



GERAGHTY & MILLER, INC.

Environmental Services

201 West Passaic Street, 3rd Floor
Rochelle Park, New Jersey 07662

(201) 909-0700

FAX (201) 909-0567/0568

64526

LETTER OF TRANSMITTAL

TO U.S. Environmental Protection Agency

Region II

26 Federal Plaza, Room 737

New York, New York 10278

DATE	1/19/95	JOB NO.	PR0013.038
ATTENTION	Caroline Kwan		
RE			
Return of Documents for Preparation			
of Final RI, Tutu Wells Site,			
St. Thomas, U.S. Virgin Islands			

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings

☐ Prints

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change order

☒ Reports

COPIES	DATE	NO.	DESCRIPTION
1	10/93		Hydrologic Associates, U.S.A., Inc. 1993.
			Geohydrologic Analysis and Water Quality Data for the Upper
			Tutu Aquifer, St. Thomas, Virgin Islands, Appendix I Through X.

THESE ARE TRANSMITTED as checked below:

☐ For approval

☐ Approved as submitted

☐ Resubmit _____ copies for approval

☐ For your use

☐ Approved as noted

☐ Submit _____ copies for distribution

☐ As requested

☐ Returned for corrections

☐ Return _____ corrected prints

☐ For review and comment

☒ Returned as requested

☐ FOR BIDS DUE _____ 19 _____

☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO _____

SIGNED: _____

David E. Stern

**HYDROLOGIC ASSOCIATES U.S.A., INC.
ENVIRONMENTAL CONSULTANTS**

8925 S. W. 148th Street, Suite 212, Miami, Florida 33176
Phone: (305) 252-7118 • Fax: (305) 254-0874

**Geohydrologic Analysis and
Water Quality Data**

for the

Upper Tutu Aquifer
St. Thomas, Virgin Islands

APPENDICES I - X

Prepared for

FOUR WINDS SHOPPING PLAZA
ANNA'S RETREAT, ST. THOMAS
U.S. Virgin Islands

and

PID/HARTHMAN
ANNA'S RETREAT, ST. THOMAS
U.S. Virgin Islands

By

Hydrologic Associates U.S.A., Inc.
8925 S.W. 148 Street, Suite 212
Miami, Florida 33176

Miami, Florida
October 1993

APPENDICES (Volume II)

Appendix I	Report on the Geology of the Four Winds Shopping Center, Tutu Area, Anna's Retreat, Eastern St. Thomas, U.S. Virgin Islands, by Grenville Draper, PhD.
Appendix II	Air Stripper Effluent Laboratory Analysis Sheets
Appendix III	Aquifer Test Data: Four Winds Deep Test Well No. 2 and Curve Matching Graphs
Appendix IV	Aquifer Test Data: Four Winds Deep Test Well No. 1 and Curve Matching Graph
Appendix V	Aquifer Test Data: Batiste Well and Curve Matching Graph
Appendix VI	Aquifer Test Data: Crusher Well, Bakery Well and Curve Matching Graphs
Appendix VII	Aquifer Test Data: Racetrack Well and Curve Matching Graph
Appendix VIII	Well Construction Diagrams and Drilling Logs
Appendix IX	Summary Tables of Detected Contaminants, Laboratory Analysis Sheets, and Chain of Custody Records
Appendix X	Soil Resistivity Analysis

APPENDICES I - X

APPENDIX I

REPORT ON THE GEOLOGY OF THE FOUR WINDS
SHOPPING CENTER, TUTU AREA, ANNA'S RETREAT,
EASTERN ST. THOMAS, U.S. VIRGIN ISLANDS

by

GRENVILLE DRAPER, PHD.

APPENDIX I

REPORT ON THE GEOLOGY OF THE FOUR WINDS
SHOPPING CENTER, TUTU AREA, ANNA'S RETREAT,
EASTERN ST. THOMAS, U.S. VIRGIN ISLANDS

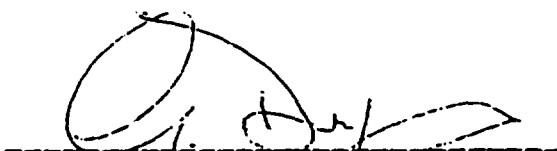
by

GRENVILLE DRAPER, PHD.

