFINED
83	193.55	0.66	0.34	3.39	sand	60-70	34-36	37	UNDEFINED
84	306.00	1.56	0.51	3.42	gravelly sand to sand	80-90	36-38	49	UNDEFINED
85	195.87	1.09	0.56	3.46	sand	60-70	34-36	38	UNDEFINED
86	139.81	0.85	0.61	3.48	sand	50-60	32-34	27	UNDEFINED
87	112.41	0.62	0.55	3.51	sand	50-60	30-32	22	UNDEFINED
88	80.00	0.39	0.49	3.54	sand to silty sand	40-50	<30	19	UNDEFINED
89	86.94	0.42	0.48	3.57	sand to silty sand	40-50	<30	21	UNDEFINED
90	110.82	0.99	0.89	3.60	sand to silty sand	50-60	30-32	27	UNDEFINED
91	207.63	2.02	0.97	3.63	sand	60-70	34-36	40	UNDEFINED
92	237.04	1.09	0.46	3.66	sand	70-80	34-36	45	UNDEFINED
93	359.24	1.80	0.50	3.69	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
94	317.67	1.52	0.48	3.71	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
95	237.13	1.30	0.55	3.74	sand	70-80	34-36	45	UNDEFINED
96	203.37	0.95	0.47	3.77	sand	60-70	34-36	39	UNDEFINED
97	208.68	0.70	0.34	3.80	sand	60-70	34-36	40	UNDEFINED
98	238.36	1.04	0.44	3.83	sand	70-80	34-36	46	UNDEFINED
99	267.69	1.21	0.45	3.86	gravelly sand to sand	70-80	34-36	43	UNDEFINED
100	304.03	2.05	0.67	3.88	sand	70-80	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-21
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:31:97 08:12
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	26.48	0.36	1.36	0.03	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
2	31.27	0.31	0.98	0.09	silty sand to sandy silt	60-70	44-46	10	UNDEFINED
3	13.82	0.13	0.93	0.15	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
4	15.17	0.13	0.82	0.22	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
5	28.26	0.12	0.41	0.28	silty sand to sandy silt	40-50	38-40	9	UNDEFINED
6	64.14	0.30	0.46	0.33	sand to silty sand	60-70	40-42	15	UNDEFINED
7	115.03	0.67	0.58	0.39	sand	80-90	44-46	22	UNDEFINED
8	168.74	0.80	0.48	0.45	sand	>90	44-46	32	UNDEFINED
9	174.68	0.79	0.45	0.51	sand	>90	44-46	33	UNDEFINED
10	147.60	0.87	0.59	0.57	sand	80-90	42-44	28	UNDEFINED
11	125.56	0.79	0.63	0.63	sand	70-80	42-44	24	UNDEFINED
12	111.18	0.61	0.55	0.69	sand	70-80	40-42	21	UNDEFINED
13	107.73	0.53	0.50	0.75	sand	70-80	40-42	21	UNDEFINED
14	119.55	1.04	0.87	0.81	sand to silty sand	70-80	40-42	29	UNDEFINED
15	87.25	0.58	0.67	0.87	sand to silty sand	60-70	38-40	21	UNDEFINED
16	109.10	0.94	0.86	0.93	sand to silty sand	70-80	38-40	26	UNDEFINED
17	110.20	0.76	0.69	0.98	sand	60-70	38-40	21	UNDEFINED
18	112.75	0.72	0.64	1.04	sand	60-70	38-40	22	UNDEFINED
19	95.25	0.67	0.71	1.10	sand to silty sand	60-70	36-38	23	UNDEFINED
20	77.89	0.70	0.90	1.16	sand to silty sand	50-60	34-36	19	UNDEFINED
21	86.49	1.03	1.20	1.23	sand to silty sand	50-60	36-38	21	UNDEFINED
22	126.15	1.05	0.84	1.29	sand	60-70	38-40	24	UNDEFINED
23	143.98	2.08	1.44	1.35	sand to silty sand	70-80	38-40	34	UNDEFINED
24	164.80	1.28	0.78	1.41	sand	70-80	38-40	32	UNDEFINED
25	192.79	2.85	1.48	1.48	sand to silty sand	70-80	38-40	46	UNDEFINED
26	139.90	1.09	0.78	1.54	sand	70-80	36-38	27	UNDEFINED
27	121.61	1.02	0.84	1.59	sand	60-70	36-38	23	UNDEFINED
28	98.72	0.69	0.70	1.65	sand to silty sand	50-60	34-36	24	UNDEFINED
29	91.84	0.74	0.81	1.71	sand to silty sand	50-60	34-36	22	UNDEFINED
30	85.78	0.72	0.84	1.77	sand to silty sand	50-60	32-34	21	UNDEFINED
31	80.67	0.57	0.70	1.83	sand to silty sand	50-60	32-34	19	UNDEFINED
32	89.79	0.52	0.58	1.89	sand to silty sand	50-60	32-34	22	UNDEFINED
33	96.94	0.57	0.59	1.95	sand to silty sand	50-60	32-34	23	UNDEFINED
34	89.37	0.59	0.66	1.99	sand to silty sand	50-60	32-34	21	UNDEFINED
35	91.97	0.46	0.50	2.02	sand to silty sand	50-60	32-34	22	UNDEFINED
36	125.90	1.22	0.97	2.04	sand to silty sand	60-70	34-36	30	UNDEFINED
37	122.59	0.92	0.75	2.07	sand	60-70	34-36	23	UNDEFINED
38	131.81	0.86	0.65	2.10	sand	60-70	34-36	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note. For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	132.78	0.62	0.46	2.13	sand	60-70	34-36	25	UNDEFINED
40	127.48	0.64	0.50	2.16	sand	60-70	34-36	24	UNDEFINED
41	136.49	0.74	0.54	2.19	sand	60-70	34-36	26	UNDEFINED
42	147.72	0.91	0.61	2.22	sand	60-70	34-36	28	UNDEFINED
43	164.12	0.99	0.60	2.25	sand	60-70	36-38	31	UNDEFINED
44	146.56	1.15	0.79	2.28	sand	60-70	34-36	28	UNDEFINED
45	139.70	0.80	0.57	2.31	sand	60-70	34-36	27	UNDEFINED
46	137.13	0.65	0.47	2.34	sand	60-70	34-36	26	UNDEFINED
47	146.96	0.76	0.52	2.36	sand	60-70	34-36	28	UNDEFINED
48	135.39	0.55	0.41	2.39	sand	60-70	34-36	26	UNDEFINED
49	139.61	0.65	0.47	2.42	sand	60-70	34-36	27	UNDEFINED
50	145.43	0.67	0.46	2.45	sand	60-70	34-36	28	UNDEFINED
51	125.50	0.51	0.41	2.48	sand	60-70	32-34	24	UNDEFINED
52	117.98	0.50	0.43	2.51	sand	50-60	32-34	23	UNDEFINED
53	118.54	0.52	0.44	2.53	sand	50-60	32-34	23	UNDEFINED
54	124.90	0.58	0.46	2.56	sand	50-60	32-34	24	UNDEFINED
55	113.85	0.50	0.44	2.59	sand	50-60	32-34	22	UNDEFINED
56	119.14	0.64	0.54	2.62	sand	50-60	32-34	23	UNDEFINED
57	123.82	0.72	0.58	2.65	sand	50-60	32-34	24	UNDEFINED
58	149.81	0.49	0.32	2.68	sand	60-70	34-36	29	UNDEFINED
59	231.38	0.54	0.23	2.70	gravelly sand to sand	70-80	36-38	37	UNDEFINED
60	287.94	1.29	0.45	2.73	gravelly sand to sand	80-90	38-40	46	UNDEFINED
61	256.66	0.80	0.31	2.76	gravelly sand to sand	70-80	36-38	41	UNDEFINED
62	220.70	1.50	0.68	2.79	sand	70-80	36-38	42	UNDEFINED
63	220.83	1.78	0.81	2.82	sand	70-80	36-38	42	UNDEFINED
64	362.84	3.22	0.89	2.85	sand	80-90	38-40	>50	UNDEFINED
65	249.08	3.48	1.40	2.88	sand to silty sand	70-80	36-38	>50	UNDEFINED
66	208.84	2.25	1.08	2.91	sand	70-80	36-38	40	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-22
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:31:97 09:26
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	15.61	0.10	0.67	0.03	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
2	47.20	0.31	0.66	0.09	sand to silty sand	70-80	46-48	11	UNDEFINED
3	72.77	0.82	1.13	0.15	sand to silty sand	80-90	46-48	17	UNDEFINED
4	111.43	1.29	1.16	0.22	sand to silty sand	>90	46-48	27	UNDEFINED
5	68.22	1.35	1.98	0.28	silty sand to sandy silt	70-80	42-44	22	UNDEFINED
6	67.47	1.65	2.45	0.33	sandy silt to clayey silt	UNDFND	UNDFD	26	5.3
7	54.59	1.07	1.95	0.39	silty sand to sandy silt	60-70	40-42	17	UNDEFINED
8	78.17	0.82	1.04	0.45	sand to silty sand	70-80	40-42	19	UNDEFINED
9	53.23	0.44	0.82	0.51	sand to silty sand	50-60	38-40	13	UNDEFINED
10	141.28	0.82	0.58	0.57	sand	80-90	42-44	27	UNDEFINED
11	215.56	1.41	0.66	0.63	sand	>90	44-46	41	UNDEFINED
12	270.38	1.72	0.64	0.69	sand	>90	44-46	>50	UNDEFINED
13	219.46	1.18	0.54	0.75	sand	>90	44-46	42	UNDEFINED
14	188.64	1.16	0.62	0.81	sand	80-90	42-44	36	UNDEFINED
15	188.59	1.19	0.63	0.87	sand	80-90	42-44	36	UNDEFINED
16	199.35	1.22	0.61	0.93	sand	80-90	42-44	38	UNDEFINED
17	194.22	1.34	0.69	0.98	sand	80-90	42-44	37	UNDEFINED
18	134.60	1.03	0.77	1.04	sand	70-80	38-40	26	UNDEFINED
19	118.11	0.77	0.65	1.10	sand	70-80	38-40	23	UNDEFINED
20	110.98	0.76	0.69	1.16	sand	60-70	36-38	21	UNDEFINED
21	119.34	0.88	0.73	1.23	sand	60-70	38-40	23	UNDEFINED
22	124.80	0.81	0.65	1.29	sand	60-70	38-40	24	UNDEFINED
23	128.20	0.93	0.72	1.35	sand	60-70	36-38	25	UNDEFINED
24	124.09	0.99	0.80	1.41	sand	60-70	36-38	24	UNDEFINED
25	126.32	0.88	0.69	1.48	sand	60-70	36-38	24	UNDEFINED
26	145.46	0.91	0.63	1.54	sand	70-80	36-38	28	UNDEFINED
27	139.17	1.05	0.75	1.59	sand	60-70	36-38	27	UNDEFINED
28	131.42	1.08	0.82	1.65	sand	60-70	36-38	25	UNDEFINED
29	110.53	0.81	0.74	1.71	sand to silty sand	60-70	34-36	26	UNDEFINED
30	101.47	0.78	0.77	1.77	sand to silty sand	50-60	34-36	24	UNDEFINED
31	95.43	0.72	0.75	1.83	sand to silty sand	50-60	34-36	23	UNDEFINED
32	85.18	0.45	0.53	1.89	sand to silty sand	50-60	32-34	20	UNDEFINED
33	83.45	0.43	0.52	1.95	sand to silty sand	50-60	32-34	20	UNDEFINED
34	98.01	0.65	0.66	1.99	sand to silty sand	50-60	32-34	23	UNDEFINED
35	122.04	0.91	0.74	2.02	sand	60-70	34-36	23	UNDEFINED
36	147.69	1.01	0.68	2.04	sand	60-70	36-38	28	UNDEFINED
37	143.50	0.57	0.40	2.07	sand	60-70	34-36	27	UNDEFINED
38	144.53	0.77	0.53	2.10	sand	60-70	34-36	28	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	115.58	0.60	0.52	2.13	sand	50-60	34-36	22	UNDEFINED
40	91.52	0.58	0.63	2.16	sand to silty sand	50-60	32-34	22	UNDEFINED
41	97.75	0.57	0.58	2.19	sand to silty sand	50-60	32-34	23	UNDEFINED
42	89.12	0.57	0.64	2.22	sand to silty sand	50-60	32-34	21	UNDEFINED
43	89.87	0.56	0.62	2.25	sand to silty sand	50-60	32-34	22	UNDEFINED
44	85.87	0.49	0.57	2.28	sand to silty sand	50-60	30-32	21	UNDEFINED
45	83.39	0.51	0.61	2.31	sand to silty sand	40-50	30-32	20	UNDEFINED
46	86.53	0.52	0.60	2.34	sand to silty sand	50-60	30-32	21	UNDEFINED
47	90.36	0.53	0.59	2.36	sand to silty sand	50-60	30-32	22	UNDEFINED
48	84.70	0.46	0.54	2.39	sand to silty sand	40-50	30-32	20	UNDEFINED
49	105.03	0.60	0.57	2.42	sand	50-60	32-34	20	UNDEFINED
50	109.73	0.66	0.60	2.45	sand	50-60	32-34	21	UNDEFINED
51	89.83	0.31	0.34	2.48	sand	50-60	30-32	17	UNDEFINED
52	81.72	0.33	0.41	2.51	sand to silty sand	40-50	30-32	20	UNDEFINED
53	73.93	0.41	0.56	2.53	sand to silty sand	40-50	<30	18	UNDEFINED
54	83.39	0.47	0.57	2.56	sand to silty sand	40-50	30-32	20	UNDEFINED
55	96.42	0.46	0.48	2.59	sand	50-60	30-32	18	UNDEFINED
56	102.27	0.49	0.48	2.62	sand	50-60	32-34	20	UNDEFINED
57	96.77	0.42	0.44	2.65	sand	50-60	30-32	19	UNDEFINED
58	113.09	0.60	0.53	2.68	sand	50-60	32-34	22	UNDEFINED
59	91.47	0.57	0.63	2.70	sand to silty sand	40-50	30-32	22	UNDEFINED
60	134.01	0.55	0.41	2.73	sand	60-70	32-34	26	UNDEFINED
1	104.73	0.43	0.41	2.76	sand	50-60	30-32	20	UNDEFINED
2	94.28	0.44	0.47	2.79	sand	50-60	30-32	18	UNDEFINED
63	104.01	0.45	0.43	2.82	sand	50-60	30-32	20	UNDEFINED
64	116.24	0.46	0.40	2.85	sand	50-60	32-34	22	UNDEFINED
65	116.02	0.54	0.47	2.88	sand	50-60	32-34	22	UNDEFINED
66	102.48	0.62	0.61	2.91	sand	50-60	30-32	20	UNDEFINED
67	137.26	0.62	0.45	2.94	sand	60-70	32-34	26	UNDEFINED
68	140.32	0.76	0.54	2.97	sand	60-70	32-34	27	UNDEFINED
69	159.94	0.70	0.44	3.00	sand	60-70	34-36	31	UNDEFINED
70	184.40	1.03	0.56	3.03	sand	60-70	34-36	35	UNDEFINED
71	155.30	0.85	0.54	3.05	sand	60-70	32-34	30	UNDEFINED
72	132.16	0.49	0.37	3.08	sand	50-60	32-34	25	UNDEFINED
73	115.64	0.57	0.49	3.11	sand	50-60	30-32	22	UNDEFINED
74	100.32	0.53	0.53	3.14	sand	50-60	30-32	19	UNDEFINED
75	104.29	0.48	0.46	3.17	sand	50-60	30-32	20	UNDEFINED
76	93.80	0.37	0.39	3.20	sand	40-50	30-32	18	UNDEFINED
77	81.66	0.33	0.41	3.22	sand to silty sand	40-50	<30	20	UNDEFINED
78	104.54	0.45	0.43	3.25	sand	50-60	30-32	20	UNDEFINED
79	91.31	0.54	0.60	3.28	sand to silty sand	40-50	<30	22	UNDEFINED
80	79.38	0.44	0.55	3.31	sand to silty sand	40-50	<30	19	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	120.93	1.19	0.98	3.34	sand to silty sand	50-60	30-32	29	UNDEFINED
82	130.08	1.13	0.87	3.37	sand	50-60	32-34	25	UNDEFINED
83	195.27	1.41	0.72	3.39	sand	60-70	34-36	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-23
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:31:97 10:37
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	50.65	0.55	1.08	0.03	silty sand to sandy silt	>90	>48	16	UNDEFINED
2	135.12	1.22	0.91	0.09	sand	>90	>48	26	UNDEFINED
3	128.92	2.78	2.15	0.15	silty sand to sandy silt	>90	>48	41	UNDEFINED
4	104.10	1.27	1.22	0.22	sand to silty sand	80-90	46-48	25	UNDEFINED
5	54.86	0.52	0.94	0.28	silty sand to sandy silt	60-70	42-44	18	UNDEFINED
6	56.84	0.44	0.77	0.33	sand to silty sand	60-70	40-42	14	UNDEFINED
7	58.28	0.44	0.76	0.39	sand to silty sand	60-70	40-42	14	UNDEFINED
8	71.39	0.49	0.69	0.45	sand to silty sand	60-70	40-42	17	UNDEFINED
9	94.81	0.64	0.67	0.51	sand to silty sand	70-80	40-42	23	UNDEFINED
10	173.21	1.16	0.67	0.57	sand	>90	44-46	33	UNDEFINED
11	186.34	1.61	0.86	0.63	sand	>90	44-46	36	UNDEFINED
12	184.94	1.30	0.70	0.69	sand	80-90	42-44	35	UNDEFINED
13	163.67	1.22	0.74	0.75	sand	80-90	42-44	31	UNDEFINED
14	141.15	1.07	0.76	0.81	sand	70-80	40-42	27	UNDEFINED
15	147.61	1.03	0.69	0.87	sand	70-80	40-42	28	UNDEFINED
16	139.17	0.98	0.70	0.93	sand	70-80	40-42	27	UNDEFINED
17	88.87	0.58	0.66	0.98	sand to silty sand	60-70	36-38	21	UNDEFINED
18	63.55	0.47	0.75	1.04	sand to silty sand	50-60	34-36	15	UNDEFINED
19	79.51	0.51	0.64	1.10	sand to silty sand	50-60	36-38	19	UNDEFINED
20	132.67	0.88	0.66	1.16	sand	70-80	38-40	25	UNDEFINED
21	144.75	1.29	0.89	1.23	sand	70-80	38-40	28	UNDEFINED
22	159.57	1.36	0.85	1.29	sand	70-80	38-40	31	UNDEFINED
23	120.51	0.87	0.72	1.35	sand	60-70	36-38	23	UNDEFINED
24	133.08	0.88	0.66	1.41	sand	60-70	36-38	25	UNDEFINED
25	127.55	0.97	0.76	1.48	sand	60-70	36-38	24	UNDEFINED
26	115.44	0.89	0.77	1.54	sand	60-70	36-38	22	UNDEFINED
27	101.32	0.77	0.76	1.59	sand to silty sand	60-70	34-36	24	UNDEFINED
28	138.64	0.91	0.66	1.65	sand	60-70	36-38	27	UNDEFINED
29	248.90	2.98	1.20	1.71	sand	80-90	40-42	48	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-23A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:31:97 11:11
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	74.31	0.61	0.82	0.03	sand to silty sand	>90	>48	18	UNDEFINED
2	72.76	1.37	1.88	0.09	silty sand to sandy silt	>90	>48	23	UNDEFINED
3	56.67	1.05	1.85	0.15	silty sand to sandy silt	70-80	44-46	18	UNDEFINED
4	111.52	1.29	1.16	0.22	sand to silty sand	>90	46-48	27	UNDEFINED
5	92.99	1.13	1.22	0.28	sand to silty sand	80-90	44-46	22	UNDEFINED
6	66.77	0.53	0.79	0.33	sand to silty sand	70-80	42-44	16	UNDEFINED
7	42.91	0.27	0.63	0.39	silty sand to sandy silt	50-60	38-40	14	UNDEFINED
8	37.51	0.28	0.76	0.45	silty sand to sandy silt	40-50	36-38	12	UNDEFINED
9	131.19	0.98	0.74	0.51	sand	80-90	42-44	25	UNDEFINED
10	162.13	1.17	0.72	0.57	sand	80-90	44-46	31	UNDEFINED
11	171.30	1.12	0.65	0.63	sand	80-90	42-44	33	UNDEFINED
12	193.74	1.60	0.83	0.69	sand	>90	42-44	37	UNDEFINED
13	168.57	1.53	0.91	0.75	sand	80-90	42-44	32	UNDEFINED
14	140.03	0.99	0.71	0.81	sand	70-80	40-42	27	UNDEFINED
15	129.26	0.83	0.64	0.87	sand	70-80	40-42	25	UNDEFINED
16	111.26	0.78	0.70	0.93	sand	70-80	38-40	21	UNDEFINED
17	108.35	0.78	0.72	0.98	sand to silty sand	60-70	38-40	26	UNDEFINED
18	98.84	0.66	0.67	1.04	sand to silty sand	60-70	36-38	24	UNDEFINED
19	123.86	0.66	0.54	1.10	sand	70-80	38-40	24	UNDEFINED
20	150.80	0.95	0.63	1.16	sand	70-80	38-40	29	UNDEFINED
1	131.96	1.15	0.87	1.23	sand	70-80	38-40	25	UNDEFINED
2	109.19	1.04	0.95	1.29	sand to silty sand	60-70	36-38	26	UNDEFINED
23	109.72	1.13	1.03	1.35	sand to silty sand	60-70	36-38	26	UNDEFINED
24	117.96	1.09	0.92	1.41	sand to silty sand	60-70	36-38	28	UNDEFINED
25	135.91	0.79	0.58	1.48	sand	60-70	36-38	26	UNDEFINED
26	113.42	0.82	0.72	1.54	sand	60-70	36-38	22	UNDEFINED
27	129.17	1.23	0.95	1.59	sand to silty sand	60-70	36-38	31	UNDEFINED
28	103.38	0.78	0.75	1.65	sand to silty sand	60-70	34-36	25	UNDEFINED
29	103.23	0.77	0.75	1.71	sand to silty sand	50-60	34-36	25	UNDEFINED
30	94.67	0.69	0.73	1.77	sand to silty sand	50-60	34-36	23	UNDEFINED
31	153.89	1.32	0.85	1.83	sand	70-80	36-38	29	UNDEFINED
32	232.10	2.37	1.02	1.89	sand	80-90	38-40	44	UNDEFINED
33	168.05	1.41	0.84	1.95	sand	70-80	36-38	32	UNDEFINED
34	160.20	1.52	0.95	1.99	sand	70-80	36-38	31	UNDEFINED
35	142.22	2.23	1.57	2.02	sand to silty sand	60-70	36-38	34	UNDEFINED
36	186.52	2.35	1.26	2.04	sand to silty sand	70-80	36-38	45	UNDEFINED
37	173.47	1.48	0.85	2.07	sand	70-80	36-38	33	UNDEFINED
38	172.32	1.45	0.84	2.10	sand	70-80	36-38	33	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	174.40	1.34	0.77	2.13	sand	70-80	36-38	33	UNDEFINED
40	161.24	1.26	0.78	2.16	sand	60-70	36-38	31	UNDEFINED
41	222.48	2.26	1.02	2.19	sand	70-80	38-40	43	UNDEFINED
42	198.25	2.32	1.17	2.22	sand	70-80	36-38	38	UNDEFINED
43	173.01	1.59	0.92	2.25	sand	70-80	36-38	33	UNDEFINED
44	142.69	1.31	0.92	2.28	sand	60-70	34-36	27	UNDEFINED
45	130.56	1.18	0.91	2.31	sand	60-70	34-36	25	UNDEFINED
46	116.35	1.00	0.86	2.34	sand to silty sand	50-60	32-34	28	UNDEFINED
47	156.57	2.83	1.80	2.36	sand to silty sand	60-70	34-36	37	UNDEFINED
48	75.39	3.01	4.00	2.39	clayey silt to silty clay	UNDFND	UNDFD	36	5.8
49	90.28	3.21	3.56	2.42	sandy silt to clayey silt	UNDFND	UNDFD	35	6.9
50	49.15	1.17	2.39	2.45	sandy silt to clayey silt	UNDFND	UNDFD	19	3.6
51	54.98	2.18	3.96	2.48	clayey silt to silty clay	UNDFND	UNDFD	26	4.1
52	72.45	2.80	3.86	2.51	clayey silt to silty clay	UNDFND	UNDFD	35	5.5
53	55.05	1.77	3.21	2.53	sandy silt to clayey silt	UNDFND	UNDFD	21	4.1
54	56.48	1.91	3.38	2.56	sandy silt to clayey silt	UNDFND	UNDFD	22	4.2
55	53.17	1.80	3.39	2.59	clayey silt to silty clay	UNDFND	UNDFD	25	3.9
56	53.43	1.89	3.53	2.62	clayey silt to silty clay	UNDFND	UNDFD	26	4.0
57	47.13	1.70	3.61	2.65	clayey silt to silty clay	UNDFND	UNDFD	23	3.4
58	47.60	1.71	3.59	2.68	clayey silt to silty clay	UNDFND	UNDFD	23	3.5
59	49.77	1.60	3.22	2.70	sandy silt to clayey silt	UNDFND	UNDFD	19	3.7
60	48.59	1.64	3.37	2.73	clayey silt to silty clay	UNDFND	UNDFD	23	3.6
1	54.04	1.86	3.44	2.76	clayey silt to silty clay	UNDFND	UNDFD	26	4.0
2	44.27	1.53	3.47	2.79	clayey silt to silty clay	UNDFND	UNDFD	21	3.2
63	147.41	2.19	1.49	2.82	sand to silty sand	60-70	34-36	35	UNDEFINED
64	189.99	1.66	0.87	2.85	sand	70-80	34-36	36	UNDEFINED
65	191.58	1.64	0.86	2.88	sand	70-80	34-36	37	UNDEFINED
66	228.72	1.88	0.82	2.91	sand	70-80	36-38	44	UNDEFINED
67	229.61	2.93	1.28	2.94	sand	70-80	36-38	44	UNDEFINED
68	170.64	1.30	0.76	2.97	sand	60-70	34-36	33	UNDEFINED
69	240.33	2.40	1.00	3.00	sand	70-80	36-38	46	UNDEFINED
70	293.91	1.99	0.68	3.03	sand	80-90	38-40	>50	UNDEFINED
71	218.03	1.77	0.81	3.05	sand	70-80	36-38	42	UNDEFINED
72	153.17	0.99	0.64	3.08	sand	60-70	32-34	29	UNDEFINED
73	258.88	6.76	2.61	3.11	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
74	243.60	2.82	1.16	3.14	sand	70-80	36-38	47	UNDEFINED
75	158.72	1.03	0.65	3.17	sand	60-70	32-34	30	UNDEFINED
76	164.02	2.93	1.78	3.20	sand to silty sand	60-70	32-34	39	UNDEFINED
77	143.20	0.81	0.56	3.22	sand	60-70	32-34	27	UNDEFINED
78	144.28	0.76	0.53	3.25	sand	60-70	32-34	28	UNDEFINED
79	155.32	0.89	0.57	3.28	sand	60-70	32-34	30	UNDEFINED
80	139.28	0.61	0.44	3.31	sand	50-60	32-34	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	131.98	0.79	0.60	3.34	sand	50-60	32-34	25	UNDEFINED
82	162.17	1.12	0.69	3.37	sand	60-70	32-34	31	UNDEFINED
83	129.90	1.33	1.03	3.39	sand to silty sand	50-60	30-32	31	UNDEFINED
84	190.38	3.06	1.61	3.42	sand to silty sand	60-70	34-36	46	UNDEFINED
85	247.35	3.33	1.35	3.46	sand	70-80	36-38	47	UNDEFINED
86	231.42	2.15	0.93	3.48	sand	70-80	34-36	44	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W1-24
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:31:97 13:37
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	44.43	0.49	1.11	0.03	silty sand to sandy silt	>90	>48	14	UNDEFINED
2	78.39	0.60	0.76	0.09	sand to silty sand	>90	>48	19	UNDEFINED
3	65.20	0.81	1.24	0.15	silty sand to sandy silt	80-90	46-48	21	UNDEFINED
4	69.71	0.89	1.27	0.22	silty sand to sandy silt	70-80	44-46	22	UNDEFINED
5	37.31	0.39	1.06	0.28	silty sand to sandy silt	50-60	40-42	12	UNDEFINED
6	31.93	0.30	0.93	0.33	silty sand to sandy silt	40-50	36-38	10	UNDEFINED
7	49.71	0.36	0.71	0.39	sand to silty sand	50-60	38-40	12	UNDEFINED
8	57.28	0.34	0.59	0.45	sand to silty sand	60-70	38-40	14	UNDEFINED
9	69.11	0.30	0.44	0.51	sand to silty sand	60-70	38-40	17	UNDEFINED
10	98.63	0.55	0.56	0.57	sand	70-80	40-42	19	UNDEFINED
11	168.22	1.04	0.62	0.63	sand	80-90	42-44	32	UNDEFINED
12	159.70	0.97	0.61	0.69	sand	80-90	42-44	31	UNDEFINED
13	156.90	0.95	0.60	0.75	sand	80-90	42-44	30	UNDEFINED
14	171.60	1.22	0.71	0.81	sand	80-90	42-44	33	UNDEFINED
15	108.59	0.59	0.55	0.87	sand	70-80	38-40	21	UNDEFINED
16	83.15	0.53	0.64	0.93	sand to silty sand	60-70	36-38	20	UNDEFINED
17	93.93	0.56	0.60	0.98	sand to silty sand	60-70	36-38	22	UNDEFINED
18	105.26	0.69	0.66	1.04	sand	60-70	38-40	20	UNDEFINED
19	99.34	0.63	0.64	1.10	sand to silty sand	60-70	36-38	24	UNDEFINED
20	98.52	0.67	0.68	1.16	sand to silty sand	60-70	36-38	24	UNDEFINED
1	96.88	0.77	0.79	1.23	sand to silty sand	60-70	36-38	23	UNDEFINED
2	109.33	0.78	0.72	1.29	sand	60-70	36-38	21	UNDEFINED
23	130.57	0.90	0.69	1.35	sand	70-80	38-40	25	UNDEFINED
24	120.07	0.93	0.77	1.41	sand	60-70	36-38	23	UNDEFINED
25	131.21	0.96	0.73	1.48	sand	60-70	36-38	25	UNDEFINED
26	140.23	1.07	0.77	1.54	sand	70-80	36-38	27	UNDEFINED
27	133.29	0.99	0.74	1.59	sand	60-70	36-38	26	UNDEFINED
28	114.28	0.94	0.83	1.65	sand to silty sand	60-70	34-36	27	UNDEFINED
29	110.33	0.93	0.84	1.71	sand to silty sand	60-70	34-36	26	UNDEFINED
30	114.05	1.07	0.94	1.77	sand to silty sand	60-70	34-36	27	UNDEFINED
31	131.16	1.13	0.86	1.83	sand	60-70	36-38	25	UNDEFINED
32	124.63	0.72	0.58	1.89	sand	60-70	34-36	24	UNDEFINED
33	105.43	0.54	0.52	1.95	sand	50-60	34-36	20	UNDEFINED
34	80.69	0.39	0.49	1.99	sand to silty sand	50-60	32-34	19	UNDEFINED
35	84.66	0.43	0.50	2.02	sand to silty sand	50-60	32-34	20	UNDEFINED
36	79.97	0.49	0.61	2.04	sand to silty sand	50-60	32-34	19	UNDEFINED
37	91.77	0.62	0.67	2.07	sand to silty sand	50-60	32-34	22	UNDEFINED
38	95.42	0.51	0.54	2.10	sand to silty sand	50-60	32-34	23	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	80.62	0.32	0.40	2.13	sand to silty sand	40-50	30-32	19	UNDEFINED
40	74.77	0.29	0.38	2.16	sand to silty sand	40-50	30-32	18	UNDEFINED
41	78.51	0.32	0.40	2.19	sand to silty sand	40-50	30-32	19	UNDEFINED
42	86.35	0.35	0.40	2.22	sand to silty sand	50-60	32-34	21	UNDEFINED
43	112.80	0.51	0.46	2.25	sand	50-60	32-34	22	UNDEFINED
44	111.07	0.62	0.56	2.28	sand	50-60	32-34	21	UNDEFINED
45	93.35	0.36	0.39	2.31	sand	50-60	32-34	18	UNDEFINED
46	115.11	0.37	0.32	2.34	sand	50-60	32-34	22	UNDEFINED
47	98.60	0.40	0.40	2.36	sand	50-60	32-34	19	UNDEFINED
48	119.20	0.57	0.48	2.39	sand	50-60	32-34	23	UNDEFINED
49	115.31	0.68	0.59	2.42	sand	50-60	32-34	22	UNDEFINED
50	97.43	0.62	0.64	2.45	sand to silty sand	50-60	32-34	23	UNDEFINED
51	102.84	0.60	0.58	2.48	sand	50-60	32-34	20	UNDEFINED
52	90.69	0.35	0.38	2.51	sand	50-60	30-32	17	UNDEFINED
53	72.55	0.36	0.50	2.53	sand to silty sand	40-50	<30	17	UNDEFINED
54	95.10	0.45	0.47	2.56	sand	50-60	30-32	18	UNDEFINED
55	93.89	0.39	0.42	2.59	sand	50-60	30-32	18	UNDEFINED
56	92.91	0.36	0.38	2.62	sand	50-60	30-32	18	UNDEFINED
57	99.19	0.42	0.43	2.65	sand	50-60	30-32	19	UNDEFINED
58	124.96	0.64	0.51	2.68	sand	50-60	32-34	24	UNDEFINED
59	127.40	0.91	0.71	2.70	sand	50-60	32-34	24	UNDEFINED
60	119.62	0.83	0.69	2.73	sand	50-60	32-34	23	UNDEFINED
61	129.67	0.80	0.62	2.76	sand	50-60	32-34	25	UNDEFINED
62	139.66	0.65	0.47	2.79	sand	60-70	32-34	27	UNDEFINED
63	141.84	0.76	0.54	2.82	sand	60-70	32-34	27	UNDEFINED
64	207.38	2.10	1.01	2.85	sand	70-80	36-38	40	UNDEFINED
65	137.60	1.07	0.78	2.88	sand	60-70	32-34	26	UNDEFINED
66	117.69	0.84	0.72	2.91	sand	50-60	32-34	23	UNDEFINED
67	115.04	0.80	0.70	2.94	sand	50-60	32-34	22	UNDEFINED
68	132.51	1.87	1.41	2.97	sand to silty sand	50-60	32-34	32	UNDEFINED
69	168.71	2.07	1.23	3.00	sand to silty sand	60-70	34-36	40	UNDEFINED
70	165.66	1.72	1.04	3.03	sand	60-70	34-36	32	UNDEFINED
71	197.04	2.31	1.17	3.05	sand	70-80	34-36	38	UNDEFINED
72	109.47	1.11	1.01	3.08	sand to silty sand	50-60	30-32	26	UNDEFINED
73	115.13	0.74	0.64	3.11	sand	50-60	30-32	22	UNDEFINED
74	129.53	0.93	0.72	3.14	sand	50-60	32-34	25	UNDEFINED
75	133.41	0.95	0.71	3.17	sand	50-60	32-34	26	UNDEFINED
76	117.34	0.86	0.73	3.20	sand	50-60	30-32	22	UNDEFINED
77	128.86	0.87	0.68	3.22	sand	50-60	32-34	25	UNDEFINED
78	145.88	1.10	0.75	3.25	sand	60-70	32-34	28	UNDEFINED
79	133.73	1.22	0.91	3.28	sand	50-60	32-34	26	UNDEFINED
80	148.28	1.38	0.93	3.31	sand	60-70	32-34	28	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	162.01	1.48	0.91	3.34	sand	60-70	32-34	31	UNDEFINED
82	159.12	3.15	1.98	3.37	silty sand to sandy silt	60-70	32-34	>50	UNDEFINED
83	142.81	1.43	1.00	3.39	sand	50-60	32-34	27	UNDEFINED
84	176.30	1.88	1.07	3.42	sand	60-70	32-34	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W1-25
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:01:97 09:42
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	23.51	0.11	0.47	0.03	silty sand to sandy silt	70-80	>48	8	UNDEFINED
2	57.09	0.28	0.48	0.09	sand to silty sand	80-90	46-48	14	UNDEFINED
3	165.11	0.80	0.48	0.15	sand	>90	>48	32	UNDEFINED
4	208.77	2.03	0.97	0.22	sand	>90	>48	40	UNDEFINED
5	143.99	2.03	1.41	0.28	sand to silty sand	>90	46-48	34	UNDEFINED
6	90.32	1.69	1.87	0.33	silty sand to sandy silt	70-80	42-44	29	UNDEFINED
7	67.22	0.81	1.20	0.39	silty sand to sandy silt	60-70	40-42	21	UNDEFINED
8	152.52	1.34	0.88	0.45	sand	>90	44-46	29	UNDEFINED
9	35.89	0.76	2.13	0.51	sandy silt to clayey silt	UNDFND	UNDFD	14	2.8
10	17.10	0.12	0.71	0.57	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
11	14.83	0.21	1.43	0.63	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
12	13.14	0.28	2.16	0.69	clayey silt to silty clay	UNDFND	UNDFD	6	.9
13	13.25	0.24	1.77	0.75	clayey silt to silty clay	UNDFND	UNDFD	6	1.0
14	16.23	0.28	1.69	0.81	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
15	21.79	0.19	0.89	0.87	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
16	26.78	0.26	0.97	0.93	silty sand to sandy silt	<40	<30	9	UNDEFINED
17	28.20	0.30	1.08	0.98	silty sand to sandy silt	<40	<30	9	UNDEFINED
18	29.93	0.17	0.57	1.04	silty sand to sandy silt	<40	<30	10	UNDEFINED
19	31.35	0.12	0.39	1.10	silty sand to sandy silt	<40	<30	10	UNDEFINED
20	33.24	0.29	0.87	1.16	silty sand to sandy silt	<40	<30	11	UNDEFINED
1	29.38	0.29	1.00	1.23	silty sand to sandy silt	<40	<30	9	UNDEFINED
2	32.42	0.31	0.95	1.29	silty sand to sandy silt	<40	<30	10	UNDEFINED
23	25.98	0.30	1.15	1.35	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
24	28.71	0.22	0.75	1.41	silty sand to sandy silt	<40	<30	9	UNDEFINED
25	33.26	0.23	0.69	1.48	silty sand to sandy silt	<40	<30	11	UNDEFINED
26	32.74	0.26	0.79	1.54	silty sand to sandy silt	<40	<30	10	UNDEFINED
27	38.28	0.68	1.76	1.59	sandy silt to clayey silt	UNDFND	UNDFD	15	2.9
28	35.28	0.77	2.19	1.65	sandy silt to clayey silt	UNDFND	UNDFD	14	2.6
29	68.06	0.45	0.66	1.71	sand to silty sand	40-50	32-34	16	UNDEFINED
30	154.32	0.72	0.47	1.77	sand	70-80	36-38	30	UNDEFINED
31	157.96	0.69	0.43	1.83	sand	70-80	36-38	30	UNDEFINED
32	224.93	0.84	0.37	1.89	sand	80-90	38-40	43	UNDEFINED
33	221.95	0.87	0.39	1.95	sand	70-80	38-40	43	UNDEFINED
34	225.17	0.94	0.42	1.99	sand	80-90	38-40	43	UNDEFINED
35	235.39	0.53	0.23	2.02	gravelly sand to sand	80-90	38-40	38	UNDEFINED
36	225.85	0.62	0.27	2.04	gravelly sand to sand	70-80	38-40	36	UNDEFINED
37	196.94	0.46	0.23	2.07	sand	70-80	36-38	38	UNDEFINED
38	200.12	0.56	0.28	2.10	sand	70-80	36-38	38	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	180.20	0.51	0.28	2.13	sand	70-80	36-38	35	UNDEFINED
40	173.00	0.47	0.27	2.16	sand	70-80	36-38	33	UNDEFINED
41	142.66	0.41	0.29	2.19	sand	60-70	34-36	27	UNDEFINED
42	166.05	0.45	0.27	2.22	sand	60-70	36-38	32	UNDEFINED
43	206.31	0.63	0.31	2.25	sand	70-80	36-38	40	UNDEFINED
44	125.71	0.28	0.22	2.28	sand	60-70	34-36	24	UNDEFINED
45	146.17	0.37	0.25	2.31	sand	60-70	34-36	28	UNDEFINED
46	152.63	0.50	0.33	2.34	sand	60-70	34-36	29	UNDEFINED
47	191.26	0.56	0.29	2.36	sand	70-80	36-38	37	UNDEFINED
48	217.57	0.66	0.30	2.39	gravelly sand to sand	70-80	36-38	35	UNDEFINED
49	143.32	0.60	0.42	2.42	sand	60-70	34-36	27	UNDEFINED
50	157.58	0.47	0.30	2.45	sand	60-70	34-36	30	UNDEFINED
51	162.23	0.49	0.30	2.48	sand	60-70	34-36	31	UNDEFINED
52	179.49	0.43	0.24	2.51	sand	70-80	36-38	34	UNDEFINED
53	191.92	0.41	0.21	2.53	sand	70-80	36-38	37	UNDEFINED
54	170.29	0.52	0.30	2.56	sand	60-70	34-36	33	UNDEFINED
55	183.53	0.67	0.37	2.59	sand	70-80	36-38	35	UNDEFINED
56	126.10	0.37	0.29	2.62	sand	50-60	32-34	24	UNDEFINED
57	148.61	0.58	0.39	2.65	sand	60-70	34-36	28	UNDEFINED
58	186.14	0.66	0.36	2.68	sand	70-80	34-36	36	UNDEFINED
59	171.34	0.52	0.30	2.70	sand	60-70	34-36	33	UNDEFINED
60	170.11	0.52	0.30	2.73	sand	60-70	34-36	33	UNDEFINED
1	215.70	0.59	0.27	2.76	gravelly sand to sand	70-80	36-38	34	UNDEFINED
2	212.49	0.73	0.34	2.79	sand	70-80	36-38	41	UNDEFINED
63	182.95	0.55	0.30	2.82	sand	60-70	34-36	35	UNDEFINED
64	221.09	0.63	0.28	2.85	gravelly sand to sand	70-80	36-38	35	UNDEFINED
65	185.39	0.63	0.34	2.88	sand	60-70	34-36	36	UNDEFINED
66	230.28	0.57	0.25	2.91	gravelly sand to sand	70-80	36-38	37	UNDEFINED
67	214.05	0.47	0.22	2.94	gravelly sand to sand	70-80	36-38	34	UNDEFINED
68	150.11	0.40	0.26	2.97	sand	60-70	32-34	29	UNDEFINED
69	183.67	0.50	0.27	3.00	sand	60-70	34-36	35	UNDEFINED
70	188.23	0.56	0.30	3.03	sand	60-70	34-36	36	UNDEFINED
71	238.08	0.49	0.21	3.05	gravelly sand to sand	70-80	36-38	38	UNDEFINED
72	190.80	0.51	0.27	3.08	sand	60-70	34-36	37	UNDEFINED
73	200.51	0.54	0.27	3.11	sand	70-80	34-36	38	UNDEFINED
74	178.90	0.66	0.37	3.14	sand	60-70	34-36	34	UNDEFINED
75	184.55	0.70	0.38	3.17	sand	60-70	34-36	35	UNDEFINED
76	174.76	0.51	0.29	3.20	sand	60-70	34-36	33	UNDEFINED
77	180.58	0.46	0.26	3.22	sand	60-70	34-36	35	UNDEFINED
78	191.96	0.55	0.28	3.25	sand	60-70	34-36	37	UNDEFINED
79	183.91	0.76	0.41	3.28	sand	60-70	34-36	35	UNDEFINED
80	149.11	0.42	0.28	3.31	sand	60-70	32-34	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	147.51	0.66	0.45	3.34	sand	60-70	32-34	28	UNDEFINED
82	183.32	0.57	0.31	3.37	sand	60-70	34-36	35	UNDEFINED
83	151.87	0.61	0.40	3.39	sand	60-70	32-34	29	UNDEFINED
84	142.30	0.60	0.42	3.42	sand	50-60	32-34	27	UNDEFINED
85	232.21	0.42	0.18	3.46	gravelly sand to sand	70-80	34-36	37	UNDEFINED
86	258.86	0.47	0.18	3.48	gravelly sand to sand	70-80	36-38	41	UNDEFINED
87	173.17	0.39	0.23	3.51	sand	60-70	32-34	33	UNDEFINED
88	178.76	0.34	0.19	3.54	sand	60-70	32-34	34	UNDEFINED
89	208.98	0.94	0.45	3.57	sand	60-70	34-36	40	UNDEFINED
90	213.67	1.69	0.79	3.60	sand	70-80	34-36	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:14:97 13:10
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	15.53	0.58	3.77	0.03	silty clay to clay	UNDFND	UNDFD	10	1.2
2	11.94	0.62	5.22	0.09	clay	UNDFND	UNDFD	11	.9
3	36.40	0.36	0.99	0.15	silty sand to sandy silt	60-70	42-44	12	UNDEFINED
4	74.21	0.60	0.81	0.22	sand to silty sand	80-90	44-46	18	UNDEFINED
5	77.59	0.70	0.90	0.28	sand to silty sand	70-80	42-44	19	UNDEFINED
6	82.98	0.69	0.83	0.33	sand to silty sand	70-80	42-44	20	UNDEFINED
7	80.68	0.73	0.90	0.39	sand to silty sand	70-80	42-44	19	UNDEFINED
8	59.31	0.60	1.01	0.45	silty sand to sandy silt	60-70	38-40	19	UNDEFINED
9	67.52	0.49	0.73	0.51	sand to silty sand	60-70	38-40	16	UNDEFINED
10	69.81	0.57	0.81	0.57	sand to silty sand	60-70	38-40	17	UNDEFINED
11	85.07	0.73	0.86	0.63	sand to silty sand	60-70	38-40	20	UNDEFINED
12	120.40	0.94	0.78	0.69	sand	70-80	40-42	23	UNDEFINED
13	131.47	0.88	0.67	0.75	sand	70-80	40-42	25	UNDEFINED
14	127.61	0.88	0.69	0.81	sand	70-80	40-42	24	UNDEFINED
15	128.56	1.00	0.78	0.87	sand	70-80	40-42	25	UNDEFINED
16	108.15	0.88	0.82	0.93	sand to silty sand	70-80	38-40	26	UNDEFINED
17	111.15	0.81	0.73	0.98	sand	60-70	38-40	21	UNDEFINED
18	137.33	0.91	0.66	1.04	sand	70-80	38-40	26	UNDEFINED
19	152.38	0.99	0.65	1.10	sand	70-80	40-42	29	UNDEFINED
20	144.02	1.19	0.83	1.16	sand	70-80	38-40	28	UNDEFINED
1	122.57	1.12	0.92	1.23	sand to silty sand	60-70	38-40	29	UNDEFINED
22	123.96	1.00	0.80	1.29	sand	60-70	36-38	24	UNDEFINED
23	115.45	0.84	0.72	1.35	sand	60-70	36-38	22	UNDEFINED
24	124.66	0.73	0.58	1.41	sand	60-70	36-38	24	UNDEFINED
25	120.67	0.74	0.61	1.48	sand	60-70	36-38	23	UNDEFINED
26	115.04	0.64	0.56	1.54	sand	60-70	36-38	22	UNDEFINED
27	129.84	0.74	0.57	1.59	sand	60-70	36-38	25	UNDEFINED
28	134.01	0.70	0.52	1.65	sand	60-70	36-38	26	UNDEFINED
29	110.33	0.34	0.31	1.71	sand	60-70	34-36	21	UNDEFINED
30	93.38	0.32	0.34	1.77	sand	50-60	34-36	18	UNDEFINED
31	119.58	0.46	0.38	1.83	sand	60-70	34-36	23	UNDEFINED
32	143.57	1.40	0.98	1.89	sand	60-70	36-38	28	UNDEFINED
33	158.90	1.57	0.99	1.95	sand	70-80	36-38	30	UNDEFINED
34	106.96	0.85	0.79	1.99	sand to silty sand	50-60	34-36	26	UNDEFINED
35	105.83	0.56	0.53	2.02	sand	50-60	34-36	20	UNDEFINED
36	112.87	0.57	0.50	2.04	sand	50-60	34-36	22	UNDEFINED
37	120.39	0.60	0.50	2.07	sand	60-70	34-36	23	UNDEFINED
38	150.27	1.11	0.74	2.10	sand	60-70	36-38	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	135.62	0.90	0.66	2.13	sand	60-70	34-36	26	UNDEFINED
40	170.53	0.49	0.29	2.16	sand	70-80	36-38	33	UNDEFINED
41	150.98	0.81	0.53	2.19	sand	60-70	34-36	29	UNDEFINED
42	112.15	0.48	0.43	2.22	sand	50-60	32-34	21	UNDEFINED
43	102.92	0.42	0.40	2.25	sand	50-60	32-34	20	UNDEFINED
44	151.15	1.00	0.66	2.28	sand	60-70	34-36	29	UNDEFINED
45	69.58	2.27	3.26	2.31	sandy silt to clayey silt	UNDFND	UNDFD	27	5.3
46	88.32	3.34	3.78	2.34	clayey silt to silty clay	UNDFND	UNDFD	42	6.8
47	86.52	2.90	3.35	2.36	sandy silt to clayey silt	UNDFND	UNDFD	33	6.6
48	79.28	2.91	3.67	2.39	clayey silt to silty clay	UNDFND	UNDFD	38	6.1
49	82.07	2.94	3.59	2.42	sandy silt to clayey silt	UNDFND	UNDFD	31	6.3
50	190.00	5.48	2.88	2.45	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
51	149.48	4.69	3.13	2.48	sandy silt to clayey silt	UNDFND	UNDFD	>50	11.7
52	204.74	2.35	1.15	2.51	sand	70-80	36-38	39	UNDEFINED
53	202.77	1.60	0.79	2.53	sand	70-80	36-38	39	UNDEFINED
54	248.38	4.62	1.86	2.56	sand to silty sand	70-80	38-40	>50	UNDEFINED
55	163.19	9.61	5.89	2.59	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
56	194.75	5.42	2.79	2.62	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
57	142.82	3.85	2.69	2.65	silty sand to sandy silt	60-70	34-36	46	UNDEFINED
58	98.42	5.56	5.65	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	166.07	6.96	4.19	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	187.10	7.33	3.92	2.73	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
61	219.03	3.77	1.72	2.76	sand to silty sand	70-80	36-38	>50	UNDEFINED
62	288.70	2.58	0.89	2.79	sand	80-90	38-40	>50	UNDEFINED
63	250.74	7.19	2.87	2.82	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
64	123.31	5.32	4.32	2.85	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
65	123.25	4.58	3.71	2.88	sandy silt to clayey silt	UNDFND	UNDFD	47	9.5
66	185.26	3.75	2.02	2.91	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
67	175.13	1.91	1.09	2.94	sand	60-70	34-36	34	UNDEFINED
68	181.09	2.17	1.20	2.97	sand	60-70	34-36	35	UNDEFINED
69	216.80	3.85	1.78	3.00	sand to silty sand	70-80	36-38	>50	UNDEFINED
70	227.72	4.25	1.87	3.03	sand to silty sand	70-80	36-38	>50	UNDEFINED
71	207.82	3.73	1.79	3.05	sand to silty sand	70-80	34-36	50	UNDEFINED
72	169.88	2.08	1.22	3.08	sand to silty sand	60-70	34-36	41	UNDEFINED
73	182.43	1.50	0.82	3.11	sand	60-70	34-36	35	UNDEFINED
74	171.29	1.46	0.85	3.14	sand	60-70	34-36	33	UNDEFINED
75	201.58	2.34	1.16	3.17	sand	70-80	34-36	39	UNDEFINED
76	217.00	3.83	1.77	3.20	sand to silty sand	70-80	34-36	>50	UNDEFINED
77	232.67	4.36	1.88	3.22	sand to silty sand	70-80	36-38	>50	UNDEFINED
78	237.42	4.37	1.84	3.25	sand to silty sand	70-80	36-38	>50	UNDEFINED
79	198.43	2.85	1.44	3.28	sand to silty sand	60-70	34-36	48	UNDEFINED
80	175.35	2.17	1.23	3.31	sand to silty sand	60-70	34-36	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	209.97	1.48	0.70	3.34	sand	70-80	34-36	40	UNDEFINED
82	199.35	1.32	0.66	3.37	sand	60-70	34-36	38	UNDEFINED
83	230.45	1.62	0.70	3.39	sand	70-80	34-36	44	UNDEFINED
84	266.26	2.27	0.85	3.42	sand	70-80	36-38	>50	UNDEFINED
85	284.48	2.55	0.90	3.46	sand	70-80	36-38	>50	UNDEFINED
86	213.85	1.63	0.76	3.48	sand	70-80	34-36	41	UNDEFINED
87	185.81	1.52	0.82	3.51	sand	60-70	34-36	36	UNDEFINED
88	183.70	1.18	0.64	3.54	sand	60-70	34-36	35	UNDEFINED
89	243.82	2.36	0.97	3.57	sand	70-80	34-36	47	UNDEFINED
90	250.51	1.93	0.77	3.60	sand	70-80	34-36	48	UNDEFINED
91	258.01	2.29	0.89	3.63	sand	70-80	36-38	49	UNDEFINED
92	266.35	1.26	0.47	3.66	gravelly sand to sand	70-80	36-38	43	UNDEFINED
93	175.91	0.77	0.44	3.69	sand	60-70	32-34	34	UNDEFINED
94	229.73	2.26	0.98	3.71	sand	70-80	34-36	44	UNDEFINED
95	181.45	1.11	0.61	3.74	sand	60-70	32-34	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-2
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:14:97 10:29
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	55.57	0.59	1.06	0.03	silty sand to sandy silt	>90	>48	18	UNDEFINED
2	48.47	0.26	0.53	0.09	sand to silty sand	80-90	46-48	12	UNDEFINED
3	65.81	0.25	0.39	0.15	sand to silty sand	80-90	46-48	16	UNDEFINED
4	71.10	0.30	0.42	0.22	sand to silty sand	70-80	44-46	17	UNDEFINED
5	66.87	0.29	0.43	0.28	sand to silty sand	70-80	42-44	16	UNDEFINED
6	75.55	0.32	0.42	0.33	sand to silty sand	70-80	42-44	18	UNDEFINED
7	66.43	0.31	0.47	0.39	sand to silty sand	60-70	40-42	16	UNDEFINED
8	67.18	0.26	0.39	0.45	sand to silty sand	60-70	40-42	16	UNDEFINED
9	88.89	0.39	0.44	0.51	sand to silty sand	70-80	40-42	21	UNDEFINED
10	108.86	0.54	0.50	0.57	sand	70-80	40-42	21	UNDEFINED
11	129.02	0.69	0.54	0.63	sand	80-90	42-44	25	UNDEFINED
12	132.41	0.60	0.45	0.69	sand	80-90	40-42	25	UNDEFINED
13	125.01	0.63	0.51	0.75	sand	70-80	40-42	24	UNDEFINED
14	136.94	0.67	0.49	0.81	sand	70-80	40-42	26	UNDEFINED
15	126.67	0.53	0.42	0.87	sand	70-80	40-42	24	UNDEFINED
16	135.87	0.71	0.52	0.93	sand	70-80	40-42	26	UNDEFINED
17	154.79	0.88	0.57	0.98	sand	70-80	40-42	30	UNDEFINED
18	173.81	0.88	0.50	1.04	sand	80-90	40-42	33	UNDEFINED
19	173.29	1.04	0.60	1.10	sand	80-90	40-42	33	UNDEFINED
20	122.44	0.73	0.60	1.16	sand	70-80	38-40	23	UNDEFINED
21	176.50	0.84	0.48	1.23	sand	80-90	40-42	34	UNDEFINED
22	145.88	0.90	0.61	1.29	sand	70-80	38-40	28	UNDEFINED
23	191.84	1.10	0.57	1.35	sand	80-90	40-42	37	UNDEFINED
24	213.26	1.34	0.63	1.41	sand	80-90	40-42	41	UNDEFINED
25	216.89	1.31	0.60	1.48	sand	80-90	40-42	42	UNDEFINED
26	214.01	1.17	0.55	1.54	sand	80-90	40-42	41	UNDEFINED
27	195.86	0.88	0.45	1.59	sand	70-80	38-40	38	UNDEFINED
28	149.88	0.51	0.34	1.65	sand	70-80	36-38	29	UNDEFINED
29	172.69	0.74	0.43	1.71	sand	70-80	38-40	33	UNDEFINED
30	202.08	0.61	0.30	1.77	sand	70-80	38-40	39	UNDEFINED
31	155.33	0.50	0.32	1.83	sand	70-80	36-38	30	UNDEFINED
32	165.05	0.54	0.33	1.89	sand	70-80	36-38	32	UNDEFINED
33	161.38	0.60	0.37	1.95	sand	70-80	36-38	31	UNDEFINED
34	158.00	0.59	0.37	1.99	sand	60-70	36-38	30	UNDEFINED
35	159.88	0.78	0.49	2.02	sand	70-80	36-38	31	UNDEFINED
36	128.13	0.68	0.53	2.04	sand	60-70	34-36	25	UNDEFINED
37	141.05	0.76	0.54	2.07	sand	60-70	34-36	27	UNDEFINED
38	164.18	0.67	0.41	2.10	sand	70-80	36-38	31	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W2-2 Page No. 2