**REPORT ON THE GEOLOGY OF THE FOUR WINDS
SHOPPING CENTER, TUTU AREA, ANNA'S RETREAT,
EASTERN ST. THOMAS, U.S. VIRGIN ISLANDS**

Grenville Draper
Consulting Geologist

August 1993



**Grenville Draper, Registered
Professional Geologist, #816
State of Florida, U. S. A.**

Draper/Tutu area 8/93 1

Executive Summary

The Four winds Shopping Center and environs in eastern St. Thomas, U.S.V.I., are built over a small SW to S trending river course (locally known as a "gul"). A section through the bedrock of the site is exposed in an excavation at the rear (west side) of the center, and shows an upper section of andesite breccias and sands and an a lower section of conglomerates of rounded keratophyres mixed with subrounded andesite clasts . The upper part of the section is intruded by two dikes and the lower section contains a 5m thick welded tuff layer. All the rocks in the outcrop are fractured in a variety of orientations and a number of minor faults are also present

All the rocks at the site are have a very low intergranular permeability. Such permeability that the rocks do possess is due to the many fractures present. The dikes and welded tuff layers do not to pose major hydrogeological barriers as they are as fractured as the main rock sequence. Increasing numbers of minor faults and increased fracture density toward the axis of the gul, coupled with displacement of a major sedimentary contact in the section, indicate that the gul has formed over a major fault zone. This fault zone trends NE-SW. and forms a similarly trending, anisotropically permeable region with enhanced permeability parallel to the trend of the zone.

Introduction

The geology in the vicinity of the Four Winds shopping center in the Tutu area was examined at the request of Hydrologic Associates Inc., and their retainers John Dema and Richard Knoepfel, in connection with a dispute concerning the contamination of the Turpentine Basin Aquifer. The purpose of the study was to gain insights into how the rock types and fracture and fault patterns may influence the hydrogeological characteristics of the site.

The site was examined on the 8th, 9th and 10th of May 1992. Outcrops at the rear of the Four Winds Shopping Center were examined and mapped in detail. Outcrops in the school yard of the Seventh Day Adventist School, 200m. meters to the east of the shopping center were also examined, as were scattered small outcrops on the hillside south and east of the site.

Site description

The Four Winds Shopping Center site is located in eastern St. Thomas, south of Peterson's Hill and is adjacent to the intersection of Highways 38 and 382 (Fig. 1). The site is in a small valley ("gul" in the local parlance). By enlarging a portion of the USGS 1:24,000 topographic map of the region and superimposing this on the map of the Four Winds Shopping Center prepared by Target Environmental Services (1992), it is clear that the axis of the original gul ran directly underneath the present shopping center and its parking lot (Fig. 2, Enclosure 1). This suggests that there is some fill under the Shopping Center and parking lot, and this was confirmed by observation of cuttings recovered from boreholes situated in the parking lot (see Appendix)

The rocks examined in detail were located in excavated outcrops at the rear (western side) of the shopping center. Outcrops were also examined on the hill to the east of the site, notably in the school yard of the Seventh Day Adventist School (Fig 2).

Rock Types

The rocks exposed behind the shopping center belong to the Lousenhoj Formation as defined by Donnelly (1966) which consists of tuffaceous and volcanically derived breccias. The beds strike roughly E-W and dip North at about 40°. Assuming that no undetected major faults are in the section examined, a thickness of a little over 700ft is exposed in the outcrop (Fig 3).

The exposure shows two units in the sequence:

- (1) The upper part consists of massive to thickly bedded andesitic tuffaceous breccias and sandstones that are typical of most of the exposures of the Lousenhoj Formation on St. Thomas and St. John. When fresh, the rock has a dark to medium grey color with a slight bluish tinge. The majority of the beds are poorly sorted breccias that have subrounded clasts with diameters ranging from millimeters to about 5-6 cm. The matrix and clasts are of very similar appearance so that individual clasts can often only be distinguished by careful examination of the rock.
- (2) The lower part of the sequence consists of massively bedded coarse conglomerates. Clasts consist of both well rounded light grey siliceous (possible keratophytic) volcanic

rock and sub-rounded andesitic clasts identical to those found in the upper unit. The siliceous rounded clasts are derived from the Water Island Formation which underlies the Lousenhoj Formation. Donnelly (1966) found this conglomerate unit at other locations in the island and called it the *Gabes Point Conglomerate Lithofacies*. (CPCL) The contact between the upper unit and the CPCL appears to be transitional over a thickness of 0.5 to 1 meter, although the relationship is not entirely clear because a small fault occurs in the section near to the contact. Clasts of a black, probably basaltic rock seem to be characteristic of the CPCL in the contact zone. These lithologies are also found in the test wells drilled (Appendix).

In addition to the above two further rock bodies can be identified in the outcrop:

(3) In the upper part of the section two dikes of a greenish grey hornblende porphyry cut the section. Similar dikes were also observed at the exposures of the yard of the Seventh Day Adventist school.

(4) In the lower part of the exposed sequence (ie. in the southern part of the outcrop) a 5m. thick layer of green, fine grained, hard siliceous rock can be observed. The banded texture, conformity with the other beds and lack of chilled contacts suggests that this feature is a welded tuff deposit, rather than a felsic sill.

Structure

The section exposed at the site consists of thick to massive beds which strike roughly E-W to NE-SW and dip 40-50° to the North. Precise orientations are shown in Figures 4 and Enclosure 1. Other structures present include rock cleavage, minor faults and fractures.

Rock Cleavage

A planar rock cleavage defined by the common orientation of flattened clasts can be seen in some parts of the outcrop. It is more prominent in some beds than others, and is not necessarily related to minor faulting. The cleavage strikes approx E-W and dips to the North more steeply than the bedding (Fig. 4)

Minor Faults

Several minor faults are exposed at the site and they fall into two sets (Fig.5). One set is E-W trending and one fault showed right lateral strike-slip as determined from the offset of bedding planes. The other set are NE-SW trending and appear to be dip-slip normal faults, although precise determination of the nature of the slip was not possible.

Fractures

The rocks at the site are heavily fractured and both mineralized and barren fractures are present. The mineralized fractures formed early in the history of the rock, probably shortly after lithification. These fractures are mineralized and sealed by zeolite and carbonate minerals and thus appear as white veinlets in the rock. As these structures have no hydrogeological significance, their orientations are not shown in Enclosure 1.

Un-mineralized (barren) fractures are found throughout the exposure and show a great deal of variety in orientation and fracture density (defined by the average spacing between fractures). Fracture density in the cyclographic equal area projections in Enclosure 1 is indicated by (1) heavy lines if the average spacing between fractures is 0-10cm, (2) medium thickness line if the spacing between fractures is 10-100cm and (3) a fine line if spacing between fractures is 100cm (= 1m) or greater.

Strikes of barren fractures trend N, NE, E, NW, W and WNW although dips may vary either side of strike (Enclosure 1). Generally, Enclosure 1 shows that both the number of fracture sets and fracture density of each set increases with proximity to the axis of the original gut.

Presence of a major fault at the site

The increase of fracture and fault density toward the axis of the gut, especially in the southwestern part of the site indicates a much larger fault zone that passes under the site, along the main axis of the gut. The dominant NE-SW orientation of minor faults and the denser fracture sets further indicates that the proposed fault has the same NE-SW trend.

The presence of a major fault running through the gut is also indicated by the displacement of the andesite breccia/Cabes Point Conglomerate contact. Enclosure 1 shows that this contact should run north of Test Well #1. This contact, however, was detected in the Four Winds Test Well #1 borehole at a depth of about 90 ft (Appendix). In addition, the contact was found on the hillside 200-300m southeast of the site which is consistent. Both observations consistently indicate a down-to-south fault displacement of the contact.

Hydrogeological Implications

The rocks present at the Four Winds Shopping Center site are mainly andesitic in composition. Andesites are rich in plagioclase feldspar which easily decomposes into clay minerals. The clay minerals block interstices and the interstitial connections in the rock and so the intergranular permeability of these rocks will be very low. The rock is highly fractured, however, so that the main porosity and permeability results from the inter-connection of the fractures. The dikes and welded tuff layer form compact layers within the sequence that have also have poor intergranular permeability. As they are as equally fractured as the rest of the sequence, however, they will not form significant barriers to groundwater flow.

Immediately adjacent to the main fault, many of the fractures are sub-parallel to its NE-SW trend (Enclosure 1). This will result in an anisotropy of the permeability. In this zone with enhanced hydraulic conductivity in a NE-SW direction.

References Cited

Donnelly, T.W., 1966. Geology of St. Thomas and St. John, U.S. Virgin Islands: in Hess, H. H. (ed.) Caribbean Geological Investigations: Geological Society of America Memoir 98, p. 85-176.

Target Environmental Services, Inc., 1992, Soil Gas Survey, Four Winds Shopping Center and Environs, Tutu area, Anna's Retreat, St. Thomas: unpub rept and map., 27pp.

Draper/Tutu area 8/93 6

Appendix

Logs of Four Winds Shopping Centers Test wells #1 and #2, May 1992

Test Well #1

Depth	Description
0-16ft	Mixture of weathered and fresh andesitic rock, some ?basaltic porphyry. Probably fill.
16-32ft	Grey, andesitic breccia
32-36ft	Chips of fine grained igneous rock, ?dike rock,
36-92ft	Chips of grey andesitic breccia
92-96ft	Dark, ?basaltic rock, ?breccia; similar to that found at contact of breccia and Cables Point Conglomerate
96-141ft	Chips show mixture of (1)andesitic breccia,(2) siliceous fine grained lithology (probably clasts of Cables Point Conglomerate), (3) black, ?basaltic clasts occasionally found in Cables Point Conglomerate. <i>Indicates 96 ft represents contact of andesite breccia and Cables Point Conglomerate</i>

Test Well #2

Depth	Description
0-13ft	Mixture of weathered and fresh chips of andesite breccia, keratophyre, basaltic rock - probably fill.
13-21ft	Brownish, weathered, andesite breccia.
21-37ft	Less weathered andesite breccia
37-41ft	Fresh andesite breccia core(10-15cm) recovered.
41-67ft	Fresh andesite breccia. Complete cores recovered. Subvertical mineralized veins prominent.
69-97ft	Chips of fresh andesite breccia recovered
97+ ft	Well continued after inspection.