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	145.96	0.57	0.39	2.13	sand	60-70	34-36	28	UNDEFINED
40	133.04	0.43	0.33	2.16	sand	60-70	34-36	25	UNDEFINED
41	150.15	0.43	0.28	2.19	sand	60-70	34-36	29	UNDEFINED
42	180.96	0.70	0.39	2.22	sand	70-80	36-38	35	UNDEFINED
43	227.66	0.82	0.36	2.25	gravelly sand to sand	70-80	38-40	36	UNDEFINED
44	170.70	0.70	0.41	2.28	sand	70-80	36-38	33	UNDEFINED
45	163.15	0.52	0.32	2.31	sand	60-70	36-38	31	UNDEFINED
46	135.67	0.61	0.45	2.34	sand	60-70	34-36	26	UNDEFINED
47	193.49	0.71	0.37	2.36	sand	70-80	36-38	37	UNDEFINED
48	171.99	0.58	0.34	2.39	sand	60-70	36-38	33	UNDEFINED
49	162.09	0.46	0.28	2.42	sand	60-70	34-36	31	UNDEFINED
50	148.80	0.43	0.29	2.45	sand	60-70	34-36	29	UNDEFINED
51	197.55	0.72	0.36	2.48	sand	70-80	36-38	38	UNDEFINED
52	187.20	0.52	0.28	2.51	sand	70-80	36-38	36	UNDEFINED
53	147.83	0.34	0.23	2.53	sand	60-70	34-36	28	UNDEFINED
54	177.99	0.72	0.41	2.56	sand	60-70	34-36	34	UNDEFINED
55	198.73	0.68	0.34	2.59	sand	70-80	36-38	38	UNDEFINED
56	166.78	0.59	0.35	2.62	sand	60-70	34-36	32	UNDEFINED
57	152.20	0.75	0.49	2.65	sand	60-70	34-36	29	UNDEFINED
58	140.69	0.76	0.54	2.68	sand	60-70	34-36	27	UNDEFINED
59	145.67	0.56	0.38	2.70	sand	60-70	34-36	28	UNDEFINED
60	156.81	0.49	0.31	2.73	sand	60-70	34-36	30	UNDEFINED
1	160.61	0.56	0.35	2.76	sand	60-70	34-36	31	UNDEFINED
62	174.76	0.58	0.33	2.79	sand	60-70	34-36	33	UNDEFINED
63	139.62	0.97	0.69	2.82	sand	60-70	32-34	27	UNDEFINED
64	265.59	6.90	2.60	2.85	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:14:97 09:17
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	24.03	0.26	1.09	0.03	sandy silt to clayey silt	UNDFND	UNDFD	9	1.9
2	49.53	0.64	1.30	0.09	silty sand to sandy silt	80-90	46-48	16	UNDEFINED
3	28.58	0.24	0.84	0.15	silty sand to sandy silt	50-60	40-42	9	UNDEFINED
4	39.51	0.12	0.30	0.22	sand to silty sand	60-70	40-42	9	UNDEFINED
5	108.15	0.30	0.28	0.28	sand	80-90	44-46	21	UNDEFINED
6	246.26	0.85	0.34	0.33	gravelly sand to sand	>90	>48	39	UNDEFINED
7	290.07	1.24	0.43	0.39	gravelly sand to sand	>90	>48	46	UNDEFINED
8	134.21	0.83	0.62	0.45	sand	80-90	44-46	26	UNDEFINED
9	123.42	0.45	0.36	0.51	sand	80-90	42-44	24	UNDEFINED
10	106.46	0.51	0.48	0.57	sand	70-80	40-42	20	UNDEFINED
11	74.88	0.41	0.55	0.63	sand to silty sand	60-70	38-40	18	UNDEFINED
12	74.49	0.39	0.53	0.69	sand to silty sand	60-70	38-40	18	UNDEFINED
13	77.46	0.45	0.58	0.75	sand to silty sand	60-70	38-40	19	UNDEFINED
14	103.35	0.53	0.51	0.81	sand	70-80	38-40	20	UNDEFINED
15	132.24	0.59	0.45	0.87	sand	70-80	40-42	25	UNDEFINED
16	161.87	0.85	0.52	0.93	sand	80-90	40-42	31	UNDEFINED
17	155.76	0.93	0.60	0.98	sand	70-80	40-42	30	UNDEFINED
18	115.41	0.70	0.60	1.04	sand	70-80	38-40	22	UNDEFINED
19	103.09	0.58	0.56	1.10	sand	60-70	36-38	20	UNDEFINED
20	135.88	0.74	0.54	1.16	sand	70-80	38-40	26	UNDEFINED
21	162.82	0.90	0.55	1.23	sand	70-80	38-40	31	UNDEFINED
22	176.35	0.91	0.51	1.29	sand	70-80	40-42	34	UNDEFINED
23	118.54	0.72	0.61	1.35	sand	60-70	36-38	23	UNDEFINED
24	95.22	0.53	0.56	1.41	sand to silty sand	60-70	34-36	23	UNDEFINED
25	127.34	0.53	0.41	1.48	sand	60-70	36-38	24	UNDEFINED
26	152.90	0.84	0.55	1.54	sand	70-80	38-40	29	UNDEFINED
27	173.02	0.76	0.44	1.59	sand	70-80	38-40	33	UNDEFINED
28	187.47	0.83	0.44	1.65	sand	70-80	38-40	36	UNDEFINED
29	168.65	0.48	0.28	1.71	sand	70-80	38-40	32	UNDEFINED
30	131.23	0.34	0.26	1.77	sand	60-70	36-38	25	UNDEFINED
31	115.91	0.37	0.32	1.83	sand	60-70	34-36	22	UNDEFINED
32	125.24	0.38	0.30	1.89	sand	60-70	34-36	24	UNDEFINED
33	148.80	0.52	0.35	1.95	sand	60-70	36-38	29	UNDEFINED
34	154.30	0.54	0.35	1.99	sand	60-70	36-38	30	UNDEFINED
35	154.30	0.52	0.34	2.02	sand	60-70	36-38	30	UNDEFINED
36	137.12	0.38	0.28	2.04	sand	60-70	34-36	26	UNDEFINED
37	141.38	0.45	0.32	2.07	sand	60-70	34-36	27	UNDEFINED
38	154.15	0.36	0.23	2.10	sand	60-70	36-38	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note for interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	176.07	0.64	0.37	2.13	sand	70-80	36-38	34	UNDEFINED
40	157.10	0.38	0.24	2.16	sand	60-70	36-38	30	UNDEFINED
41	142.47	0.35	0.24	2.19	sand	60-70	34-36	27	UNDEFINED
42	117.90	0.28	0.24	2.22	sand	50-60	34-36	23	UNDEFINED
43	129.91	0.30	0.23	2.25	sand	60-70	34-36	25	UNDEFINED
44	124.18	0.25	0.20	2.28	sand	60-70	34-36	24	UNDEFINED
45	105.58	0.24	0.23	2.31	sand	50-60	32-34	20	UNDEFINED
46	108.89	0.23	0.21	2.34	sand	50-60	32-34	21	UNDEFINED
47	116.35	0.28	0.24	2.36	sand	50-60	32-34	22	UNDEFINED
48	124.69	0.49	0.39	2.39	sand	60-70	34-36	24	UNDEFINED
49	128.86	0.49	0.38	2.42	sand	60-70	34-36	25	UNDEFINED
50	143.21	0.43	0.30	2.45	sand	60-70	34-36	27	UNDEFINED
51	135.95	0.29	0.21	2.48	sand	60-70	34-36	26	UNDEFINED
52	129.63	0.34	0.26	2.51	sand	60-70	34-36	25	UNDEFINED
53	163.02	0.45	0.28	2.53	sand	60-70	34-36	31	UNDEFINED
54	161.89	0.38	0.23	2.56	sand	60-70	34-36	31	UNDEFINED
55	158.09	1.29	0.81	2.59	sand	60-70	34-36	30	UNDEFINED
56	163.69	0.67	0.41	2.62	sand	60-70	34-36	31	UNDEFINED
57	127.37	0.33	0.26	2.65	sand	50-60	32-34	24	UNDEFINED
58	201.50	0.82	0.41	2.68	sand	70-80	36-38	39	UNDEFINED
59	248.41	1.74	0.70	2.70	sand	70-80	36-38	48	UNDEFINED
60	361.79	3.93	1.09	2.73	sand	80-90	38-40	>50	UNDEFINED
61	393.30	4.09	1.04	2.76	sand	>90	40-42	>50	UNDEFINED
62	421.07	5.65	1.34	2.79	sand	>90	40-42	>50	UNDEFINED
63	367.78	3.24	0.88	2.82	sand	80-90	38-40	>50	UNDEFINED
64	238.68	1.08	0.45	2.85	sand -	70-80	36-38	46	UNDEFINED
65	207.72	0.89	0.43	2.88	sand	70-80	36-38	40	UNDEFINED
66	197.17	1.10	0.56	2.91	sand	70-80	34-36	38	UNDEFINED
67	207.21	1.05	0.51	2.94	sand	70-80	36-38	40	UNDEFINED
68	187.20	0.65	0.35	2.97	sand	60-70	34-36	36	UNDEFINED
69	175.40	0.51	0.29	3.00	sand	60-70	34-36	34	UNDEFINED
70	166.51	0.75	0.45	3.03	sand	60-70	34-36	32	UNDEFINED
71	159.69	0.91	0.57	3.05	sand	60-70	34-36	31	UNDEFINED
72	162.90	0.98	0.60	3.08	sand	60-70	34-36	31	UNDEFINED
73	170.44	1.00	0.59	3.11	sand	60-70	34-36	33	UNDEFINED
74	153.48	0.92	0.60	3.14	sand	60-70	32-34	29	UNDEFINED
75	149.67	0.77	0.51	3.17	sand	60-70	32-34	29	UNDEFINED
76	172.04	0.78	0.45	3.20	sand	60-70	34-36	33	UNDEFINED
77	172.42	0.79	0.46	3.22	sand	60-70	34-36	33	UNDEFINED
78	158.61	0.72	0.46	3.25	sand	60-70	32-34	30	UNDEFINED
79	150.80	0.78	0.52	3.28	sand	60-70	32-34	29	UNDEFINED
80	194.40	1.56	0.80	3.31	sand	60-70	34-36	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	203.79	1.76	0.86	3.34	sand	60-70	34-36	39	UNDEFINED
82	190.99	1.62	0.85	3.37	sand	60-70	34-36	37	UNDEFINED
83	185.18	1.67	0.90	3.39	sand	60-70	34-36	35	UNDEFINED
84	187.43	1.91	1.02	3.42	sand	60-70	34-36	36	UNDEFINED
85	166.94	1.41	0.84	3.46	sand	60-70	32-34	32	UNDEFINED
86	163.37	1.07	0.65	3.48	sand	60-70	32-34	31	UNDEFINED
87	145.68	0.86	0.59	3.51	sand	50-60	32-34	28	UNDEFINED
88	158.25	0.99	0.63	3.54	sand	60-70	32-34	30	UNDEFINED
89	171.06	1.50	0.88	3.57	sand	60-70	32-34	33	UNDEFINED
90	175.40	1.94	1.10	3.60	sand	60-70	32-34	34	UNDEFINED
91	163.10	1.72	1.06	3.63	sand	60-70	32-34	31	UNDEFINED
92	150.82	1.18	0.78	3.66	sand	50-60	32-34	29	UNDEFINED
93	141.34	0.57	0.40	3.69	sand	50-60	30-32	27	UNDEFINED
94	153.95	0.44	0.29	3.71	sand	60-70	32-34	29	UNDEFINED
95	158.02	0.68	0.43	3.74	sand	60-70	32-34	30	UNDEFINED
96	177.91	0.92	0.52	3.77	sand	60-70	32-34	34	UNDEFINED
97	177.47	1.49	0.84	3.80	sand	60-70	32-34	34	UNDEFINED
98	166.33	0.78	0.47	3.83	sand	60-70	32-34	32	UNDEFINED
99	157.09	0.57	0.36	3.86	sand	60-70	32-34	30	UNDEFINED
100	158.67	0.54	0.34	3.88	sand	60-70	32-34	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-4
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:14:97 08:07
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	40.29	0.84	2.09	0.03	sandy silt to clayey silt	UNDFND	UNDFD	15	3.2
2	17.47	0.76	4.35	0.09	clay	UNDFND	UNDFD	17	1.3
3	56.06	0.32	0.58	0.15	sand to silty sand	70-80	44-46	13	UNDEFINED
4	67.29	0.43	0.64	0.22	sand to silty sand	70-80	44-46	16	UNDEFINED
5	196.67	1.06	0.54	0.28	sand	>90	>48	38	UNDEFINED
6	405.78	2.18	0.54	0.33	gravelly sand to sand	>90	>48	>50	UNDEFINED
7	282.11	1.55	0.55	0.39	gravelly sand to sand	>90	>48	45	UNDEFINED
8	163.61	0.83	0.51	0.45	sand	>90	44-46	31	UNDEFINED
9	120.27	0.61	0.50	0.51	sand	80-90	42-44	23	UNDEFINED
10	122.61	0.65	0.53	0.57	sand	80-90	42-44	23	UNDEFINED
11	111.12	0.65	0.58	0.63	sand	70-80	40-42	21	UNDEFINED
12	84.53	0.50	0.59	0.69	sand to silty sand	60-70	38-40	20	UNDEFINED
13	114.64	0.59	0.51	0.75	sand	70-80	40-42	22	UNDEFINED
14	115.66	0.65	0.56	0.81	sand	70-80	40-42	22	UNDEFINED
15	118.72	0.50	0.43	0.87	sand	70-80	40-42	23	UNDEFINED
16	139.03	0.69	0.49	0.93	sand	70-80	40-42	27	UNDEFINED
17	141.98	0.81	0.57	0.98	sand	70-80	40-42	27	UNDEFINED
18	127.14	0.69	0.55	1.04	sand	70-80	38-40	24	UNDEFINED
19	94.99	0.59	0.62	1.10	sand to silty sand	60-70	36-38	23	UNDEFINED
20	105.39	0.67	0.64	1.16	sand	60-70	36-38	20	UNDEFINED
21	147.78	0.78	0.52	1.23	sand	70-80	38-40	28	UNDEFINED
22	168.57	0.75	0.44	1.29	sand	70-80	38-40	32	UNDEFINED
23	139.00	0.77	0.55	1.35	sand	70-80	38-40	27	UNDEFINED
24	147.33	0.80	0.54	1.41	sand	70-80	38-40	28	UNDEFINED
25	184.88	1.01	0.55	1.48	sand	70-80	38-40	35	UNDEFINED
26	134.79	0.71	0.53	1.54	sand	60-70	36-38	26	UNDEFINED
27	123.73	0.33	0.27	1.59	sand	60-70	36-38	24	UNDEFINED
28	100.06	0.37	0.37	1.65	sand	50-60	34-36	19	UNDEFINED
29	99.52	0.67	0.68	1.71	sand to silty sand	50-60	34-36	24	UNDEFINED
30	190.96	1.13	0.59	1.77	sand	70-80	38-40	37	UNDEFINED
31	140.75	2.72	1.93	1.83	silty sand to sandy silt	60-70	36-38	45	UNDEFINED
32	159.49	4.88	3.06	1.89	sandy silt to clayey silt	UNDFND	UNDFD	>50	12.6
33	127.58	6.37	4.99	1.95	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
34	112.16	4.45	3.97	1.99	clayey silt to silty clay	UNDFND	UNDFD	>50	8.8
35	140.49	2.05	1.46	2.02	sand to silty sand	60-70	34-36	34	UNDEFINED
36	114.66	0.68	0.59	2.04	sand	60-70	34-36	22	UNDEFINED
37	108.99	0.84	0.77	2.07	sand to silty sand	50-60	34-36	26	UNDEFINED
38	106.26	0.69	0.65	2.10	sand	50-60	32-34	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	111.41	0.94	0.84	2.13	sand to silty sand	50-60	34-36	27	UNDEFINED
40	115.20	1.02	0.88	2.16	sand to silty sand	50-60	34-36	28	UNDEFINED
41	110.68	0.89	0.80	2.19	sand to silty sand	50-60	32-34	27	UNDEFINED
42	116.24	0.84	0.72	2.22	sand	50-60	34-36	22	UNDEFINED
43	136.43	1.00	0.73	2.25	sand	60-70	34-36	26	UNDEFINED
44	159.39	0.57	0.36	2.28	sand	60-70	36-38	31	UNDEFINED
45	125.11	0.43	0.34	2.31	sand	60-70	34-36	24	UNDEFINED
46	94.12	0.52	0.55	2.34	sand to silty sand	50-60	32-34	23	UNDEFINED
47	123.35	0.62	0.50	2.36	sand	60-70	34-36	24	UNDEFINED
48	116.54	0.75	0.64	2.39	sand	50-60	32-34	22	UNDEFINED
49	152.91	1.11	0.72	2.42	sand	60-70	34-36	29	UNDEFINED
50	132.87	0.94	0.71	2.45	sand	60-70	34-36	25	UNDEFINED
51	125.31	1.06	0.84	2.48	sand	60-70	32-34	24	UNDEFINED
52	122.14	0.95	0.78	2.51	sand	50-60	32-34	23	UNDEFINED
53	127.89	0.83	0.65	2.53	sand	60-70	32-34	25	UNDEFINED
54	111.09	0.75	0.68	2.56	sand	50-60	32-34	21	UNDEFINED
55	97.18	0.58	0.60	2.59	sand to silty sand	50-60	30-32	23	UNDEFINED
56	89.82	0.53	0.59	2.62	sand to silty sand	40-50	30-32	22	UNDEFINED
57	98.44	0.68	0.69	2.65	sand to silty sand	50-60	30-32	24	UNDEFINED
58	111.57	0.70	0.63	2.68	sand	50-60	32-34	21	UNDEFINED
59	114.53	0.71	0.62	2.70	sand	50-60	32-34	22	UNDEFINED
60	112.52	0.77	0.69	2.73	sand	50-60	32-34	22	UNDEFINED
61	122.38	0.82	0.67	2.76	sand	50-60	32-34	23	UNDEFINED
62	112.14	0.80	0.71	2.79	sand	50-60	32-34	21	UNDEFINED
63	125.73	0.60	0.47	2.82	sand	50-60	32-34	24	UNDEFINED
64	107.38	0.41	0.38	2.85	sand	50-60	30-32	21	UNDEFINED
65	101.62	0.48	0.47	2.88	sand	50-60	30-32	19	UNDEFINED
66	133.34	0.79	0.59	2.91	sand	50-60	32-34	26	UNDEFINED
67	150.29	1.06	0.71	2.94	sand	60-70	32-34	29	UNDEFINED
68	136.86	0.91	0.67	2.97	sand	60-70	32-34	26	UNDEFINED
69	104.63	0.65	0.62	3.00	sand	50-60	30-32	20	UNDEFINED
70	103.46	0.64	0.62	3.03	sand	50-60	30-32	20	UNDEFINED
71	104.27	0.59	0.57	3.05	sand	50-60	30-32	20	UNDEFINED
72	124.45	0.72	0.58	3.08	sand	50-60	32-34	24	UNDEFINED
73	150.91	1.13	0.75	3.11	sand	60-70	32-34	29	UNDEFINED
74	153.64	1.04	0.68	3.14	sand	60-70	32-34	29	UNDEFINED
75	147.76	1.10	0.75	3.17	sand	60-70	32-34	28	UNDEFINED
76	162.35	1.14	0.70	3.20	sand	60-70	32-34	31	UNDEFINED
77	157.85	0.82	0.52	3.22	sand	60-70	32-34	30	UNDEFINED
78	150.99	0.73	0.48	3.25	sand	60-70	32-34	29	UNDEFINED
79	144.44	0.84	0.58	3.28	sand	60-70	32-34	28	UNDEFINED
80	133.88	0.76	0.57	3.31	sand	50-60	32-34	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	128.74	0.69	0.54	3.34	sand	50-60	30-32	25	UNDEFINED
82	133.13	0.69	0.52	3.37	sand	50-60	32-34	26	UNDEFINED
83	153.83	1.03	0.67	3.39	sand	60-70	32-34	29	UNDEFINED
84	212.26	1.02	0.48	3.42	sand	70-80	34-36	41	UNDEFINED
85	233.02	0.92	0.39	3.46	sand	70-80	34-36	45	UNDEFINED
86	176.51	0.79	0.45	3.48	sand	60-70	32-34	34	UNDEFINED
87	163.96	0.66	0.40	3.51	sand	60-70	32-34	31	UNDEFINED
88	173.87	0.65	0.37	3.54	sand	60-70	32-34	33	UNDEFINED
89	177.41	0.93	0.53	3.57	sand	60-70	32-34	34	UNDEFINED
90	161.38	1.07	0.66	3.60	sand	60-70	32-34	31	UNDEFINED
91	128.84	0.91	0.71	3.63	sand	50-60	30-32	25	UNDEFINED
92	139.86	0.97	0.70	3.66	sand	50-60	30-32	27	UNDEFINED
93	162.19	1.09	0.67	3.69	sand	60-70	32-34	31	UNDEFINED
94	187.15	1.27	0.68	3.71	sand	60-70	32-34	36	UNDEFINED
95	179.11	1.20	0.67	3.74	sand	60-70	32-34	34	UNDEFINED
96	172.97	0.92	0.53	3.77	sand	60-70	32-34	33	UNDEFINED
97	171.97	0.85	0.49	3.80	sand	60-70	32-34	33	UNDEFINED
98	171.26	0.84	0.49	3.83	sand	60-70	32-34	33	UNDEFINED
99	190.93	0.99	0.52	3.86	sand	60-70	32-34	37	UNDEFINED
100	263.54	1.27	0.48	3.88	gravelly sand to sand	70-80	34-36	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-6
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:14:97 14:42
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	37.99	0.35	0.93	0.03	silty sand to sandy silt	80-90	>48	12	UNDEFINED
2	143.62	2.06	1.44	0.09	sand to silty sand	>90	>48	34	UNDEFINED
3	48.01	1.56	3.25	0.15	sandy silt to clayey silt	UNDFND	UNDFD	18	3.8
4	74.98	0.68	0.90	0.22	sand to silty sand	80-90	44-46	18	UNDEFINED
5	98.64	0.45	0.46	0.28	sand	80-90	44-46	19	UNDEFINED
6	80.57	0.47	0.59	0.33	sand to silty sand	70-80	42-44	19	UNDEFINED
7	80.77	0.45	0.56	0.39	sand to silty sand	70-80	42-44	19	UNDEFINED
8	151.03	0.87	0.57	0.45	sand	80-90	44-46	29	UNDEFINED
9	194.32	1.33	0.68	0.51	sand	>90	44-46	37	UNDEFINED
10	167.08	1.11	0.66	0.57	sand	80-90	44-46	32	UNDEFINED
11	195.51	1.04	0.53	0.63	sand	>90	44-46	37	UNDEFINED
12	231.20	1.17	0.51	0.69	sand	>90	44-46	44	UNDEFINED
13	112.87	0.85	0.75	0.75	sand	70-80	40-42	22	UNDEFINED
14	135.36	0.80	0.59	0.81	sand	70-80	40-42	26	UNDEFINED
15	127.93	0.54	0.42	0.87	sand	70-80	40-42	25	UNDEFINED
16	100.51	0.49	0.49	0.93	sand	60-70	38-40	19	UNDEFINED
17	91.06	0.43	0.48	0.98	sand to silty sand	60-70	36-38	22	UNDEFINED
18	105.40	0.45	0.42	1.04	sand	60-70	38-40	20	UNDEFINED
19	90.16	0.49	0.54	1.10	sand to silty sand	60-70	36-38	22	UNDEFINED
20	80.38	0.47	0.58	1.16	sand to silty sand	50-60	34-36	19	UNDEFINED
21	133.59	0.88	0.66	1.23	sand	70-80	38-40	26	UNDEFINED
22	112.37	0.88	0.78	1.29	sand to silty sand	60-70	36-38	27	UNDEFINED
23	87.02	0.55	0.63	1.35	sand to silty sand	50-60	34-36	21	UNDEFINED
24	90.60	0.52	0.57	1.41	sand to silty sand	50-60	34-36	22	UNDEFINED
25	105.39	0.73	0.69	1.48	sand to silty sand	60-70	36-38	25	UNDEFINED
26	92.33	0.40	0.44	1.54	sand	50-60	34-36	18	UNDEFINED
27	81.36	0.32	0.39	1.59	sand to silty sand	50-60	32-34	19	UNDEFINED
28	56.70	0.27	0.47	1.65	sand to silty sand	40-50	30-32	14	UNDEFINED
29	51.21	0.29	0.57	1.71	sand to silty sand	<40	30-32	12	UNDEFINED
30	59.49	0.28	0.47	1.77	sand to silty sand	40-50	30-32	14	UNDEFINED
31	63.64	0.32	0.51	1.83	sand to silty sand	40-50	30-32	15	UNDEFINED
32	73.66	0.41	0.56	1.89	sand to silty sand	40-50	32-34	18	UNDEFINED
33	83.80	0.47	0.55	1.95	sand to silty sand	50-60	32-34	20	UNDEFINED
34	90.73	0.34	0.37	1.99	sand	50-60	32-34	17	UNDEFINED
35	63.46	0.14	0.22	2.02	sand to silty sand	40-50	30-32	15	UNDEFINED
36	59.08	0.20	0.34	2.04	sand to silty sand	40-50	<30	14	UNDEFINED
37	45.80	0.80	1.74	2.07	silty sand to sandy silt	<40	<30	15	UNDEFINED
38	32.33	0.96	2.97	2.10	clayey silt to silty clay	UNDFND	UNDFD	15	2.4

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W2-6 Page No. 2

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	49.83	1.50	3.00	2.13	sandy silt to clayey silt	UNDFND	UNDFD	19	3.8
40	61.68	2.13	3.45	2.16	sandy silt to clayey silt	UNDFND	UNDFD	24	4.7
41	70.31	2.20	3.13	2.19	sandy silt to clayey silt	UNDFND	UNDFD	27	5.4
42	44.52	1.90	4.26	2.22	clayey silt to silty clay	UNDFND	UNDFD	21	3.3
43	49.95	2.11	4.23	2.25	clayey silt to silty clay	UNDFND	UNDFD	24	3.7
44	53.57	2.78	5.20	2.28	clay	UNDFND	UNDFD	>50	4.0
45	63.00	2.86	4.54	2.31	silty clay to clay	UNDFND	UNDFD	40	4.8
46	60.57	4.08	6.73	2.34	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
47	64.14	3.15	4.92	2.36	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
48	60.68	3.42	5.64	2.39	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
49	101.19	1.64	1.62	2.42	silty sand to sandy silt	50-60	32-34	32	UNDEFINED
50	81.50	0.73	0.89	2.45	sand to silty sand	40-50	30-32	20	UNDEFINED
51	69.86	0.60	0.86	2.48	sand to silty sand	40-50	<30	17	UNDEFINED
52	62.49	0.45	0.72	2.51	sand to silty sand	40-50	<30	15	UNDEFINED
53	62.80	0.41	0.66	2.53	sand to silty sand	<40	<30	15	UNDEFINED
54	76.10	0.54	0.72	2.56	sand to silty sand	40-50	30-32	18	UNDEFINED
55	78.78	0.61	0.77	2.59	sand to silty sand	40-50	30-32	19	UNDEFINED
56	80.51	0.73	0.91	2.62	sand to silty sand	40-50	30-32	19	UNDEFINED
57	85.65	0.78	0.92	2.65	sand to silty sand	40-50	30-32	21	UNDEFINED
58	89.01	0.73	0.83	2.68	sand to silty sand	40-50	30-32	21	UNDEFINED
59	91.01	0.82	0.90	2.70	sand to silty sand	40-50	30-32	22	UNDEFINED
60	92.13	0.82	0.90	2.73	sand to silty sand	40-50	30-32	22	UNDEFINED
61	94.73	0.93	0.98	2.76	sand to silty sand	50-60	30-32	23	UNDEFINED
62	97.22	0.86	0.89	2.79	sand to silty sand	50-60	30-32	23	UNDEFINED
63	121.70	1.41	1.16	2.82	sand to silty sand	50-60	32-34	29	UNDEFINED
64	115.50	1.31	1.13	2.85	sand to silty sand	50-60	32-34	28	UNDEFINED
65	124.88	1.71	1.37	2.88	sand to silty sand	50-60	32-34	30	UNDEFINED
66	140.48	2.87	2.05	2.91	silty sand to sandy silt	60-70	32-34	45	UNDEFINED
67	148.09	2.78	1.88	2.94	silty sand to sandy silt	60-70	32-34	47	UNDEFINED
68	130.39	2.00	1.53	2.97	sand to silty sand	50-60	32-34	31	UNDEFINED
69	118.67	1.70	1.43	3.00	sand to silty sand	50-60	32-34	28	UNDEFINED
70	110.25	1.20	1.09	3.03	sand to silty sand	50-60	30-32	26	UNDEFINED
71	133.10	1.68	1.26	3.05	sand to silty sand	50-60	32-34	32	UNDEFINED
72	159.24	2.60	1.63	3.08	sand to silty sand	60-70	34-36	38	UNDEFINED
73	159.24	2.36	1.48	3.11	sand to silty sand	60-70	32-34	38	UNDEFINED
74	171.73	3.26	1.90	3.14	sand to silty sand	60-70	34-36	41	UNDEFINED
75	153.76	2.45	1.59	3.17	sand to silty sand	60-70	32-34	37	UNDEFINED
76	147.00	1.47	1.00	3.20	sand	60-70	32-34	28	UNDEFINED
77	159.32	1.41	0.89	3.22	sand	60-70	32-34	31	UNDEFINED
78	157.62	1.62	1.03	3.25	sand	60-70	32-34	30	UNDEFINED
79	176.99	2.02	1.14	3.28	sand	60-70	34-36	34	UNDEFINED
80	186.70	2.02	1.08	3.31	sand	60-70	34-36	36	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	160.33	1.34	0.84	3.34	sand	60-70	32-34	31	UNDEFINED
82	141.96	1.22	0.86	3.37	sand	50-60	32-34	27	UNDEFINED
83	144.57	1.28	0.89	3.39	sand	50-60	32-34	28	UNDEFINED
84	153.45	1.47	0.96	3.42	sand	60-70	32-34	29	UNDEFINED
85	150.04	1.22	0.82	3.46	sand	60-70	32-34	29	UNDEFINED
86	142.60	1.27	0.89	3.48	sand	50-60	32-34	27	UNDEFINED
87	143.78	1.17	0.81	3.51	sand	50-60	32-34	28	UNDEFINED
88	169.81	1.59	0.94	3.54	sand	60-70	32-34	33	UNDEFINED
89	184.84	1.40	0.76	3.57	sand	60-70	34-36	35	UNDEFINED
90	181.74	1.67	0.92	3.60	sand	60-70	32-34	35	UNDEFINED
91	192.07	1.93	1.00	3.63	sand	60-70	34-36	37	UNDEFINED
92	191.55	2.05	1.07	3.66	sand	60-70	34-36	37	UNDEFINED
93	172.88	1.53	0.89	3.69	sand	60-70	32-34	33	UNDEFINED
94	182.64	1.39	0.76	3.71	sand	60-70	32-34	35	UNDEFINED
95	212.43	1.80	0.85	3.74	sand	60-70	34-36	41	UNDEFINED
96	205.06	1.69	0.83	3.77	sand	60-70	34-36	39	UNDEFINED
97	198.30	1.10	0.55	3.80	sand	60-70	34-36	38	UNDEFINED
98	193.77	1.35	0.70	3.83	sand	60-70	32-34	37	UNDEFINED
99	195.26	1.41	0.72	3.86	sand	60-70	32-34	37	UNDEFINED
100	226.31	1.35	0.60	3.88	sand	70-80	34-36	43	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-7
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:14:97 15:57
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	19.78	0.12	0.60	0.03	silty sand to sandy silt	70-80	>48	6	UNDEFINED
2	37.96	0.61	1.60	0.09	silty sand to sandy silt	70-80	46-48	12	UNDEFINED
3	44.94	0.45	1.00	0.15	silty sand to sandy silt	70-80	44-46	14	UNDEFINED
4	98.02	0.52	0.53	0.22	sand	80-90	46-48	19	UNDEFINED
5	74.21	0.36	0.48	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	72.30	0.35	0.49	0.33	sand to silty sand	70-80	42-44	17	UNDEFINED
7	119.09	0.64	0.54	0.39	sand	80-90	44-46	23	UNDEFINED
8	129.53	0.80	0.61	0.45	sand	80-90	44-46	25	UNDEFINED
9	166.84	1.27	0.76	0.51	sand	>90	44-46	32	UNDEFINED
10	171.30	1.29	0.75	0.57	sand	>90	44-46	33	UNDEFINED
11	169.95	1.20	0.71	0.63	sand	80-90	42-44	33	UNDEFINED
12	168.34	1.14	0.68	0.69	sand	80-90	42-44	32	UNDEFINED
13	149.42	1.12	0.75	0.75	sand	80-90	42-44	29	UNDEFINED
14	130.30	0.96	0.73	0.81	sand	70-80	40-42	25	UNDEFINED
15	110.87	0.68	0.61	0.87	sand	70-80	38-40	21	UNDEFINED
16	115.29	0.78	0.68	0.93	sand	70-80	38-40	22	UNDEFINED
17	124.70	0.86	0.69	0.98	sand	70-80	38-40	24	UNDEFINED
18	146.32	0.82	0.56	1.04	sand	70-80	40-42	28	UNDEFINED
19	147.82	0.94	0.64	1.10	sand	70-80	38-40	28	UNDEFINED
20	131.45	0.97	0.74	1.16	sand	70-80	38-40	25	UNDEFINED
1	148.17	0.95	0.64	1.23	sand	70-80	38-40	28	UNDEFINED
22	153.28	1.25	0.82	1.29	sand	70-80	38-40	29	UNDEFINED
23	157.91	1.28	0.81	1.35	sand	70-80	38-40	30	UNDEFINED
24	169.60	1.48	0.87	1.41	sand	70-80	38-40	32	UNDEFINED
25	183.66	1.33	0.72	1.48	sand	70-80	38-40	35	UNDEFINED
26	142.57	0.70	0.49	1.54	sand	70-80	36-38	27	UNDEFINED
27	123.10	0.39	0.32	1.59	sand	60-70	36-38	24	UNDEFINED
28	139.92	0.37	0.27	1.65	sand	60-70	36-38	27	UNDEFINED
29	124.31	0.64	0.52	1.71	sand	60-70	36-38	24	UNDEFINED
30	111.03	0.57	0.52	1.77	sand	60-70	34-36	21	UNDEFINED
31	106.09	0.36	0.34	1.83	sand	50-60	34-36	20	UNDEFINED
32	154.42	1.06	0.69	1.89	sand	60-70	36-38	30	UNDEFINED
33	145.41	1.19	0.82	1.95	sand	60-70	36-38	28	UNDEFINED
34	130.21	0.87	0.67	1.99	sand	60-70	34-36	25	UNDEFINED
35	121.70	0.83	0.69	2.02	sand	60-70	34-36	23	UNDEFINED
36	109.88	0.70	0.64	2.04	sand	50-60	34-36	21	UNDEFINED
37	102.77	0.58	0.57	2.07	sand	50-60	32-34	20	UNDEFINED
38	104.59	0.44	0.42	2.10	sand	50-60	32-34	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	132.54	0.71	0.54	2.13	sand	60-70	34-36	25	UNDEFINED
40	123.16	0.47	0.38	2.16	sand	60-70	34-36	24	UNDEFINED
41	122.09	0.53	0.43	2.19	sand	60-70	34-36	23	UNDEFINED
42	126.36	0.60	0.47	2.22	sand	60-70	34-36	24	UNDEFINED
43	146.78	0.93	0.63	2.25	sand	60-70	34-36	28	UNDEFINED
44	129.32	0.88	0.68	2.28	sand	60-70	34-36	25	UNDEFINED
45	124.65	1.01	0.81	2.31	sand	60-70	34-36	24	UNDEFINED
46	130.53	1.27	0.97	2.34	sand to silty sand	60-70	34-36	31	UNDEFINED
47	118.77	0.87	0.73	2.36	sand	50-60	32-34	23	UNDEFINED
48	130.28	0.51	0.40	2.39	sand	60-70	34-36	25	UNDEFINED
49	142.50	1.11	0.78	2.42	sand	60-70	34-36	27	UNDEFINED
50	118.55	0.96	0.81	2.45	sand	50-60	32-34	23	UNDEFINED
51	97.55	0.66	0.68	2.48	sand to silty sand	50-60	32-34	23	UNDEFINED
52	123.60	0.69	0.55	2.51	sand	50-60	32-34	24	UNDEFINED
53	121.41	0.66	0.54	2.53	sand	50-60	32-34	23	UNDEFINED
54	96.08	0.34	0.35	2.56	sand	50-60	30-32	18	UNDEFINED
55	118.91	0.73	0.61	2.59	sand	50-60	32-34	23	UNDEFINED
56	149.21	1.10	0.74	2.62	sand	60-70	34-36	29	UNDEFINED
57	135.36	0.77	0.57	2.65	sand	60-70	32-34	26	UNDEFINED
58	153.24	0.77	0.50	2.68	sand	60-70	34-36	29	UNDEFINED
59	145.66	2.00	1.38	2.70	sand to silty sand	60-70	34-36	35	UNDEFINED
60	47.48	1.18	2.50	2.73	sandy silt to clayey silt	UNDFND	UNDFD	18	3.5
1	51.28	1.51	2.93	2.76	sandy silt to clayey silt	UNDFND	UNDFD	20	3.8
2	57.11	1.78	3.12	2.79	sandy silt to clayey silt	UNDFND	UNDFD	22	4.2
63	83.88	3.85	4.59	2.82	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
64	136.33	2.49	1.83	2.85	silty sand to sandy silt	60-70	32-34	44	UNDEFINED
65	217.45	3.79	1.74	2.88	sand to silty sand	70-80	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-8
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:19:97 11:09
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	19.29	0.15	0.80	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
2	86.22	1.05	1.21	0.09	sand to silty sand	>90	>48	21	UNDEFINED
3	114.75	2.03	1.77	0.15	silty sand to sandy silt	>90	>48	37	UNDEFINED
4	85.35	0.77	0.90	0.22	sand to silty sand	80-90	44-46	20	UNDEFINED
5	107.60	0.55	0.51	0.28	sand	80-90	44-46	21	UNDEFINED
6	90.96	0.45	0.50	0.33	sand to silty sand	70-80	42-44	22	UNDEFINED
7	84.76	0.44	0.53	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	70.44	0.38	0.54	0.45	sand to silty sand	60-70	40-42	17	UNDEFINED
9	71.15	0.35	0.50	0.51	sand to silty sand	60-70	40-42	17	UNDEFINED
10	81.06	0.41	0.50	0.57	sand to silty sand	60-70	40-42	19	UNDEFINED
11	117.42	0.58	0.50	0.63	sand	70-80	40-42	22	UNDEFINED
12	133.25	0.62	0.47	0.69	sand	80-90	40-42	26	UNDEFINED
13	126.50	0.64	0.50	0.75	sand	70-80	40-42	24	UNDEFINED
14	127.27	0.63	0.49	0.81	sand	70-80	40-42	24	UNDEFINED
15	120.23	0.45	0.37	0.87	sand	70-80	40-42	23	UNDEFINED
16	129.27	0.63	0.48	0.93	sand	70-80	40-42	25	UNDEFINED
17	165.35	0.87	0.53	0.98	sand	80-90	40-42	32	UNDEFINED
18	153.85	0.87	0.57	1.04	sand	70-80	40-42	29	UNDEFINED
19	135.69	0.70	0.51	1.10	sand	70-80	38-40	26	UNDEFINED
20	143.61	0.72	0.50	1.16	sand	70-80	38-40	28	UNDEFINED
21	135.02	0.72	0.53	1.23	sand	70-80	38-40	26	UNDEFINED
22	118.22	0.51	0.43	1.29	sand	60-70	36-38	23	UNDEFINED
23	149.83	1.27	0.85	1.35	sand	70-80	38-40	29	UNDEFINED
24	169.13	2.22	1.31	1.41	sand to silty sand	70-80	38-40	41	UNDEFINED
25	115.97	0.50	0.43	1.48	sand	60-70	36-38	22	UNDEFINED
26	103.74	0.54	0.52	1.54	sand	60-70	34-36	20	UNDEFINED
27	111.14	0.53	0.48	1.59	sand	60-70	34-36	21	UNDEFINED
28	125.22	0.56	0.44	1.65	sand	60-70	36-38	24	UNDEFINED
29	104.98	0.42	0.40	1.71	sand	60-70	34-36	20	UNDEFINED
30	95.07	0.26	0.28	1.77	sand	50-60	34-36	18	UNDEFINED
31	131.20	2.23	1.70	1.83	sand to silty sand	60-70	36-38	31	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-8A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:19:97 11:31
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	2.87	0.17	6.10	0.03	clay	UNDFND	UNDFD	3	.2
2	53.97	1.10	2.03	0.09	silty sand to sandy silt	80-90	46-48	17	UNDEFINED
3	99.33	1.42	1.43	0.15	sand to silty sand	>90	46-48	24	UNDEFINED
4	77.30	0.64	0.82	0.22	sand to silty sand	80-90	44-46	19	UNDEFINED
5	93.89	0.49	0.52	0.28	sand to silty sand	80-90	44-46	22	UNDEFINED
6	89.05	0.48	0.54	0.33	sand to silty sand	70-80	42-44	21	UNDEFINED
7	81.60	0.48	0.58	0.39	sand to silty sand	70-80	42-44	20	UNDEFINED
8	66.56	0.32	0.49	0.45	sand to silty sand	60-70	40-42	16	UNDEFINED
9	40.63	0.22	0.54	0.51	silty sand to sandy silt	50-60	36-38	13	UNDEFINED
10	77.35	0.46	0.60	0.57	sand to silty sand	60-70	40-42	19	UNDEFINED
11	115.23	0.66	0.57	0.63	sand	70-80	40-42	22	UNDEFINED
12	112.48	0.70	0.62	0.69	sand	70-80	40-42	22	UNDEFINED
13	103.59	0.60	0.58	0.75	sand	70-80	40-42	20	UNDEFINED
14	145.19	0.78	0.54	0.81	sand	80-90	40-42	28	UNDEFINED
15	132.36	0.76	0.58	0.87	sand	70-80	40-42	25	UNDEFINED
16	176.49	0.92	0.52	0.93	sand	80-90	40-42	34	UNDEFINED
17	138.10	0.92	0.66	0.98	sand	70-80	40-42	26	UNDEFINED
18	151.13	0.83	0.55	1.04	sand	70-80	40-42	29	UNDEFINED
19	178.52	1.05	0.59	1.10	sand	80-90	40-42	34	UNDEFINED
20	185.29	1.25	0.67	1.16	sand	80-90	40-42	35	UNDEFINED
1	185.08	1.11	0.60	1.23	sand	80-90	40-42	35	UNDEFINED
2	164.97	0.85	0.52	1.29	sand	70-80	38-40	32	UNDEFINED
23	153.35	0.91	0.59	1.35	sand	70-80	38-40	29	UNDEFINED
24	149.82	1.06	0.71	1.41	sand	70-80	38-40	29	UNDEFINED
25	160.77	0.87	0.54	1.48	sand	70-80	38-40	31	UNDEFINED
26	129.65	0.75	0.58	1.54	sand	60-70	36-38	25	UNDEFINED
27	101.29	0.50	0.50	1.59	sand	60-70	34-36	19	UNDEFINED
28	103.42	0.51	0.49	1.65	sand	60-70	34-36	20	UNDEFINED
29	138.09	0.51	0.37	1.71	sand	60-70	36-38	26	UNDEFINED
30	111.12	1.28	1.15	1.77	sand to silty sand	60-70	34-36	27	UNDEFINED
31	98.67	0.57	0.58	1.83	sand	50-60	34-36	19	UNDEFINED
32	109.43	0.57	0.52	1.89	sand	60-70	34-36	21	UNDEFINED
33	113.15	0.49	0.43	1.95	sand	60-70	34-36	22	UNDEFINED
34	117.95	0.51	0.44	1.99	sand	60-70	34-36	23	UNDEFINED
35	124.99	0.26	0.20	2.02	sand	60-70	34-36	24	UNDEFINED
36	125.54	0.55	0.44	2.04	sand	60-70	34-36	24	UNDEFINED
37	217.13	3.20	1.47	2.07	sand to silty sand	70-80	38-40	>50	UNDEFINED
38	263.72	3.12	1.18	2.10	sand	80-90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	164.49	5.01	3.04	2.13	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
40	104.64	6.83	6.52	2.16	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
41	123.55	5.38	4.36	2.19	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
42	113.11	6.65	5.88	2.22	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
43	142.35	6.58	4.63	2.25	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
44	180.18	4.27	2.37	2.28	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
45	123.51	1.32	1.07	2.31	sand to silty sand	60-70	34-36	30	UNDEFINED
46	120.52	1.27	1.05	2.34	sand to silty sand	50-60	32-34	29	UNDEFINED
47	131.93	1.18	0.90	2.36	sand	60-70	34-36	25	UNDEFINED
48	99.37	0.80	0.80	2.39	sand to silty sand	50-60	32-34	24	UNDEFINED
49	97.46	0.88	0.90	2.42	sand to silty sand	50-60	32-34	23	UNDEFINED
50	99.51	0.80	0.80	2.45	sand to silty sand	50-60	32-34	24	UNDEFINED
51	88.31	0.61	0.69	2.48	sand to silty sand	50-60	30-32	21	UNDEFINED
52	86.70	0.66	0.77	2.51	sand to silty sand	40-50	30-32	21	UNDEFINED
53	82.70	0.60	0.73	2.53	sand to silty sand	40-50	30-32	20	UNDEFINED
54	84.01	0.59	0.70	2.56	sand to silty sand	40-50	30-32	20	UNDEFINED
55	89.79	0.66	0.73	2.59	sand to silty sand	40-50	30-32	22	UNDEFINED
56	108.18	0.92	0.85	2.62	sand to silty sand	50-60	32-34	26	UNDEFINED
57	135.68	1.26	0.93	2.65	sand	60-70	32-34	26	UNDEFINED
58	128.22	1.16	0.90	2.68	sand	50-60	32-34	25	UNDEFINED
59	131.83	1.21	0.92	2.70	sand	60-70	32-34	25	UNDEFINED
60	140.15	1.49	1.07	2.73	sand to silty sand	60-70	32-34	34	UNDEFINED
1	157.66	1.85	1.17	2.76	sand to silty sand	60-70	34-36	38	UNDEFINED
62	160.28	1.93	1.20	2.79	sand to silty sand	60-70	34-36	38	UNDEFINED
63	146.47	1.52	1.04	2.82	sand to silty sand	60-70	34-36	35	UNDEFINED
64	138.98	1.17	0.84	2.85	sand	60-70	32-34	27	UNDEFINED
65	141.99	1.16	0.82	2.88	sand	60-70	32-34	27	UNDEFINED
66	156.07	1.57	1.01	2.91	sand	60-70	34-36	30	UNDEFINED
67	158.02	2.13	1.35	2.94	sand to silty sand	60-70	34-36	38	UNDEFINED
68	148.19	1.42	0.96	2.97	sand	60-70	32-34	28	UNDEFINED
69	136.51	1.24	0.91	3.00	sand	50-60	32-34	26	UNDEFINED
70	129.40	1.09	0.84	3.03	sand	50-60	32-34	25	UNDEFINED
71	129.14	1.08	0.84	3.05	sand	50-60	32-34	25	UNDEFINED
72	131.16	1.18	0.90	3.08	sand	50-60	32-34	25	UNDEFINED
73	135.32	1.25	0.92	3.11	sand	50-60	32-34	26	UNDEFINED
74	139.06	1.35	0.97	3.14	sand	50-60	32-34	27	UNDEFINED
75	134.87	1.24	0.92	3.17	sand	50-60	32-34	26	UNDEFINED
76	125.64	1.21	0.97	3.20	sand to silty sand	50-60	32-34	30	UNDEFINED
77	122.99	1.21	0.99	3.22	sand to silty sand	50-60	30-32	29	UNDEFINED
78	132.63	1.36	1.02	3.25	sand to silty sand	50-60	32-34	32	UNDEFINED
79	143.59	1.50	1.05	3.28	sand to silty sand	60-70	32-34	34	UNDEFINED
80	134.68	1.16	0.86	3.31	sand	50-60	32-34	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	142.78	1.59	1.11	3.34	sand to silty sand	50-60	32-34	34	UNDEFINED
82	154.25	1.20	0.78	3.37	sand	60-70	32-34	30	UNDEFINED
83	158.26	1.00	0.63	3.39	sand	60-70	32-34	30	UNDEFINED
84	154.74	1.20	0.77	3.42	sand	60-70	32-34	30	UNDEFINED
85	172.05	1.64	0.95	3.46	sand	60-70	32-34	33	UNDEFINED
86	144.51	1.05	0.73	3.48	sand	50-60	32-34	28	UNDEFINED
87	133.84	1.08	0.80	3.51	sand	50-60	30-32	26	UNDEFINED
88	136.69	1.59	1.17	3.54	sand to silty sand	50-60	30-32	33	UNDEFINED
89	152.92	0.96	0.63	3.57	sand	60-70	32-34	29	UNDEFINED
90	142.82	0.98	0.68	3.60	sand	50-60	32-34	27	UNDEFINED
91	144.70	1.07	0.74	3.63	sand	50-60	32-34	28	UNDEFINED
92	174.78	1.35	0.77	3.66	sand	60-70	32-34	33	UNDEFINED
93	170.36	1.37	0.80	3.69	sand	60-70	32-34	33	UNDEFINED
94	170.29	1.36	0.80	3.71	sand	60-70	32-34	33	UNDEFINED
95	164.48	1.25	0.76	3.74	sand	60-70	32-34	32	UNDEFINED
96	149.52	1.11	0.74	3.77	sand	50-60	32-34	29	UNDEFINED
97	170.44	1.06	0.62	3.80	sand	60-70	32-34	33	UNDEFINED
98	178.33	1.51	0.85	3.83	sand	60-70	32-34	34	UNDEFINED
99	136.28	0.71	0.52	3.86	sand	50-60	30-32	26	UNDEFINED
100	114.51	0.49	0.43	3.88	sand	50-60	30-32	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-9A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 13:15
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	37.90	0.76	2.00	0.03	sandy silt to clayey silt	UNDFND	UNDFD	15	3.0
2	26.25	0.53	2.03	0.09	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
3	39.99	0.24	0.61	0.15	silty sand to sandy silt	60-70	42-44	13	UNDEFINED
4	95.22	0.29	0.30	0.22	sand	80-90	46-48	18	UNDEFINED
5	73.58	0.22	0.30	0.28	sand to silty sand	70-80	42-44	18	UNDEFINED
6	98.49	0.32	0.32	0.33	sand	80-90	44-46	19	UNDEFINED
7	100.54	0.45	0.45	0.39	sand	80-90	42-44	19	UNDEFINED
8	76.66	0.31	0.41	0.45	sand to silty sand	70-80	40-42	18	UNDEFINED
9	69.72	0.17	0.24	0.51	sand to silty sand	60-70	40-42	17	UNDEFINED
10	82.36	0.23	0.28	0.57	sand	60-70	40-42	16	UNDEFINED
11	76.45	0.33	0.43	0.63	sand to silty sand	60-70	38-40	18	UNDEFINED
12	122.19	0.54	0.44	0.69	sand	70-80	40-42	23	UNDEFINED
13	125.37	0.49	0.39	0.75	sand	70-80	40-42	24	UNDEFINED
14	100.06	0.62	0.62	0.81	sand to silty sand	60-70	38-40	24	UNDEFINED
15	78.51	0.19	0.24	0.87	sand to silty sand	60-70	36-38	19	UNDEFINED
16	124.88	1.07	0.86	0.93	sand	70-80	38-40	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-9B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 13:29
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	36.93	0.37	1.02	0.03	silty sand to sandy silt	80-90	>48	12	UNDEFINED
2	36.07	0.65	1.81	0.09	sandy silt to clayey silt	UNDFND	UNDFD	14	2.8
3	44.47	0.23	0.51	0.15	sand to silty sand	70-80	44-46	11	UNDEFINED
4	93.16	0.24	0.26	0.22	sand	80-90	46-48	18	UNDEFINED
5	79.88	0.23	0.29	0.28	sand to silty sand	70-80	44-46	19	UNDEFINED
6	87.72	0.30	0.34	0.33	sand	70-80	42-44	17	UNDEFINED
7	73.05	0.26	0.35	0.39	sand to silty sand	70-80	40-42	17	UNDEFINED
8	69.60	0.21	0.31	0.45	sand to silty sand	60-70	40-42	17	UNDEFINED
9	125.68	0.53	0.42	0.51	sand	80-90	42-44	24	UNDEFINED
10	143.50	0.53	0.37	0.57	sand	80-90	42-44	27	UNDEFINED
11	131.06	0.47	0.36	0.63	sand	80-90	42-44	25	UNDEFINED
12	173.69	0.64	0.37	0.69	sand	80-90	42-44	33	UNDEFINED
13	142.12	0.44	0.31	0.75	sand	80-90	40-42	27	UNDEFINED
14	114.22	0.39	0.34	0.81	sand	70-80	40-42	22	UNDEFINED
15	96.71	0.24	0.25	0.87	sand	60-70	38-40	19	UNDEFINED
16	137.80	0.81	0.59	0.93	sand	70-80	40-42	26	UNDEFINED
17	117.78	0.69	0.58	0.98	sand	70-80	38-40	23	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-9C
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:19:97 09:41
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	46.44	0.55	1.18	0.03	silty sand to sandy silt	>90	>48	15	UNDEFINED
2	37.44	1.46	3.90	0.09	clayey silt to silty clay	UNDFND	UNDFD	18	2.9
3	58.95	0.40	0.68	0.15	sand to silty sand	70-80	44-46	14	UNDEFINED
4	97.36	0.53	0.55	0.22	sand	80-90	46-48	19	UNDEFINED
5	94.25	0.49	0.52	0.28	sand to silty sand	80-90	44-46	23	UNDEFINED
6	83.58	0.40	0.48	0.33	sand to silty sand	70-80	42-44	20	UNDEFINED
7	91.67	0.44	0.48	0.39	sand to silty sand	70-80	42-44	22	UNDEFINED
8	84.42	0.41	0.48	0.45	sand to silty sand	70-80	40-42	20	UNDEFINED
9	71.89	0.33	0.45	0.51	sand to silty sand	60-70	40-42	17	UNDEFINED
10	98.33	0.56	0.57	0.57	sand	70-80	40-42	19	UNDEFINED
11	144.15	0.71	0.49	0.63	sand	80-90	42-44	28	UNDEFINED
12	218.16	1.15	0.53	0.69	sand	>90	44-46	42	UNDEFINED
13	193.01	1.07	0.55	0.75	sand	80-90	42-44	37	UNDEFINED
14	123.00	0.72	0.58	0.81	sand	70-80	40-42	24	UNDEFINED
15	98.55	0.48	0.49	0.87	sand	60-70	38-40	19	UNDEFINED
16	109.39	0.57	0.52	0.93	sand	70-80	38-40	21	UNDEFINED
17	125.22	0.87	0.69	0.98	sand	70-80	38-40	24	UNDEFINED
18	139.22	1.14	0.82	1.04	sand	70-80	38-40	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-10
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:19:97 09:59
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	6.68	0.11	1.67	0.03	clayey silt to silty clay	UNDFND	UNDFD	3	.5
2	24.54	0.21	0.88	0.09	silty sand to sandy silt	60-70	42-44	8	UNDEFINED
3	40.26	0.19	0.46	0.15	sand to silty sand	60-70	42-44	10	UNDEFINED
4	81.52	0.37	0.46	0.22	sand to silty sand	80-90	44-46	20	UNDEFINED
5	82.92	0.44	0.53	0.28	sand to silty sand	70-80	44-46	20	UNDEFINED
6	74.69	0.30	0.40	0.33	sand to silty sand	70-80	42-44	18	UNDEFINED
7	71.43	0.39	0.55	0.39	sand to silty sand	70-80	40-42	17	UNDEFINED
8	70.80	0.39	0.55	0.45	sand to silty sand	60-70	40-42	17	UNDEFINED
9	109.99	0.48	0.43	0.51	sand	70-80	42-44	21	UNDEFINED
10	109.95	0.73	0.66	0.57	sand	70-80	40-42	21	UNDEFINED
11	127.48	0.95	0.75	0.63	sand	80-90	42-44	24	UNDEFINED
12	205.08	1.39	0.68	0.69	sand	>90	44-46	39	UNDEFINED
13	316.22	5.25	1.66	0.75	sand to silty sand	>90	44-46	>50	UNDEFINED
14	235.61	4.01	1.70	0.81	sand to silty sand	>90	44-46	>50	UNDEFINED
15	139.93	4.92	3.52	0.87	sandy silt to clayey silt	UNDFND	UNDFD	>50	11.1
16	101.15	2.31	2.28	0.93	silty sand to sandy silt	60-70	38-40	32	UNDEFINED
17	125.65	2.21	1.76	0.98	silty sand to sandy silt	70-80	38-40	40	UNDEFINED
18	126.17	0.73	0.58	1.04	sand	70-80	38-40	24	UNDEFINED
19	120.32	0.83	0.69	1.10	sand	70-80	38-40	23	UNDEFINED
20	135.47	1.31	0.97	1.16	sand to silty sand	70-80	38-40	32	UNDEFINED
1	131.07	1.56	1.19	1.23	sand to silty sand	70-80	38-40	31	UNDEFINED
2	117.71	1.10	0.93	1.29	sand to silty sand	60-70	36-38	28	UNDEFINED
23	125.40	1.17	0.93	1.35	sand to silty sand	60-70	36-38	30	UNDEFINED
24	137.00	1.26	0.92	1.41	sand	70-80	38-40	26	UNDEFINED
25	119.32	0.98	0.82	1.48	sand	60-70	36-38	23	UNDEFINED
26	112.71	0.89	0.79	1.54	sand to silty sand	60-70	36-38	27	UNDEFINED
27	108.03	0.85	0.79	1.59	sand to silty sand	60-70	34-36	26	UNDEFINED
28	100.70	0.70	0.70	1.65	sand to silty sand	50-60	34-36	24	UNDEFINED
29	109.19	0.72	0.65	1.71	sand	60-70	34-36	21	UNDEFINED
30	115.36	0.85	0.73	1.77	sand	60-70	34-36	22	UNDEFINED
31	113.18	0.72	0.63	1.83	sand	60-70	34-36	22	UNDEFINED
32	123.47	0.71	0.58	1.89	sand	60-70	34-36	24	UNDEFINED
33	121.01	0.95	0.78	1.95	sand	60-70	34-36	23	UNDEFINED
34	108.37	0.76	0.70	1.99	sand	50-60	34-36	21	UNDEFINED
35	114.56	0.82	0.71	2.02	sand	60-70	34-36	22	UNDEFINED
36	113.82	0.88	0.77	2.04	sand to silty sand	60-70	34-36	27	UNDEFINED
37	128.77	1.20	0.93	2.07	sand to silty sand	60-70	34-36	31	UNDEFINED
38	141.26	1.70	1.20	2.10	sand to silty sand	60-70	34-36	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	126.26	1.56	1.23	2.13	sand to silty sand	60-70	34-36	30	UNDEFINED
40	114.09	1.07	0.93	2.16	sand to silty sand	50-60	34-36	27	UNDEFINED
41	120.88	1.08	0.89	2.19	sand to silty sand	60-70	34-36	29	UNDEFINED
42	137.71	1.26	0.91	2.22	sand	60-70	34-36	26	UNDEFINED
43	130.34	1.02	0.78	2.25	sand	60-70	34-36	25	UNDEFINED
44	119.54	0.87	0.73	2.28	sand	50-60	34-36	23	UNDEFINED
45	118.75	0.73	0.62	2.31	sand	50-60	32-34	23	UNDEFINED
46	128.70	0.81	0.63	2.34	sand	60-70	34-36	25	UNDEFINED
47	144.79	1.12	0.77	2.36	sand	60-70	34-36	28	UNDEFINED
48	173.26	1.77	1.02	2.39	sand	60-70	36-38	33	UNDEFINED
49	186.71	2.00	1.07	2.42	sand	70-80	36-38	36	UNDEFINED
50	166.13	1.35	0.81	2.45	sand	60-70	34-36	32	UNDEFINED
51	140.15	0.89	0.63	2.48	sand	60-70	34-36	27	UNDEFINED
52	124.82	0.84	0.67	2.51	sand	50-60	32-34	24	UNDEFINED
53	134.40	0.94	0.70	2.53	sand	60-70	34-36	26	UNDEFINED
54	154.61	1.29	0.84	2.56	sand	60-70	34-36	30	UNDEFINED
55	160.46	1.83	1.14	2.59	sand to silty sand	60-70	34-36	38	UNDEFINED
56	159.69	2.05	1.28	2.62	sand to silty sand	60-70	34-36	38	UNDEFINED
57	165.65	1.63	0.98	2.65	sand	60-70	34-36	32	UNDEFINED
58	150.01	1.03	0.68	2.68	sand	60-70	34-36	29	UNDEFINED
59	138.90	0.83	0.60	2.70	sand	60-70	32-34	27	UNDEFINED
60	128.22	0.61	0.48	2.73	sand	50-60	32-34	25	UNDEFINED
[illegible]	115.90	0.51	0.44	2.76	sand	50-60	32-34	22	UNDEFINED
62	102.98	0.72	0.70	2.79	sand to silty sand	50-60	30-32	25	UNDEFINED
63	156.91	1.26	0.80	2.82	sand	60-70	34-36	30	UNDEFINED
64	152.53	1.21	0.79	2.85	sand	60-70	34-36	29	UNDEFINED
65	135.45	0.96	0.71	2.88	sand	60-70	32-34	26	UNDEFINED
66	127.46	0.71	0.56	2.91	sand	50-60	32-34	24	UNDEFINED
67	130.19	0.70	0.54	2.94	sand	50-60	32-34	25	UNDEFINED
68	129.47	0.77	0.59	2.97	sand	50-60	32-34	25	UNDEFINED
69	129.38	0.78	0.61	3.00	sand	50-60	32-34	25	UNDEFINED
70	159.54	1.06	0.66	3.03	sand	60-70	34-36	31	UNDEFINED
71	150.51	0.76	0.50	3.05	sand	60-70	32-34	29	UNDEFINED
72	167.23	0.99	0.59	3.08	sand	60-70	34-36	32	UNDEFINED
73	167.57	0.84	0.50	3.11	sand	60-70	34-36	32	UNDEFINED
74	188.14	1.28	0.68	3.14	sand	60-70	34-36	36	UNDEFINED
75	228.87	1.83	0.80	3.17	sand	70-80	36-38	44	UNDEFINED
76	193.38	1.64	0.85	3.20	sand	60-70	34-36	37	UNDEFINED
77	157.07	0.74	0.47	3.22	sand	60-70	32-34	30	UNDEFINED
78	172.36	1.64	0.95	3.25	sand	60-70	34-36	33	UNDEFINED
79	154.54	1.17	0.76	3.28	sand	60-70	32-34	30	UNDEFINED
80	154.57	0.68	0.44	3.31	sand	60-70	32-34	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*' Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	131.19	0.52	0.40	3.34	sand	50-60	32-34	25	UNDEFINED
82	146.46	0.77	0.53	3.37	sand	60-70	32-34	28	UNDEFINED
83	212.86	1.50	0.71	3.39	sand	70-80	34-36	41	UNDEFINED
84	171.05	1.01	0.59	3.42	sand	60-70	32-34	33	UNDEFINED
85	178.01	1.05	0.59	3.46	sand	60-70	32-34	34	UNDEFINED
86	203.40	1.32	0.65	3.48	sand	60-70	34-36	39	UNDEFINED
87	171.20	1.11	0.65	3.51	sand	60-70	32-34	33	UNDEFINED
88	165.93	1.00	0.60	3.54	sand	60-70	32-34	32	UNDEFINED
89	149.88	0.91	0.61	3.57	sand	60-70	32-34	29	UNDEFINED
90	177.14	1.09	0.61	3.60	sand	60-70	32-34	34	UNDEFINED
91	189.77	1.19	0.63	3.63	sand	60-70	34-36	36	UNDEFINED
92	202.50	2.37	1.17	3.66	sand	60-70	34-36	39	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-11
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:19:97 15:20
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	22.50	0.02	0.08	0.03	silty sand to sandy silt	70-80	>48	7	UNDEFINED
2	56.80	0.23	0.40	0.09	sand to silty sand	80-90	46-48	14	UNDEFINED
3	42.42	0.72	1.70	0.15	silty sand to sandy silt	60-70	42-44	14	UNDEFINED
4	122.79	0.61	0.50	0.22	sand	>90	46-48	24	UNDEFINED
5	133.23	0.55	0.41	0.28	sand	>90	46-48	26	UNDEFINED
6	96.46	0.35	0.36	0.33	sand	80-90	44-46	18	UNDEFINED
7	68.72	0.21	0.31	0.39	sand to silty sand	60-70	40-42	16	UNDEFINED
8	96.76	0.28	0.28	0.45	sand	70-80	42-44	19	UNDEFINED
9	42.67	0.02	0.06	0.51	sand to silty sand	50-60	36-38	10	UNDEFINED
10	98.75	0.37	0.38	0.57	sand	70-80	40-42	19	UNDEFINED
11	116.78	0.55	0.47	0.63	sand	70-80	40-42	22	UNDEFINED
12	79.23	0.24	0.30	0.69	sand to silty sand	60-70	38-40	19	UNDEFINED
13	89.53	0.37	0.42	0.75	sand	60-70	38-40	17	UNDEFINED
14	186.21	0.99	0.53	0.81	sand	80-90	42-44	36	UNDEFINED
15	201.40	1.24	0.61	0.87	sand	80-90	42-44	39	UNDEFINED
16	189.73	1.15	0.61	0.93	sand	80-90	42-44	36	UNDEFINED
17	191.06	1.26	0.66	0.98	sand	80-90	42-44	37	UNDEFINED
18	114.47	0.65	0.57	1.04	sand	60-70	38-40	22	UNDEFINED
19	105.57	0.48	0.46	1.10	sand	60-70	36-38	20	UNDEFINED
20	108.97	0.50	0.46	1.16	sand	60-70	36-38	21	UNDEFINED
21	108.00	0.52	0.48	1.23	sand	60-70	36-38	21	UNDEFINED
22	121.69	0.52	0.42	1.29	sand	60-70	36-38	23	UNDEFINED
23	108.03	0.55	0.51	1.35	sand	60-70	36-38	21	UNDEFINED
24	94.63	0.55	0.58	1.41	sand to silty sand	60-70	34-36	23	UNDEFINED
25	123.22	0.65	0.53	1.48	sand	60-70	36-38	24	UNDEFINED
26	138.68	0.97	0.70	1.54	sand	60-70	36-38	27	UNDEFINED
27	130.87	0.85	0.65	1.59	sand	60-70	36-38	25	UNDEFINED
28	98.79	0.37	0.37	1.65	sand	50-60	34-36	19	UNDEFINED
29	99.93	0.30	0.30	1.71	sand	50-60	34-36	19	UNDEFINED
30	88.36	0.34	0.39	1.77	sand	50-60	32-34	17	UNDEFINED
31	68.00	0.15	0.22	1.83	sand to silty sand	40-50	30-32	16	UNDEFINED
32	80.30	0.28	0.35	1.89	sand to silty sand	50-60	32-34	19	UNDEFINED
33	133.18	0.44	0.33	1.95	sand	60-70	34-36	26	UNDEFINED
34	125.61	0.81	0.65	1.99	sand	60-70	34-36	24	UNDEFINED
35	90.86	0.43	0.47	2.02	sand to silty sand	50-60	32-34	22	UNDEFINED
36	88.47	0.37	0.42	2.04	sand	50-60	32-34	17	UNDEFINED
37	110.49	0.70	0.63	2.07	sand	50-60	34-36	21	UNDEFINED
38	68.39	1.28	1.88	2.10	silty sand to sandy silt	40-50	30-32	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	78.39	2.26	2.89	2.13	sandy silt to clayey silt	UNDFND	UNDFD	30	6.0
40	124.81	5.69	4.56	2.16	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
41	162.32	7.08	4.36	2.19	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
42	164.95	6.15	3.73	2.22	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
43	165.98	6.00	3.62	2.25	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
44	175.90	8.04	4.57	2.28	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
45	308.69	4.58	1.48	2.31	sand	80-90	38-40	>50	UNDEFINED
46	233.04	7.86	3.37	2.34	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
47	383.95	5.36	1.40	2.36	sand	>90	40-42	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-12
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:19:97 13:46
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	29.08	0.51	1.75	0.03	sandy silt to clayey silt	UNDFND	UNDFD	11	2.3
2	69.10	1.18	1.71	0.09	silty sand to sandy silt	>90	>48	22	UNDEFINED
3	107.32	0.69	0.64	0.15	sand	>90	>48	21	UNDEFINED
4	101.90	0.54	0.53	0.22	sand	80-90	46-48	20	UNDEFINED
5	105.96	0.57	0.54	0.28	sand	80-90	44-46	20	UNDEFINED
6	134.64	0.80	0.59	0.33	sand	>90	44-46	26	UNDEFINED
7	162.48	0.88	0.54	0.39	sand	>90	44-46	31	UNDEFINED
8	193.03	1.08	0.56	0.45	sand	>90	44-46	37	UNDEFINED
9	188.65	1.26	0.67	0.51	sand	>90	44-46	36	UNDEFINED
10	163.48	1.02	0.62	0.57	sand	80-90	44-46	31	UNDEFINED
11	124.28	0.73	0.59	0.63	sand	70-80	42-44	24	UNDEFINED
12	166.92	0.92	0.55	0.69	sand	80-90	42-44	32	UNDEFINED
13	188.76	1.25	0.66	0.75	sand	80-90	42-44	36	UNDEFINED
14	151.53	0.94	0.62	0.81	sand	80-90	40-42	29	UNDEFINED
15	165.67	1.00	0.60	0.87	sand	80-90	40-42	32	UNDEFINED
16	128.41	0.75	0.58	0.93	sand	70-80	40-42	25	UNDEFINED
17	122.76	0.63	0.51	0.98	sand	70-80	38-40	24	UNDEFINED
18	122.95	0.60	0.49	1.04	sand	70-80	38-40	24	UNDEFINED
19	132.54	0.77	0.58	1.10	sand	70-80	38-40	25	UNDEFINED
20	110.42	0.74	0.67	1.16	sand	60-70	36-38	21	UNDEFINED
21	131.61	0.71	0.54	1.23	sand	70-80	38-40	25	UNDEFINED
22	126.70	0.83	0.66	1.29	sand	60-70	38-40	24	UNDEFINED
23	110.00	0.83	0.75	1.35	sand to silty sand	60-70	36-38	26	UNDEFINED
24	145.95	1.04	0.71	1.41	sand	70-80	38-40	28	UNDEFINED
25	152.18	1.00	0.66	1.48	sand	70-80	38-40	29	UNDEFINED
26	145.83	0.90	0.62	1.54	sand	70-80	36-38	28	UNDEFINED
27	168.53	1.30	0.77	1.59	sand	70-80	38-40	32	UNDEFINED
28	106.14	0.55	0.52	1.65	sand	60-70	34-36	20	UNDEFINED
29	114.68	0.56	0.49	1.71	sand	60-70	34-36	22	UNDEFINED
30	98.74	0.51	0.52	1.77	sand	50-60	34-36	19	UNDEFINED
31	105.98	0.49	0.46	1.83	sand	50-60	34-36	20	UNDEFINED
32	97.83	0.56	0.57	1.89	sand to silty sand	50-60	34-36	23	UNDEFINED
33	85.57	0.36	0.42	1.95	sand to silty sand	50-60	32-34	20	UNDEFINED
34	113.95	0.28	0.24	1.99	sand	60-70	34-36	22	UNDEFINED
35	110.44	0.41	0.37	2.02	sand	50-60	34-36	21	UNDEFINED
36	122.57	1.09	0.89	2.04	sand to silty sand	60-70	34-36	29	UNDEFINED
37	149.69	0.86	0.58	2.07	sand	60-70	36-38	29	UNDEFINED
38	119.76	0.36	0.30	2.10	sand	60-70	34-36	23	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	123.62	0.65	0.53	2.13	sand	60-70	34-36	24	UNDEFINED
40	108.10	0.57	0.53	2.16	sand	50-60	32-34	21	UNDEFINED
41	174.72	0.92	0.53	2.19	sand	70-80	36-38	33	UNDEFINED
42	152.78	0.94	0.62	2.22	sand	60-70	34-36	29	UNDEFINED
43	91.81	1.14	1.24	2.25	sand to silty sand	50-60	32-34	22	UNDEFINED
44	63.84	2.02	3.16	2.28	sandy silt to clayey silt	UNDFND	UNDFD	24	4.8
45	110.47	2.61	2.36	2.31	silty sand to sandy silt	50-60	32-34	35	UNDEFINED
46	141.27	4.71	3.33	2.34	sandy silt to clayey silt	UNDFND	UNDFD	>50	11.0
47	195.34	5.20	2.66	2.36	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
48	222.60	4.13	1.86	2.39	sand to silty sand	70-80	36-38	>50	UNDEFINED
49	215.29	3.58	1.66	2.42	sand to silty sand	70-80	36-38	>50	UNDEFINED
50	208.03	4.37	2.10	2.45	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
51	244.72	7.16	2.92	2.48	silty sand to sandy silt	70-80	38-40	>50	UNDEFINED
52	249.51	7.48	3.00	2.51	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
53	180.10	7.77	4.31	2.53	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
54	217.99	6.98	3.20	2.56	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
55	154.80	1.74	1.12	2.59	sand to silty sand	60-70	34-36	37	UNDEFINED
56	117.13	0.86	0.74	2.62	sand	50-60	32-34	22	UNDEFINED
57	115.03	0.58	0.50	2.65	sand	50-60	32-34	22	UNDEFINED
58	123.48	0.55	0.45	2.68	sand	50-60	32-34	24	UNDEFINED
59	144.01	0.94	0.65	2.70	sand	60-70	34-36	28	UNDEFINED
60	124.14	0.81	0.65	2.73	sand	50-60	32-34	24	UNDEFINED
61	112.91	0.88	0.77	2.76	sand to silty sand	50-60	32-34	27	UNDEFINED
62	87.87	0.61	0.69	2.79	sand to silty sand	40-50	30-32	21	UNDEFINED
63	106.20	0.59	0.55	2.82	sand	50-60	30-32	20	UNDEFINED
64	124.11	0.78	0.62	2.85	sand	50-60	32-34	24	UNDEFINED
65	119.11	0.76	0.64	2.88	sand	50-60	32-34	23	UNDEFINED
66	112.30	0.71	0.64	2.91	sand	50-60	30-32	22	UNDEFINED
67	109.63	0.70	0.64	2.94	sand	50-60	30-32	21	UNDEFINED
68	112.22	0.71	0.63	2.97	sand	50-60	30-32	21	UNDEFINED
69	113.37	0.76	0.67	3.00	sand	50-60	30-32	22	UNDEFINED
70	130.20	0.92	0.71	3.03	sand	50-60	32-34	25	UNDEFINED
71	121.39	0.86	0.70	3.05	sand	50-60	32-34	23	UNDEFINED
72	129.38	0.78	0.60	3.08	sand	50-60	32-34	25	UNDEFINED
73	124.96	0.65	0.52	3.11	sand	50-60	32-34	24	UNDEFINED
74	126.57	0.53	0.42	3.14	sand	50-60	32-34	24	UNDEFINED
75	164.61	1.56	0.95	3.17	sand	60-70	34-36	32	UNDEFINED
76	194.66	1.25	0.64	3.20	sand	60-70	34-36	37	UNDEFINED
77	184.62	1.95	1.06	3.22	sand	60-70	34-36	35	UNDEFINED
78	158.60	1.11	0.70	3.25	sand	60-70	32-34	30	UNDEFINED
79	138.83	0.74	0.53	3.28	sand	50-60	32-34	27	UNDEFINED
80	147.92	0.75	0.50	3.31	sand	60-70	32-34	28	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	142.35	0.87	0.61	3.34	sand	50-60	32-34	27	UNDEFINED
82	157.57	1.03	0.65	3.37	sand	60-70	32-34	30	UNDEFINED
83	164.66	0.84	0.51	3.39	sand	60-70	32-34	32	UNDEFINED
84	155.90	0.85	0.54	3.42	sand	60-70	32-34	30	UNDEFINED
85	163.52	1.18	0.72	3.46	sand	60-70	32-34	31	UNDEFINED
86	169.89	1.57	0.92	3.48	sand	60-70	32-34	33	UNDEFINED
87	160.87	1.03	0.64	3.51	sand	60-70	32-34	31	UNDEFINED
88	162.50	1.01	0.62	3.54	sand	60-70	32-34	31	UNDEFINED
89	176.23	1.26	0.71	3.57	sand	60-70	32-34	34	UNDEFINED
90	168.27	0.99	0.59	3.60	sand	60-70	32-34	32	UNDEFINED
91	170.42	1.13	0.66	3.63	sand	60-70	32-34	33	UNDEFINED
92	170.50	1.36	0.80	3.66	sand	60-70	32-34	33	UNDEFINED
93	163.40	1.20	0.73	3.69	sand	60-70	32-34	31	UNDEFINED
94	159.33	1.12	0.70	3.71	sand	60-70	32-34	31	UNDEFINED
95	144.01	0.89	0.62	3.74	sand	50-60	30-32	28	UNDEFINED
96	141.60	0.67	0.47	3.77	sand	50-60	30-32	27	UNDEFINED
97	144.04	0.87	0.61	3.80	sand	50-60	30-32	28	UNDEFINED
98	139.11	1.02	0.73	3.83	sand	50-60	30-32	27	UNDEFINED
99	131.23	0.72	0.55	3.86	sand	50-60	30-32	25	UNDEFINED
100	125.97	0.70	0.55	3.88	sand	50-60	30-32	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-13
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 10:32
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	28.72	0.35	1.20	0.03	silty sand to sandy silt	80-90	>48	9	UNDEFINED
2	130.72	2.49	1.90	0.09	silty sand to sandy silt	>90	>48	42	UNDEFINED
3	74.41	1.12	1.50	0.15	silty sand to sandy silt	80-90	46-48	24	UNDEFINED
4	89.04	0.53	0.59	0.22	sand to silty sand	80-90	44-46	21	UNDEFINED
5	100.85	0.49	0.48	0.28	sand	80-90	44-46	19	UNDEFINED
6	93.68	0.65	0.70	0.33	sand to silty sand	80-90	42-44	22	UNDEFINED
7	98.34	0.56	0.57	0.39	sand	70-80	42-44	19	UNDEFINED
8	117.60	0.69	0.59	0.45	sand	80-90	42-44	23	UNDEFINED
9	150.27	0.85	0.57	0.51	sand	80-90	44-46	29	UNDEFINED
10	136.74	0.76	0.55	0.57	sand	80-90	42-44	26	UNDEFINED
11	106.55	0.62	0.59	0.63	sand	70-80	40-42	20	UNDEFINED
12	130.32	0.55	0.42	0.69	sand	70-80	40-42	25	UNDEFINED
13	150.88	0.79	0.52	0.75	sand	80-90	42-44	29	UNDEFINED
14	152.67	0.83	0.54	0.81	sand	80-90	40-42	29	UNDEFINED
15	80.12	0.41	0.52	0.87	sand to silty sand	60-70	36-38	19	UNDEFINED
16	87.14	0.45	0.51	0.93	sand to silty sand	60-70	36-38	21	UNDEFINED
17	134.87	0.61	0.45	0.98	sand	70-80	40-42	26	UNDEFINED
18	101.70	0.49	0.48	1.04	sand	60-70	38-40	19	UNDEFINED
19	111.77	0.42	0.37	1.10	sand	60-70	38-40	21	UNDEFINED
20	66.67	0.40	0.61	1.16	sand to silty sand	50-60	34-36	16	UNDEFINED
21	56.30	0.30	0.53	1.23	sand to silty sand	40-50	32-34	13	UNDEFINED
22	73.87	0.50	0.68	1.29	sand to silty sand	50-60	34-36	18	UNDEFINED
23	93.79	0.57	0.60	1.35	sand to silty sand	60-70	34-36	22	UNDEFINED
24	123.08	0.51	0.41	1.41	sand	60-70	36-38	24	UNDEFINED
25	121.56	0.58	0.47	1.48	sand	60-70	36-38	23	UNDEFINED
26	119.48	0.58	0.49	1.54	sand	60-70	36-38	23	UNDEFINED
27	111.46	0.55	0.49	1.59	sand	60-70	34-36	21	UNDEFINED
28	114.72	0.87	0.76	1.65	sand	60-70	34-36	22	UNDEFINED
29	66.87	1.53	2.29	1.71	sandy silt to clayey silt	UNDFND	UNDFD	26	5.2
30	68.63	1.96	2.86	1.77	sandy silt to clayey silt	UNDFND	UNDFD	26	5.3
31	68.18	0.88	1.28	1.83	silty sand to sandy silt	40-50	30-32	22	UNDEFINED
32	97.91	0.47	0.48	1.89	sand	50-60	34-36	19	UNDEFINED
33	109.16	1.66	1.52	1.95	sand to silty sand	50-60	34-36	26	UNDEFINED
34	66.10	1.08	1.63	1.99	silty sand to sandy silt	40-50	30-32	21	UNDEFINED
35	60.10	1.60	2.66	2.02	sandy silt to clayey silt	UNDFND	UNDFD	23	4.6
36	116.34	2.13	1.83	2.04	silty sand to sandy silt	60-70	34-36	37	UNDEFINED
37	76.10	0.47	0.61	2.07	sand to silty sand	40-50	30-32	18	UNDEFINED
38	54.76	0.33	0.61	2.10	sand to silty sand	<40	<30	13	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W2-13 Page No. 2