FIGURE 1 Location of the Tutu area in eastern St Thomas.



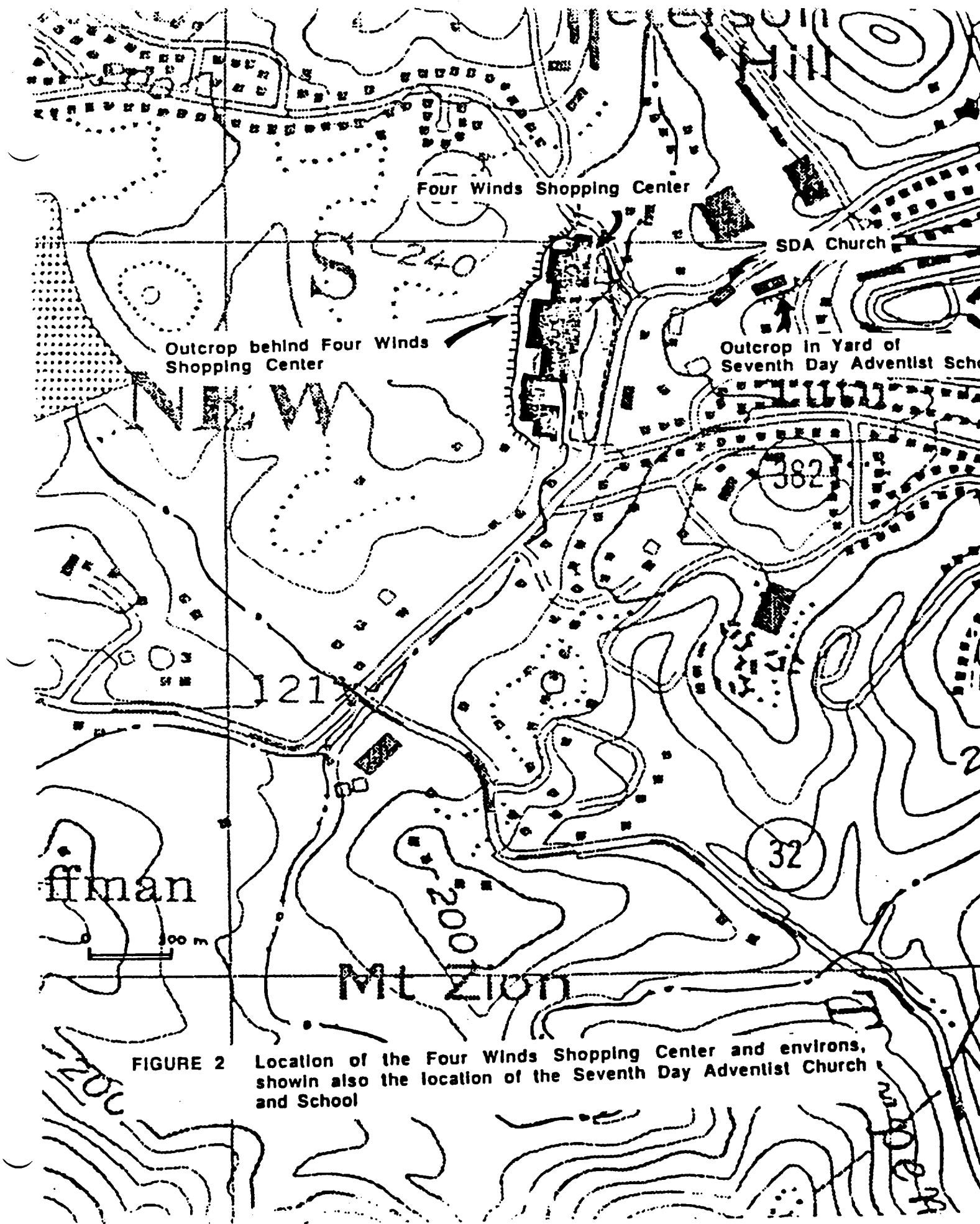


FIGURE 2 Location of the Four Winds Shopping Center and environs, shown also the location of the Seventh Day Adventist Church and School