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	57.57	0.34	0.59	2.13	sand to silty sand	40-50	<30	14	UNDEFINED
40	61.43	0.32	0.52	2.16	sand to silty sand	40-50	<30	15	UNDEFINED
41	55.78	0.28	0.50	2.19	sand to silty sand	<40	<30	13	UNDEFINED
42	65.21	0.41	0.62	2.22	sand to silty sand	40-50	30-32	16	UNDEFINED
43	76.79	0.49	0.63	2.25	sand to silty sand	40-50	30-32	18	UNDEFINED
44	73.71	0.49	0.66	2.28	sand to silty sand	40-50	30-32	18	UNDEFINED
45	68.74	0.35	0.50	2.31	sand to silty sand	40-50	30-32	16	UNDEFINED
46	71.72	0.42	0.59	2.34	sand to silty sand	40-50	30-32	17	UNDEFINED
47	65.61	0.42	0.65	2.36	sand to silty sand	40-50	<30	16	UNDEFINED
48	95.42	0.45	0.47	2.39	sand	50-60	32-34	18	UNDEFINED
49	126.13	0.71	0.56	2.42	sand	60-70	34-36	24	UNDEFINED
50	126.46	0.78	0.62	2.45	sand	60-70	32-34	24	UNDEFINED
51	112.20	0.70	0.63	2.48	sand	50-60	32-34	21	UNDEFINED
52	116.84	0.78	0.66	2.51	sand	50-60	32-34	22	UNDEFINED
53	105.82	0.71	0.67	2.53	sand	50-60	32-34	20	UNDEFINED
54	106.46	0.72	0.68	2.56	sand	50-60	32-34	20	UNDEFINED
55	95.29	0.72	0.76	2.59	sand to silty sand	50-60	30-32	23	UNDEFINED
56	88.19	0.53	0.60	2.62	sand to silty sand	40-50	30-32	21	UNDEFINED
57	89.63	0.53	0.59	2.65	sand to silty sand	40-50	30-32	21	UNDEFINED
58	90.89	0.49	0.53	2.68	sand to silty sand	40-50	30-32	22	UNDEFINED
59	87.44	0.42	0.48	2.70	sand to silty sand	40-50	30-32	21	UNDEFINED
60	92.43	0.43	0.46	2.73	sand	40-50	30-32	18	UNDEFINED
61	92.72	0.36	0.38	2.76	sand	40-50	30-32	18	UNDEFINED
62	103.30	0.31	0.30	2.79	sand	50-60	30-32	20	UNDEFINED
63	119.07	0.30	0.25	2.82	sand	50-60	32-34	23	UNDEFINED
64	112.68	0.25	0.22	2.85	sand	50-60	32-34	22	UNDEFINED
65	105.11	0.88	0.84	2.88	sand to silty sand	50-60	30-32	25	UNDEFINED
66	143.10	1.32	0.92	2.91	sand	60-70	32-34	27	UNDEFINED
67	170.64	1.04	0.61	2.94	sand	60-70	34-36	33	UNDEFINED
68	141.22	0.66	0.47	2.97	sand	60-70	32-34	27	UNDEFINED
69	111.72	0.47	0.42	3.00	sand	50-60	30-32	21	UNDEFINED
70	116.38	0.36	0.31	3.03	sand	50-60	30-32	22	UNDEFINED
71	171.92	0.68	0.40	3.05	sand	60-70	34-36	33	UNDEFINED
72	164.82	0.78	0.47	3.08	sand	60-70	34-36	32	UNDEFINED
73	162.47	0.77	0.47	3.11	sand	60-70	34-36	31	UNDEFINED
74	180.36	0.70	0.39	3.14	sand	60-70	34-36	35	UNDEFINED
75	190.86	0.69	0.36	3.17	sand	60-70	34-36	37	UNDEFINED
76	197.92	0.99	0.50	3.20	sand	60-70	34-36	38	UNDEFINED
77	215.82	1.74	0.81	3.22	sand	70-80	34-36	41	UNDEFINED
78	148.70	0.61	0.41	3.25	sand	60-70	32-34	28	UNDEFINED
79	218.25	2.42	1.11	3.28	sand	70-80	34-36	42	UNDEFINED
80	215.67	1.21	0.56	3.31	sand	70-80	34-36	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ***

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	248.54	2.22	0.89	3.34	sand	70-80	36-38	48	UNDEFINED
82	199.19	1.01	0.51	3.37	sand	60-70	34-36	38	UNDEFINED
83	183.96	0.92	0.50	3.39	sand	60-70	34-36	35	UNDEFINED
84	193.48	1.90	0.98	3.42	sand	60-70	34-36	37	UNDEFINED
85	199.90	1.03	0.51	3.46	sand	60-70	34-36	38	UNDEFINED
86	213.38	1.03	0.48	3.48	sand	70-80	34-36	41	UNDEFINED
87	217.10	1.07	0.49	3.51	sand	70-80	34-36	42	UNDEFINED
88	235.86	1.01	0.43	3.54	sand	70-80	34-36	45	UNDEFINED
89	264.69	1.76	0.66	3.57	sand	70-80	36-38	>50	UNDEFINED
90	271.18	1.44	0.53	3.60	gravelly sand to sand	70-80	36-38	43	UNDEFINED
91	257.75	1.31	0.51	3.63	sand	70-80	36-38	49	UNDEFINED
92	240.73	1.25	0.52	3.66	sand	70-80	34-36	46	UNDEFINED
93	245.32	1.42	0.58	3.69	sand	70-80	34-36	47	UNDEFINED
94	258.46	1.49	0.57	3.71	sand	70-80	34-36	50	UNDEFINED
95	285.90	1.70	0.60	3.74	sand	70-80	36-38	>50	UNDEFINED
96	313.84	1.65	0.53	3.77	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
97	333.67	1.07	0.32	3.80	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
98	365.61	1.42	0.39	3.83	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
99	355.14	1.83	0.52	3.86	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
100	340.74	2.04	0.60	3.88	gravelly sand to sand	80-90	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-14
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 11:45
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	8.39	0.01	0.10	0.03	sensitive fine grained	UNDFND	UNDFD	4	.6
2	72.59	0.75	1.03	0.09	sand to silty sand	>90	>48	17	UNDEFINED
3	39.72	1.04	2.62	0.15	sandy silt to clayey silt	UNDFND	UNDFD	15	3.1
4	45.02	0.52	1.16	0.22	silty sand to sandy silt	60-70	42-44	14	UNDEFINED
5	84.52	0.20	0.23	0.28	sand	80-90	44-46	16	UNDEFINED
6	76.61	0.19	0.25	0.33	sand to silty sand	70-80	42-44	18	UNDEFINED
7	69.10	0.20	0.28	0.39	sand to silty sand	60-70	40-42	17	UNDEFINED
8	73.69	0.20	0.27	0.45	sand to silty sand	60-70	40-42	18	UNDEFINED
9	99.91	0.28	0.28	0.51	sand	70-80	42-44	19	UNDEFINED
10	133.18	0.40	0.30	0.57	sand	80-90	42-44	26	UNDEFINED
11	157.19	0.59	0.38	0.63	sand	80-90	42-44	30	UNDEFINED
12	213.46	0.91	0.42	0.69	sand	>90	44-46	41	UNDEFINED
13	226.11	1.34	0.59	0.75	sand	>90	44-46	43	UNDEFINED
14	198.03	0.81	0.41	0.81	sand	80-90	42-44	38	UNDEFINED
15	180.37	0.71	0.39	0.87	sand	80-90	42-44	35	UNDEFINED
16	154.48	0.84	0.54	0.93	sand	80-90	40-42	30	UNDEFINED
17	120.37	1.03	0.86	0.98	sand to silty sand	70-80	38-40	29	UNDEFINED
18	260.36	2.37	0.91	1.04	sand	>90	42-44	50	UNDEFINED
19	224.95	3.13	1.39	1.10	sand to silty sand	80-90	42-44	>50	UNDEFINED
20	193.84	1.04	0.54	1.16	sand	80-90	40-42	37	UNDEFINED
21	144.44	0.73	0.51	1.23	sand	70-80	38-40	28	UNDEFINED
22	134.79	0.58	0.43	1.29	sand	70-80	38-40	26	UNDEFINED
23	131.51	0.72	0.55	1.35	sand	70-80	38-40	25	UNDEFINED
24	147.64	0.87	0.59	1.41	sand	70-80	38-40	28	UNDEFINED
25	148.18	0.69	0.47	1.48	sand	70-80	38-40	28	UNDEFINED
26	143.16	0.75	0.53	1.54	sand	70-80	36-38	27	UNDEFINED
27	138.29	0.70	0.50	1.59	sand	60-70	36-38	26	UNDEFINED
28	142.48	0.60	0.42	1.65	sand	60-70	36-38	27	UNDEFINED
29	116.03	0.56	0.49	1.71	sand	60-70	34-36	22	UNDEFINED
30	122.68	0.63	0.51	1.77	sand	60-70	34-36	24	UNDEFINED
31	137.58	0.69	0.50	1.83	sand	60-70	36-38	26	UNDEFINED
32	132.54	0.64	0.49	1.89	sand	60-70	36-38	25	UNDEFINED
33	121.14	0.54	0.45	1.95	sand	60-70	34-36	23	UNDEFINED
34	116.19	0.47	0.40	1.99	sand	60-70	34-36	22	UNDEFINED
35	149.89	0.52	0.35	2.02	sand	60-70	36-38	29	UNDEFINED
36	164.42	0.78	0.47	2.04	sand	70-80	36-38	31	UNDEFINED
37	170.46	0.81	0.48	2.07	sand	70-80	36-38	33	UNDEFINED
38	181.83	0.95	0.52	2.10	sand	70-80	36-38	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

*

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	171.63	0.83	0.48	2.13	sand	70-80	36-38	33	UNDEFINED
40	166.71	0.77	0.46	2.16	sand	70-80	36-38	32	UNDEFINED
41	174.24	0.57	0.32	2.19	sand	70-80	36-38	33	UNDEFINED
42	151.66	0.59	0.39	2.22	sand	60-70	34-36	29	UNDEFINED
43	135.95	0.93	0.69	2.25	sand	60-70	34-36	26	UNDEFINED
44	119.82	0.71	0.59	2.28	sand	60-70	34-36	23	UNDEFINED
45	137.74	0.65	0.47	2.31	sand	60-70	34-36	26	UNDEFINED
46	156.46	0.87	0.56	2.34	sand	60-70	34-36	30	UNDEFINED
47	144.31	0.78	0.54	2.36	sand	60-70	34-36	28	UNDEFINED
48	134.23	0.61	0.46	2.39	sand	60-70	34-36	26	UNDEFINED
49	127.45	0.59	0.46	2.42	sand	60-70	34-36	24	UNDEFINED
50	143.41	0.76	0.53	2.45	sand	60-70	34-36	27	UNDEFINED
51	144.71	0.83	0.57	2.48	sand	60-70	34-36	28	UNDEFINED
52	146.24	1.02	0.70	2.51	sand	60-70	34-36	28	UNDEFINED
53	136.92	0.72	0.53	2.53	sand	60-70	34-36	26	UNDEFINED
54	139.06	0.63	0.46	2.56	sand	60-70	34-36	27	UNDEFINED
55	144.86	0.63	0.43	2.59	sand	60-70	34-36	28	UNDEFINED
56	149.15	1.02	0.68	2.62	sand	60-70	34-36	29	UNDEFINED
57	149.58	0.97	0.65	2.65	sand	60-70	34-36	29	UNDEFINED
58	140.32	0.76	0.54	2.68	sand	60-70	34-36	27	UNDEFINED
59	133.92	0.60	0.45	2.70	sand	60-70	32-34	26	UNDEFINED
60	134.67	0.59	0.44	2.73	sand	60-70	32-34	26	UNDEFINED
61	137.61	0.53	0.39	2.76	sand	60-70	32-34	26	UNDEFINED
62	138.73	0.49	0.35	2.79	sand	60-70	32-34	27	UNDEFINED
63	140.57	0.50	0.36	2.82	sand	60-70	32-34	27	UNDEFINED
64	141.32	0.69	0.49	2.85	sand	60-70	32-34	27	UNDEFINED
65	150.90	0.58	0.39	2.88	sand	60-70	34-36	29	UNDEFINED
66	154.70	0.61	0.39	2.91	sand	60-70	34-36	30	UNDEFINED
67	140.13	0.59	0.42	2.94	sand	60-70	32-34	27	UNDEFINED
68	136.73	0.54	0.39	2.97	sand	60-70	32-34	26	UNDEFINED
69	142.88	0.61	0.43	3.00	sand	60-70	32-34	27	UNDEFINED
70	128.17	0.47	0.37	3.03	sand	50-60	32-34	25	UNDEFINED
71	120.22	0.41	0.34	3.05	sand	50-60	32-34	23	UNDEFINED
72	118.85	0.42	0.35	3.08	sand	50-60	30-32	23	UNDEFINED
73	149.13	1.20	0.80	3.11	sand	60-70	32-34	29	UNDEFINED
74	207.06	1.04	0.50	3.14	sand	70-80	34-36	40	UNDEFINED
75	229 01	0.89	0.39	3.17	sand	70-80	36-38	44	UNDEFINED
76	269.04	1.06	0.39	3.20	gravelly sand to sand	70-80	36-38	43	UNDEFINED
77	272.20	0.71	0.26	3.22	gravelly sand to sand	70-80	36-38	43	UNDEFINED
78	197.51	0.51	0.26	3.25	sand	60-70	34-36	38	UNDEFINED
79	176.19	0.85	0.48	3.28	sand	60-70	34-36	34	UNDEFINED
80	168.16	0.84	0.50	3.31	sand	60-70	32-34	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ***