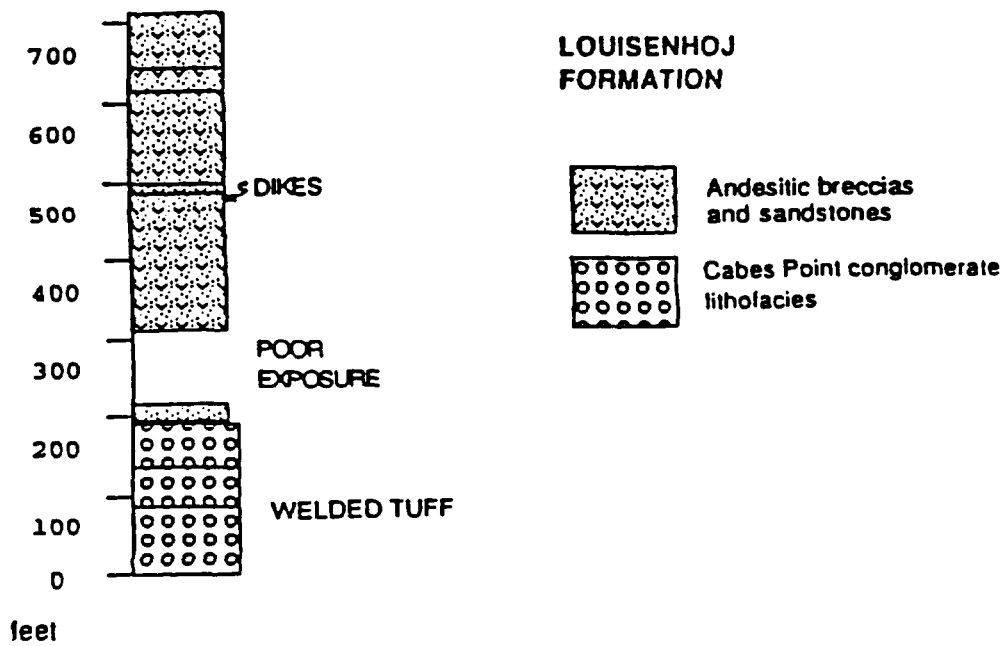


FIGURE 3 Section exposed on access road at rear (west) of Four Winds Shopping Center

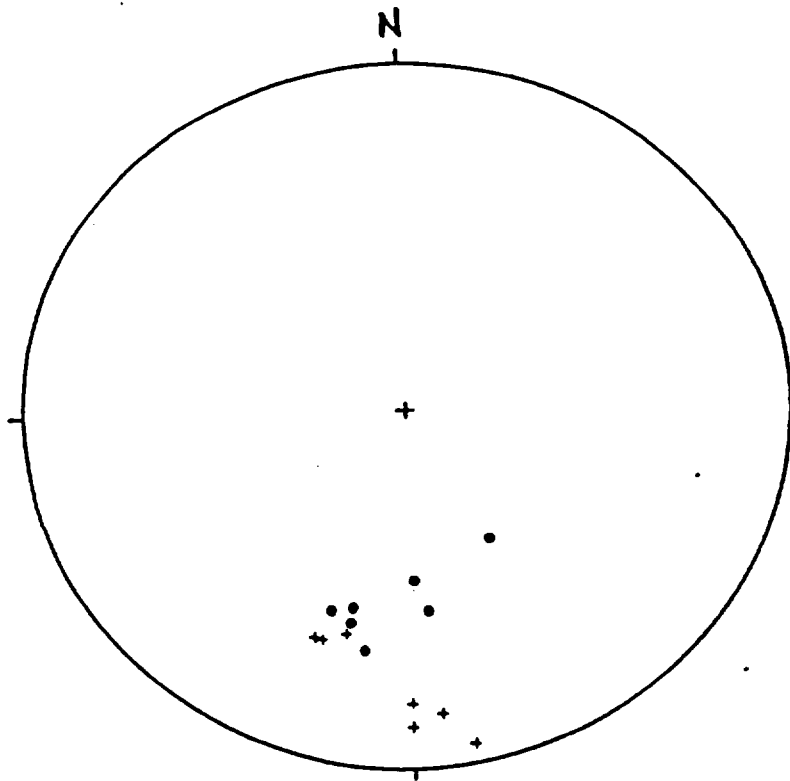


FIGURE 4 Equal area, lower hemisphere diagram showing orientation of poles to planes of bedding (filled circles) and sporadic cleavage (crosses) at the Four Winds Shopping Center outcrop.

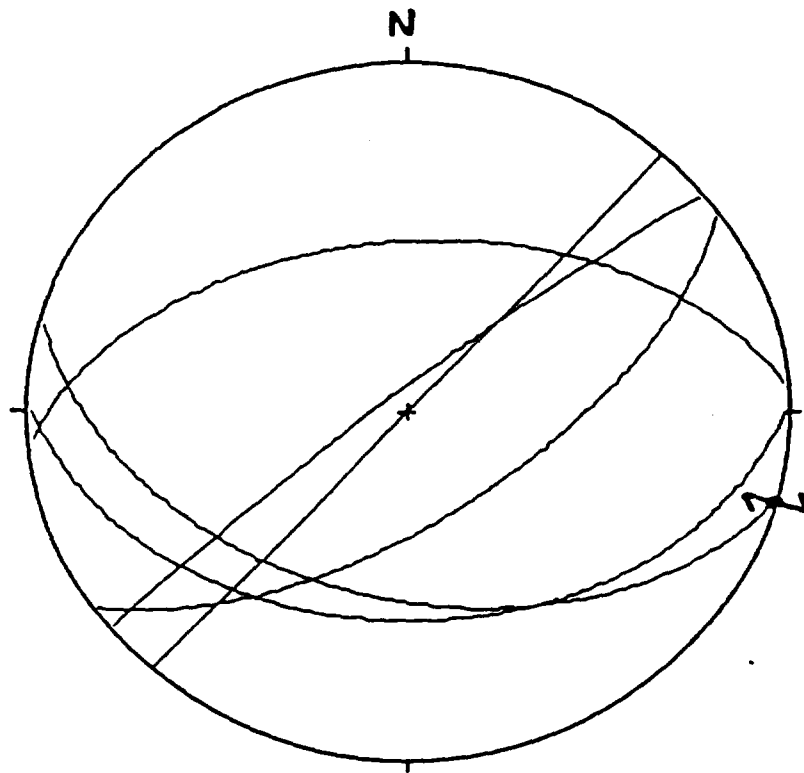
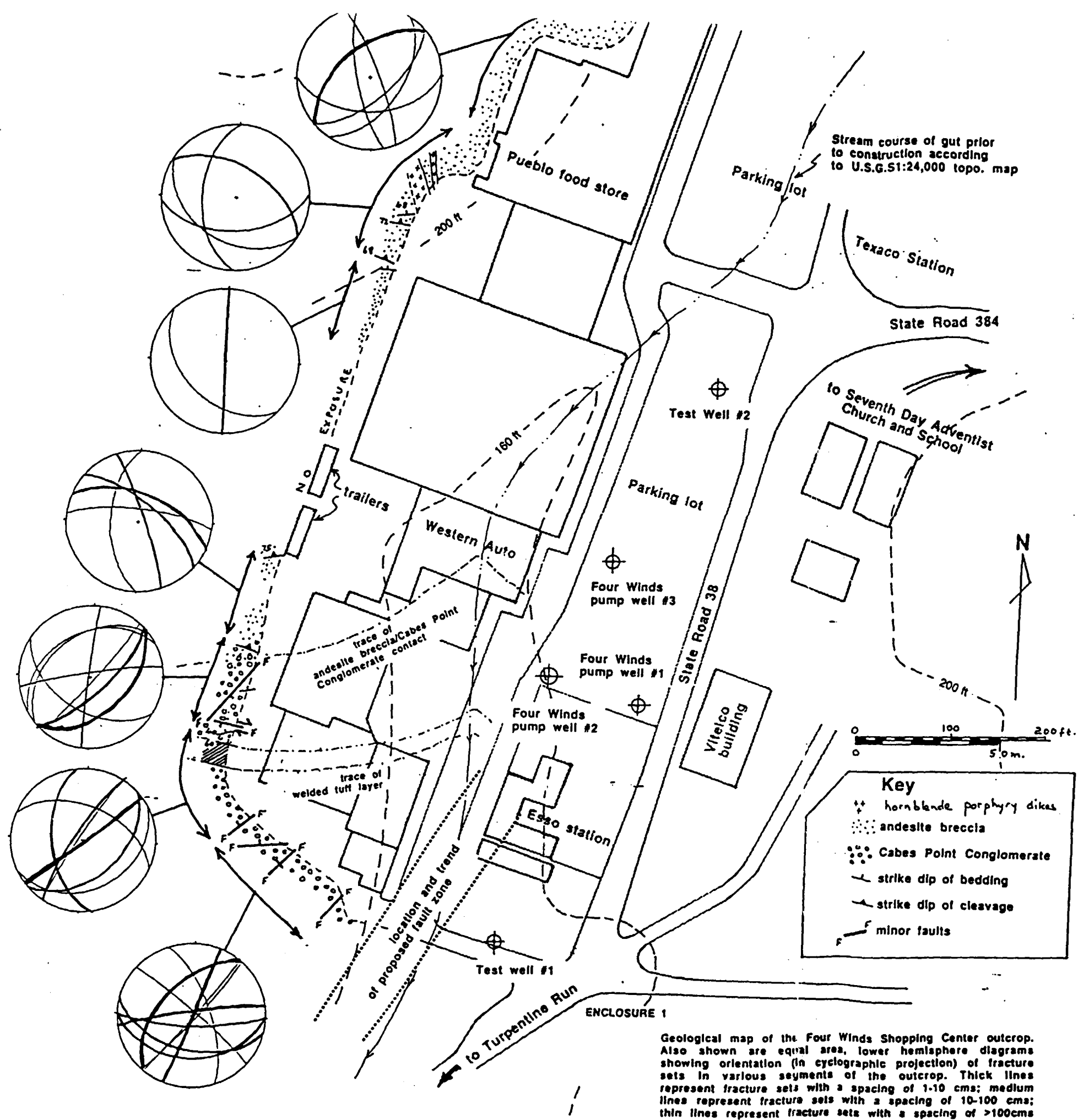