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	165.99	0.51	0.31	3.34	sand	60-70	32-34	32	UNDEFINED
82	156.21	0.61	0.39	3.37	sand	60-70	32-34	30	UNDEFINED
83	134.72	0.54	0.40	3.39	sand	50-60	32-34	26	UNDEFINED
84	150.81	0.71	0.47	3.42	sand	60-70	32-34	29	UNDEFINED
85	171.24	0.86	0.50	3.46	sand	60-70	32-34	33	UNDEFINED
86	190.61	0.87	0.46	3.48	sand	60-70	34-36	37	UNDEFINED
87	167.99	0.64	0.38	3.51	sand	60-70	32-34	32	UNDEFINED
88	179.72	0.84	0.47	3.54	sand	60-70	32-34	34	UNDEFINED
89	192.00	0.87	0.45	3.57	sand	60-70	34-36	37	UNDEFINED
90	183.02	0.76	0.41	3.60	sand	60-70	32-34	35	UNDEFINED
91	210.20	0.96	0.45	3.63	sand	60-70	34-36	40	UNDEFINED
92	317.59	1.84	0.58	3.66	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
93	310.32	1.02	0.33	3.69	gravelly sand to sand	80-90	36-38	50	UNDEFINED
94	247.18	0.88	0.36	3.71	gravelly sand to sand	70-80	34-36	39	UNDEFINED
95	235.91	0.96	0.41	3.74	sand	70-80	34-36	45	UNDEFINED
96	213.54	0.84	0.39	3.77	sand	60-70	34-36	41	UNDEFINED
97	184.38	0.60	0.33	3.80	sand	60-70	32-34	35	UNDEFINED
98	158.87	0.59	0.37	3.83	sand	60-70	32-34	30	UNDEFINED
99	169.96	0.63	0.37	3.86	sand	60-70	32-34	33	UNDEFINED
100	164.31	0.60	0.37	3.88	sand	60-70	32-34	31	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-16
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 07:32
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	24.14	0.41	1.71	0.03	sandy silt to clayey silt	UNDFND	UNDFD	9	1.9
2	35.15	0.44	1.25	0.09	silty sand to sandy silt	70-80	44-46	11	UNDEFINED
3	46.75	0.35	0.76	0.15	silty sand to sandy silt	70-80	44-46	15	UNDEFINED
4	142.90	0.33	0.23	0.22	sand	>90	46-48	27	UNDEFINED
5	191.29	0.44	0.23	0.28	sand	>90	>48	37	UNDEFINED
6	197.05	0.55	0.28	0.33	sand	>90	46-48	38	UNDEFINED
7	163.44	0.59	0.36	0.39	sand	>90	44-46	31	UNDEFINED
8	143.45	0.39	0.27	0.45	sand	80-90	44-46	27	UNDEFINED
9	121.51	0.35	0.29	0.51	sand	80-90	42-44	23	UNDEFINED
10	204.81	1.18	0.57	0.57	sand	>90	44-46	39	UNDEFINED
11	278.36	2.59	0.93	0.63	sand	>90	46-48	>50	UNDEFINED
12	157.64	0.52	0.33	0.69	sand	80-90	42-44	30	UNDEFINED
13	151.05	0.48	0.32	0.75	sand	80-90	42-44	29	UNDEFINED
14	135.04	0.43	0.32	0.81	sand	70-80	40-42	26	UNDEFINED
15	113.25	0.38	0.34	0.87	sand	70-80	38-40	22	UNDEFINED
16	130.63	0.45	0.35	0.93	sand	70-80	40-42	25	UNDEFINED
17	151.48	0.53	0.35	0.98	sand	70-80	40-42	29	UNDEFINED
18	137.83	0.41	0.30	1.04	sand	70-80	38-40	26	UNDEFINED
19	147.96	0.58	0.39	1.10	sand	70-80	38-40	28	UNDEFINED
20	178.86	0.65	0.36	1.16	sand	80-90	40-42	34	UNDEFINED
21	175.37	0.63	0.36	1.23	sand	70-80	40-42	34	UNDEFINED
22	151.79	0.54	0.36	1.29	sand	70-80	38-40	29	UNDEFINED
23	136.32	0.45	0.33	1.35	sand	70-80	38-40	26	UNDEFINED
24	139.34	0.52	0.38	1.41	sand	70-80	38-40	27	UNDEFINED
25	155.23	0.49	0.31	1.48	sand	70-80	38-40	30	UNDEFINED
26	151.48	0.41	0.27	1.54	sand	70-80	38-40	29	UNDEFINED
27	144.10	0.39	0.27	1.59	sand	70-80	36-38	28	UNDEFINED
28	148.92	0.52	0.35	1.65	sand	70-80	36-38	29	UNDEFINED
29	126.79	0.37	0.29	1.71	sand	60-70	36-38	24	UNDEFINED
30	102.92	0.43	0.42	1.77	sand	50-60	34-36	20	UNDEFINED
31	124.39	0.54	0.44	1.83	sand	60-70	34-36	24	UNDEFINED
32	102.25	0.39	0.38	1.89	sand	50-60	34-36	20	UNDEFINED
33	97.45	0.34	0.35	1.95	sand	50-60	32-34	19	UNDEFINED
34	124.66	0.45	0.36	1.99	sand	60-70	34-36	24	UNDEFINED
35	142.39	0.48	0.34	2.02	sand	60-70	36-38	27	UNDEFINED
36	131.45	0.38	0.29	2.04	sand	60-70	34-36	25	UNDEFINED
37	136.26	0.37	0.27	2.07	sand	60-70	34-36	26	UNDEFINED
38	161.76	0.30	0.18	2.10	sand	60-70	36-38	31	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	121.38	0.34	0.28	2.13	sand	60-70	34-36	23	UNDEFINED
40	117.84	0.31	0.26	2.16	sand	60-70	34-36	23	UNDEFINED
41	97.69	0.28	0.28	2.19	sand	50-60	32-34	19	UNDEFINED
42	115.30	0.45	0.39	2.22	sand	50-60	34-36	22	UNDEFINED
43	154.90	0.42	0.27	2.25	sand	60-70	34-36	30	UNDEFINED
44	180.56	0.69	0.38	2.28	sand	70-80	36-38	35	UNDEFINED
45	155.78	0.50	0.32	2.31	sand	60-70	34-36	30	UNDEFINED
46	252.14	2.19	0.87	2.34	sand	80-90	38-40	48	UNDEFINED
47	328.55	3.60	1.10	2.36	sand	80-90	40-42	>50	UNDEFINED
48	162.17	2.98	1.84	2.39	sand to silty sand	60-70	34-36	39	UNDEFINED
49	229.40	3.02	1.31	2.42	sand	70-80	36-38	44	UNDEFINED
50	209.81	6.11	2.91	2.45	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
51	161.61	6.44	3.99	2.48	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
52	191.29	7.79	4.07	2.51	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
53	158.82	7.08	4.46	2.53	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
54	143.41	7.89	5.50	2.56	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
55	138.05	6.04	4.37	2.59	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
56	142.93	7.71	5.39	2.62	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
57	186.92	8.05	4.31	2.65	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
58	149.31	7.95	5.32	2.68	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
59	130.96	7.26	5.55	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	176.10	7.33	4.17	2.73	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
61	177.25	8.11	4.57	2.76	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-17
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 08:13
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	17.98	0.28	1.58	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
2	14.57	0.32	2.22	0.09	clayey silt to silty clay	UNDFND	UNDFD	7	1.1
3	67.09	0.12	0.18	0.15	sand to silty sand	80-90	46-48	16	UNDEFINED
4	117.85	0.23	0.20	0.22	sand	>90	46-48	23	UNDEFINED
5	171.01	0.42	0.24	0.28	sand	>90	46-48	33	UNDEFINED
6	192.34	0.67	0.35	0.33	sand	>90	46-48	37	UNDEFINED
7	164.62	0.59	0.36	0.39	sand	>90	44-46	32	UNDEFINED
8	123.54	0.31	0.25	0.45	sand	80-90	42-44	24	UNDEFINED
9	134.80	0.26	0.19	0.51	sand	80-90	42-44	26	UNDEFINED
10	151.27	0.41	0.27	0.57	sand	80-90	42-44	29	UNDEFINED
11	163.36	0.52	0.32	0.63	sand	80-90	42-44	31	UNDEFINED
12	173.36	0.70	0.40	0.69	sand	80-90	42-44	33	UNDEFINED
13	227.05	1.34	0.59	0.75	sand	>90	44-46	43	UNDEFINED
14	194.93	0.60	0.31	0.81	sand	80-90	42-44	37	UNDEFINED
15	215.40	0.86	0.40	0.87	sand	>90	42-44	41	UNDEFINED
16	229.35	1.04	0.45	0.93	sand	>90	42-44	44	UNDEFINED
17	266.90	1.27	0.47	0.98	gravelly sand to sand	>90	42-44	43	UNDEFINED
18	297.25	1.49	0.50	1.04	gravelly sand to sand	>90	44-46	47	UNDEFINED
19	257.25	1.17	0.45	1.10	gravelly sand to sand	>90	42-44	41	UNDEFINED
20	212.60	0.88	0.41	1.16	sand	80-90	40-42	41	UNDEFINED
21	185.30	0.71	0.38	1.23	sand	80-90	40-42	35	UNDEFINED
22	194.08	0.76	0.39	1.29	sand	80-90	40-42	37	UNDEFINED
23	200.87	0.85	0.42	1.35	sand	80-90	40-42	38	UNDEFINED
24	187.47	0.89	0.48	1.41	sand	70-80	38-40	36	UNDEFINED
25	184.05	0.70	0.38	1.48	sand	70-80	38-40	35	UNDEFINED
26	137.88	0.44	0.32	1.54	sand	60-70	36-38	26	UNDEFINED
27	148.84	0.43	0.29	1.59	sand	70-80	36-38	29	UNDEFINED
28	178.40	0.48	0.27	1.65	sand	70-80	38-40	34	UNDEFINED
29	153.00	0.35	0.23	1.71	sand	70-80	36-38	29	UNDEFINED
30	146.41	0.40	0.27	1.77	sand	60-70	36-38	28	UNDEFINED
31	142.15	0.45	0.32	1.83	sand	60-70	36-38	27	UNDEFINED
32	165.79	0.32	0.19	1.89	sand	70-80	36-38	32	UNDEFINED
33	157.84	0.27	0.17	1.95	sand	70-80	36-38	30	UNDEFINED
34	103.96	0.13	0.13	1.99	sand	50-60	34-36	20	UNDEFINED
35	85.88	0.13	0.15	2.02	sand	50-60	32-34	16	UNDEFINED
36	108.32	0.18	0.16	2.04	sand	50-60	34-36	21	UNDEFINED
37	137.33	0.31	0.22	2.07	sand	60-70	34-36	26	UNDEFINED
38	139.37	0.28	0.20	2.10	sand	60-70	34-36	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	136.91	0.22	0.16	2.13	sand	60-70	34-36	26	UNDEFINED
40	140.35	0.32	0.23	2.16	sand	60-70	34-36	27	UNDEFINED
41	146.97	0.53	0.36	2.19	sand	60-70	34-36	28	UNDEFINED
42	126.62	0.47	0.37	2.22	sand	60-70	34-36	24	UNDEFINED
43	165.41	0.67	0.40	2.25	sand	60-70	36-38	32	UNDEFINED
44	157.31	0.65	0.41	2.28	sand	60-70	34-36	30	UNDEFINED
45	128.38	0.47	0.37	2.31	sand	60-70	34-36	25	UNDEFINED
46	119.46	0.36	0.30	2.34	sand	50-60	32-34	23	UNDEFINED
47	121.55	0.62	0.51	2.36	sand	50-60	32-34	23	UNDEFINED
48	108.38	0.17	0.16	2.39	sand	50-60	32-34	21	UNDEFINED
49	121.29	0.35	0.29	2.42	sand	50-60	32-34	23	UNDEFINED
50	166.09	0.59	0.35	2.45	sand	60-70	34-36	32	UNDEFINED
51	169.88	0.67	0.40	2.48	sand	60-70	34-36	33	UNDEFINED
52	141.85	0.54	0.38	2.51	sand	60-70	34-36	27	UNDEFINED
53	123.13	0.36	0.29	2.53	sand	50-60	32-34	24	UNDEFINED
54	122.38	0.57	0.47	2.56	sand	50-60	32-34	23	UNDEFINED
55	146.43	0.79	0.54	2.59	sand	60-70	34-36	28	UNDEFINED
56	169.81	1.43	0.84	2.62	sand	60-70	34-36	33	UNDEFINED
57	146.56	0.93	0.63	2.65	sand	60-70	34-36	28	UNDEFINED
58	118.44	2.69	2.27	2.68	silty sand to sandy silt	50-60	32-34	38	UNDEFINED
59	150.24	6.86	4.57	2.70	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
60	126.72	5.69	4.49	2.73	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
61	123.95	4.57	3.69	2.76	sandy silt to clayey silt	UNDFND	UNDFD	47	9.6
62	208.49	4.71	2.26	2.79	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
63	159.06	4.80	3.02	2.82	silty sand to sandy silt	60-70	34-36	>50	UNDEFINED
64	161.47	6.52	4.04	2.85	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
65	235.42	4.05	1.72	2.88	sand to silty sand	70-80	36-38	>50	UNDEFINED
66	288.31	4.10	1.42	2.91	sand	80-90	38-40	>50	UNDEFINED
67	296.60	6.05	2.04	2.94	sand to silty sand	80-90	38-40	>50	UNDEFINED
68	176.34	7.69	4.36	2.97	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
69	165.10	8.13	4.93	3.00	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
70	155.13	7.16	4.62	3.03	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
71	190.68	7.81	4.10	3.05	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
72	114.56	4.75	4.14	3.08	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
73	91.50	0.51	0.56	3.11	sand to silty sand	40-50	30-32	22	UNDEFINED
74	87.89	0.32	0.36	3.14	sand	40-50	<30	17	UNDEFINED
75	97.91	0.35	0.36	3.17	sand	40-50	30-32	19	UNDEFINED
76	88.53	0.54	0.61	3.20	sand to silty sand	40-50	<30	21	UNDEFINED
77	69.06	0.27	0.39	3.22	sand to silty sand	<40	<30	17	UNDEFINED
78	78.23	0.27	0.35	3.25	sand to silty sand	40-50	<30	19	UNDEFINED
79	90.23	0.29	0.32	3.28	sand	40-50	<30	17	UNDEFINED
80	90.80	0.35	0.39	3.31	sand	40-50	<30	17	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	83.61	0.32	0.38	3.34	sand to silty sand	40-50	<30	20	UNDEFINED
82	76.20	0.34	0.44	3.37	sand to silty sand	40-50	<30	18	UNDEFINED
83	79.74	0.33	0.41	3.39	sand to silty sand	40-50	<30	19	UNDEFINED
84	62.44	0.18	0.29	3.42	sand to silty sand	<40	<30	15	UNDEFINED
85	71.22	0.23	0.32	3.46	sand to silty sand	<40	<30	17	UNDEFINED
86	72.46	0.18	0.25	3.48	sand to silty sand	<40	<30	17	UNDEFINED
87	70.29	0.20	0.28	3.51	sand to silty sand	<40	<30	17	UNDEFINED
88	70.36	0.19	0.27	3.54	sand to silty sand	<40	<30	17	UNDEFINED
89	72.65	0.16	0.22	3.57	sand to silty sand	<40	<30	17	UNDEFINED
90	67.74	0.24	0.36	3.60	sand to silty sand	<40	<30	16	UNDEFINED
91	67.18	0.25	0.37	3.63	sand to silty sand	<40	<30	16	UNDEFINED
92	71.19	0.33	0.47	3.66	sand to silty sand	<40	<30	17	UNDEFINED
93	72.60	0.28	0.38	3.69	sand to silty sand	<40	<30	17	UNDEFINED
94	58.61	0.18	0.32	3.71	sand to silty sand	<40	<30	14	UNDEFINED
95	60.11	0.19	0.32	3.74	sand to silty sand	<40	<30	14	UNDEFINED
96	60.05	0.53	0.89	3.77	sand to silty sand	<40	<30	14	UNDEFINED
97	69.77	0.24	0.34	3.80	sand to silty sand	<40	<30	17	UNDEFINED
98	63.49	0.24	0.38	3.83	sand to silty sand	<40	<30	15	UNDEFINED
99	48.93	0.16	0.32	3.86	sand to silty sand	<40	<30	12	UNDEFINED
100	60.00	0.40	0.66	3.88	sand to silty sand	<40	<30	14	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-18
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:18:97 09:22
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	19.15	0.29	1.51	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
2	25.44	0.52	2.05	0.09	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
3	33.66	0.27	0.81	0.15	silty sand to sandy silt	60-70	42-44	11	UNDEFINED
4	77.61	0.26	0.34	0.22	sand to silty sand	80-90	44-46	19	UNDEFINED
5	121.70	0.34	0.28	0.28	sand	>90	46-48	23	UNDEFINED
6	104.43	0.38	0.37	0.33	sand	80-90	44-46	20	UNDEFINED
7	113.63	0.37	0.32	0.39	sand	80-90	44-46	22	UNDEFINED
8	143.16	0.50	0.35	0.45	sand	80-90	44-46	27	UNDEFINED
9	171.10	0.74	0.43	0.51	sand	>90	44-46	33	UNDEFINED
10	188.95	0.87	0.46	0.57	sand	>90	44-46	36	UNDEFINED
11	243.71	1.47	0.60	0.63	sand	>90	44-46	47	UNDEFINED
12	219.43	1.00	0.46	0.69	sand	>90	44-46	42	UNDEFINED
13	176.01	0.81	0.46	0.75	sand	80-90	42-44	34	UNDEFINED
14	224.02	1.24	0.55	0.81	sand	>90	42-44	43	UNDEFINED
15	186.01	1.02	0.55	0.87	sand	80-90	42-44	36	UNDEFINED
16	211.81	1.28	0.60	0.93	sand	80-90	42-44	41	UNDEFINED
17	217.17	1.02	0.47	0.98	sand	80-90	42-44	42	UNDEFINED
18	151.99	0.65	0.43	1.04	sand	70-80	40-42	29	UNDEFINED
19	182.14	0.84	0.46	1.10	sand	80-90	40-42	35	UNDEFINED
20	197.65	1.01	0.51	1.16	sand	80-90	40-42	38	UNDEFINED
21	168.21	0.77	0.46	1.23	sand	70-80	40-42	32	UNDEFINED
22	229.19	1.29	0.56	1.29	sand	80-90	40-42	44	UNDEFINED
23	236.54	1.15	0.49	1.35	sand	80-90	40-42	45	UNDEFINED
24	263.58	1.27	0.48	1.41	gravelly sand to sand	80-90	40-42	42	UNDEFINED
25	228.34	1.23	0.54	1.48	sand	80-90	40-42	44	UNDEFINED
26	238.39	1.21	0.51	1.54	sand	80-90	40-42	46	UNDEFINED
27	154.67	0.70	0.45	1.59	sand	70-80	38-40	30	UNDEFINED
28	161.24	0.60	0.37	1.65	sand	70-80	38-40	31	UNDEFINED
29	116.43	0.37	0.32	1.71	sand	60-70	34-36	22	UNDEFINED
30	139.79	0.33	0.24	1.77	sand	60-70	36-38	27	UNDEFINED
31	130.99	0.22	0.17	1.83	sand	60-70	36-38	25	UNDEFINED
32	104.43	0.56	0.54	1.89	sand	50-60	34-36	20	UNDEFINED
33	102.84	0.30	0.29	1.95	sand	50-60	34-36	20	UNDEFINED
34	112.04	0.32	0.28	1.99	sand	60-70	34-36	21	UNDEFINED
35	107.22	0.41	0.38	2.02	sand	50-60	34-36	21	UNDEFINED
36	107.84	0.55	0.51	2.04	sand	50-60	34-36	21	UNDEFINED
37	146.40	0.80	0.55	2.07	sand	60-70	36-38	28	UNDEFINED
38	120.06	1.41	1.18	2.10	sand to silty sand	60-70	34-36	29	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	63.11	1.95	3.10	2.13	sandy silt to clayey silt	UNDFND	UNDFD	24	4.8
40	95.44	2.77	2.90	2.16	sandy silt to clayey silt	UNDFND	UNDFD	37	7.4
41	170.25	3.33	1.96	2.19	sand to silty sand	70-80	36-38	41	UNDEFINED
42	219.43	5.09	2.32	2.22	silty sand to sandy silt	70-80	38-40	>50	UNDEFINED
43	250.91	7.03	2.80	2.25	silty sand to sandy silt	80-90	38-40	>50	UNDEFINED
44	184.15	5.87	3.19	2.28	sandy silt to clayey silt	UNDFND	UNDFD	>50	14.5
45	330.22	4.68	1.42	2.31	sand	80-90	40-42	>50	UNDEFINED
46	197.50	7.96	4.03	2.34	sand to clayey sand (*)	UNDFND	UNDFD	>50	UNDEFINED
47	199.15	4.88	2.45	2.36	silty sand to sandy silt	70-80	36-38	>50	UNDEFINED
48	146.06	6.62	4.53	2.39	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
49	122.28	8.19	6.69	2.42	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
50	96.65	6.71	6.94	2.45	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
51	93.50	6.14	6.57	2.48	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
52	140.95	4.91	3.48	2.51	sandy silt to clayey silt	UNDFND	UNDFD	>50	11.0
53	292.67	4.01	1.37	2.53	sand	80-90	38-40	>50	UNDEFINED
54	197.10	3.16	1.60	2.56	sand to silty sand	70-80	36-38	47	UNDEFINED
55	175.91	1.32	0.75	2.59	sand	60-70	34-36	34	UNDEFINED
56	160.81	1.10	0.69	2.62	sand	60-70	34-36	31	UNDEFINED
57	157.66	1.13	0.71	2.65	sand	60-70	34-36	30	UNDEFINED
58	162.52	1.19	0.73	2.68	sand	60-70	34-36	31	UNDEFINED
59	170.76	1.37	0.80	2.70	sand	60-70	34-36	33	UNDEFINED
60	187.32	1.47	0.78	2.73	sand	70-80	34-36	36	UNDEFINED
61	165.58	1.12	0.68	2.76	sand	60-70	34-36	32	UNDEFINED
62	173.72	1.28	0.73	2.79	sand	60-70	34-36	33	UNDEFINED
63	157.77	1.11	0.70	2.82	sand	60-70	34-36	30	UNDEFINED
64	145.65	1.12	0.77	2.85	sand	60-70	32-34	28	UNDEFINED
65	162.97	1.32	0.81	2.88	sand	60-70	34-36	31	UNDEFINED
66	179.06	1.68	0.94	2.91	sand	60-70	34-36	34	UNDEFINED
67	173.99	1.58	0.91	2.94	sand	60-70	34-36	33	UNDEFINED
68	196.63	1.52	0.78	2.97	sand	70-80	34-36	38	UNDEFINED
69	189.74	1.36	0.72	3.00	sand	60-70	34-36	36	UNDEFINED
70	172.78	1.25	0.72	3.03	sand	60-70	34-36	33	UNDEFINED
71	154.78	0.99	0.64	3.05	sand	60-70	32-34	30	UNDEFINED
72	172.30	1.49	0.87	3.08	sand	60-70	34-36	33	UNDEFINED
73	175.52	1.91	1.09	3.11	sand	60-70	34-36	34	UNDEFINED
74	177.78	1.88	1.06	3.14	sand	60-70	34-36	34	UNDEFINED
75	173.66	1.81	1.04	3.17	sand	60-70	34-36	33	UNDEFINED
76	163.88	1.38	0.85	3.20	sand	60-70	32-34	31	UNDEFINED
77	177.43	1.33	0.75	3.22	sand	60-70	34-36	34	UNDEFINED
78	197.39	1.86	0.94	3.25	sand	60-70	34-36	38	UNDEFINED
79	229.67	2.07	0.90	3.28	sand	70-80	34-36	44	UNDEFINED
80	253.41	1.51	0.60	3.31	sand	70-80	36-38	49	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	219.69	0.70	0.32	3.34	sand	70-80	34-36	42	UNDEFINED
82	181.18	0.72	0.40	3.37	sand	60-70	34-36	35	UNDEFINED
83	171.47	0.90	0.53	3.39	sand	60-70	32-34	33	UNDEFINED
84	131.75	1.09	0.83	3.42	sand	50-60	30-32	25	UNDEFINED
85	163.43	0.80	0.49	3.46	sand	60-70	32-34	31	UNDEFINED
86	186.21	0.66	0.36	3.48	sand	60-70	34-36	36	UNDEFINED
87	165.54	0.71	0.43	3.51	sand	60-70	32-34	32	UNDEFINED
88	157.09	0.73	0.46	3.54	sand	60-70	32-34	30	UNDEFINED
89	149.71	0.73	0.49	3.57	sand	50-60	32-34	29	UNDEFINED
90	155.88	0.77	0.49	3.60	sand	60-70	32-34	30	UNDEFINED
91	156.79	0.71	0.45	3.63	sand	60-70	32-34	30	UNDEFINED
92	146.97	0.69	0.47	3.66	sand	50-60	32-34	28	UNDEFINED
93	144.46	0.71	0.49	3.69	sand	50-60	32-34	28	UNDEFINED
94	143.12	0.65	0.46	3.71	sand	50-60	30-32	27	UNDEFINED
95	125.34	0.56	0.45	3.74	sand	50-60	30-32	24	UNDEFINED
96	153.57	0.86	0.56	3.77	sand	50-60	32-34	29	UNDEFINED
97	203.33	0.83	0.41	3.80	sand	60-70	34-36	39	UNDEFINED
98	234.79	1.02	0.44	3.83	sand	70-80	34-36	45	UNDEFINED
99	224.19	1.03	0.46	3.86	sand	70-80	34-36	43	UNDEFINED
100	184.67	0.92	0.50	3.88	sand	60-70	32-34	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-20A
Site : 41
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:13:97 08:19
Geologist : JOSE CERCONE054
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	17.95	0.17	0.98	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
2	19.35	0.16	0.80	0.09	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
3	26.80	0.18	0.68	0.15	silty sand to sandy silt	50-60	40-42	9	UNDEFINED
4	29.32	0.25	0.84	0.22	silty sand to sandy silt	50-60	40-42	9	UNDEFINED
5	27.40	0.23	0.86	0.28	silty sand to sandy silt	40-50	38-40	9	UNDEFINED
6	31.11	0.30	0.96	0.33	silty sand to sandy silt	40-50	36-38	10	UNDEFINED
7	75.87	0.38	0.50	0.39	sand to silty sand	70-80	40-42	18	UNDEFINED
8	92.39	0.43	0.46	0.45	sand	70-80	42-44	18	UNDEFINED
9	102.68	0.76	0.74	0.51	sand to silty sand	70-80	42-44	25	UNDEFINED
10	130.57	0.87	0.66	0.57	sand	80-90	42-44	25	UNDEFINED
11	106.04	0.57	0.54	0.63	sand	70-80	40-42	20	UNDEFINED
12	120.93	0.56	0.46	0.69	sand	70-80	40-42	23	UNDEFINED
13	112.77	0.69	0.61	0.75	sand	70-80	40-42	22	UNDEFINED
14	100.85	0.54	0.54	0.81	sand	60-70	38-40	19	UNDEFINED
15	105.80	0.56	0.53	0.87	sand	70-80	38-40	20	UNDEFINED
16	63.95	0.43	0.67	0.93	sand to silty sand	50-60	34-36	15	UNDEFINED
17	49.02	0.32	0.66	0.98	sand to silty sand	40-50	32-34	12	UNDEFINED
18	74.18	0.36	0.48	1.04	sand to silty sand	50-60	36-38	18	UNDEFINED
19	116.89	0.52	0.44	1.10	sand	60-70	38-40	22	UNDEFINED
20	107.49	0.63	0.58	1.16	sand	60-70	36-38	21	UNDEFINED
21	95.86	0.61	0.64	1.23	sand to silty sand	60-70	36-38	23	UNDEFINED
22	77.14	0.43	0.56	1.29	sand to silty sand	50-60	34-36	18	UNDEFINED
23	106.53	0.56	0.53	1.35	sand	60-70	36-38	20	UNDEFINED
24	96.91	0.69	0.71	1.41	sand to silty sand	60-70	34-36	23	UNDEFINED
25	108.88	0.49	0.45	1.48	sand	60-70	36-38	21	UNDEFINED
26	105.38	0.57	0.54	1.54	sand	60-70	34-36	20	UNDEFINED
27	73.81	0.49	0.66	1.59	sand to silty sand	50-60	32-34	18	UNDEFINED
28	82.71	0.45	0.55	1.65	sand to silty sand	50-60	32-34	20	UNDEFINED
29	95.14	0.49	0.52	1.71	sand	50-60	34-36	18	UNDEFINED
30	71.97	0.40	0.56	1.77	sand to silty sand	40-50	32-34	17	UNDEFINED
31	70.32	0.32	0.45	1.83	sand to silty sand	40-50	30-32	17	UNDEFINED
32	68.81	0.26	0.37	1.89	sand to silty sand	40-50	30-32	16	UNDEFINED
33	63.82	0.26	0.40	1.95	sand to silty sand	40-50	30-32	15	UNDEFINED
34	70.38	0.37	0.53	1.99	sand to silty sand	40-50	30-32	17	UNDEFINED
35	72.72	0.35	0.48	2.02	sand to silty sand	40-50	30-32	17	UNDEFINED
36	96.85	0.54	0.56	2.04	sand to silty sand	50-60	32-34	23	UNDEFINED
37	110.93	0.88	0.79	2.07	sand to silty sand	50-60	34-36	27	UNDEFINED
38	103.56	0.89	0.86	2.10	sand to silty sand	50-60	32-34	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	97.09	0.41	0.42	2.13	sand	50-60	32-34	19	UNDEFINED
40	113.19	0.53	0.47	2.16	sand	50-60	34-36	22	UNDEFINED
41	85.40	0.42	0.49	2.19	sand to silty sand	50-60	32-34	20	UNDEFINED
42	90.64	0.38	0.41	2.22	sand	50-60	32-34	17	UNDEFINED
43	100.59	0.44	0.44	2.25	sand	50-60	32-34	19	UNDEFINED
44	139.39	0.70	0.50	2.28	sand	60-70	34-36	27	UNDEFINED
45	157.57	0.91	0.58	2.31	sand	60-70	34-36	30	UNDEFINED
46	141.41	1.11	0.78	2.34	sand	60-70	34-36	27	UNDEFINED
47	127.95	0.88	0.69	2.36	sand	60-70	34-36	25	UNDEFINED
48	120.85	0.74	0.61	2.39	sand	50-60	32-34	23	UNDEFINED
49	123.65	0.89	0.72	2.42	sand	60-70	32-34	24	UNDEFINED
50	130.22	1.12	0.86	2.45	sand	60-70	34-36	25	UNDEFINED
51	129.01	0.89	0.69	2.48	sand	60-70	34-36	25	UNDEFINED
52	135.22	0.97	0.72	2.51	sand	60-70	34-36	26	UNDEFINED
53	144.33	1.10	0.76	2.53	sand	60-70	34-36	28	UNDEFINED
54	161.39	1.49	0.93	2.56	sand	60-70	34-36	31	UNDEFINED
55	145.80	1.42	0.98	2.59	sand	60-70	34-36	28	UNDEFINED
56	129.21	0.93	0.72	2.62	sand	60-70	32-34	25	UNDEFINED
57	127.87	0.81	0.64	2.65	sand	50-60	32-34	24	UNDEFINED
58	118.91	0.79	0.66	2.68	sand	50-60	32-34	23	UNDEFINED
59	129.51	0.75	0.58	2.70	sand	50-60	32-34	25	UNDEFINED
60	130.54	0.86	0.66	2.73	sand	50-60	32-34	25	UNDEFINED
1	142.47	1.12	0.79	2.76	sand	60-70	32-34	27	UNDEFINED
62	139.24	1.07	0.77	2.79	sand	60-70	32-34	27	UNDEFINED
63	124.84	0.92	0.74	2.82	sand	50-60	32-34	24	UNDEFINED
64	130.80	0.99	0.75	2.85	sand	50-60	32-34	25	UNDEFINED
65	127.58	0.96	0.75	2.88	sand	50-60	32-34	24	UNDEFINED
66	125.75	1.34	1.06	2.91	sand to silty sand	50-60	32-34	30	UNDEFINED
67	135.42	1.25	0.92	2.94	sand	50-60	32-34	26	UNDEFINED
68	125.51	0.94	0.75	2.97	sand	50-60	32-34	24	UNDEFINED
69	127.76	0.93	0.73	3.00	sand	50-60	32-34	24	UNDEFINED
70	141.20	1.00	0.71	3.03	sand	60-70	32-34	27	UNDEFINED
71	147.32	0.83	0.57	3.05	sand	60-70	32-34	28	UNDEFINED
72	152.08	0.83	0.55	3.08	sand	60-70	32-34	29	UNDEFINED
73	163.52	1.42	0.87	3.11	sand	60-70	34-36	31	UNDEFINED
74	143.19	0.89	0.62	3.14	sand	60-70	32-34	27	UNDEFINED
75	135.79	0.72	0.53	3.17	sand	50-60	32-34	26	UNDEFINED
76	148.23	0.73	0.49	3.20	sand	60-70	32-34	28	UNDEFINED
77	147.36	0.54	0.37	3.22	sand	60-70	32-34	28	UNDEFINED
78	141.11	0.76	0.54	3.25	sand	50-60	32-34	27	UNDEFINED
79	126.43	0.59	0.47	3.28	sand	50-60	30-32	24	UNDEFINED
80	122.27	0.65	0.53	3.31	sand	50-60	30-32	23	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	130.69	0.82	0.63	3.34	sand	50-60	32-34	25	UNDEFINED
82	170.03	1.80	1.06	3.37	sand	60-70	32-34	33	UNDEFINED
83	165.67	1.39	0.84	3.39	sand	60-70	32-34	32	UNDEFINED
84	171.04	0.71	0.42	3.42	sand	60-70	32-34	33	UNDEFINED
85	175.21	0.90	0.51	3.46	sand	60-70	32-34	34	UNDEFINED
86	197.32	1.11	0.56	3.48	sand	60-70	34-36	38	UNDEFINED
87	198.31	0.82	0.41	3.51	sand	60-70	34-36	38	UNDEFINED
88	186.76	1.48	0.79	3.54	sand	60-70	34-36	36	UNDEFINED
89	176.02	0.77	0.44	3.57	sand	60-70	32-34	34	UNDEFINED
90	173.13	0.91	0.53	3.60	sand	60-70	32-34	33	UNDEFINED
91	183.19	0.80	0.44	3.63	sand	60-70	32-34	35	UNDEFINED
92	189.95	0.82	0.43	3.66	sand	60-70	34-36	36	UNDEFINED
93	188.26	0.86	0.46	3.69	sand	60-70	32-34	36	UNDEFINED
94	210.77	1.10	0.52	3.71	sand	60-70	34-36	40	UNDEFINED
95	200.85	1.14	0.57	3.74	sand	60-70	34-36	38	UNDEFINED
96	188.41	1.13	0.60	3.77	sand	60-70	32-34	36	UNDEFINED
97	195.84	1.00	0.51	3.80	sand	60-70	32-34	38	UNDEFINED
98	202.33	0.93	0.46	3.83	sand	60-70	34-36	39	UNDEFINED
99	215.18	1.07	0.50	3.86	sand	60-70	34-36	41	UNDEFINED
100	292.65	1.29	0.44	3.88	gravelly sand to sand	70-80	36-38	47	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W2-21
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:17:97 14:24
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	102.67	0.73	0.71	0.03	sand to silty sand	>90	>48	25	UNDEFINED
2	84.92	0.59	0.69	0.09	sand to silty sand	>90	>48	20	UNDEFINED
3	120.66	1.52	1.26	0.15	sand to silty sand	>90	>48	29	UNDEFINED
4	119.85	3.50	2.92	0.22	sandy silt to clayey silt	UNDFND	UNDFD	46	9.5
5	66.60	2.06	3.09	0.28	sandy silt to clayey silt	UNDFND	UNDFD	26	5.3
6	34.84	0.85	2.45	0.33	sandy silt to clayey silt	UNDFND	UNDFD	13	2.7
7	17.88	0.07	0.41	0.39	silty sand to sandy silt	<40	32-34	6	UNDEFINED
8	16.53	0.36	2.18	0.45	clayey silt to silty clay	UNDFND	UNDFD	8	1.2
9	14.37	0.32	2.19	0.51	clayey silt to silty clay	UNDFND	UNDFD	7	1.1
10	12.62	0.15	1.22	0.57	sandy silt to clayey silt	UNDFND	UNDFD	5	.9
11	24.74	0.75	3.04	0.63	clayey silt to silty clay	UNDFND	UNDFD	12	1.9
12	24.09	0.37	1.54	0.69	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
13	25.30	0.37	1.46	0.75	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
14	16.87	0.15	0.90	0.81	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
15	20.23	0.29	1.45	0.87	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
16	20.05	0.34	1.68	0.93	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
17	82.58	1.46	1.77	0.98	silty sand to sandy silt	60-70	36-38	26	UNDEFINED
18	45.34	1.52	3.34	1.04	clayey silt to silty clay	UNDFND	UNDFD	22	3.5
19	21.93	0.85	3.89	1.10	silty clay to clay	UNDFND	UNDFD	14	1.6
20	23.38	0.39	1.68	1.16	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
21	64.33	0.68	1.05	1.23	sand to silty sand	50-60	34-36	15	UNDEFINED
22	101.32	0.80	0.79	1.29	sand to silty sand	60-70	36-38	24	UNDEFINED
23	138.31	1.32	0.95	1.35	sand	70-80	38-40	26	UNDEFINED
24	251.71	3.42	1.36	1.41	sand	80-90	40-42	48	UNDEFINED
25	228.86	2.70	1.18	1.48	sand	80-90	40-42	44	UNDEFINED
26	144.39	1.57	1.09	1.54	sand to silty sand	70-80	36-38	35	UNDEFINED
27	156.29	1.05	0.67	1.59	sand	70-80	38-40	30	UNDEFINED
28	164.71	1.32	0.80	1.65	sand	70-80	38-40	32	UNDEFINED
29	165.58	1.03	0.62	1.71	sand	70-80	38-40	32	UNDEFINED
30	155.20	1.48	0.95	1.77	sand	70-80	36-38	30	UNDEFINED
31	126.96	1.22	0.96	1.83	sand to silty sand	60-70	34-36	30	UNDEFINED
32	165.19	1.57	0.95	1.89	sand	70-80	36-38	32	UNDEFINED
33	192.69	3.11	1.61	1.95	sand to silty sand	70-80	38-40	46	UNDEFINED
34	233.45	2.51	1.07	1.99	sand	80-90	38-40	45	UNDEFINED
35	268.36	2.61	0.97	2.02	sand	80-90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-21A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:17:97 15:03
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	32.23	0.30	0.92	0.03	silty sand to sandy silt	80-90	>48	10	UNDEFINED
2	54.94	0.45	0.82	0.09	sand to silty sand	80-90	46-48	13	UNDEFINED
3	158.61	2.74	1.73	0.15	sand to silty sand	>90	>48	38	UNDEFINED
4	71.38	1.78	2.50	0.22	sandy silt to clayey silt	UNDFND	UNDFD	27	5.6
5	43.08	0.64	1.49	0.28	silty sand to sandy silt	60-70	40-42	14	UNDEFINED
6	28.92	0.31	1.08	0.33	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
7	72.16	1.06	1.47	0.39	silty sand to sandy silt	70-80	40-42	23	UNDEFINED
8	19.15	0.71	3.69	0.45	silty clay to clay	UNDFND	UNDFD	12	1.4
9	15.11	0.21	1.42	0.51	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
10	11.02	0.10	0.94	0.57	sandy silt to clayey silt	UNDFND	UNDFD	4	.8
11	16.84	0.23	1.37	0.63	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
12	21.73	0.23	1.05	0.69	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
13	24.16	0.36	1.48	0.75	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
14	24.23	0.34	1.42	0.81	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
15	37.13	0.51	1.37	0.87	silty sand to sandy silt	40-50	32-34	12	UNDEFINED
16	48.04	0.53	1.10	0.93	silty sand to sandy silt	40-50	34-36	15	UNDEFINED
17	62.78	1.16	1.84	0.98	silty sand to sandy silt	50-60	34-36	20	UNDEFINED
18	35.89	1.31	3.64	1.04	clayey silt to silty clay	UNDFND	UNDFD	17	2.7
19	54.32	0.65	1.19	1.10	silty sand to sandy silt	40-50	32-34	17	UNDEFINED
20	166.64	2.44	1.46	1.16	sand to silty sand	70-80	40-42	40	UNDEFINED
21	201.00	2.55	1.27	1.23	sand	80-90	40-42	39	UNDEFINED
22	216.94	1.21	0.56	1.29	sand	80-90	40-42	42	UNDEFINED
23	275.64	3.05	1.11	1.35	sand	>90	42-44	>50	UNDEFINED
24	262.30	3.20	1.22	1.41	sand	80-90	40-42	>50	UNDEFINED
25	151.18	1.36	0.90	1.48	sand	70-80	38-40	29	UNDEFINED
26	129.73	1.15	0.89	1.54	sand	60-70	36-38	25	UNDEFINED
27	138.98	0.95	0.68	1.59	sand	60-70	36-38	27	UNDEFINED
28	141.56	0.78	0.55	1.65	sand	60-70	36-38	27	UNDEFINED
29	164.62	1.07	0.65	1.71	sand	70-80	36-38	32	UNDEFINED
30	223.49	1.79	0.80	1.77	sand	80-90	38-40	43	UNDEFINED
31	256.57	1.49	0.58	1.83	sand	80-90	40-42	49	UNDEFINED
32	258.54	1.43	0.55	1.89	sand	80-90	40-42	50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-21B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:17:97 15:32
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	35.89	0.20	0.56	0.03	silty sand to sandy silt	80-90	>48	11	UNDEFINED
2	72.37	0.38	0.53	0.09	sand to silty sand	>90	>48	17	UNDEFINED
3	101.55	1.69	1.67	0.15	silty sand to sandy silt	>90	>48	32	UNDEFINED
4	110.63	1.95	1.77	0.22	silty sand to sandy silt	>90	46-48	35	UNDEFINED
5	45.06	0.89	1.98	0.28	sandy silt to clayey silt	UNDFND	UNDFD	17	3.5
6	38.27	0.80	2.09	0.33	sandy silt to clayey silt	UNDFND	UNDFD	15	3.0
7	31.99	0.57	1.77	0.39	sandy silt to clayey silt	UNDFND	UNDFD	12	2.5
8	26.77	0.27	1.00	0.45	silty sand to sandy silt	40-50	34-36	9	UNDEFINED
9	19.45	0.14	0.72	0.51	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
10	24.86	0.15	0.59	0.57	silty sand to sandy silt	<40	32-34	8	UNDEFINED
11	29.78	0.09	0.31	0.63	silty sand to sandy silt	<40	32-34	10	UNDEFINED
12	20.58	0.05	0.23	0.69	silty sand to sandy silt	<40	30-32	7	UNDEFINED
13	17.18	0.12	0.71	0.75	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
14	29.14	0.48	1.64	0.81	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
15	110.76	0.95	0.86	0.87	sand to silty sand	70-80	38-40	27	UNDEFINED
16	170.44	1.93	1.13	0.93	sand	80-90	40-42	33	UNDEFINED
17	162.08	2.01	1.24	0.98	sand to silty sand	80-90	40-42	39	UNDEFINED
18	176.11	1.73	0.98	1.04	sand	80-90	40-42	34	UNDEFINED
19	272.24	2.87	1.05	1.10	sand	>90	42-44	>50	UNDEFINED
20	177.30	1.41	0.80	1.16	sand	80-90	40-42	34	UNDEFINED
21	158.60	1.26	0.79	1.23	sand	70-80	38-40	30	UNDEFINED
22	184.28	1.80	0.98	1.29	sand	80-90	40-42	35	UNDEFINED
23	170.66	1.84	1.08	1.35	sand	70-80	38-40	33	UNDEFINED
24	176.56	2.25	1.27	1.41	sand to silty sand	70-80	38-40	42	UNDEFINED
25	256.33	4.07	1.59	1.48	sand to silty sand	80-90	40-42	>50	UNDEFINED
26	245.99	2.19	0.89	1.54	sand	80-90	40-42	47	UNDEFINED
27	171.17	1.17	0.69	1.59	sand	70-80	38-40	33	UNDEFINED
28	154.27	1.03	0.67	1.65	sand	70-80	36-38	30	UNDEFINED
29	149.74	1.09	0.73	1.71	sand	70-80	36-38	29	UNDEFINED
30	138.90	0.87	0.63	1.77	sand	60-70	36-38	27	UNDEFINED
31	138.82	1.11	0.80	1.83	sand	60-70	36-38	27	UNDEFINED
32	123.63	1.17	0.95	1.89	sand to silty sand	60-70	34-36	30	UNDEFINED
33	115.68	0.63	0.54	1.95	sand	60-70	34-36	22	UNDEFINED
34	117.15	0.86	0.73	1.99	sand	60-70	34-36	22	UNDEFINED
35	125.62	1.57	1.25	2.02	sand to silty sand	60-70	34-36	30	UNDEFINED
36	145.76	0.96	0.66	2.04	sand	60-70	36-38	28	UNDEFINED
37	132.17	1.00	0.75	2.07	sand	60-70	34-36	25	UNDEFINED
38	110.13	0.49	0.45	2.10	sand	50-60	34-36	21	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: for interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W2-21B

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	97.82	0.66	0.68	2.13	sand to silty sand	50-60	32-34	23	UNDEFINED
40	145.58	1.66	1.14	2.16	sand to silty sand	60-70	34-36	35	UNDEFINED
41	153.78	1.82	1.18	2.19	sand to silty sand	60-70	36-38	37	UNDEFINED
42	137.34	0.72	0.52	2.22	sand	60-70	34-36	26	UNDEFINED
43	178.24	1.44	0.81	2.25	sand	70-80	36-38	34	UNDEFINED
44	132.43	0.64	0.49	2.28	sand	60-70	34-36	25	UNDEFINED
45	110.23	1.51	1.37	2.31	sand to silty sand	50-60	32-34	26	UNDEFINED
46	161.51	2.18	1.35	2.34	sand to silty sand	60-70	34-36	39	UNDEFINED
47	164.23	1.32	0.80	2.36	sand	60-70	34-36	31	UNDEFINED
48	121.47	0.82	0.68	2.39	sand	50-60	32-34	23	UNDEFINED
49	127.45	0.91	0.71	2.42	sand	60-70	34-36	24	UNDEFINED
50	182.81	0.82	0.45	2.45	sand	70-80	36-38	35	UNDEFINED
51	202.26	1.80	0.89	2.48	sand	70-80	36-38	39	UNDEFINED
52	174.74	0.90	0.51	2.51	sand	60-70	34-36	33	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-22
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:17:97 13:17
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	61.75	0.56	0.91	0.03	sand to silty sand	>90	>48	15	UNDEFINED
2	65.27	0.63	0.96	0.09	sand to silty sand	80-90	>48	16	UNDEFINED
3	112.52	3.25	2.89	0.15	sandy silt to clayey silt	UNDFND	UNDFD	43	8.9
4	101.99	2.59	2.54	0.22	silty sand to sandy silt	80-90	46-48	33	UNDEFINED
5	143.67	1.81	1.26	0.28	sand to silty sand	>90	46-48	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-22
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 11:17:97 13:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	68.87	0.71	1.02	0.03	sand to silty sand	>90	>48	16	UNDEFINED
2	68.74	0.67	0.97	0.09	sand to silty sand	>90	>48	16	UNDEFINED
3	102.47	2.04	1.99	0.15	silty sand to sandy silt	>90	>48	33	UNDEFINED
4	122.81	3.24	2.64	0.22	silty sand to sandy silt	>90	46-48	39	UNDEFINED
5	212.71	2.94	1.38	0.28	sand to silty sand	>90	>48	>50	UNDEFINED
6	239.75	2.33	0.97	0.33	sand	>90	>48	46	UNDEFINED
7	57.40	0.61	1.06	0.39	silty sand to sandy silt	60-70	40-42	18	UNDEFINED
8	8.21	-0.00	-0.06	0.45	undefined	UNDFND	UNDFD	UDF	UNDEFINED
9	35.83	0.23	0.64	0.51	silty sand to sandy silt	40-50	34-36	11	UNDEFINED
10	55.92	0.84	1.51	0.57	silty sand to sandy silt	50-60	38-40	18	UNDEFINED
11	24.47	1.07	4.38	0.63	silty clay to clay	UNDFND	UNDFD	16	1.9
12	20.82	0.18	0.87	0.69	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
13	19.12	0.19	1.02	0.75	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
14	34.29	0.42	1.23	0.81	silty sand to sandy silt	<40	32-34	11	UNDEFINED
15	40.06	0.26	0.66	0.87	silty sand to sandy silt	40-50	32-34	13	UNDEFINED
16	84.78	1.14	1.34	0.93	sand to silty sand	60-70	36-38	20	UNDEFINED
17	134.85	1.01	0.75	0.98	sand	70-80	40-42	26	UNDEFINED
18	163.01	0.92	0.57	1.04	sand	80-90	40-42	31	UNDEFINED
19	147.20	0.75	0.51	1.10	sand	70-80	38-40	28	UNDEFINED
20	145.92	0.78	0.53	1.16	sand	70-80	38-40	28	UNDEFINED
21	114.31	0.32	0.28	1.23	sand	60-70	36-38	22	UNDEFINED
22	109.43	0.45	0.41	1.29	sand	60-70	36-38	21	UNDEFINED
23	153.19	1.18	0.77	1.35	sand	70-80	38-40	29	UNDEFINED
24	159.27	1.08	0.68	1.41	sand	70-80	38-40	31	UNDEFINED
25	206.34	1.48	0.72	1.48	sand	80-90	40-42	40	UNDEFINED
26	138.76	0.87	0.62	1.54	sand	60-70	36-38	27	UNDEFINED
27	115.39	0.88	0.76	1.59	sand	60-70	36-38	22	UNDEFINED
28	98.56	0.62	0.63	1.65	sand to silty sand	50-60	34-36	24	UNDEFINED
29	102.77	0.75	0.73	1.71	sand to silty sand	50-60	34-36	25	UNDEFINED
30	109.22	0.74	0.67	1.77	sand	60-70	34-36	21	UNDEFINED
31	103.40	0.63	0.61	1.83	sand	50-60	34-36	20	UNDEFINED
32	102.32	0.60	0.58	1.89	sand	50-60	34-36	20	UNDEFINED
33	103.74	0.72	0.69	1.95	sand to silty sand	50-60	34-36	25	UNDEFINED
34	108.61	0.76	0.70	1.99	sand	50-60	34-36	21	UNDEFINED
35	118.42	0.85	0.72	2.02	sand	60-70	34-36	23	UNDEFINED
36	101.50	0.71	0.70	2.04	sand to silty sand	50-60	32-34	24	UNDEFINED
37	95.55	0.66	0.69	2.07	sand to silty sand	50-60	32-34	23	UNDEFINED
38	112.36	1.40	1.25	2.10	sand to silty sand	50-60	34-36	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

EPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	118.65	1.58	1.33	2.13	sand to silty sand	60-70	34-36	28	UNDEFINED
40	102.22	1.31	1.28	2.16	sand to silty sand	50-60	32-34	24	UNDEFINED
41	100.40	0.65	0.65	2.19	sand to silty sand	50-60	32-34	24	UNDEFINED
42	86.53	0.66	0.76	2.22	sand to silty sand	50-60	32-34	21	UNDEFINED
43	98.50	0.63	0.63	2.25	sand to silty sand	50-60	32-34	24	UNDEFINED
44	97.11	0.65	0.67	2.28	sand to silty sand	50-60	32-34	23	UNDEFINED
45	75.27	0.70	0.93	2.31	sand to silty sand	40-50	30-32	18	UNDEFINED
46	85.85	0.49	0.58	2.34	sand to silty sand	50-60	30-32	21	UNDEFINED
47	100.79	0.85	0.84	2.36	sand to silty sand	50-60	32-34	24	UNDEFINED
48	197.19	1.67	0.85	2.39	sand	70-80	36-38	38	UNDEFINED
49	131.81	0.89	0.68	2.42	sand	60-70	34-36	25	UNDEFINED
50	99.36	0.83	0.84	2.45	sand to silty sand	50-60	32-34	24	UNDEFINED
51	102.26	0.83	0.81	2.48	sand to silty sand	50-60	32-34	24	UNDEFINED
52	123.29	0.54	0.44	2.51	sand	50-60	32-34	24	UNDEFINED
53	140.16	0.69	0.49	2.53	sand	60-70	34-36	27	UNDEFINED
54	124.40	0.87	0.70	2.56	sand	50-60	32-34	24	UNDEFINED
55	132.57	1.73	1.30	2.59	sand to silty sand	60-70	32-34	32	UNDEFINED
56	174.77	1.70	0.97	2.62	sand	60-70	34-36	33	UNDEFINED
57	159.46	0.86	0.54	2.65	sand	60-70	34-36	31	UNDEFINED
58	113.04	0.50	0.44	2.68	sand	50-60	32-34	22	UNDEFINED
59	149.41	2.16	1.44	2.70	sand to silty sand	60-70	34-36	36	UNDEFINED
60	162.37	1.59	0.98	2.73	sand	60-70	34-36	31	UNDEFINED
61	131.94	1.12	0.85	2.76	sand	60-70	32-34	25	UNDEFINED
62	198.39	2.64	1.33	2.79	sand to silty sand	70-80	36-38	48	UNDEFINED
63	203.78	2.50	1.23	2.82	sand	70-80	36-38	39	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-24A
Site : ANOKA PARK
Tot, Unit Wt. (avg) : 120 pcf

CPT Date : 11:13:97 09:43
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	24.35	0.23	0.92	0.03	silty sand to sandy silt	70-80	>48	8	UNDEFINED
2	22.87	0.03	0.13	0.09	silty sand to sandy silt	50-60	42-44	7	UNDEFINED
3	36.07	0.03	0.10	0.15	sand to silty sand	60-70	42-44	9	UNDEFINED
4	44.85	0.06	0.13	0.22	sand to silty sand	60-70	42-44	11	UNDEFINED
5	54.97	0.10	0.19	0.28	sand to silty sand	60-70	42-44	13	UNDEFINED
6	65.78	0.20	0.31	0.33	sand to silty sand	70-80	42-44	16	UNDEFINED
7	141.25	0.43	0.31	0.39	sand	80-90	44-46	27	UNDEFINED
8	161.97	0.63	0.39	0.45	sand	>90	44-46	31	UNDEFINED
9	154.03	0.71	0.46	0.51	sand	80-90	44-46	30	UNDEFINED
10	181.43	0.72	0.40	0.57	sand	>90	44-46	35	UNDEFINED
11	204.29	0.98	0.48	0.63	sand	>90	44-46	39	UNDEFINED
12	168.95	0.75	0.45	0.69	sand	80-90	42-44	32	UNDEFINED
13	171.78	0.71	0.41	0.75	sand	80-90	42-44	33	UNDEFINED
14	150.58	0.67	0.45	0.81	sand	80-90	40-42	29	UNDEFINED
15	109.90	0.54	0.49	0.87	sand	70-80	38-40	21	UNDEFINED
16	126.53	0.60	0.47	0.93	sand	70-80	40-42	24	UNDEFINED
17	137.71	0.72	0.52	0.98	sand	70-80	40-42	26	UNDEFINED
18	172.72	0.82	0.48	1.04	sand	80-90	40-42	33	UNDEFINED
19	203.58	0.82	0.40	1.10	sand	80-90	40-42	39	UNDEFINED
20	172.59	0.87	0.50	1.16	sand	80-90	40-42	33	UNDEFINED
21	146.62	0.65	0.44	1.23	sand	70-80	38-40	28	UNDEFINED
22	149.58	0.67	0.44	1.29	sand	70-80	38-40	29	UNDEFINED
23	119.03	0.66	0.55	1.35	sand	60-70	36-38	23	UNDEFINED
24	107.23	0.51	0.48	1.41	sand	60-70	36-38	21	UNDEFINED
25	138.34	0.49	0.35	1.48	sand	70-80	36-38	27	UNDEFINED
26	149.47	0.68	0.45	1.54	sand	70-80	38-40	29	UNDEFINED
27	132.58	0.58	0.44	1.59	sand	60-70	36-38	25	UNDEFINED
28	116.30	0.42	0.36	1.65	sand	60-70	36-38	22	UNDEFINED
29	105.01	0.37	0.36	1.71	sand	60-70	34-36	20	UNDEFINED
30	97.40	0.26	0.27	1.77	sand	50-60	34-36	19	UNDEFINED
31	84.30	0.30	0.35	1.83	sand to silty sand	50-60	32-34	20	UNDEFINED
32	73.59	0.20	0.27	1.89	sand to silty sand	40-50	32-34	18	UNDEFINED
33	83.30	0.32	0.38	1.95	sand to silty sand	50-60	32-34	20	UNDEFINED
34	80.57	0.34	0.42	1.99	sand to silty sand	50-60	32-34	19	UNDEFINED
35	77.59	0.33	0.42	2.02	sand to silty sand	40-50	30-32	19	UNDEFINED
36	111.84	0.60	0.53	2.04	sand	50-60	34-36	21	UNDEFINED
37	95.07	0.41	0.43	2.07	sand	50-60	32-34	18	UNDEFINED
38	81.81	0.17	0.20	2.10	sand	50-60	32-34	16	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	80.68	0.30	0.38	2.13	sand to silty sand	40-50	30-32	19	UNDEFINED
40	97.44	0.52	0.54	2.16	sand	50-60	32-34	19	UNDEFINED
41	65.54	0.20	0.31	2.19	sand to silty sand	40-50	30-32	16	UNDEFINED
42	107.62	0.45	0.42	2.22	sand	50-60	32-34	21	UNDEFINED
43	296.33	3.65	1.23	2.25	sand	80-90	38-40	>50	UNDEFINED
44	117.23	3.85	3.28	2.28	sandy silt to clayey silt	UNDFND	UNDFD	45	9.1
45	88.75	3.98	4.48	2.31	very stiff fine grained (*)	UNDFND	UNDFD	>50	UNDEFINED
46	115.58	3.65	3.16	2.34	sandy silt to clayey silt	UNDFND	UNDFD	44	9.0
47	150.43	3.62	2.41	2.36	silty sand to sandy silt	60-70	34-36	48	UNDEFINED
48	84.80	2.50	2.94	2.39	sandy silt to clayey silt	UNDFND	UNDFD	32	6.5
49	100.89	0.64	0.63	2.42	sand to silty sand	50-60	32-34	24	UNDEFINED
50	86.13	0.51	0.59	2.45	sand to silty sand	40-50	30-32	21	UNDEFINED
51	95.44	0.51	0.54	2.48	sand to silty sand	50-60	30-32	23	UNDEFINED
52	101.41	0.38	0.38	2.51	sand	50-60	32-34	19	UNDEFINED
53	107.50	0.52	0.48	2.53	sand	50-60	32-34	21	UNDEFINED
54	117.59	0.68	0.58	2.56	sand	50-60	32-34	23	UNDEFINED
55	118.36	0.77	0.65	2.59	sand	50-60	32-34	23	UNDEFINED
56	121.64	0.78	0.64	2.62	sand	50-60	32-34	23	UNDEFINED
57	122.78	0.96	0.78	2.65	sand	50-60	32-34	24	UNDEFINED
58	127.60	0.87	0.68	2.68	sand	50-60	32-34	24	UNDEFINED
59	151.22	1.15	0.76	2.70	sand	60-70	34-36	29	UNDEFINED
60	154.36	1.53	0.99	2.73	sand	60-70	34-36	30	UNDEFINED
61	149.89	1.26	0.84	2.76	sand	60-70	34-36	29	UNDEFINED
62	164.16	1.12	0.68	2.79	sand	60-70	34-36	31	UNDEFINED
63	169.71	1.52	0.90	2.82	sand	60-70	34-36	33	UNDEFINED
64	142.38	1.13	0.80	2.85	sand	60-70	32-34	27	UNDEFINED
65	145.38	1.03	0.71	2.88	sand	60-70	32-34	28	UNDEFINED
66	121.37	0.88	0.73	2.91	sand	50-60	32-34	23	UNDEFINED
67	134.43	0.88	0.65	2.94	sand	50-60	32-34	26	UNDEFINED
68	144.85	0.87	0.60	2.97	sand	60-70	32-34	28	UNDEFINED
69	133.26	0.93	0.70	3.00	sand	50-60	32-34	26	UNDEFINED
70	147.26	1.01	0.68	3.03	sand	60-70	32-34	28	UNDEFINED
71	155.08	1.05	0.68	3.05	sand	60-70	32-34	30	UNDEFINED
72	156.71	0.86	0.55	3.08	sand	60-70	32-34	30	UNDEFINED
73	141.53	0.70	0.49	3.11	sand	60-70	32-34	27	UNDEFINED
74	140.58	0.63	0.45	3.14	sand	60-70	32-34	27	UNDEFINED
75	144.11	0.44	0.30	3.17	sand	60-70	32-34	28	UNDEFINED
76	166.45	0.59	0.36	3.20	sand	60-70	34-36	32	UNDEFINED
77	207.33	1.34	0.65	3.22	sand	70-80	34-36	40	UNDEFINED
78	203.21	1.22	0.60	3.25	sand	70-80	34-36	39	UNDEFINED
79	227.36	1.86	0.82	3.28	sand	70-80	34-36	44	UNDEFINED
80	395.03	2.91	0.74	3.31	gravelly sand to sand	80-90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

(*) overconsolidated or cemented

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE -	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	404.61	1.74	0.43	3.34	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
82	233.78	0.99	0.42	3.37	sand	70-80	34-36	45	UNDEFINED
83	216.26	1.39	0.64	3.39	sand	70-80	34-36	41	UNDEFINED
84	185.78	1.26	0.68	3.42	sand	60-70	34-36	36	UNDEFINED
85	150.32	0.60	0.40	3.46	sand	60-70	32-34	29	UNDEFINED
86	136.18	0.56	0.41	3.48	sand	50-60	32-34	26	UNDEFINED
87	148.96	0.48	0.32	3.51	sand	60-70	32-34	29	UNDEFINED
88	169.90	0.45	0.26	3.54	sand	60-70	32-34	33	UNDEFINED
89	177.24	0.53	0.30	3.57	sand	60-70	32-34	34	UNDEFINED
90	174.19	0.72	0.41	3.60	sand	60-70	32-34	33	UNDEFINED
91	201.02	0.82	0.41	3.63	sand	60-70	34-36	39	UNDEFINED
92	194.45	0.92	0.47	3.66	sand	60-70	34-36	37	UNDEFINED
93	172.54	0.79	0.46	3.69	sand	60-70	32-34	33	UNDEFINED
94	168.66	0.74	0.44	3.71	sand	60-70	32-34	32	UNDEFINED
95	164.51	0.69	0.42	3.74	sand	60-70	32-34	32	UNDEFINED
96	163.45	0.76	0.46	3.77	sand	60-70	32-34	31	UNDEFINED
97	148.66	0.53	0.36	3.80	sand	50-60	32-34	28	UNDEFINED
98	149.50	0.62	0.41	3.83	sand	50-60	32-34	29	UNDEFINED
99	149.92	0.74	0.49	3.86	sand	50-60	32-34	29	UNDEFINED
100	173.95	0.88	0.51	3.88	sand	60-70	32-34	33	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-25
Site : 2
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:30:97 15:22
Geologist : 20 TON A AD054
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	27.12	0.63	2.31	0.03	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
2	5.74	0.01	0.15	0.09	sensitive fine grained	UNDFND	UNDFD	3	.4
3	3.46	0.00	0.00	0.15	undefined	UNDFND	UNDFD	UDF	UNDEFINED
4	1.94	0.00	0.00	0.22	undefined	UNDFND	UNDFD	UDF	UNDEFINED
5	6.07	0.05	0.77	0.28	sensitive fine grained	UNDFND	UNDFD	3	.4
6	43.97	1.71	3.90	0.33	clayey silt to silty clay	UNDFND	UNDFD	21	3.4

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-25A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:30:97 15:34
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	31.15	0.77	2.46	0.03	sandy silt to clayey silt	UNDFND	UNDFD	12	2.4
2	68.96	0.99	1.44	0.09	silty sand to sandy silt	>90	>48	22	UNDEFINED
3	10.64	0.21	1.96	0.15	clayey silt to silty clay	UNDFND	UNDFD	5	.8
4	7.00	0.06	0.79	0.22	sensitive fine grained	UNDFND	UNDFD	3	.5
5	6.19	0.10	1.70	0.28	silty clay to clay	UNDFND	UNDFD	4	.4
6	6.57	0.18	2.66	0.33	silty clay to clay	UNDFND	UNDFD	4	.4

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W2-25B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 10:30:97 15:46
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	31.79	0.41	1.28	0.03	silty sand to sandy silt	80-90	>48	10	UNDEFINED
2	31.94	0.20	0.63	0.09	silty sand to sandy silt	60-70	44-46	10	UNDEFINED
3	27.09	0.13	0.48	0.15	silty sand to sandy silt	50-60	40-42	9	UNDEFINED
4	47.85	0.19	0.39	0.22	sand to silty sand	60-70	42-44	11	UNDEFINED
5	115.02	0.45	0.39	0.28	sand	80-90	44-46	22	UNDEFINED
6	211.04	0.83	0.39	0.33	sand	>90	46-48	40	UNDEFINED
7	244.14	1.21	0.49	0.39	sand	>90	46-48	47	UNDEFINED
8	220.73	0.96	0.44	0.45	sand	>90	46-48	42	UNDEFINED
9	170.11	0.86	0.50	0.51	sand	>90	44-46	33	UNDEFINED
10	103.84	0.54	0.52	0.57	sand	70-80	40-42	20	UNDEFINED
11	92.21	0.54	0.58	0.63	sand to silty sand	70-80	40-42	22	UNDEFINED
12	128.47	0.72	0.56	0.69	sand	70-80	40-42	25	UNDEFINED
13	116.51	0.66	0.57	0.75	sand	70-80	40-42	22	UNDEFINED
14	117.07	0.53	0.45	0.81	sand	70-80	40-42	22	UNDEFINED
15	124.87	0.66	0.52	0.87	sand	70-80	40-42	24	UNDEFINED
16	160.70	0.81	0.51	0.93	sand	80-90	40-42	31	UNDEFINED
17	173.11	0.88	0.51	0.98	sand	80-90	40-42	33	UNDEFINED
18	157.51	0.87	0.55	1.04	sand	70-80	40-42	30	UNDEFINED
19	151.45	0.98	0.64	1.10	sand	70-80	40-42	29	UNDEFINED
20	149.44	0.97	0.65	1.16	sand	70-80	38-40	29	UNDEFINED
21	173.62	0.91	0.53	1.23	sand	70-80	40-42	33	UNDEFINED
22	177.39	0.86	0.49	1.29	sand	70-80	40-42	34	UNDEFINED
23	156.38	1.18	0.76	1.35	sand	70-80	38-40	30	UNDEFINED
24	102.15	0.76	0.75	1.41	sand to silty sand	60-70	36-38	24	UNDEFINED
25	90.34	0.85	0.94	1.48	sand to silty sand	50-60	34-36	22	UNDEFINED
26	114.90	0.70	0.61	1.54	sand	60-70	36-38	22	UNDEFINED
27	131.19	0.92	0.70	1.59	sand	60-70	36-38	25	UNDEFINED
28	113.81	0.57	0.50	1.65	sand	60-70	34-36	22	UNDEFINED
29	110.80	0.49	0.44	1.71	sand	60-70	34-36	21	UNDEFINED
30	116.03	0.62	0.54	1.77	sand	60-70	34-36	22	UNDEFINED
31	84.99	0.38	0.45	1.83	sand to silty sand	50-60	32-34	20	UNDEFINED
32	86.56	0.26	0.30	1.89	sand	50-60	32-34	17	UNDEFINED
33	86.16	0.24	0.28	1.95	sand	50-60	32-34	17	UNDEFINED
34	100.61	0.80	0.79	1.99	sand to silty sand	50-60	32-34	24	UNDEFINED
35	137.37	1.59	1.16	2.02	sand to silty sand	60-70	34-36	33	UNDEFINED
36	70.87	0.76	1.07	2.04	sand to silty sand	40-50	30-32	17	UNDEFINED
37	86.88	1.18	1.36	2.07	sand to silty sand	50-60	32-34	21	UNDEFINED
38	83.42	0.43	0.51	2.10	sand to silty sand	50-60	32-34	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	99.34	0.43	0.43	2.13	sand	50-60	32-34	19	UNDEFINED
40	92.85	0.35	0.37	2.16	sand	50-60	32-34	18	UNDEFINED
41	105.56	0.41	0.39	2.19	sand	50-60	32-34	20	UNDEFINED
42	138.55	2.48	1.79	2.22	sand to silty sand	60-70	34-36	33	UNDEFINED
43	111.51	0.64	0.58	2.25	sand	50-60	32-34	21	UNDEFINED
44	115.54	0.71	0.61	2.28	sand	50-60	32-34	22	UNDEFINED
45	97.40	0.54	0.56	2.31	sand	50-60	32-34	19	UNDEFINED
46	90.16	0.46	0.51	2.34	sand to silty sand	50-60	30-32	22	UNDEFINED
47	90.43	0.45	0.49	2.36	sand to silty sand	50-60	30-32	22	UNDEFINED
48	87.30	0.48	0.55	2.39	sand to silty sand	50-60	30-32	21	UNDEFINED
49	90.46	0.51	0.57	2.42	sand to silty sand	50-60	30-32	22	UNDEFINED
50	96.44	0.58	0.60	2.45	sand to silty sand	50-60	32-34	23	UNDEFINED
51	94.37	0.41	0.44	2.48	sand	50-60	30-32	18	UNDEFINED
52	72.91	0.31	0.42	2.51	sand to silty sand	40-50	<30	17	UNDEFINED
53	102.17	0.46	0.45	2.53	sand	50-60	32-34	20	UNDEFINED
54	115.58	0.57	0.49	2.56	sand	50-60	32-34	22	UNDEFINED
55	97.47	0.58	0.60	2.59	sand to silty sand	50-60	30-32	23	UNDEFINED
56	91.07	0.47	0.52	2.62	sand to silty sand	50-60	30-32	22	UNDEFINED
57	101.30	0.61	0.60	2.65	sand	50-60	30-32	19	UNDEFINED
58	108.06	0.58	0.54	2.68	sand	50-60	32-34	21	UNDEFINED
59	105.64	0.66	0.62	2.70	sand	50-60	32-34	20	UNDEFINED
60	100.34	0.73	0.73	2.73	sand to silty sand	50-60	30-32	24	UNDEFINED
61	112.38	1.00	0.89	2.76	sand to silty sand	50-60	32-34	27	UNDEFINED
62	118.00	1.28	1.08	2.79	sand to silty sand	50-60	32-34	28	UNDEFINED
63	115.47	1.43	1.24	2.82	sand to silty sand	50-60	32-34	28	UNDEFINED
64	109.73	1.12	1.02	2.85	sand to silty sand	50-60	30-32	26	UNDEFINED
65	105.08	0.95	0.90	2.88	sand to silty sand	50-60	30-32	25	UNDEFINED
66	112.35	1.04	0.92	2.91	sand to silty sand	50-60	30-32	27	UNDEFINED
67	131.34	1.11	0.84	2.94	sand	50-60	32-34	25	UNDEFINED
68	156.49	1.13	0.72	2.97	sand	60-70	34-36	30	UNDEFINED
69	171.40	3.30	1.93	3.00	sand to silty sand	60-70	34-36	41	UNDEFINED
70	172.76	1.54	0.89	3.03	sand	60-70	34-36	33	UNDEFINED
71	164.38	1.78	1.08	3.05	sand	60-70	34-36	31	UNDEFINED
72	170.60	2.44	1.43	3.08	sand to silty sand	60-70	34-36	41	UNDEFINED
73	151.10	2.12	1.40	3.11	sand to silty sand	60-70	32-34	36	UNDEFINED
74	145.57	1.24	0.85	3.14	sand	60-70	32-34	28	UNDEFINED
75	160.28	1.59	0.99	3.17	sand	60-70	32-34	31	UNDEFINED
76	149.39	0.80	0.53	3.20	sand	60-70	32-34	29	UNDEFINED
77	157.05	0.78	0.50	3.22	sand	60-70	32-34	30	UNDEFINED
78	152.16	0.97	0.64	3.25	sand	60-70	32-34	29	UNDEFINED
79	145.25	1.56	1.07	3.28	sand to silty sand	60-70	32-34	35	UNDEFINED
80	165.40	1.20	0.73	3.31	sand	60-70	32-34	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	148.88	0.64	0.43	3.34	sand	60-70	32-34	29	UNDEFINED
82	158.69	0.83	0.52	3.37	sand	60-70	32-34	30	UNDEFINED
83	149.21	0.91	0.61	3.39	sand	60-70	32-34	29	UNDEFINED
84	157.79	1.32	0.84	3.42	sand	60-70	32-34	30	UNDEFINED
85	151.33	1.23	0.81	3.46	sand	60-70	32-34	29	UNDEFINED
86	161.96	1.09	0.68	3.48	sand	60-70	32-34	31	UNDEFINED
87	200.05	2.09	1.05	3.51	sand	60-70	34-36	38	UNDEFINED
88	155.53	0.95	0.61	3.54	sand	60-70	32-34	30	UNDEFINED
89	165.51	0.69	0.41	3.57	sand	60-70	32-34	32	UNDEFINED
90	160.66	0.71	0.44	3.60	sand	60-70	32-34	31	UNDEFINED
91	141.68	0.75	0.53	3.63	sand	50-60	32-34	27	UNDEFINED
92	172.78	0.66	0.38	3.66	sand	60-70	32-34	33	UNDEFINED
93	285.02	3.28	1.15	3.69	sand	70-80	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 08:07
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	34.03	0.69	2.04	0.03	sandy silt to clayey silt	UNDFND	UNDFD	13	2.7
2	130.60	1.28	0.98	0.09	sand to silty sand	>90	>48	31	UNDEFINED
3	36.22	0.97	2.67	0.15	sandy silt to clayey silt	UNDFND	UNDFD	14	2.8
4	26.32	0.55	2.10	0.22	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
5	18.69	0.69	3.70	0.28	silty clay to clay	UNDFND	UNDFD	12	1.4
6	51.10	1.21	2.37	0.33	sandy silt to clayey silt	UNDFND	UNDFD	20	4.0
7	27.04	0.85	3.14	0.39	clayey silt to silty clay	UNDFND	UNDFD	13	2.1
8	5.39	0.31	5.78	0.45	clay	UNDFND	UNDFD	5	.3
9	1.74	0.11	6.14	0.51	organic material	UNDFND	UNDFD	2	9.8
10	1.82	0.21	11.71	0.57	undefined	UNDFND	UNDFD	UDF	UNDEFINED
11	24.65	0.71	2.89	0.63	clayey silt to silty clay	UNDFND	UNDFD	12	1.9
12	49.35	0.91	1.85	0.69	silty sand to sandy silt	50-60	36-38	16	UNDEFINED
13	54.64	0.80	1.46	0.75	silty sand to sandy silt	50-60	36-38	17	UNDEFINED
14	38.94	0.60	1.55	0.81	silty sand to sandy silt	40-50	32-34	12	UNDEFINED
15	37.22	0.73	1.97	0.87	sandy silt to clayey silt	UNDFND	UNDFD	14	2.9
16	46.26	0.64	1.38	0.93	silty sand to sandy silt	40-50	32-34	15	UNDEFINED
17	27.34	0.53	1.93	0.98	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
18	48.23	0.77	1.60	1.04	silty sand to sandy silt	40-50	32-34	15	UNDEFINED
19	34.46	1.03	2.99	1.10	clayey silt to silty clay	UNDFND	UNDFD	17	2.6
20	53.36	0.59	1.10	1.16	silty sand to sandy silt	40-50	32-34	17	UNDEFINED
21	35.37	0.62	1.75	1.23	sandy silt to clayey silt	UNDFND	UNDFD	14	2.7
22	41.41	0.54	1.32	1.29	silty sand to sandy silt	<40	30-32	13	UNDEFINED
23	49.24	0.50	1.02	1.35	silty sand to sandy silt	40-50	30-32	16	UNDEFINED
24	15.98	0.27	1.72	1.41	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
25	18.57	0.58	3.12	1.48	clayey silt to silty clay	UNDFND	UNDFD	9	1.3
26	83.85	0.78	0.94	1.54	sand to silty sand	50-60	34-36	20	UNDEFINED
27	41.25	0.85	2.06	1.59	sandy silt to clayey silt	UNDFND	UNDFD	16	3.1
28	95.65	1.16	1.21	1.65	sand to silty sand	50-60	34-36	23	UNDEFINED
29	98.07	1.09	1.11	1.71	sand to silty sand	50-60	34-36	23	UNDEFINED
30	159.93	1.49	0.93	1.77	sand	70-80	36-38	31	UNDEFINED
31	207.62	1.55	0.74	1.83	sand	70-80	38-40	40	UNDEFINED
32	126.58	0.84	0.66	1.89	sand	60-70	34-36	24	UNDEFINED
33	107.46	0.72	0.67	1.95	sand	50-60	34-36	21	UNDEFINED
34	86.27	1.01	1.17	1.99	sand to silty sand	50-60	32-34	21	UNDEFINED
35	91.44	0.84	0.92	2.02	sand to silty sand	50-60	32-34	22	UNDEFINED
36	136.15	0.77	0.57	2.04	sand	60-70	34-36	26	UNDEFINED
37	154.89	0.87	0.56	2.07	sand	60-70	36-38	30	UNDEFINED
38	99.31	1.22	1.22	2.10	sand to silty sand	50-60	32-34	24	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-1A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 08:35
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	21.63	0.24	1.13	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
2	146.99	1.51	1.03	0.09	sand	>90	>48	28	UNDEFINED
3	94.79	2.70	2.85	0.15	sandy silt to clayey silt	UNDFND	UNDFD	36	7.5
4	60.92	0.61	1.00	0.22	sand to silty sand	70-80	42-44	15	UNDEFINED
5	26.68	0.54	2.03	0.28	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
6	33.03	1.05	3.17	0.33	clayey silt to silty clay	UNDFND	UNDFD	16	2.6
7	43.20	1.23	2.84	0.39	sandy silt to clayey silt	UNDFND	UNDFD	17	3.4
8	5.48	0.17	3.10	0.45	clay	UNDFND	UNDFD	5	.4
9	4.15	0.17	4.13	0.51	clay	UNDFND	UNDFD	4	.2
10	23.02	0.29	1.24	0.57	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
11	28.68	0.39	1.38	0.63	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
12	108.08	1.08	0.99	0.69	sand to silty sand	70-80	40-42	26	UNDEFINED
13	96.60	1.00	1.04	0.75	sand to silty sand	60-70	38-40	23	UNDEFINED
14	45.54	0.45	0.99	0.81	silty sand to sandy silt	40-50	34-36	15	UNDEFINED
15	43.97	0.35	0.80	0.87	silty sand to sandy silt	40-50	32-34	14	UNDEFINED
16	55.14	0.55	0.99	0.93	silty sand to sandy silt	50-60	34-36	18	UNDEFINED
17	39.08	0.46	1.17	0.98	silty sand to sandy silt	<40	32-34	12	UNDEFINED
18	30.48	0.54	1.77	1.04	sandy silt to clayey silt	UNDFND	UNDFD	12	2.3
19	47.15	0.54	1.14	1.10	silty sand to sandy silt	40-50	32-34	15	UNDEFINED
20	172.68	1.20	0.70	1.16	sand	80-90	40-42	33	UNDEFINED
21	28.24	0.65	2.32	1.23	sandy silt to clayey silt	UNDFND	UNDFD	11	2.1
22	101.81	1.36	1.34	1.29	sand to silty sand	60-70	36-38	24	UNDEFINED
23	73.71	1.47	1.99	1.35	silty sand to sandy silt	50-60	34-36	24	UNDEFINED
24	21.69	0.40	1.84	1.41	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
25	60.83	0.90	1.48	1.48	silty sand to sandy silt	40-50	32-34	19	UNDEFINED
26	40.83	1.02	2.50	1.54	sandy silt to clayey silt	UNDFND	UNDFD	16	3.1
27	30.67	0.74	2.42	1.59	sandy silt to clayey silt	UNDFND	UNDFD	12	2.3
28	74.62	0.87	1.17	1.65	sand to silty sand	50-60	32-34	18	UNDEFINED
29	179.32	1.25	0.70	1.71	sand	70-80	38-40	34	UNDEFINED
30	180.77	1.35	0.75	1.77	sand	70-80	38-40	35	UNDEFINED
31	115.28	0.89	0.77	1.83	sand	60-70	34-36	22	UNDEFINED
32	54.44	0.36	0.66	1.89	sand to silty sand	40-50	<30	13	UNDEFINED
33	86.85	0.69	0.80	1.95	sand to silty sand	50-60	32-34	21	UNDEFINED
34	84.77	0.59	0.69	1.99	sand to silty sand	50-60	32-34	20	UNDEFINED
35	90.52	0.62	0.69	2.02	sand to silty sand	50-60	32-34	22	UNDEFINED
36	89.32	0.56	0.62	2.04	sand to silty sand	50-60	32-34	21	UNDEFINED
37	108.29	0.75	0.69	2.07	sand	50-60	34-36	21	UNDEFINED
38	134.53	0.77	0.57	2.10	sand	60-70	34-36	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W5-1A

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	160.45	0.78	0.49	2.13	sand	60-70	36-38	31	UNDEFINED
40	176.19	1.37	0.78	2.16	sand	70-80	36-38	34	UNDEFINED
41	127.21	0.68	0.53	2.19	sand	60-70	34-36	24	UNDEFINED
42	120.80	0.72	0.59	2.22	sand	60-70	34-36	23	UNDEFINED
43	325.94	1.54	0.47	2.25	gravelly sand to sand	80-90	40-42	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-1B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 09:20
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	29.35	0.23	0.80	0.03	silty sand to sandy silt	80-90	>48	9	UNDEFINED
2	60.51	0.32	0.53	0.09	sand to silty sand	80-90	>48	14	UNDEFINED
3	121.49	2.33	1.92	0.15	silty sand to sandy silt	>90	>48	39	UNDEFINED
4	242.20	2.51	1.03	0.22	sand	>90	>48	46	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-1C
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 09:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	21.91	0.20	0.90	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
2	51.17	0.23	0.44	0.09	sand to silty sand	80-90	46-48	12	UNDEFINED
3	73.10	1.68	2.29	0.15	silty sand to sandy silt	80-90	46-48	23	UNDEFINED
4	180.08	2.23	1.24	0.22	sand to silty sand	>90	>48	43	UNDEFINED
5	81.21	0.79	0.98	0.28	sand to silty sand	70-80	44-46	19	UNDEFINED
6	23.29	0.75	3.21	0.33	clayey silt to silty clay	UNDFND	UNDFD	11	1.8
7	29.43	0.21	0.71	0.39	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
8	5.82	0.10	1.72	0.45	silty clay to clay	UNDFND	UNDFD	4	.4
9	4.91	0.03	0.58	0.51	sensitive fine grained	UNDFND	UNDFD	2	.3
10	16.38	0.11	0.68	0.57	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
11	48.12	0.35	0.72	0.63	sand to silty sand	50-60	36-38	12	UNDEFINED
12	28.94	0.35	1.21	0.69	silty sand to sandy silt	<40	32-34	9	UNDEFINED
13	128.19	4.59	3.58	0.75	sandy silt to clayey silt	UNDFND	UNDFD	49	10.1

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

* Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W5-2
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 09:46
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	29.97	0.15	0.51	0.03	silty sand to sandy silt	80-90	>48	10	UNDEFINED
2	55.68	0.36	0.65	0.09	sand to silty sand	80-90	46-48	13	UNDEFINED
3	48.20	0.55	1.14	0.15	silty sand to sandy silt	70-80	44-46	15	UNDEFINED
4	46.43	0.21	0.46	0.22	sand to silty sand	60-70	42-44	11	UNDEFINED
5	28.45	0.14	0.48	0.28	silty sand to sandy silt	40-50	38-40	9	UNDEFINED
6	19.36	0.08	0.40	0.33	silty sand to sandy silt	<40	34-36	6	UNDEFINED
7	18.34	0.09	0.49	0.39	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
8	16.85	0.12	0.72	0.45	sandy silt to clayey silt	UNDFND	UNDFD	6	1.3
9	9.89	0.09	0.91	0.51	clayey silt to silty clay	UNDFND	UNDFD	5	.7
10	40.93	0.24	0.59	0.57	silty sand to sandy silt	40-50	36-38	13	UNDEFINED
11	111.28	0.78	0.70	0.63	sand	70-80	40-42	21	UNDEFINED
12	82.35	0.71	0.86	0.69	sand to silty sand	60-70	38-40	20	UNDEFINED
13	35.06	0.64	1.84	0.75	sandy silt to clayey silt	UNDFND	UNDFD	13	2.7
14	39.39	0.46	1.17	0.81	silty sand to sandy silt	40-50	32-34	13	UNDEFINED
15	40.74	0.84	2.05	0.87	sandy silt to clayey silt	UNDFND	UNDFD	16	3.1
16	47.93	0.78	1.63	0.93	silty sand to sandy silt	40-50	34-36	15	UNDEFINED
17	88.54	1.52	1.72	0.98	silty sand to sandy silt	60-70	36-38	28	UNDEFINED
18	71.28	0.76	1.06	1.04	sand to silty sand	50-60	34-36	17	UNDEFINED
19	36.41	0.42	1.14	1.10	silty sand to sandy silt	<40	30-32	12	UNDEFINED
20	36.40	0.38	1.03	1.16	silty sand to sandy silt	<40	30-32	12	UNDEFINED
1	50.64	0.35	0.69	1.23	sand to silty sand	40-50	32-34	12	UNDEFINED
2	33.54	0.33	0.98	1.29	silty sand to sandy silt	<40	<30	11	UNDEFINED
23	58.55	0.49	0.84	1.35	sand to silty sand	40-50	32-34	14	UNDEFINED
24	82.16	0.52	0.63	1.41	sand to silty sand	50-60	34-36	20	UNDEFINED
25	56.76	0.50	0.88	1.48	sand to silty sand	40-50	30-32	14	UNDEFINED
26	157.66	1.10	0.70	1.54	sand	70-80	38-40	30	UNDEFINED
27	146.18	0.86	0.59	1.59	sand	70-80	36-38	28	UNDEFINED
28	200.17	1.13	0.57	1.65	sand	70-80	38-40	38	UNDEFINED
29	215.33	1.39	0.64	1.71	sand	80-90	38-40	41	UNDEFINED
30	218.51	1.91	0.87	1.77	sand	80-90	38-40	42	UNDEFINED
31	128.72	0.74	0.58	1.83	sand	60-70	36-38	25	UNDEFINED
32	167.63	0.92	0.55	1.89	sand	70-80	36-38	32	UNDEFINED
33	174.44	0.88	0.50	1.95	sand	70-80	36-38	33	UNDEFINED
34	181.35	0.96	0.53	1.99	sand	70-80	36-38	35	UNDEFINED
35	169.15	0.82	0.48	2.02	sand	70-80	36-38	32	UNDEFINED
36	200.36	0.72	0.36	2.04	sand	70-80	38-40	38	UNDEFINED
37	203.30	0.56	0.28	2.07	sand	70-80	38-40	39	UNDEFINED
38	175.50	0.43	0.24	2.10	sand	70-80	36-38	34	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: for interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	182.88	0.42	0.23	2.13	sand	70-80	36-38	35	UNDEFINED
40	194.89	0.63	0.32	2.16	sand	70-80	36-38	37	UNDEFINED
41	176.57	0.57	0.32	2.19	sand	70-80	36-38	34	UNDEFINED
42	157.55	0.51	0.32	2.22	sand	60-70	36-38	30	UNDEFINED
43	139.28	0.70	0.50	2.25	sand	60-70	34-36	27	UNDEFINED
44	150.07	0.77	0.52	2.28	sand	60-70	34-36	29	UNDEFINED
45	194.62	0.99	0.51	2.31	sand	70-80	36-38	37	UNDEFINED
46	207.42	0.58	0.28	2.34	sand	70-80	36-38	40	UNDEFINED
47	203.32	0.66	0.32	2.36	sand	70-80	36-38	39	UNDEFINED
48	186.58	0.74	0.39	2.39	sand	70-80	36-38	36	UNDEFINED
49	219.19	0.90	0.41	2.42	sand	70-80	36-38	42	UNDEFINED
50	177.68	0.98	0.55	2.45	sand	70-80	36-38	34	UNDEFINED
51	128.19	0.61	0.47	2.48	sand	60-70	34-36	25	UNDEFINED
52	197.39	0.93	0.47	2.51	sand	70-80	36-38	38	UNDEFINED
53	257.47	3.19	1.24	2.53	sand	80-90	38-40	49	UNDEFINED
54	199.83	1.83	0.92	2.56	sand	70-80	36-38	38	UNDEFINED
55	188.45	1.17	0.62	2.59	sand	70-80	36-38	36	UNDEFINED
56	185.27	1.14	0.62	2.62	sand	70-80	36-38	35	UNDEFINED
57	210.85	1.36	0.64	2.65	sand	70-80	36-38	40	UNDEFINED
58	209.98	1.35	0.64	2.68	sand	70-80	36-38	40	UNDEFINED
59	213.41	1.04	0.49	2.70	sand	70-80	36-38	41	UNDEFINED
60	218.17	1.05	0.48	2.73	sand	70-80	36-38	42	UNDEFINED
61	250.04	1.47	0.59	2.76	sand	70-80	36-38	48	UNDEFINED
62	286.05	1.90	0.66	2.79	sand	80-90	38-40	>50	UNDEFINED
63	331.50	2.95	0.89	2.82	sand	80-90	38-40	>50	UNDEFINED
64	290.56	3.74	1.29	2.85	sand	80-90	38-40	>50	UNDEFINED
65	199.46	1.19	0.60	2.88	sand	70-80	34-36	38	UNDEFINED
66	197.10	1.17	0.59	2.91	sand	70-80	34-36	38	UNDEFINED
67	200.31	1.06	0.53	2.94	sand	70-80	34-36	38	UNDEFINED
68	199.58	1.22	0.61	2.97	sand	70-80	34-36	38	UNDEFINED
69	220.29	1.39	0.63	3.00	sand	70-80	36-38	42	UNDEFINED
70	258.27	1.69	0.65	3.03	sand	70-80	36-38	49	UNDEFINED
71	332.46	3.06	0.92	3.05	sand	80-90	38-40	>50	UNDEFINED
72	306.58	3.28	1.07	3.08	sand	80-90	38-40	>50	UNDEFINED
73	286.55	2.85	0.99	3.11	sand	80-90	36-38	>50	UNDEFINED
74	265.00	1.97	0.74	3.14	sand	70-80	36-38	>50	UNDEFINED
75	355.60	2.33	0.66	3.17	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
76	396.90	2.71	0.68	3.20	gravelly sand to sand	80-90	38-40	>50	UNDEFINED
77	406.08	2.85	0.70	3.22	gravelly sand to sand	>90	38-40	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 10:41
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	27.39	0.30	1.08	0.03	silty sand to sandy silt	80-90	>48	9	UNDEFINED
2	67.02	0.66	0.98	0.09	sand to silty sand	80-90	>48	16	UNDEFINED
3	52.82	0.61	1.15	0.15	silty sand to sandy silt	70-80	44-46	17	UNDEFINED
4	17.07	0.22	1.29	0.22	sandy silt to clayey silt	UNDFND	UNDFD	7	1.3
5	0.88	0.02	2.84	0.28	undefined	UNDFND	UNDFD	UDF	UNDEFINED
6	10.07	0.29	2.90	0.33	silty clay to clay	UNDFND	UNDFD	6	.7
7	21.81	0.39	1.80	0.39	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
8	18.56	0.22	1.20	0.45	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
9	85.20	0.74	0.86	0.51	sand to silty sand	70-80	40-42	20	UNDEFINED
10	217.81	3.23	1.48	0.57	sand to silty sand	>90	44-46	>50	UNDEFINED
11	135.40	1.20	0.89	0.63	sand	80-90	42-44	26	UNDEFINED
12	101.84	1.01	0.99	0.69	sand to silty sand	70-80	40-42	24	UNDEFINED
13	62.12	0.53	0.85	0.75	sand to silty sand	50-60	36-38	15	UNDEFINED
14	42.81	0.37	0.85	0.81	silty sand to sandy silt	40-50	34-36	14	UNDEFINED
15	25.30	0.19	0.76	0.87	silty sand to sandy silt	<40	<30	8	UNDEFINED
16	35.59	0.50	1.41	0.93	silty sand to sandy silt	<40	30-32	11	UNDEFINED
17	18.88	0.13	0.67	0.98	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
18	19.37	0.17	0.88	1.04	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
19	31.75	0.34	1.07	1.10	silty sand to sandy silt	<40	<30	10	UNDEFINED
20	26.74	0.43	1.60	1.16	sandy silt to clayey silt	UNDFND	UNDFD	10	2.0
21	60.18	0.88	1.46	1.23	silty sand to sandy silt	40-50	32-34	19	UNDEFINED
22	78.68	0.87	1.10	1.29	sand to silty sand	50-60	34-36	19	UNDEFINED
23	130.03	0.80	0.61	1.35	sand	60-70	36-38	25	UNDEFINED
24	122.09	0.84	0.69	1.41	sand	60-70	36-38	23	UNDEFINED
25	102.70	0.65	0.63	1.48	sand	60-70	34-36	20	UNDEFINED
26	94.99	0.65	0.68	1.54	sand to silty sand	50-60	34-36	23	UNDEFINED
27	99.53	0.76	0.76	1.59	sand to silty sand	50-60	34-36	24	UNDEFINED
28	115.91	0.85	0.73	1.65	sand	60-70	36-38	22	UNDEFINED
29	153.30	0.98	0.64	1.71	sand	70-80	36-38	29	UNDEFINED
30	152.59	1.00	0.65	1.77	sand	70-80	36-38	29	UNDEFINED
31	162.78	1.20	0.74	1.83	sand	70-80	36-38	31	UNDEFINED
32	194.10	1.09	0.56	1.89	sand	70-80	38-40	37	UNDEFINED
33	186.85	0.69	0.37	1.95	sand	70-80	36-38	36	UNDEFINED
34	147.91	0.78	0.53	1.99	sand	60-70	36-38	28	UNDEFINED
35	132.17	0.84	0.63	2.02	sand	60-70	34-36	25	UNDEFINED
36	146.04	0.88	0.60	2.04	sand	60-70	36-38	28	UNDEFINED
37	156.89	0.99	0.63	2.07	sand	60-70	36-38	30	UNDEFINED
38	143.32	0.64	0.45	2.10	sand	60-70	34-36	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	140.74	0.94	0.67	2.13	sand	60-70	34-36	27	UNDEFINED
40	165.91	0.97	0.58	2.16	sand	70-80	36-38	32	UNDEFINED
41	149.12	0.62	0.41	2.19	sand	60-70	34-36	29	UNDEFINED
42	107.17	0.50	0.47	2.22	sand	50-60	32-34	21	UNDEFINED
43	111.91	0.62	0.56	2.25	sand	50-60	32-34	21	UNDEFINED
44	136.94	0.95	0.69	2.28	sand	60-70	34-36	26	UNDEFINED
45	167.94	0.88	0.53	2.31	sand	60-70	36-38	32	UNDEFINED
46	104.96	0.49	0.47	2.34	sand	50-60	32-34	20	UNDEFINED
47	111.78	0.46	0.41	2.36	sand	50-60	32-34	21	UNDEFINED
48	131.10	0.43	0.33	2.39	sand	60-70	34-36	25	UNDEFINED
49	154.61	0.59	0.38	2.42	sand	60-70	34-36	30	UNDEFINED
50	159.36	0.60	0.38	2.45	sand	60-70	34-36	31	UNDEFINED
51	154.68	1.30	0.84	2.48	sand	60-70	34-36	30	UNDEFINED
52	128.81	0.86	0.66	2.51	sand	60-70	32-34	25	UNDEFINED
53	171.28	0.86	0.50	2.53	sand	60-70	34-36	33	UNDEFINED
54	183.24	0.75	0.41	2.56	sand	70-80	36-38	35	UNDEFINED
55	156.09	0.48	0.31	2.59	sand	60-70	34-36	30	UNDEFINED
56	160.06	1.05	0.65	2.62	sand	60-70	34-36	31	UNDEFINED
57	149.75	1.05	0.70	2.65	sand	60-70	34-36	29	UNDEFINED
58	172.70	0.90	0.52	2.68	sand	60-70	34-36	33	UNDEFINED
59	152.92	0.67	0.44	2.70	sand	60-70	34-36	29	UNDEFINED
60	112.30	0.38	0.34	2.73	sand	50-60	32-34	22	UNDEFINED
61	104.09	0.71	0.69	2.76	sand to silty sand	50-60	30-32	25	UNDEFINED
62	121.28	1.36	1.12	2.79	sand to silty sand	50-60	32-34	29	UNDEFINED
63	106.12	0.49	0.46	2.82	sand	50-60	30-32	20	UNDEFINED
64	86.38	0.46	0.53	2.85	sand to silty sand	40-50	30-32	21	UNDEFINED
65	98.37	0.68	0.69	2.88	sand to silty sand	50-60	30-32	24	UNDEFINED
66	104.10	0.74	0.71	2.91	sand to silty sand	50-60	30-32	25	UNDEFINED
67	90.25	0.74	0.82	2.94	sand to silty sand	40-50	30-32	22	UNDEFINED
68	74.80	0.70	0.93	2.97	sand to silty sand	40-50	<30	18	UNDEFINED
69	83.71	0.56	0.67	3.00	sand to silty sand	40-50	<30	20	UNDEFINED
70	90.84	0.36	0.40	3.03	sand	40-50	30-32	17	UNDEFINED
71	86.18	0.62	0.72	3.05	sand to silty sand	40-50	<30	21	UNDEFINED
72	93.90	0.63	0.67	3.08	sand to silty sand	40-50	30-32	22	UNDEFINED
73	61.46	0.41	0.68	3.11	sand to silty sand	<40	<30	15	UNDEFINED
74	65.91	0.41	0.62	3.14	sand to silty sand	<40	<30	16	UNDEFINED
75	67.54	0.45	0.66	3.17	sand to silty sand	<40	<30	16	UNDEFINED
76	71.09	0.48	0.68	3.20	sand to silty sand	40-50	<30	17	UNDEFINED
77	69.61	0.51	0.73	3.22	sand to silty sand	<40	<30	17	UNDEFINED
78	63.04	0.41	0.66	3.25	sand to silty sand	<40	<30	15	UNDEFINED
79	61.47	0.32	0.51	3.28	sand to silty sand	<40	<30	15	UNDEFINED
80	59.44	0.40	0.67	3.31	sand to silty sand	<40	<30	14	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

*** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	48.17	0.29	0.60	3.34	sand to silty sand	<40	<30	12	UNDEFINED
82	45.45	0.27	0.58	3.37	sand to silty sand	<40	<30	11	UNDEFINED
83	47.48	0.27	0.58	3.39	sand to silty sand	<40	<30	11	UNDEFINED
84	55.11	0.31	0.56	3.42	sand to silty sand	<40	<30	13	UNDEFINED
85	48.02	0.25	0.51	3.46	sand to silty sand	<40	<30	11	UNDEFINED
86	42.07	0.23	0.54	3.48	sand to silty sand	<40	<30	10	UNDEFINED
87	40.36	0.21	0.52	3.51	silty sand to sandy silt	<40	<30	13	UNDEFINED
88	46.47	0.30	0.65	3.54	sand to silty sand	<40	<30	11	UNDEFINED
89	49.07	0.33	0.68	3.57	sand to silty sand	<40	<30	12	UNDEFINED
90	48.15	0.32	0.67	3.60	sand to silty sand	<40	<30	12	UNDEFINED
91	46.72	0.32	0.68	3.63	sand to silty sand	<40	<30	11	UNDEFINED
92	42.91	0.27	0.63	3.66	silty sand to sandy silt	<40	<30	14	UNDEFINED
93	37.61	0.20	0.55	3.69	silty sand to sandy silt	<40	<30	12	UNDEFINED
94	32.58	0.17	0.53	3.71	silty sand to sandy silt	<40	<30	10	UNDEFINED
95	30.81	0.16	0.52	3.74	silty sand to sandy silt	<40	<30	10	UNDEFINED
96	30.05	0.13	0.44	3.77	silty sand to sandy silt	<40	<30	10	UNDEFINED
97	29.11	0.13	0.43	3.80	silty sand to sandy silt	<40	<30	9	UNDEFINED
98	29.61	0.12	0.41	3.83	silty sand to sandy silt	<40	<30	9	UNDEFINED
99	33.39	0.14	0.43	3.86	silty sand to sandy silt	<40	<30	11	UNDEFINED
100	38.14	0.26	0.68	3.88	silty sand to sandy silt	<40	<30	12	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-4
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 11:52
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	37.31	0.41	1.11	0 03	silty sand to sandy silt	80-90	>48	12	UNDEFINED
2	135.14	1.53	1 14	0.09	sand to silty sand	>90	>48	32	UNDEFINED
3	134.56	1.04	0.77	0.15	sand	>90	>48	26	UNDEFINED
4	62.02	0.57	0.92	0 22	sand to silty sand	70-80	44-46	15	UNDEFINED

Dr - All sands (Jamiolkowski et al 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3 02) ****