FIGURE 5 Equal area, lower hemisphere diagram showing orientation (in cyclographic projection) of minor faults at the Four Winds Shopping Center outcrop



APPENDIX II

AIR STRIPPING EFFLUENT LABORATORY ANALYSIS SHEETS

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24010

Received: 11 DEC 92

Mr. Bruce Green
Caribbean Hydro-Tech, Inc.
P.O. Box 2070 - Kingshill
St. Croix, USVI 00851-2070

Project: 4 Winds (Stripper Test)
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED	
24010-1	4 Winds DTW #2 Before Stripper	12-10-92	
24010-2	4 Winds DTW #2 After Stripper	12-10-92	
PARAMETER		24010-1	24010-2
Purgeables (601/602)			
Bromodichloromethane, ug/l		<1.0	<1.0
Bromoform, ug/l		<5.0	<5.0
Bromomethane, ug/l		<1.0	<1.0
Carbon Tetrachloride, ug/l		<1.0	<1.0
Chlorobenzene, ug/l		<1.0	<1.0
Chloroethane, ug/l		<1.0	<1.0
2-Chloroethylvinyl Ether, ug/l		<10J	<10J
Chloroform, ug/l		4.5.	<1.0
Chloromethane, ug/l		<1.0	<1.0
Dibromochloromethane, ug/l		<1.0	<1.0
1,2-Dichlorobenzene, ug/l		<1.0	<1.0
1,3-Dichlorobenzene, ug/l		<1.0	<1.0
1,4-Dichlorobenzene, ug/l		<1.0	<1.0
Dichlorodifluoromethane, ug/l		<1.0	<1.0
1,1-Dichloroethane, ug/l		<1.0	<1.0
1,2-Dichloroethane, ug/l		<1.0	<1.0
1,1-Dichloroethene, ug/l		<1.0	<1.0
cis/trans-1,2-dichloroethylene, ug/l		130	24
1,2-Dichloropropane, ug/l		<1.0	<1.0
Cis-1,3-Dichloropropene, ug/l		<1.0	<1.0
Trans-1,3-Dichloropropene, ug/l		<1.0	<1.0
Methylene Chloride, ug/l		<1.0	<1.0
1,1,2,2-Tetrachloroethane, ug/l		<1.0	<1.0
Tetrachloroethene, ug/l		55	1.4
1,1,1-Trichloroethane, ug/l		7.3	2.4
1,1,2-Trichloroethane, ug/l		<1.0	<1.0

TEL 004 11-11

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24010

Received: 11 DEC 92

Mr. Bruce Green
Caribbean Hydro-Tech, Inc.
P.O. Box 2070 - Kingshill
St. Croix, USVI 00851-2070

Project: 4 Winds (Stripper Test)
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED	
24010-1	4 Winds DTW #2 Before Stripper	12-10-92	
24010-2	4 Winds DTW #2 After Stripper	12-10-92	
PARAMETER		24010-1	24010-2
Trichloroethene, ug/l		19	<1.0
Trichlorofluoromethane, ug/l		<1.0	<1.0
Vinyl Chloride, ug/l		<1.0	<1.0
Benzene, ug/l		11	1.0
Ethylbenzene, ug/l		<1.0	<1.0
Toluene, ug/l		<1.0	<1.0
Xylenes, ug/l		<1.0	<1.0
Methyl-tert-butyl ether (MTBE), ug/l		120	69
Date Analyzed		12.14.92	12.14.92
Method Number		601/602	601/602
Dilution factor		1	1

DOT 0000 1157

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24010

Received: 11 DEC 92

Mr. Bruce Green
Caribbean Hydro-Tech, Inc.
P.O. Box 2070 - Kingshill
St. Croix, USVI 00851-2070