MKC

Contractor :GREGG
Location : W5-4A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 12:00
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	38.58	0.44	1.14	0.03	silty sand to sandy silt	80-90	>48	12	UNDEFINED
2	137.30	1.18	0.86	0.09	sand	>90	>48	26	UNDEFINED
3	171.70	1.80	1.05	0.15	sand	>90	>48	33	UNDEFINED
4	76.94	1.15	1.49	0.22	silty sand to sandy silt	80-90	44-46	25	UNDEFINED
5	36.44	0.67	1.83	0.28	sandy silt to clayey silt	UNDFND	UNDFD	14	2.8
6	90.58	0.70	0.77	0.33	sand to silty sand	70-80	42-44	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-4B
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 12:15
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	67.05	0.80	1.19	0.03	silty sand to sandy silt	>90	>48	21	UNDEFINED
2	222.35	4.39	1.97	0.09	sand to silty sand	>90	>48	>50	UNDEFINED
3	175.90	2.51	1.43	0.15	sand to silty sand	>90	>48	42	UNDEFINED
4	86.04	1.25	1.45	0.22	silty sand to sandy silt	80-90	44-46	27	UNDEFINED
5	138.83	2.57	1.85	0.28	silty sand to sandy silt	>90	46-48	44	UNDEFINED
6	216.26	2.67	1.24	0.33	sand	>90	46-48	41	UNDEFINED
7	324.91	1.74	0.54	0.39	gravelly sand to sand	>90	>48	>50	UNDEFINED
8	256.01	1.33	0.52	0.45	sand	>90	46-48	49	UNDEFINED
9	227.12	1.00	0.44	0.51	sand	>90	46-48	44	UNDEFINED
10	204.90	1.06	0.51	0.57	sand	>90	44-46	39	UNDEFINED
11	113.99	0.59	0.52	0.63	sand	70-80	40-42	22	UNDEFINED
12	147.56	0.57	0.39	0.69	sand	80-90	42-44	28	UNDEFINED
13	149.02	0.62	0.42	0.75	sand	80-90	42-44	29	UNDEFINED
14	111.30	0.50	0.45	0.81	sand	70-80	40-42	21	UNDEFINED
15	107.39	0.57	0.53	0.87	sand	70-80	38-40	21	UNDEFINED
16	125.63	0.79	0.63	0.93	sand	70-80	40-42	24	UNDEFINED
17	105.35	0.51	0.49	0.98	sand	60-70	38-40	20	UNDEFINED
18	95.74	0.48	0.50	1.04	sand	60-70	36-38	18	UNDEFINED
19	102.25	0.48	0.47	1.10	sand	60-70	36-38	20	UNDEFINED
20	123.55	0.61	0.50	1.16	sand	70-80	38-40	24	UNDEFINED
1	108.97	0.56	0.52	1.23	sand	60-70	36-38	21	UNDEFINED
22	118.89	0.85	0.71	1.29	sand	60-70	36-38	23	UNDEFINED
23	110.46	0.82	0.74	1.35	sand to silty sand	60-70	36-38	26	UNDEFINED
24	138.43	0.82	0.59	1.41	sand	70-80	38-40	27	UNDEFINED
25	132.06	0.70	0.53	1.48	sand	60-70	36-38	25	UNDEFINED
26	138.60	0.84	0.60	1.54	sand	60-70	36-38	27	UNDEFINED
27	139.27	1.19	0.86	1.59	sand	60-70	36-38	27	UNDEFINED
28	136.97	0.99	0.73	1.65	sand	60-70	36-38	26	UNDEFINED
29	202.12	1.22	0.60	1.71	sand	70-80	38-40	39	UNDEFINED
30	205.24	1.86	0.90	1.77	sand	70-80	38-40	39	UNDEFINED
31	146.08	0.79	0.54	1.83	sand	60-70	36-38	28	UNDEFINED
32	103.93	0.37	0.36	1.89	sand	50-60	34-36	20	UNDEFINED
33	95.64	0.41	0.43	1.95	sand	50-60	32-34	18	UNDEFINED
34	121.36	0.61	0.50	1.99	sand	60-70	34-36	23	UNDEFINED
35	153.12	0.72	0.47	2.02	sand	60-70	36-38	29	UNDEFINED
36	155.62	0.84	0.54	2.04	sand	60-70	36-38	30	UNDEFINED
37	153.82	0.83	0.54	2.07	sand	60-70	36-38	29	UNDEFINED
38	211.73	1.25	0.59	2.10	sand	70-80	38-40	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	275.32	1.27	0.46	2.13	gravelly sand to sand	80-90	38-40	44	UNDEFINED
40	284.93	1.24	0.43	2.16	gravelly sand to sand	80-90	38-40	45	UNDEFINED
41	140.39	0.54	0.39	2.19	sand	60-70	34-36	27	UNDEFINED
42	104.97	0.55	0.52	2.22	sand	50-60	32-34	20	UNDEFINED
43	94.14	0.51	0.54	2.25	sand to silty sand	50-60	32-34	23	UNDEFINED
44	196.21	1.45	0.74	2.28	sand	70-80	36-38	38	UNDEFINED
45	269.34	1.54	0.57	2.31	sand	80-90	38-40	>50	UNDEFINED
46	150.98	0.60	0.40	2.34	sand	60-70	34-36	29	UNDEFINED
47	145.18	0.80	0.55	2.36	sand	60-70	34-36	28	UNDEFINED
48	142.96	0.96	0.67	2.39	sand	60-70	34-36	27	UNDEFINED
49	132.25	0.90	0.68	2.42	sand	60-70	34-36	25	UNDEFINED
50	115.28	0.76	0.66	2.45	sand	50-60	32-34	22	UNDEFINED
51	111.46	0.79	0.71	2.48	sand	50-60	32-34	21	UNDEFINED
52	108.33	0.73	0.67	2.51	sand	50-60	32-34	21	UNDEFINED
53	111.24	0.71	0.64	2.53	sand	50-60	32-34	21	UNDEFINED
54	129.12	0.70	0.54	2.56	sand	60-70	32-34	25	UNDEFINED
55	128.08	0.67	0.53	2.59	sand	60-70	32-34	25	UNDEFINED
56	143.74	0.63	0.44	2.62	sand	60-70	34-36	28	UNDEFINED
57	138.38	0.66	0.47	2.65	sand	60-70	34-36	27	UNDEFINED
58	135.52	0.64	0.47	2.68	sand	60-70	32-34	26	UNDEFINED
59	129.14	0.64	0.49	2.70	sand	50-60	32-34	25	UNDEFINED
60	146.15	1.08	0.74	2.73	sand	60-70	34-36	28	UNDEFINED
61	157.88	1.45	0.92	2.76	sand	60-70	34-36	30	UNDEFINED
62	153.29	1.05	0.69	2.79	sand	60-70	34-36	29	UNDEFINED
63	175.10	1.50	0.86	2.82	sand	60-70	34-36	34	UNDEFINED
64	192.91	1.61	0.84	2.85	sand	70-80	34-36	37	UNDEFINED
65	179.15	1.45	0.81	2.88	sand	60-70	34-36	34	UNDEFINED
66	183.67	1.47	0.80	2.91	sand	60-70	34-36	35	UNDEFINED
67	177.47	1.41	0.79	2.94	sand	60-70	34-36	34	UNDEFINED
68	169.05	1.24	0.73	2.97	sand	60-70	34-36	32	UNDEFINED
69	203.65	1.26	0.62	3.00	sand	70-80	34-36	39	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-5
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:10:97 10:06
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	25.40	0.71	2.78	0.03	clayey silt to silty clay	UNDFND	UNDFD	12	2.0
2	78.06	0.99	1.27	0.09	sand to silty sand	>90	>48	19	UNDEFINED
3	98.98	1.54	1.55	0.15	silty sand to sandy silt	>90	46-48	32	UNDEFINED
4	115.75	1.72	1.49	0.22	sand to silty sand	>90	46-48	28	UNDEFINED
5	106.99	1.08	1.01	0.28	sand to silty sand	80-90	44-46	26	UNDEFINED
6	66.99	0.62	0.93	0.33	sand to silty sand	70-80	42-44	16	UNDEFINED
7	37.21	0.37	1.00	0.39	silty sand to sandy silt	50-60	36-38	12	UNDEFINED
8	24.63	0.19	0.78	0.45	silty sand to sandy silt	<40	34-36	8	UNDEFINED
9	13.18	0.12	0.94	0.51	sandy silt to clayey silt	UNDFND	UNDFD	5	1.0
10	4.38	0.03	0.61	0.57	sensitive fine grained	UNDFND	UNDFD	2	.3
11	11.60	0.23	1.98	0.63	clayey silt to silty clay	UNDFND	UNDFD	6	.8
12	32.98	0.45	1.36	0.69	silty sand to sandy silt	40-50	32-34	11	UNDEFINED
13	32.82	0.74	2.24	0.75	sandy silt to clayey silt	UNDFND	UNDFD	13	2.5
14	66.79	0.76	1.14	0.81	silty sand to sandy silt	50-60	36-38	21	UNDEFINED
15	68.36	0.75	1.10	0.87	sand to silty sand	50-60	36-38	16	UNDEFINED
16	55.40	0.52	0.94	0.93	silty sand to sandy silt	50-60	34-36	18	UNDEFINED
17	53.04	0.69	1.29	0.98	silty sand to sandy silt	40-50	34-36	17	UNDEFINED
18	197.22	2.63	1.33	1.04	sand to silty sand	80-90	40-42	47	UNDEFINED
19	166.40	2.97	1.78	1.10	sand to silty sand	70-80	40-42	40	UNDEFINED
20	101.67	1.33	1.31	1.16	sand to silty sand	60-70	36-38	24	UNDEFINED
21	37.05	0.39	1.04	1.23	silty sand to sandy silt	<40	30-32	12	UNDEFINED
22	41.74	0.38	0.90	1.29	silty sand to sandy silt	<40	30-32	13	UNDEFINED
23	49.66	0.44	0.90	1.35	silty sand to sandy silt	40-50	30-32	16	UNDEFINED
24	64.05	0.64	1.00	1.41	sand to silty sand	40-50	32-34	15	UNDEFINED
25	170.55	1.84	1.08	1.48	sand	70-80	38-40	33	UNDEFINED
26	164.87	1.45	0.88	1.54	sand	70-80	38-40	32	UNDEFINED
27	205.82	1.94	0.94	1.59	sand	80-90	38-40	39	UNDEFINED
28	169.86	1.27	0.75	1.65	sand	70-80	38-40	33	UNDEFINED
29	133.13	1.09	0.82	1.71	sand	60-70	36-38	26	UNDEFINED
30	124.34	0.87	0.70	1.77	sand	60-70	36-38	24	UNDEFINED
31	118.21	0.78	0.66	1.83	sand	60-70	34-36	23	UNDEFINED
32	105.27	0.72	0.68	1.89	sand to silty sand	50-60	34-36	25	UNDEFINED
33	98.64	0.63	0.64	1.95	sand to silty sand	50-60	32-34	24	UNDEFINED
34	90.38	0.61	0.67	1.99	sand to silty sand	50-60	32-34	22	UNDEFINED
35	80.38	0.47	0.59	2.02	sand to silty sand	50-60	32-34	19	UNDEFINED
36	84.06	0.55	0.65	2.04	sand to silty sand	50-60	32-34	20	UNDEFINED
37	86.78	0.60	0.69	2.07	sand to silty sand	50-60	32-34	21	UNDEFINED
38	91.17	0.60	0.65	2.10	sand to silty sand	50-60	32-34	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : W5-5 Page No. 2

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	88.31	0.63	0.71	2.13	sand to silty sand	50-60	32-34	21	UNDEFINED
40	101.97	0.81	0.79	2.16	sand to silty sand	50-60	32-34	24	UNDEFINED
41	112.13	0.95	0.85	2.19	sand to silty sand	50-60	32-34	27	UNDEFINED
42	102.23	0.62	0.61	2.22	sand	50-60	32-34	20	UNDEFINED
43	115.41	0.67	0.58	2.25	sand	50-60	32-34	22	UNDEFINED
44	105.19	0.77	0.73	2.28	sand to silty sand	50-60	32-34	25	UNDEFINED
45	101.00	0.67	0.66	2.31	sand to silty sand	50-60	32-34	24	UNDEFINED
46	93.22	0.60	0.65	2.34	sand to silty sand	50-60	32-34	22	UNDEFINED
47	100.56	0.65	0.65	2.36	sand to silty sand	50-60	32-34	24	UNDEFINED
48	94.72	0.56	0.59	2.39	sand to silty sand	50-60	32-34	23	UNDEFINED
49	99.68	0.59	0.59	2.42	sand	50-60	32-34	19	UNDEFINED
50	105.18	0.71	0.68	2.45	sand to silty sand	50-60	32-34	25	UNDEFINED
51	101.15	0.66	0.65	2.48	sand to silty sand	50-60	32-34	24	UNDEFINED
52	120.22	0.77	0.64	2.51	sand	50-60	32-34	23	UNDEFINED
53	112.20	0.71	0.63	2.53	sand	50-60	32-34	21	UNDEFINED
54	114.15	0.69	0.60	2.56	sand	50-60	32-34	22	UNDEFINED
55	107.27	0.62	0.58	2.59	sand	50-60	32-34	21	UNDEFINED
56	97.24	0.56	0.57	2.62	sand to silty sand	50-60	30-32	23	UNDEFINED
57	84.46	0.51	0.60	2.65	sand to silty sand	40-50	30-32	20	UNDEFINED
58	87.68	0.54	0.62	2.68	sand to silty sand	40-50	30-32	21	UNDEFINED
59	93.07	0.51	0.55	2.70	sand to silty sand	50-60	30-32	22	UNDEFINED
60	95.66	0.59	0.62	2.73	sand to silty sand	50-60	30-32	23	UNDEFINED
1	111.89	0.57	0.51	2.76	sand	50-60	32-34	21	UNDEFINED
2	114.34	0.93	0.81	2.79	sand to silty sand	50-60	32-34	27	UNDEFINED
63	125.34	1.03	0.82	2.82	sand	50-60	32-34	24	UNDEFINED
64	129.58	0.63	0.49	2.85	sand	50-60	32-34	25	UNDEFINED
65	112.64	0.58	0.51	2.88	sand	50-60	32-34	22	UNDEFINED
66	90.66	0.55	0.61	2.91	sand to silty sand	40-50	30-32	22	UNDEFINED
67	100.32	0.78	0.77	2.94	sand to silty sand	50-60	30-32	24	UNDEFINED
68	100.04	0.63	0.63	2.97	sand to silty sand	50-60	30-32	24	UNDEFINED
69	111.30	0.66	0.60	3.00	sand	50-60	30-32	21	UNDEFINED
70	135.58	0.91	0.67	3.03	sand	50-60	32-34	26	UNDEFINED
71	141.76	1.00	0.71	3.05	sand	60-70	32-34	27	UNDEFINED
72	135.40	0.68	0.50	3.08	sand	50-60	32-34	26	UNDEFINED
73	133.01	0.60	0.45	3.11	sand	50-60	32-34	25	UNDEFINED
74	128.92	0.54	0.42	3.14	sand	50-60	32-34	25	UNDEFINED
75	136.08	0.68	0.50	3.17	sand	50-60	32-34	26	UNDEFINED
76	121.60	0.76	0.63	3.20	sand	50-60	30-32	23	UNDEFINED
77	163.31	1.01	0.62	3.22	sand	60-70	32-34	31	UNDEFINED
78	187.66	1.08	0.58	3.25	sand	60-70	34-36	36	UNDEFINED
79	193.27	1.12	0.58	3.28	sand	60-70	34-36	37	UNDEFINED
80	209.16	1.36	0.65	3.31	sand	70-80	34-36	40	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	223.21	1.36	0.61	3.34	sand	70-80	34-36	43	UNDEFINED
82	226.28	1.35	0.60	3.37	sand	70-80	34-36	43	UNDEFINED
83	253.31	1.48	0.58	3.39	sand	70-80	36-38	49	UNDEFINED
84	265.54	1.82	0.68	3.42	sand	70-80	36-38	>50	UNDEFINED
85	310.46	2.08	0.67	3.46	sand	80-90	36-38	>50	UNDEFINED
86	291.43	1.73	0.59	3.48	gravelly sand to sand	70-80	36-38	47	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : W5-6
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 15:45
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	17.86	0.55	3.10	0.03	clayey silt to silty clay	UNDFND	UNDFD	9	1.4
2	67.91	0.98	1.45	0.09	silty sand to sandy silt	>90	>48	22	UNDEFINED
3	166.48	1.60	0.96	0.15	sand	>90	>48	32	UNDEFINED
4	148.71	1.79	1.20	0.22	sand to silty sand	>90	>48	36	UNDEFINED
5	62.02	0.73	1.18	0.28	silty sand to sandy silt	70-80	42-44	20	UNDEFINED
6	47.77	0.51	1.06	0.33	silty sand to sandy silt	60-70	40-42	15	UNDEFINED
7	74.13	0.67	0.91	0.39	sand to silty sand	70-80	40-42	18	UNDEFINED
8	94.41	1.12	1.18	0.45	sand to silty sand	70-80	42-44	23	UNDEFINED
9	147.67	1.47	1.00	0.51	sand	80-90	44-46	28	UNDEFINED
10	171.07	1.69	0.99	0.57	sand	>90	44-46	33	UNDEFINED
11	153.77	1.64	1.06	0.63	sand	80-90	42-44	29	UNDEFINED
12	139.90	1.50	1.07	0.69	sand to silty sand	80-90	42-44	34	UNDEFINED
13	108.62	1.09	1.00	0.75	sand to silty sand	70-80	40-42	26	UNDEFINED
14	131.19	1.15	0.87	0.81	sand	70-80	40-42	25	UNDEFINED
15	131.51	1.32	1.01	0.87	sand to silty sand	70-80	40-42	31	UNDEFINED
16	78.77	0.88	1.12	0.93	sand to silty sand	60-70	36-38	19	UNDEFINED
17	46.39	0.47	1.01	0.98	silty sand to sandy silt	40-50	32-34	15	UNDEFINED
18	44.47	0.38	0.85	1.04	silty sand to sandy silt	40-50	32-34	14	UNDEFINED
19	47.70	0.54	1.13	1.10	silty sand to sandy silt	40-50	32-34	15	UNDEFINED
20	36.40	0.92	2.53	1.16	sandy silt to clayey silt	UNDFND	UNDFD	14	2.8
21	24.56	0.31	1.26	1.23	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
22	84.79	0.59	0.70	1.29	sand to silty sand	50-60	34-36	20	UNDEFINED
23	99.09	1.19	1.20	1.35	sand to silty sand	60-70	36-38	24	UNDEFINED
24	136.58	1.08	0.79	1.41	sand	70-80	38-40	26	UNDEFINED
25	250.54	0.77	0.31	1.48	gravelly sand to sand	80-90	40-42	40	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : W5-6A
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:09:97 16:00
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	14.73	1.02	6.95	0.03	clay	UNDFND	UNDFD	14	1.1
2	52.61	1.39	2.64	0.09	sandy silt to clayey silt	UNDFND	UNDFD	20	4.2
3	175.64	2.14	1.22	0.15	sand to silty sand	>90	>48	42	UNDEFINED
4	118.39	1.66	1.40	0.22	sand to silty sand	>90	46-48	28	UNDEFINED
5	50.66	0.75	1.47	0.28	silty sand to sandy silt	60-70	40-42	16	UNDEFINED
6	46.72	0.66	1.40	0.33	silty sand to sandy silt	60-70	40-42	15	UNDEFINED
7	85.69	1.05	1.23	0.39	sand to silty sand	70-80	42-44	21	UNDEFINED
8	58.33	0.88	1.51	0.45	silty sand to sandy silt	60-70	38-40	19	UNDEFINED
9	49.29	1.00	2.03	0.51	sandy silt to clayey silt	UNDFND	UNDFD	19	3.9
10	110.40	1.31	1.19	0.57	sand to silty sand	70-80	40-42	26	UNDEFINED
11	109.40	1.46	1.33	0.63	sand to silty sand	70-80	40-42	26	UNDEFINED
12	127.35	1.54	1.21	0.69	sand to silty sand	70-80	40-42	30	UNDEFINED
13	69.91	1.33	1.90	0.75	silty sand to sandy silt	60-70	36-38	22	UNDEFINED
14	95.63	1.27	1.32	0.81	sand to silty sand	60-70	38-40	23	UNDEFINED
15	87.54	1.12	1.28	0.87	sand to silty sand	60-70	38-40	21	UNDEFINED
16	13.72	0.39	2.84	0.93	clayey silt to silty clay	UNDFND	UNDFD	7	1.0
17	2.59	0.17	6.43	0.98	organic material	UNDFND	UNDFD	2	.1
18	11.85	0.28	2.32	1.04	clayey silt to silty clay	UNDFND	UNDFD	6	.8
19	32.20	0.62	1.94	1.10	sandy silt to clayey silt	UNDFND	UNDFD	12	2.4
20	21.88	0.80	3.67	1.16	silty clay to clay	UNDFND	UNDFD	14	1.6
21	28.90	0.61	2.11	1.23	sandy silt to clayey silt	UNDFND	UNDFD	11	2.2
22	72.44	0.86	1.19	1.29	sand to silty sand	50-60	34-36	17	UNDEFINED
23	187.56	1.88	1.00	1.35	sand	80-90	40-42	36	UNDEFINED
24	341.15	2.33	0.68	1.41	gravelly sand to sand	>90	42-44	>50	UNDEFINED
25	340.13	2.34	0.69	1.48	gravelly sand to sand	>90	42-44	>50	UNDEFINED
26	381.90	3.29	0.86	1.54	sand	>90	42-44	>50	UNDEFINED
27	241.92	2.69	1.11	1.59	sand	80-90	40-42	46	UNDEFINED
28	196.43	1.91	0.97	1.65	sand	70-80	38-40	38	UNDEFINED
29	166.75	1.36	0.82	1.71	sand	70-80	38-40	32	UNDEFINED
30	154.65	1.26	0.81	1.77	sand	70-80	36-38	30	UNDEFINED
31	147.63	1.26	0.85	1.83	sand	60-70	36-38	28	UNDEFINED
32	130.53	0.90	0.69	1.89	sand	60-70	34-36	25	UNDEFINED
33	114.85	0.84	0.73	1.95	sand	60-70	34-36	22	UNDEFINED
34	102.56	0.76	0.74	1.99	sand to silty sand	50-60	32-34	25	UNDEFINED
35	105.64	0.78	0.74	2.02	sand to silty sand	50-60	34-36	25	UNDEFINED
36	106.66	0.82	0.76	2.04	sand to silty sand	50-60	34-36	26	UNDEFINED
37	103.47	0.79	0.76	2.07	sand to silty sand	50-60	32-34	25	UNDEFINED
38	105.54	0.76	0.72	2.10	sand to silty sand	50-60	32-34	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	100.98	0.78	0.78	2.13	sand to silty sand	50-60	32-34	24	UNDEFINED
40	107.30	0.82	0.76	2.16	sand to silty sand	50-60	32-34	26	UNDEFINED
41	104.84	0.84	0.80	2.19	sand to silty sand	50-60	32-34	25	UNDEFINED
42	121.71	0.94	0.78	2.22	sand	60-70	34-36	23	UNDEFINED
43	124.27	0.97	0.78	2.25	sand	60-70	34-36	24	UNDEFINED
44	127.19	0.96	0.76	2.28	sand	60-70	34-36	24	UNDEFINED
45	137.71	1.07	0.78	2.31	sand	60-70	34-36	26	UNDEFINED
46	130.91	1.19	0.91	2.34	sand	60-70	34-36	25	UNDEFINED
47	149.43	1.07	0.71	2.36	sand	60-70	34-36	29	UNDEFINED
48	134.91	0.91	0.67	2.39	sand	60-70	34-36	26	UNDEFINED
49	133.24	1.09	0.82	2.42	sand	60-70	34-36	26	UNDEFINED
50	133.95	1.12	0.84	2.45	sand	60-70	34-36	26	UNDEFINED
51	145.30	1.14	0.78	2.48	sand	60-70	34-36	28	UNDEFINED
52	152.83	1.12	0.73	2.51	sand	60-70	34-36	29	UNDEFINED
53	150.34	1.08	0.72	2.53	sand	60-70	34-36	29	UNDEFINED
54	146.42	1.13	0.77	2.56	sand	60-70	34-36	28	UNDEFINED
55	152.04	1.17	0.77	2.59	sand	60-70	34-36	29	UNDEFINED
56	175.87	1.39	0.79	2.62	sand	60-70	34-36	34	UNDEFINED
57	179.02	1.35	0.75	2.65	sand	60-70	34-36	34	UNDEFINED
58	175.21	1.16	0.66	2.68	sand	60-70	34-36	34	UNDEFINED
59	189.52	1.02	0.54	2.70	sand	70-80	36-38	36	UNDEFINED
60	191.91	1.18	0.61	2.73	sand	70-80	36-38	37	UNDEFINED
1	169.62	1.05	0.62	2.76	sand	60-70	34-36	32	UNDEFINED
2	164.58	1.09	0.66	2.79	sand	60-70	34-36	32	UNDEFINED
63	191.56	1.44	0.75	2.82	sand	70-80	34-36	37	UNDEFINED
64	200.74	1.50	0.74	2.85	sand	70-80	36-38	38	UNDEFINED
65	210.38	1.34	0.64	2.88	sand	70-80	36-38	40	UNDEFINED
66	233.70	1.52	0.65	2.91	sand	70-80	36-38	45	UNDEFINED
67	240.99	1.74	0.72	2.94	sand	70-80	36-38	46	UNDEFINED
68	239.11	1.79	0.75	2.97	sand	70-80	36-38	46	UNDEFINED
69	249.61	1.74	0.70	3.00	sand	70-80	36-38	48	UNDEFINED
70	272.40	1.86	0.68	3.03	sand	70-80	36-38	>50	UNDEFINED
71	287.85	1.97	0.69	3.05	sand	80-90	36-38	>50	UNDEFINED
72	291.14	1.80	0.62	3.08	sand	80-90	36-38	>50	UNDEFINED
73	282.98	1.88	0.67	3.11	sand	80-90	36-38	>50	UNDEFINED
74	284.74	1.92	0.68	3.14	sand	80-90	36-38	>50	UNDEFINED
75	266.04	1.99	0.75	3.17	sand	70-80	36-38	>50	UNDEFINED
76	247.83	1.75	0.71	3.20	sand	70-80	36-38	47	UNDEFINED
77	222.74	1.65	0.74	3.22	sand	70-80	34-36	43	UNDEFINED
78	212.04	1.19	0.56	3.25	sand	70-80	34-36	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 10:22
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	44.27	0.43	0.96	0.03	silty sand to sandy silt	>90	>48	14	UNDEFINED
2	49.70	1.58	3.19	0.09	sandy silt to clayey silt	UNDFND	UNDFD	19	3.9
3	30.39	1.20	3.93	0.15	clayey silt to silty clay	UNDFND	UNDFD	15	2.4
4	64.98	1.68	2.59	0.22	sandy silt to clayey silt	UNDFND	UNDFD	25	5.1
5	38.54	0.32	0.83	0.28	silty sand to sandy silt	50-60	40-42	12	UNDEFINED
6	44.47	0.43	0.97	0.33	silty sand to sandy silt	50-60	38-40	14	UNDEFINED
7	162.99	1.19	0.73	0.39	sand	>90	44-46	31	UNDEFINED
8	186.75	1.09	0.58	0.45	sand	>90	44-46	36	UNDEFINED
9	149.51	0.93	0.62	0.51	sand	80-90	44-46	29	UNDEFINED
10	171.36	0.89	0.52	0.57	sand	>90	44-46	33	UNDEFINED
11	165.13	0.82	0.49	0.63	sand	80-90	42-44	32	UNDEFINED
12	240.12	1.29	0.54	0.69	sand	>90	44-46	46	UNDEFINED
13	192.45	1.06	0.55	0.75	sand	80-90	42-44	37	UNDEFINED
14	122.94	0.59	0.48	0.81	sand	70-80	40-42	24	UNDEFINED
15	167.47	0.89	0.53	0.87	sand	80-90	40-42	32	UNDEFINED
16	220.49	1.90	0.86	0.93	sand	>90	42-44	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-1
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:02:97 09:51
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	18.89	0.20	1.04	0.03	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5
2	146.07	0.91	0.62	0.09	sand	>90	>48	28	UNDEFINED
3	199.99	2.11	1.05	0.15	sand	>90	>48	38	UNDEFINED
4	122.06	1.20	0.98	0.22	sand to silty sand	>90	46-48	29	UNDEFINED
5	55.45	0.45	0.82	0.28	sand to silty sand	60-70	42-44	13	UNDEFINED
6	29.48	0.38	1.28	0.33	silty sand to sandy silt	40-50	36-38	9	UNDEFINED
7	131.73	1.51	1.14	0.39	sand to silty sand	80-90	44-46	32	UNDEFINED
8	75.61	1.03	1.36	0.45	silty sand to sandy silt	70-80	40-42	24	UNDEFINED
9	20.01	0.66	3.32	0.51	clayey silt to silty clay	UNDFND	UNDFD	10	1.5
10	100.64	0.42	0.42	0.57	sand	70-80	40-42	19	UNDEFINED
11	187.51	0.84	0.45	0.63	sand	>90	44-46	36	UNDEFINED
12	216.25	0.94	0.43	0.69	sand	>90	44-46	41	UNDEFINED
13	219.43	1.06	0.49	0.75	sand	>90	44-46	42	UNDEFINED
14	240.39	1.28	0.53	0.81	sand	>90	44-46	46	UNDEFINED
15	233.27	1.04	0.45	0.87	sand	>90	42-44	45	UNDEFINED
16	168.98	0.80	0.47	0.93	sand	80-90	40-42	32	UNDEFINED
17	140.65	0.70	0.50	0.98	sand	70-80	40-42	27	UNDEFINED
18	165.38	0.82	0.49	1.04	sand	80-90	40-42	32	UNDEFINED
19	131.76	0.53	0.40	1.10	sand	70-80	38-40	25	UNDEFINED
20	157.42	0.87	0.55	1.16	sand	70-80	40-42	30	UNDEFINED
21	186.57	0.85	0.45	1.23	sand	80-90	40-42	36	UNDEFINED
22	193.56	0.89	0.46	1.29	sand	80-90	40-42	37	UNDEFINED
23	223.24	1.40	0.63	1.35	sand	80-90	40-42	43	UNDEFINED
24	190.56	0.85	0.45	1.41	sand	80-90	38-40	37	UNDEFINED
25	156.51	0.72	0.46	1.48	sand	70-80	38-40	30	UNDEFINED
26	155.42	0.80	0.52	1.54	sand	70-80	38-40	30	UNDEFINED
27	184.20	0.79	0.43	1.59	sand	70-80	38-40	35	UNDEFINED
28	183.85	1.52	0.83	1.65	sand	70-80	38-40	35	UNDEFINED
29	213.39	2.57	1.20	1.71	sand	80-90	38-40	41	UNDEFINED
30	210.27	1.81	0.86	1.77	sand	70-80	38-40	40	UNDEFINED
31	201.00	1.68	0.84	1.83	sand	70-80	38-40	39	UNDEFINED
32	188.40	1.50	0.80	1.89	sand	70-80	38-40	36	UNDEFINED
33	182.27	1.43	0.78	1.95	sand	70-80	36-38	35	UNDEFINED
34	163.87	0.84	0.51	1.99	sand	70-80	36-38	31	UNDEFINED
35	173.07	0.58	0.33	2.02	sand	70-80	36-38	33	UNDEFINED
36	173.40	1.10	0.63	2.04	sand	70-80	36-38	33	UNDEFINED
37	192.32	0.93	0.48	2.07	sand	70-80	36-38	37	UNDEFINED
38	230.19	1.77	0.77	2.10	sand	70-80	38-40	44	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : HW-1

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	268.04	1.86	0.69	2.13	sand	80-90	38-40	>50	UNDEFINED
40	358.45	2.81	0.78	2.16	sand	>90	40-42	>50	UNDEFINED
41	366.88	2.51	0.68	2.19	gravelly sand to sand	>90	40-42	>50	UNDEFINED
42	278.16	1.40	0.50	2.22	gravelly sand to sand	80-90	38-40	44	UNDEFINED
43	154.22	0.41	0.26	2.25	sand	60-70	34-36	30	UNDEFINED
44	143.54	0.59	0.41	2.28	sand	60-70	34-36	27	UNDEFINED
45	165.08	0.66	0.40	2.31	sand	60-70	36-38	32	UNDEFINED
46	198.96	0.92	0.46	2.34	sand	70-80	36-38	38	UNDEFINED
47	210.06	1.09	0.52	2.36	sand	70-80	36-38	40	UNDEFINED
48	196.08	0.65	0.33	2.39	sand	70-80	36-38	38	UNDEFINED
49	172.22	0.49	0.29	2.42	sand	60-70	36-38	33	UNDEFINED
50	164.29	0.49	0.30	2.45	sand	60-70	34-36	31	UNDEFINED
51	167.23	0.63	0.38	2.48	sand	60-70	34-36	32	UNDEFINED
52	168.19	0.60	0.36	2.51	sand	60-70	34-36	32	UNDEFINED
53	184.70	1.75	0.95	2.53	sand	70-80	36-38	35	UNDEFINED
54	171.36	0.71	0.41	2.56	sand	60-70	34-36	33	UNDEFINED
55	172.86	0.55	0.32	2.59	sand	60-70	34-36	33	UNDEFINED
56	156.75	0.65	0.42	2.62	sand	60-70	34-36	30	UNDEFINED
57	175.03	0.85	0.48	2.65	sand	60-70	34-36	34	UNDEFINED
58	181.78	0.92	0.50	2.68	sand	60-70	34-36	35	UNDEFINED
59	173.95	0.81	0.47	2.70	sand	60-70	34-36	33	UNDEFINED
60	143.79	0.60	0.42	2.73	sand	60-70	34-36	28	UNDEFINED
61	133.87	0.65	0.48	2.76	sand	60-70	32-34	26	UNDEFINED
62	162.22	1.24	0.77	2.79	sand	60-70	34-36	31	UNDEFINED
63	177.96	0.84	0.47	2.82	sand	60-70	34-36	34	UNDEFINED
64	163.72	0.60	0.37	2.85	sand	60-70	34-36	31	UNDEFINED
65	146.86	1.05	0.72	2.88	sand	60-70	32-34	28	UNDEFINED
66	171.47	2.54	1.48	2.91	sand to silty sand	60-70	34-36	41	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-2
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 10:42
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	35.11	0.24	0.67	0.03	silty sand to sandy silt	80-90	>48	11	UNDEFINED
2	96.29	0.48	0.50	0.09	sand	>90	>48	18	UNDEFINED
3	97.22	1.09	1.13	0.15	sand to silty sand	>90	46-48	23	UNDEFINED
4	172.22	1.63	0.94	0.22	sand	>90	>48	33	UNDEFINED
5	160.79	1.88	1.17	0.28	sand to silty sand	>90	46-48	39	UNDEFINED
6	41.17	1.12	2.72	0.33	sandy silt to clayey silt	UNDFND	UNDFD	16	3.2
7	11.57	0.32	2.80	0.39	silty clay to clay	UNDFND	UNDFD	7	.8
8	22.99	0.29	1.25	0.45	sandy silt to clayey silt	UNDFND	UNDFD	9	1.8
9	23.89	0.17	0.70	0.51	silty sand to sandy silt	<40	32-34	8	UNDEFINED
10	32.68	0.32	0.97	0.57	silty sand to sandy silt	40-50	34-36	10	UNDEFINED
11	36.69	0.50	1.37	0.63	silty sand to sandy silt	40-50	34-36	12	UNDEFINED
12	14.64	0.48	3.27	0.69	silty clay to clay	UNDFND	UNDFD	9	1.1
13	157.34	2.49	1.58	0.75	sand to silty sand	80-90	42-44	38	UNDEFINED
14	179.69	3.63	2.02	0.81	silty sand to sandy silt	80-90	42-44	>50	UNDEFINED
15	160.10	3.28	2.05	0.87	silty sand to sandy silt	80-90	40-42	>50	UNDEFINED
16	68.59	1.60	2.33	0.93	sandy silt to clayey silt	UNDFND	UNDFD	26	5.4
17	108.18	1.67	1.55	0.98	sand to silty sand	60-70	38-40	26	UNDEFINED
18	81.75	1.42	1.73	1.04	silty sand to sandy silt	60-70	36-38	26	UNDEFINED
19	169.42	2.08	1.23	1.10	sand to silty sand	80-90	40-42	41	UNDEFINED
20	72.72	1.68	2.31	1.16	silty sand to sandy silt	50-60	34-36	23	UNDEFINED
21	87.17	0.92	1.05	1.23	sand to silty sand	50-60	36-38	21	UNDEFINED
22	93.77	0.69	0.73	1.29	sand to silty sand	60-70	36-38	22	UNDEFINED
23	142.63	0.88	0.62	1.35	sand	70-80	38-40	27	UNDEFINED
24	325.32	1.81	0.56	1.41	gravelly sand to sand	>90	42-44	>50	UNDEFINED
25	449.80	3.24	0.72	1.48	gravelly sand to sand	>90	44-46	>50	UNDEFINED
26	325.26	2.39	0.73	1.54	sand	>90	42-44	>50	UNDEFINED
27	252.51	2.37	0.94	1.59	sand	80-90	40-42	48	UNDEFINED
28	173.07	2.94	1.70	1.65	sand to silty sand	70-80	38-40	41	UNDEFINED
29	96.40	0.53	0.55	1.71	sand	50-60	34-36	18	UNDEFINED
30	90.64	0.48	0.53	1.77	sand to silty sand	50-60	32-34	22	UNDEFINED
31	98.21	0.50	0.51	1.83	sand	50-60	34-36	19	UNDEFINED
32	91.56	0.37	0.40	1.89	sand	50-60	32-34	18	UNDEFINED
33	117.68	0.39	0.33	1.95	sand	60-70	34-36	23	UNDEFINED
34	91.87	0.31	0.34	1.99	sand	50-60	32-34	18	UNDEFINED
35	115.89	0.51	0.44	2.02	sand	60-70	34-36	22	UNDEFINED
36	108.78	0.46	0.43	2.04	sand	50-60	34-36	21	UNDEFINED
37	137.41	0.73	0.53	2.07	sand	60-70	34-36	26	UNDEFINED
38	105.86	0.54	0.51	2.10	sand	50-60	32-34	20	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : HW-2

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	59.82	0.25	0.42	2.13	sand to silty sand	40-50	<30	14	UNDEFINED
40	55.91	0.17	0.31	2.16	sand to silty sand	<40	<30	13	UNDEFINED
41	120.68	0.75	0.62	2.19	sand	60-70	34-36	23	UNDEFINED
42	286.03	3.53	1.24	2.22	sand	80-90	38-40	>50	UNDEFINED
43	263.82	3.25	1.23	2.25	sand	80-90	38-40	>50	UNDEFINED
44	126.87	0.66	0.52	2.28	sand	60-70	34-36	24	UNDEFINED
45	119.01	0.73	0.62	2.31	sand	50-60	32-34	23	UNDEFINED
46	167.62	1.16	0.69	2.34	sand	60-70	36-38	32	UNDEFINED
47	175.51	1.33	0.76	2.36	sand	70-80	36-38	34	UNDEFINED
48	172.29	1.31	0.76	2.39	sand	60-70	36-38	33	UNDEFINED
49	170.73	1.13	0.66	2.42	sand	60-70	36-38	33	UNDEFINED
50	161.23	0.99	0.62	2.45	sand	60-70	34-36	31	UNDEFINED
51	161.46	0.95	0.59	2.48	sand	60-70	34-36	31	UNDEFINED
52	170.85	1.16	0.68	2.51	sand	60-70	34-36	33	UNDEFINED
53	190.44	1.31	0.69	2.53	sand	70-80	36-38	36	UNDEFINED
54	189.21	1.29	0.68	2.56	sand	70-80	36-38	36	UNDEFINED
55	189.76	1.22	0.64	2.59	sand	70-80	36-38	36	UNDEFINED
56	183.77	1.32	0.72	2.62	sand	70-80	36-38	35	UNDEFINED
57	178.50	1.29	0.72	2.65	sand	60-70	34-36	34	UNDEFINED
58	177.82	1.11	0.63	2.68	sand	60-70	34-36	34	UNDEFINED
59	184.07	1.16	0.63	2.70	sand	60-70	34-36	35	UNDEFINED
60	187.49	1.28	0.69	2.73	sand	70-80	34-36	36	UNDEFINED
1	184.93	1.32	0.71	2.76	sand	60-70	34-36	35	UNDEFINED
2	235.14	2.38	1.01	2.79	sand	70-80	36-38	45	UNDEFINED
63	219.03	2.31	1.06	2.82	sand	70-80	36-38	42	UNDEFINED
64	198.60	1.35	0.68	2.85	sand	70-80	34-36	38	UNDEFINED
65	198.72	1.13	0.57	2.88	sand	70-80	34-36	38	UNDEFINED
66	208.41	1.41	0.68	2.91	sand	70-80	36-38	40	UNDEFINED
67	242.40	1.65	0.68	2.94	sand	70-80	36-38	46	UNDEFINED
68	255.99	1.86	0.73	2.97	sand	70-80	36-38	49	UNDEFINED
69	297.68	2.08	0.70	3.00	sand	80-90	38-40	>50	UNDEFINED
70	304.72	1.96	0.64	3.03	gravelly sand to sand	80-90	38-40	49	UNDEFINED
71	291.47	1.51	0.52	3.05	gravelly sand to sand	80-90	36-38	47	UNDEFINED
72	300.98	2.47	0.82	3.08	sand	80-90	38-40	>50	UNDEFINED
73	270.75	1.56	0.58	3.11	sand	70-80	36-38	>50	UNDEFINED
74	268.01	2.20	0.82	3.14	sand	70-80	36-38	>50	UNDEFINED
75	259.68	2.13	0.82	3.17	sand	70-80	36-38	50	UNDEFINED
76	301.68	2.24	0.74	3.20	sand	80-90	36-38	>50	UNDEFINED
77	288.90	2.46	0.85	3.22	sand	80-90	36-38	>50	UNDEFINED
78	268.08	2.07	0.77	3.25	sand	70-80	36-38	>50	UNDEFINED
79	278.07	2.64	0.95	3.28	sand	70-80	36-38	>50	UNDEFINED
80	287.85	2.74	0.95	3.31	sand	70-80	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	306.35	2.97	0.97	3.34	sand	80-90	36-38	>50	UNDEFINED
82	323.94	2.37	0.73	3.37	sand	80-90	36-38	>50	UNDEFINED
83	313.83	1.80	0.57	3.39	gravelly sand to sand	80-90	36-38	>50	UNDEFINED
84	269.01	1.52	0.57	3.42	sand	70-80	36-38	>50	UNDEFINED
85	288.96	1.94	0.67	3.46	sand	70-80	36-38	>50	UNDEFINED
86	303.52	2.89	0.95	3.48	sand	80-90	36-38	>50	UNDEFINED
87	333.50	2.38	0.71	3.51	gravelly sand to sand	80-90	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 13:06
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	35.54	0.32	0.90	0.03	silty sand to sandy silt	80-90	>48	11	UNDEFINED
2	94.35	0.52	0.55	0.09	sand to silty sand	>90	>48	23	UNDEFINED
3	119.10	0.83	0.69	0.15	sand	>90	>48	23	UNDEFINED
4	108.77	1.41	1.30	0.22	sand to silty sand	>90	46-48	26	UNDEFINED
5	59.61	1.31	2.20	0.28	sandy silt to clayey silt	UNDFND	UNDFD	23	4.7
6	26.68	0.44	1.65	0.33	sandy silt to clayey silt	UNDFND	UNDFD	10	2.1
7	27.56	0.52	1.90	0.39	sandy silt to clayey silt	UNDFND	UNDFD	11	2.1
8	28.94	0.21	0.72	0.45	silty sand to sandy silt	40-50	34-36	9	UNDEFINED
9	28.10	0.26	0.93	0.51	silty sand to sandy silt	<40	34-36	9	UNDEFINED
10	12.66	0.18	1.42	0.57	sandy silt to clayey silt	UNDFND	UNDFD	5	.9
11	11.05	0.16	1.45	0.63	clayey silt to silty clay	UNDFND	UNDFD	5	.8
12	13.54	0.29	2.14	0.69	clayey silt to silty clay	UNDFND	UNDFD	6	1.0
13	11.45	0.20	1.73	0.75	clayey silt to silty clay	UNDFND	UNDFD	5	.8
14	28.46	0.28	0.98	0.81	silty sand to sandy silt	<40	30-32	9	UNDEFINED
15	40.45	0.69	1.69	0.87	silty sand to sandy silt	40-50	32-34	13	UNDEFINED
16	23.80	0.70	2.96	0.93	clayey silt to silty clay	UNDFND	UNDFD	11	1.8
17	31.89	0.67	2.11	0.98	sandy silt to clayey silt	UNDFND	UNDFD	12	2.4
18	15.95	0.34	2.10	1.04	clayey silt to silty clay	UNDFND	UNDFD	8	1.1
19	9.95	0.24	2.43	1.10	clayey silt to silty clay	UNDFND	UNDFD	5	.7
20	140.49	1.50	1.07	1.16	sand to silty sand	70-80	38-40	34	UNDEFINED
21	220.75	3.07	1.39	1.23	sand to silty sand	80-90	40-42	>50	UNDEFINED
22	179.47	1.64	0.91	1.29	sand	70-80	40-42	34	UNDEFINED
23	122.27	1.03	0.84	1.35	sand	60-70	36-38	23	UNDEFINED
24	248.40	1.85	0.74	1.41	sand	80-90	40-42	48	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 13:30
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	22.02	0.42	1.92	0.03	sandy silt to clayey silt	UNDFND	UNDFD	8	1.7
2	76.98	0.45	0.59	0.09	sand to silty sand	>90	>48	18	UNDEFINED
3	110.69	1.03	0.93	0.15	sand to silty sand	>90	>48	27	UNDEFINED
4	75.72	1.45	1.91	0.22	silty sand to sandy silt	80-90	44-46	24	UNDEFINED
5	79.98	0.95	1.19	0.28	sand to silty sand	70-80	44-46	19	UNDEFINED
6	45.90	0.67	1.46	0.33	silty sand to sandy silt	60-70	40-42	15	UNDEFINED
7	20.76	0.52	2.50	0.39	clayey silt to silty clay	UNDFND	UNDFD	10	1.6
8	34.89	0.21	0.59	0.45	silty sand to sandy silt	40-50	36-38	11	UNDEFINED
9	28.28	0.23	0.82	0.51	silty sand to sandy silt	40-50	34-36	9	UNDEFINED
10	36.34	0.29	0.78	0.57	silty sand to sandy silt	40-50	34-36	12	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor : GREGG
Location : HW-3
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 13:47
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	8.23	0.32	3.91	0.03	clay	UNDFND	UNDFD	8	.6
2	75.00	0.72	0.96	0.09	sand to silty sand	>90	>48	18	UNDEFINED
3	125.88	1.06	0.84	0.15	sand	>90	>48	24	UNDEFINED
4	138.63	1.17	0.84	0.22	sand	>90	46-48	27	UNDEFINED
5	100.68	1.42	1.41	0.28	sand to silty sand	80-90	44-46	24	UNDEFINED
6	121.97	2.43	1.99	0.33	silty sand to sandy silt	80-90	44-46	39	UNDEFINED
7	41.20	1.74	4.22	0.39	silty clay to clay	UNDFND	UNDFD	26	3.2
8	18.84	0.33	1.74	0.45	sandy silt to clayey silt	UNDFND	UNDFD	7	1.4
9	14.91	0.17	1.15	0.51	sandy silt to clayey silt	UNDFND	UNDFD	6	1.1
10	38.25	0.83	2.16	0.57	sandy silt to clayey silt	UNDFND	UNDFD	15	3.0
11	16.60	0.24	1.44	0.63	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
12	12.37	0.10	0.84	0.69	sandy silt to clayey silt	UNDFND	UNDFD	5	.9
13	16.56	0.14	0.86	0.75	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
14	16.24	0.26	1.60	0.81	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
15	9.31	0.19	2.02	0.87	clayey silt to silty clay	UNDFND	UNDFD	4	.6
16	13.04	0.32	2.42	0.93	clayey silt to silty clay	UNDFND	UNDFD	6	.9
17	16.37	0.31	1.92	0.98	clayey silt to silty clay	UNDFND	UNDFD	8	1.2
18	23.36	0.40	1.71	1.04	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
19	16.16	0.31	1.89	1.10	sandy silt to clayey silt	UNDFND	UNDFD	6	1.2
20	52.58	0.61	1.15	1.16	silty sand to sandy silt	40-50	32-34	17	UNDEFINED
21	38.95	1.50	3.84	1.23	clayey silt to silty clay	UNDFND	UNDFD	19	3.0
22	68.49	0.61	0.89	1.29	sand to silty sand	50-60	34-36	16	UNDEFINED
23	80.39	0.63	0.78	1.35	sand to silty sand	50-60	34-36	19	UNDEFINED
24	78.46	0.70	0.89	1.41	sand to silty sand	50-60	34-36	19	UNDEFINED
25	126.41	0.88	0.70	1.48	sand	60-70	36-38	24	UNDEFINED
26	164.71	1.21	0.74	1.54	sand	70-80	38-40	32	UNDEFINED
27	138.38	1.14	0.82	1.59	sand	60-70	36-38	27	UNDEFINED
28	103.34	0.67	0.65	1.65	sand to silty sand	60-70	34-36	25	UNDEFINED
29	107.60	0.76	0.71	1.71	sand to silty sand	60-70	34-36	26	UNDEFINED
30	127.39	0.95	0.75	1.77	sand	60-70	36-38	24	UNDEFINED
31	109.62	0.77	0.70	1.83	sand	60-70	34-36	21	UNDEFINED
32	91.00	0.65	0.71	1.89	sand to silty sand	50-60	32-34	22	UNDEFINED
33	183.52	2.21	1.21	1.95	sand	70-80	36-38	35	UNDEFINED
34	228.31	2.76	1.21	1.99	sand	80-90	38-40	44	UNDEFINED
35	195.29	0.88	0.45	2.02	sand	70-80	38-40	37	UNDEFINED
36	246.24	1.36	0.55	2.04	sand	80-90	38-40	47	UNDEFINED
37	198.35	0.78	0.39	2.07	sand	70-80	36-38	38	UNDEFINED
38	136.07	0.58	0.43	2.10	sand	60-70	34-36	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : HW-3 Page No. 2

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	130.75	0.79	0.61	2.13	sand	60-70	34-36	25	UNDEFINED
40	136.86	0.85	0.62	2.16	sand	60-70	34-36	26	UNDEFINED
41	106.90	0.69	0.65	2.19	sand	50-60	32-34	20	UNDEFINED
42	95.43	0.53	0.56	2.22	sand to silty sand	50-60	32-34	23	UNDEFINED
43	91.67	0.46	0.50	2.25	sand to silty sand	50-60	32-34	22	UNDEFINED
44	101.61	0.46	0.45	2.28	sand	50-60	32-34	19	UNDEFINED
45	99.46	0.48	0.49	2.31	sand	50-60	32-34	19	UNDEFINED
46	116.52	0.59	0.51	2.34	sand	50-60	32-34	22	UNDEFINED
47	126.68	0.68	0.54	2.36	sand	60-70	34-36	24	UNDEFINED
48	143.97	0.98	0.68	2.39	sand	60-70	34-36	28	UNDEFINED
49	158.24	0.95	0.60	2.42	sand	60-70	34-36	30	UNDEFINED
50	144.83	0.73	0.50	2.45	sand	60-70	34-36	28	UNDEFINED
51	152.87	0.95	0.62	2.48	sand	60-70	34-36	29	UNDEFINED
52	193.30	1.07	0.55	2.51	sand	70-80	36-38	37	UNDEFINED
53	174.36	1.13	0.65	2.53	sand	60-70	34-36	33	UNDEFINED
54	159.07	0.89	0.56	2.56	sand	60-70	34-36	30	UNDEFINED
55	135.73	0.92	0.68	2.59	sand	60-70	34-36	26	UNDEFINED
56	144.30	1.12	0.77	2.62	sand	60-70	34-36	28	UNDEFINED
57	161.86	0.91	0.57	2.65	sand	60-70	34-36	31	UNDEFINED
58	119.85	0.48	0.40	2.68	sand	50-60	32-34	23	UNDEFINED
59	136.17	0.71	0.52	2.70	sand	60-70	32-34	26	UNDEFINED
60	137.73	0.79	0.57	2.73	sand	60-70	32-34	26	UNDEFINED
61	137.01	0.78	0.57	2.76	sand	60-70	32-34	26	UNDEFINED
62	139.38	0.71	0.51	2.79	sand	60-70	32-34	27	UNDEFINED
63	125.10	0.56	0.45	2.82	sand	50-60	32-34	24	UNDEFINED
64	114.75	0.66	0.58	2.85	sand	50-60	32-34	22	UNDEFINED
65	124.86	0.72	0.58	2.88	sand	50-60	32-34	24	UNDEFINED
66	129.26	0.70	0.54	2.91	sand	50-60	32-34	25	UNDEFINED
67	132.42	0.68	0.51	2.94	sand	50-60	32-34	25	UNDEFINED
68	136.90	0.70	0.51	2.97	sand	60-70	32-34	26	UNDEFINED
69	131.90	0.75	0.57	3.00	sand	50-60	32-34	25	UNDEFINED
70	155.74	0.89	0.57	3.03	sand	60-70	32-34	30	UNDEFINED
71	168.82	1.58	0.93	3.05	sand	60-70	34-36	32	UNDEFINED
72	170.09	0.99	0.58	3.08	sand	60-70	34-36	33	UNDEFINED
73	144.88	0.64	0.44	3.11	sand	60-70	32-34	28	UNDEFINED
74	139.30	0.69	0.49	3.14	sand	50-60	32-34	27	UNDEFINED
75	151.54	0.93	0.61	3.17	sand	60-70	32-34	29	UNDEFINED
76	163.88	1.11	0.68	3.20	sand	60-70	32-34	31	UNDEFINED
77	152.50	1.03	0.68	3.22	sand	60-70	32-34	29	UNDEFINED
78	141.91	0.94	0.66	3.25	sand	50-60	32-34	27	UNDEFINED
79	201.77	1.63	0.81	3.28	sand	60-70	34-36	39	UNDEFINED
80	221.30	1.66	0.75	3.31	sand	70-80	34-36	42	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02)

Contractor :GREGG Location : HW-3 Page No. 3

PTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
81	181.02	0.90	0.50	3.34	sand	60-70	34-36	35	UNDEFINED
82	166.14	0.80	0.48	3.37	sand	60-70	32-34	32	UNDEFINED
83	187.51	1.05	0.56	3.39	sand	60-70	34-36	36	UNDEFINED
84	233.55	1.28	0.55	3.42	sand	70-80	34-36	45	UNDEFINED
85	261.63	1.79	0.68	3.46	sand	70-80	36-38	>50	UNDEFINED
86	301.52	2.41	0.80	3.48	sand	80-90	36-38	>50	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-4
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 09:39
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	31.63	0.45	1.41	0.03	silty sand to sandy silt	80-90	>48	10	UNDEFINED
2	65.03	0.58	0.89	0.09	sand to silty sand	80-90	>48	16	UNDEFINED
3	133.89	1.87	1.40	0.15	sand to silty sand	>90	>48	32	UNDEFINED
4	148.70	2.53	1.70	0.22	sand to silty sand	>90	>48	36	UNDEFINED
5	99.49	0.97	0.98	0.28	sand to silty sand	80-90	44-46	24	UNDEFINED
6	164.34	0.81	0.49	0.33	sand -	>90	46-48	31	UNDEFINED
7	173.33	1.08	0.62	0.39	sand	>90	46-48	33	UNDEFINED
8	170.35	0.77	0.45	0.45	sand	>90	44-46	33	UNDEFINED
9	98.21	0.57	0.58	0.51	sand to silty sand	70-80	40-42	24	UNDEFINED
10	110.57	0.52	0.47	0.57	sand	70-80	42-44	21	UNDEFINED
11	135.85	0.69	0.51	0.63	sand	80-90	42-44	26	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG
Location : HW-4
Site : ANOKA PARK
Tot. Unit Wt. (avg) : 120 pcf

CPT Date : 12:01:97 14:48
Geologist : JOSE CERCONE
Water table (feet) : 32.8084

DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
1	33.93	0.40	1.18	0.03	silty sand to sandy silt	80-90	>48	11	UNDEFINED
2	91.61	0.80	0.87	0.09	sand to silty sand	>90	>48	22	UNDEFINED
3	156.18	1.07	0.69	0.15	sand	>90	>48	30	UNDEFINED
4	126.01	0.93	0.74	0.22	sand	>90	46-48	24	UNDEFINED
5	91.71	1.19	1.30	0.28	sand to silty sand	80-90	44-46	22	UNDEFINED
6	100.00	2.02	2.02	0.33	silty sand to sandy silt	80-90	44-46	32	UNDEFINED
7	157.27	2.48	1.58	0.39	sand to silty sand	>90	44-46	38	UNDEFINED
8	102.23	1.58	1.54	0.45	sand to silty sand	70-80	42-44	24	UNDEFINED
9	47.37	0.89	1.88	0.51	silty sand to sandy silt	50-60	36-38	15	UNDEFINED
10	38.33	1.15	2.99	0.57	sandy silt to clayey silt	UNDFND	UNDFD	15	3.0
11	20.78	0.43	2.04	0.63	sandy silt to clayey silt	UNDFND	UNDFD	8	1.6
12	15.68	0.42	2.70	0.69	clayey silt to silty clay	UNDFND	UNDFD	8	1.1
13	23.41	0.59	2.50	0.75	clayey silt to silty clay	UNDFND	UNDFD	11	1.8
14	22.19	0.27	1.20	0.81	sandy silt to clayey silt	UNDFND	UNDFD	9	1.7
15	19.98	0.22	1.13	0.87	sandy silt to clayey silt	UNDFND	UNDFD	8	1.5
16	29.75	0.53	1.79	0.93	sandy silt to clayey silt	UNDFND	UNDFD	11	2.3
17	19.69	0.28	1.44	0.98	sandy silt to clayey silt	UNDFND	UNDFD	8	1.4
18	25.75	0.41	1.61	1.04	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
19	25.03	0.42	1.66	1.10	sandy silt to clayey silt	UNDFND	UNDFD	10	1.9
20	47.25	1.85	3.92	1.16	clayey silt to silty clay	UNDFND	UNDFD	23	3.6
21	41.33	0.70	1.69	1.23	silty sand to sandy silt	<40	30-32	13	UNDEFINED
22	52.52	1.18	2.25	1.29	sandy silt to clayey silt	UNDFND	UNDFD	20	4.0
23	64.74	2.30	3.55	1.35	clayey silt to silty clay	UNDFND	UNDFD	31	5.0
24	60.33	1.58	2.62	1.41	sandy silt to clayey silt	UNDFND	UNDFD	23	4.7
25	48.31	0.43	0.90	1.48	silty sand to sandy silt	40-50	30-32	15	UNDEFINED
26	36.45	0.35	0.96	1.54	silty sand to sandy silt	<40	<30	12	UNDEFINED
27	22.51	0.15	0.67	1.59	silty sand to sandy silt	<40	<30	7	UNDEFINED
28	23.56	0.20	0.87	1.65	silty sand to sandy silt	<40	<30	8	UNDEFINED
29	97.88	0.80	0.82	1.71	sand to silty sand	50-60	34-36	23	UNDEFINED
30	175.28	1.30	0.74	1.77	sand	70-80	38-40	34	UNDEFINED
31	177.22	1.09	0.62	1.83	sand	70-80	38-40	34	UNDEFINED
32	148.34	0.55	0.37	1.89	sand	60-70	36-38	28	UNDEFINED
33	106.68	0.66	0.61	1.95	sand	50-60	34-36	20	UNDEFINED
34	212.23	1.71	0.81	1.99	sand	70-80	38-40	41	UNDEFINED
35	224.73	1.11	0.49	2.02	sand	70-80	38-40	43	UNDEFINED
36	199.56	1.06	0.53	2.04	sand	70-80	38-40	38	UNDEFINED
37	149.62	0.78	0.52	2.07	sand	60-70	36-38	29	UNDEFINED
38	154.25	1.43	0.93	2.10	sand	60-70	36-38	30	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

MKC

Contractor :GREGG Location : HW-4 Page No. 2

DTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
39	151.48	0.94	0.62	2.13	sand	60-70	36-38	29	UNDEFINED
40	137.70	0.72	0.52	2.16	sand	60-70	34-36	26	UNDEFINED
41	138.65	0.69	0.50	2.19	sand	60-70	34-36	27	UNDEFINED
42	152.86	0.96	0.63	2.22	sand	60-70	34-36	29	UNDEFINED
43	193.78	0.82	0.42	2.25	sand	70-80	36-38	37	UNDEFINED
44	122.37	0.72	0.59	2.28	sand	60-70	34-36	23	UNDEFINED
45	120.42	0.93	0.77	2.31	sand	60-70	34-36	23	UNDEFINED
46	217.04	2.16	1.00	2.34	sand	70-80	36-38	42	UNDEFINED
47	148.96	0.88	0.59	2.36	sand	60-70	34-36	29	UNDEFINED
48	183.49	1.35	0.74	2.39	sand	70-80	36-38	35	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Durgunoglu and Mitchell 1975 Su: Nk= 12.5

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.02) ****

APPENDIX D

CHAIN-OF-CUSTODY FORMS

APPENDIX D
CHAIN-OF-CUSTODY FORMS

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CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

SAMPLING FIRM: Fargo In Situ
CLIENT CONTACT: MK-Corp.
PHONE NUMBER: (617) 572 53
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NIROP - ANOKA PARK

SAMPLER: (Signature)

ANALYTICAL TESTS REQUESTED: BTEX

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	BTEX	REMARKS
W2-11	11/19/97	16:40			ANOKA PARK		2	✓	Sampled at 35'
W2-12	11/19/97	15:05			ANOKA PARK		2	✓	Sampled at 40
W2-8A	11/19/97	16:40			ANOKA PARK		2	✓	Sampled at 35'
W2-10	11/20/97	8:10			ANOKA PARK		2	✓	Sampled at 40'
W3-15	11/21/97	8:22			ANOKA PARK		2	✓	Sampled at 40'
W3-12	11/21/97	10:00			ANOKA PARK		2	✓	Sampled at 45'
W3-1	11/21/97	10:42			ANOKA PARK		2	✓	Sampled at 45'
~~W3-1 11/21/97~~									
W3-2	11/21/97	13:00			ANOKA PARK		2	✓	Sampled at 45'
W3-3	11/21/97	13:30			ANOKA PARK		2	✓	Sampled at 50'
W3-4	11/21/97	14:00			ANOKA PARK		2	✓	Sampled at 50'
Trip Blank	11/12/97	8:00					1	✓	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11/21	2:00	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11/21/97	14:00	MK-Raphat.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
	11/22/97	11:30	O. Jackson

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS:

[SR01.

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

TM

SAMPLING FIRM: Cross tan Situ
CLIENT CONTACT: Morrison Knudsen
PHONE NUMBER: (612) 572-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NIROP - ANOKA PARK

SAMPLER: (Signature)

ANALYTICAL TESTS REQUESTED: TCE

	SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	TCE	REMARKS
x	W1-23A	10/31/97	15:30			ANOKA PARK		1	✓	
	W1-23A	10/31/97	15:30			" "		2		
	~~W1-24~~	~~10/31/97~~	~~16:15~~			~~" "~~		~~1~~	~~✓~~	
	~~W1-24~~	~~10/31/97~~	~~16:15~~			~~" "~~		~~2~~		
x	W1-21	11/1/97	8:30			" "		1	✓	
	W1-21	11/1/97	8:30			" "		2		
x	W1-24	11/1/97	9:00			" "		1	✓	
	W1-24	11/1/97	9:00			" "		2		
x	W1-22	11/1/97	9:40			" "		1	✓	
	W1-22	11/1/97	9:40			" "		2		
x	W3-17	11/1/97	14:15			" "		1	✓	
	W3-17	11/1/97	14:15			" "		2		
x	W1-25	11/1/97	15:00			" "		1	✓	
	W1-25	11/1/97	15:00			" "		2		
x	W2-25A	11/1/97	10:00			" "		1	✓	
	W2-25A	11/1/97	10:00			" "		2		

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11/1/97	5:00	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	11/3/97	8:50	Sarah Hodson

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS:

12-1192-03

2

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

TM

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
GLS	Marvin Knudsen	572-5566 (612)

P.O. or PROPOSAL NUMBER	PROJECT NAME
	NIROP ANOKA Park

SAMPLER: (Signature)

ANALYTICAL TESTS REQUESTED

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	EC								REMARKS
W2-5	11/1/97	15:45			ANOKA Park		1	✓								
W2-5	11/1/97						2									
W2-5	11/1/97	16:00			ANOKA Park		1	✓								
W2-5	11/1/97						2									

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11-1-97	5:00					

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
					11/3/97	8:50	S. Jackson

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	REMARKS:

012-1192-03

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

SAMPLING FIRM: Greg Tri Site | CLIENT CONTACT: MK-Corp. | PHONE NUMBER: (612) 572-5366

P.O. or PROPOSAL NUMBER: | PROJECT NAME:

SAMPLER: (Signature) John Simmons

ANALYTICAL TESTS REQUESTED: TPH

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	TPH	REMARKS
WS-4	12/9/97	13:45			ANOKA PARK		2	✓	Sampled at 50'
WS-3	12/9/97	14:20			" "		2	✓	Sampled at 50'
WS-2	12/9/97	15:20			" "		2	✓	Sampled at 50'
WS-6	12/10/97	12:00			" "		2	✓	Sampled at 50'
WS-1	12/10/97	12:50			" "		1	✓	Sampled at 38'
WS-16	12/10/97	9:10			" "		2	✓	Sampled at 50'
WS-5	12/10/97	11:15			" "		2	✓	Sampled at 45
Equip Blk	12/10/97	12:30			" "		1	✓	Water (clean) used to decom
Decon	12/10/97	12:30			" "		1	✓	Steam water used to clean equipment
Balcon	12/10/97	12:30			" "		1	✓	Bolek decom
Trip Blank	12/10/97	12:30			" "		2	✓	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
[signature]	12/10/97		

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	12/11/97	8:30	J Hodson

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS:

[SR012-1192 (1)]

OC

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office 918-251-2858 • Fax 918-251-2599

SAMPLING FIRM: Envirogen In Situ
CLIENT CONTACT: MK-Corp.
PHONE NUMBER: (612) 592-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: MKCOP Anaka Park Data Acquisition

SAMPLER (Signature):

ANALYTICAL TESTS REQUESTED: F C E

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	F	C	E	REMARKS
W3-10	12/06/97	8:30			Anaka Park		2	✓			Sampled at 50'
W3-9	12/06/97	9:15			" "		2	✓			Sampled at 50'
W3-13	12/06/97	9:50			" "		2	✓			Sampled at 45'
W3-12B	12/06	10:15			" "		2	✓			Sampled at 47'
W3-11	12/06/97	11:00			" "		2	✓			Sampled at 45'
W3-8	12/06/97	11:25			" "		2	✓			Sampled at 45'
W3-7	12/06/97	12:30	(13:30)		" "		2	✓			Sampled at 50'
W3-6	12/06/97	14:25			" "		2	✓			Sampled at 50'
W3-5	12/06/97	15:15			" "		2	✓			Sampled at 50'
Trip Bl	12/06/97				" "		2	✓			Trip blanks
~~Trip~~											

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	12/6/97		RECEIVED BY: (Signature) MK-Rep.
RELINQUISHED BY: (Signature)	12/6/97	3:00	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	12/8/97	0940	

REMARKS:

1°

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

SAMPLING FIRM: GREGG IN SITU
CLIENT CONTACT: MORRISON KNUDSON
PHONE NUMBER: (612) 572-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NIROP-ANOKA PARK
SAMPLER (Signature):

ANALYTICAL TESTS REQUESTED: EC+

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	EC+							REMARKS
W1-13	11/05/97	14:10			ANOKA PARK		2	✓							Sampled at 35'
W1-13	11/05/97	14:40			" "		2	✓							" at 45'
W1-7B	11/05/97	15:40			" "		2	✓							" at 40'
W1-6	11/05/97	16:15			" "		2	✓							Sampled at 40'
W1-11A	11/6/97	8:00			" "		2	✓							Sample at 55'
W1-12A	11/6/97	9:15			" "		2	✓							Sample at 57'
W1-20B	11/6/97	15:35			ANOKA PARK		1	✓							Sample at 35

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11/6/97	3:45	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
MK Rep	11/6/97	15:35	

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
	11/8/97	9:40	

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

REMARKS: Trip Blank Included

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2658 • Fax 918-251-2599

TM

SAMPLING FIRM: Gregg In Situ
CLIENT CONTACT: MK-Corp.
PHONE NUMBER: (612)572-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NIRCO- ANOKA PARK

SAMPLER (Signature):

ANALYTICAL TESTS REQUESTED: TCE

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	TCE	REMARKS
W1-16A	11/12/95	15:10			ANOKA PARK		2	✓	2 Samples, Sampled at 42 ft, one for TCE, Save 2nd
W1-17	11/12/97	15:50			ANOKA PARK		2	✓	1-for TCE, Save 1, Sampled at 48 ft
W1-18	11/12/97	16:45			ANOKA PARK		2	✓	1 for TCE, Save 1, Sampled at 50 ft
W2-2A	11/13/97	11:30			ANOKA PARK		2	✓	1 for TCE, Save 1, Sampled at 40'
W2-20A	11/13/97	12:00			ANOKA PARK		2	✓	" " " " " " 40'
W1-19	11/13/97	14:30			ANOKA PARK		2	✓	" " " " Sampled at 40'
W1-15	11/13/97	15:12			ANOKA PARK		2	✓	" " " " " at 40'
									(Note: time was not note in the container)
W1-14	11/13/97				ANOKA PARK		2	✓	1-for TCE test, Save 1, Sampled at 40'.
Trip Blank	(11/12/97				at (15:00 Hrs)		1	✓	
TAP WATER	(11/12/97				at 19:00 HR)		1	✓	(Hold) Water use to Steam clean
RINSE WATER	(11/12/97)				at 19:00 HR		1	✓	decom water
Bailer	11/13/97	15:55			ANOKA PARK		1	✓	Decom Bailer

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11-13-97	16:00	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)
	11/13/97	16:00	MK-Repr.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
	11/14/97	0815	O. Hodor

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)

REMARKS:

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2856 • Fax 918-251-2599

SAMPLING FIRM: Greg JN-Site
CLIENT CONTACT: MK-Corp.
PHONE NUMBER: (612) 572-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NI ROP - ANOKA PARK
SAMPLER: (Signature)

ANALYTICAL TESTS REQUESTED: VOC

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	VOC	REMARKS
W2-1	11/15/97	9:30			ANOKA PARK		2	✓	Sampled at 40'
W2-2	11/15/97	10:30			" "		2	✓	Sampled at 40'
W2-3	11/15/97	11:25			" "		2	✓	Sampled at 40'
W2-4	11/15/97	13:30			" "		2	✓	Sampled at 40'
W2-7	11/15/97	14:45 (*)			" "		2	✓	Sampled at 55'
W2-6	11/15/97	8:20			" "		2	✓	Sample at 40'
Trip Blank	11/15/97						1	✓	
W2-6	11/17/97	8:45			ANOKA PARK		2	✓	Sampled at 55'

(*) Packed sample ~~before~~ without sample time, 14:45 HR
Please note it and add time to Battles & Data

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
[signature]	11-17	9:00	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
[signature]	11/15/97 11/17/97		MK-Repr.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	11/18/97	0905	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS:

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2659 • Fax 918-251-2599

SAMPLING FIRM: Gragg In Situ
CLIENT CONTACT: Morrison Knudson
PHONE NUMBER: (612) 572-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NIROP-ANOKA PARK
SAMPLER (Signature):

ANALYTICAL TESTS REQUESTED: E, E+

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	E	E+							REMARKS
W1-13	11/05/97	14:10			ANOKA PARK		2	✓								Sampled at 35'
W1-13	11/05/97	14:40			" "		2	✓								" at 45'
W1-7B	11/05/97	15:40			" "		2	✓								" at 40'
W1-6	11/05/97	16:15			" "		2	✓								Sampled at 40'
W1-11A	11/6/97	8:00			" "		2	✓								Sample at 55'
W1-7A	11/6/97	9:15			" "		2	✓								Sample at 52'
W1-20B	11/6/97	15:35			ANOKA PARK		1	✓								Sample at 35

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11/6/97	3:45					

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
MK Rep	11/6/97	15:35			11/6/97	4:40	

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	REMARKS
				Trip Blank Included.

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2868 • Fax 918-251-2899

SAMPLING FIRM: Gregg In Situ
CLIENT CONTACT: Morrison Knudsen
PHONE NUMBER: (612) 522-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: Nicollet Project - ANOKA PARK
SAMPLER: (Signature)

ANALYTICAL TESTS REQUESTED: TCE

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	TCE							REMARKS
W1-1	11/2/97	16:35			ANOKA PARK		2	✓							Sample collected at 45'
W1-2	11/2/97	15:55			ANOKA PARK		2	✓							Sample Collected At 35'
W1-3A	11/2/97	15:25			" "		2	✓							Sample Collected At 35'
W1-4	11/2/97	14:38			" "		2	✓							Sample Collected at 55'
W1-4	11/2/97	14:22			" "		2	✓							Sample Collected at 35'
[redacted]															
W1-8A	11/3/97	15:45			" "		2	✓							Sample Collected at 45'
W1-9	11/3/97	16:20			" "		2	✓							Sample Collected at 45'
W1-5	11/4/97	9:30			" "		2	✓							Sample Collected at 45'
W1-10	11/4/97	8:35			" "		2	✓							Sample Collected at 45'
Rinsate	11/4/97	13:10			ANOKA PARK		1	✓							Trip water used to Steam Clean
Decon	11/4/97	13:10			ANOKA PARK		1	✓							Decon in addition to Collection
BK Trap	11/2/97	14:10			Lab Sample		2								

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	11/4/97	15:00	
RELINQUISHED BY: (Signature) MK-Corp. (Rep)	11/4/97	14:30	
RELINQUISHED BY: (Signature)			

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
RELINQUISHED BY: (Signature)	11/5/97	09:30	

REMARKS:

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W Albany • Broken Arrow, Oklahoma 74012-1421
Office 918-251-2858 • Fax 918-251-2599

SAMPLING FIRM: Greg In Situ
CLIENT CONTACT: MK-corp.
PHONE NUMBER: 612-572-5366
P.O. or PROPOSAL NUMBER:
PROJECT NAME: NIROP - ANOKA Park
SAMPLER (Signature):

ANALYTICAL TESTS REQUESTED: 5 6 7

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	5	6	7	REMARKS
HW-2	12/2/97	13:48			ANOKA PARK		2	✓			Sampled at 50'
HW-3	12/2/97	14:25			" "		2	✓			Sampled at 50'
HW-4	12/2/97	15:10			" "		2	✓			Sampled at 50'
W4-3	12/2/97	16:00			" "		2	✓			Sampled at 50'
W4-2	12/2/97	16:45			" "		2	✓			Sampled at 45'
W4-1	12/3/97	7:50			" "		2	✓			Sample at 50'
HW-1	12/3/97	8:40			" "		2	✓			Sample at 50'
W4-13	12/3/97	10:10			" "		2	✓			Sample at 40'
W4-14	12/3/97	11:30			" "		2	✓			Sample at 40'
Trip Blk	12/02/97	15:00					1	✓			Placed in Cooler 12/2/97

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)
	12-3-97	12:00	

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)
	12/3/97	11:30	MK-Rep.

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: (Signature)
	12/4/97	8:30	S. Hodson

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

REMARKS: 2°

SR012-1182 03

APPENDIX E

SURVEY INFORMATION

APPENDIX E
SURVEY INFORMATION

INDEX

DESCRIPTION	PAGES
Survey Node List	4 Pages
Drawing	1 Page

97019 - Anoka County Park

12-15-97

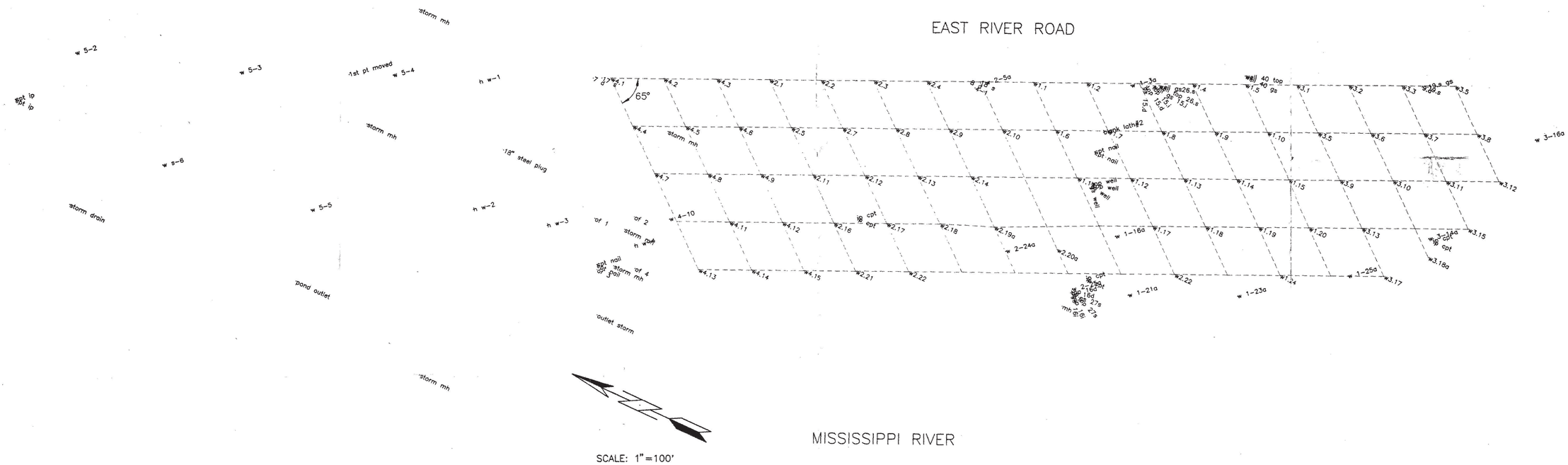
NODE LIST.

le	North	East	Elevation	Description
1	5000.00	5000.00	100.00	START
1	5000.00	5000.00	100.00	START
1	1079226.14	2808725.64	844.58	57th mndot
2	1079321.23	2810143.03	834.42	cpt ip
2	1076590.91	2809531.49	841.60	53rd mndot
3	1078193.19	2810321.80	830.94	cpt nail
3	1079321.23	2810143.03	834.42	cpt ip
4	1077429.47	2810914.30	824.91	cpt nail
4	1078333.75	2810648.04	835.81	17 s
5	1077781.75	2810611.28	831.04	ip cpt
5	1077781.75	2810611.28	831.04	ip cpt
6	1079590.70	2810183.33	834.90	ws-1
6	1079144.39	2810004.12	812.49	storm drain
7	1079255.25	2810271.07	833.28	w 5-2
7	1078696.93	2810051.97	814.74	pond outlet
8	1078959.12	2810368.12	832.12	w 5-3
8	1078699.43	2810621.47	830.94	storm mh
9	1078692.06	2810487.04	831.77	w 5-4
9	1078405.52	2809991.29	831.57	storm mh
10	1078540.17	2810543.80	833.20	h w-1
10	1078445.14	2810445.14	832.45	18" steel plug
11	1078447.68	2810318.57	832.77	h w-2
11	1078698.04	2810382.12	831.43	storm mh
[illegible]	1078309.50	2810349.22	832.85	h w-3
[illegible]	1078163.07	2810333.34	831.08	storm mh
13	1079016.50	2810146.07	832.81	w s-6
13	1078174.07	2810404.48	832.27	storm mh
14	1078104.94	2810457.78	832.09	w 4-10
14	1078178.09	2810608.76	832.32	storm mh
15	1078143.58	2810384.29	831.52	h w-4
15	1078348.73	2810640.80	835.91	7 d
16	1077342.50	2810689.52	829.80	ip cpt
16	1078193.19	2810321.80	830.94	cpt nail
17	1076775.28	2811031.43	831.72	ip cpt
17	1077680.78	2810944.33	829.70	18 s
18	1076784.77	2811030.99	831.59	w 3-14a
18	1078152.01	2810235.58	810.13	outlet storm
19	1076892.80	2810903.54	831.20	w 1-25a
19	1077697.48	2810936.96	834.12	8 d
20	1076681.17	2811286.90	831.70	w 3-16a
20	1077684.30	2810929.86	833.69	4-1
21	1077070.33	2810778.59	832.06	w 1-23a
21	1077342.50	2810689.52	829.80	ip cpt
22	1077257.82	2810693.67	828.66	w 1-21a
22	1077339.96	2810651.45	829.44	gs 27s
23	1077357.72	2810659.64	829.49	w 2-25a
23	1077339.94	2810651.09	832.46	top 27s
24	1077501.44	2810672.03	830.87	w 2-24a
[illegible]	1077348.97	2810651.51	832.50	top 16i

25	1077420.67	2811058.01	830.77	w 1-3a
25	1077348.92	2810651.81	829.56	gs 16i
26	1077326.06	2810784.65	830.21	w 1-16a
26	1077357.48	2810652.36	829.35	gs 16d
	1077430.10	2810955.39	829.61	blank l[illegible]
27	1077357.71	2810652.04	832.86	top [illegible]od
28	1077670.83	2810947.47	831.45	w 2-5a
28	1077361.20	2810622.50	823.47	mh
29	1078768.77	2810452.77	831.69	1st pt moved
29	1076775.28	2811031.43	831.72	ip cpt
30	1078728.68	2810186.20	832.01	w 5-5
186	1078318.21	2810655.09	828.15	w4.1
187	1078226.99	2810696.48	827.42	w4.2
188	1078136.12	2810737.72	826.84	w4.3
189	1078045.02	2810779.05	827.04	w2.1
190	1077953.95	2810820.37	826.97	w2.2
191	1077862.88	2810861.70	827.20	w2.3
192	1077771.86	2810903.00	827.19	w2.4
193	1077589.79	2810985.62	826.26	w1.1
194	1077498.63	2811026.98	827.15	w1.2
195	1077407.58	2811068.29	826.35	w1.3
196	1077240.72	2811044.44	826.60	w1.9
197	1077331.76	2811003.11	825.30	w1.8
198	1077422.82	2810961.80	824.96	w1.7
199	1077513.87	2810920.47	825.49	w1.6
200	1077604.96	2810879.16	825.15	w2.10
201	1077696.01	2810837.76	826.08	w2.9
202	1077787.07	2810796.50	827.62	w2.8
203	1077878.13	2810755.18	826.76	w2.7
2[illegible]	1077969.22	2810713.85	828.24	[illegible]
2[illegible]	1078060.26	2810672.54	827.45	[illegible]
206	1078151.25	2810631.25	827.53	w4.5
207	1078242.32	2810589.92	828.99	w4.4
208	1078166.51	2810524.78	829.26	w4.7
209	1078075.47	2810566.06	828.68	w4.8
210	1077984.48	2810607.32	828.45	w4.9
211	1077893.32	2810648.76	827.63	w2.11
212	1077802.27	2810690.08	826.89	w2.12
213	1077711.24	2810731.29	826.66	w2.13
214	1077620.16	2810772.65	825.82	w2.14
215	1077635.41	2810666.29	826.14	w2.18
216	1077726.44	2810624.85	825.93	w2.17
217	1077817.53	2810583.46	826.39	w2.16
218	1077908.57	2810542.23	826.70	w4.12
219	1077999.54	2810501.03	826.82	w4.11
220	1078090.51	2810459.80	827.44	w4.10
221	1078014.83	2810394.42	825.90	w4.13
222	1077923.85	2810435.57	826.08	w4.14
223	1077832.73	2810477.03	825.73	w4.15
224	1077741.66	2810518.38	825.66	w2.21
225	1077650.61	2810559.67	825.54	w2.22
226	1077438.09	2810855.35	825.78	w1.11
227	1077346.99	2810896.65	825.07	w1.12
228	1077429.47	2810914.30	824.91	cpt nail

229	1077409.21	2810855.80	825.53	gs well
230	1077405.89	2810855.53	825.62	gs well
231	1077409.22	2810855.59	828.83	top well
[illegible]2	1077405.86	2810855.40	828.74	top well
[illegible]	1077540.51	2810704.20	830.64	w2.19a
236	1077495.08	2810665.11	830.83	w2.24a
237	1077377.39	2810683.63	829.95	w2.25
239	1077415.32	2810716.21	830.53	w2.20a
240	1077286.35	2810724.94	828.60	w1.21
241	1077195.22	2810766.24	832.06	w2.22
242	1077271.14	2810831.41	831.26	w1.17
243	1077362.30	2810790.01	830.77	w1.16
244	1076861.21	2811316.22	831.46	w3.5
245	1076785.37	2811251.04	831.70	w3.8
246	1076709.57	2811185.88	831.39	w3.12
247	1076800.60	2811144.55	832.10	w3.11
248	1076724.74	2811079.37	830.69	w3.15
249	1076815.80	2811038.05	831.76	w3.14
251	1076770.30	2810998.96	830.91	w3.18a
252	1076831.02	2810931.59	830.08	w3.17
253	1076922.11	2810890.21	831.41	w1.25
254	1077013.22	2810848.86	831.96	w1.24
255	1077104.00	2810807.42	832.50	w1.23
256	1077180.13	2810872.74	831.69	w1.18
257	1077089.06	2810914.04	831.51	w1.19
258	1076997.99	2810955.40	831.54	w1.20
259	1076906.88	2810996.72	832.04	w3.13
260	1076891.69	2811103.29	832.38	w3.10
[illegible]1	1076982.70	2811061.96	831.37	w3.9
[illegible]	1077073.79	2811020.63	831.48	w1.15
263	1077164.85	2810979.31	831.08	w1.14
264	1077255.90	2810937.98	829.67	w1.13
265	1077149.72	2811085.75	831.65	w1.10
266	1077058.47	2811127.04	831.30	w3.5
267	1076967.52	2811168.41	831.35	w3.6
268	1076876.38	2811209.63	831.52	w3.7
269	1076906.80	2811293.45	834.40	19.s
270	1076916.53	2811289.18	834.58	9.d
271	1076916.28	2811288.83	831.56	9.d
272	1076906.71	2811292.96	831.62	19.s gs
273	1076952.24	2811274.85	831.77	w3.3
274	1077043.33	2811233.57	832.11	w3.2
275	1077134.37	2811192.24	832.21	w3.1
276	1077225.39	2811150.92	831.63	w1.5
277	1077232.81	2811165.14	832.00	well 40 gs
278	1077232.97	2811165.30	833.64	well 40 top
279	1077316.59	2811109.61	830.73	w1.4
280	1077373.02	2811079.92	830.41	well gs26.s
281	1077373.26	2811079.94	833.76	well top 26.s
282	1077382.57	2811075.87	830.41	well gs 15.i
283	1077383.03	2811075.23	833.54	top 15.i
284	1077393.54	2811070.24	833.75	top 15.d
285	1077393.49	2811069.20	830.33	gs 15.d
[illegible]6	1078233.83	2810399.84	832.48	of 1

ANOKA COUNTY PARK SURVEY
FOR MORRISON KNUDSEN CORPORATION



ALL-METRO
DEVELOPMENT CONSULTANTS, P.A.
SURVEYING • ENGINEERING • SITE PLANNING

7111 West Broadway
Suite 201
Brooklyn Park, MN 55428

Tele (612) 566-8487
Fax (612) 566-8517

I hereby certify that this survey was prepared by me or under my direct supervision and that I am a duly registered Land Surveyor under the laws of the State of Minnesota.

Reg. No. _____ Date _____

ANOKA COUNTY PARK SURVEY
FOR MORRISON KNUDSEN CORPORATION

FRIDLEY, MINNESOTA

DATE	REVISION	BY

SCALE: 1"=100'
DRAWN: J.W.D.
DESIGN:
CHECKED: T.H.V.
PROJECT NO. 97019

SHEET 1 OF 1 SHEETS