Project: 4 Winds (Stripper Test)
Sampled By: Client

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES		
24010-3	Lab Blank		
24010-4	Accuracy - % Recovery (Mean)		
24010-5	Precision - Relative % Difference		
PARAMETER	24010-3	24010-4	24010-5
Purgeables (601/602)			
Bromodichloromethane, ug/l	<1.0	---	---
Bromoform, ug/l	<5.0	---	---
Bromomethane, ug/l	<1.0	---	---
Carbon Tetrachloride, ug/l	<1.0	---	---
Chlorobenzene, ug/l	<1.0	98 %	1.1 %
Chloroethane, ug/l	<1.0	---	---
2-Chloroethylvinyl Ether, ug/l	<10J	---	---
Chloroform, ug/l	<1.0	---	---
Chloromethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---
1,2-Dichlorobenzene, ug/l	<1.0	---	---
1,3-Dichlorobenzene, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
Dichlorodifluoromethane, ug/l	<1.0	---	---
1,1-Dichloroethane, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethene, ug/l	<1.0	92 %	9.8 %
cis/trans-1,2-dichloroethylene, ug/l	<1.0	---	---
1,2-Dichloropropane, ug/l	<1.0	---	---
Cis-1,3-Dichloropropene, ug/l	<1.0	---	---
Trans-1,3-Dichloropropene, ug/l	<1.0	---	---
Methylene Chloride, ug/l	<1.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---
Tetrachloroethene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---

OUT 004 11-92

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24010

Received: 11 DEC 92

Mr. Bruce Green
Caribbean Hydro-Tech, Inc.
P.O. Box 2070 - Kingshill
St. Croix, USVI 00851-2070

Project: 4 Winds (Stripper Test)
Sampled By: Client

REPORT OF RESULTS

Page 4

NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES			
24010-3	Lab Blank			
10-4	Accuracy - % Recovery (Mean)			
10-5	Precision - Relative % Difference			
AMETER		24010-3	24010-4	24010-5
1,1,2-Trichloroethane, ug/l		<1.0	---	---
Trichloroethene, ug/l		<1.0	75 %	8.0 %
Trichlorofluoromethane, ug/l		<1.0	---	---
Methyl Chloride, ug/l		<1.0	---	---
Benzene, ug/l		<1.0	92 %	1.1 %
Methylbenzene, ug/l		<1.0	---	---
Toluene, ug/l		<1.0	100 %	1.0 %
Xylenes, ug/l		<1.0	---	---
Methyl-tert-butyl ether (MTBE), ug/l		<10	---	---
Date Analyzed		12.14.92	---	---
Method Number		601/602	---	---

Method Reference: EPA 40 CFR Part 136. J = Estimated Value.


Sandra Moll

001 1154

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24193

Received: 28 DEC 92

Mr. Lao Swayze
Hydrologic Associates U.S.A., Inc.
8925 S.W. 148th St., Suite 212
Miami, FL 33176

Project: 4 Winds
Sampled By: L. Swayze

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				DATE SAMPLED
24193-1	4WDT #2 (12.16/1830)				12-16-92
24193-2	4WDT #2 (12.16/2340)				12-16-92
24193-3	4WDT #2 (12.17/0730)				12-17-92
24193-4	4WDT #1 Before Stripper				12-18-92
24193-5	4WDT #1 After Stripper				12-18-92
PARAMETER	24193-1	24193-2	24193-3	24193-4	24193-5
Volatile Halocarbons					
Benzene, ug/l	1.3	2.3	1.7	14	<0.50
Bromobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane, ug/l	<1.0	<0.50	<1.0	<1.0	<0.50
N-Butylbenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Sec-Butylbenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Tert-Butylbenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform, ug/l	1.5	<0.50	<0.50	2.5	<0.50
Chloromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylene Dibromide, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50

TL 004 1765

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24193

Received: 28 DEC 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
8925 S.W. 148th St., Suite 212
Miami, FL 33176

Project: 4 Winds
Sampled By: L. Swayze

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
24193-1	4WDT #2 (12.16/1830)	12-16-92				
24193-2	4WDT #2 (12.16/2340)	12-16-92				
24193-3	4WDT #2 (12.17/0730)	12-17-92				
24193-4	4WDT #1 Before Stripper	12-18-92				
24193-5	4WDT #1 After Stripper	12-18-92				
PARAMETER	24193-1	24193-2	24193-3	24193-4	24193-5	
Dichlorodifluoromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,2-Dichloroethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,1-Dichloroethene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Cis-1,2-Dichloroethylene, ug/l	31	32	29	140	<0.50	
Trans-1,2-Dichloroethene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,2-Dichloropropane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,3-Dichloropropane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,3-Dichloropropylene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
2,2-Dichloropropane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,1-Dichloropropylene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Ethylbenzene, ug/l	<0.50	<0.50	<0.50	3.8	<0.50	
Hexachlorobutadiene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Isopropylbenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
P-Isopropyltoluene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Methylene Chloride, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
Naphthalene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
N-Propylbenzene , ug/l	<0.50	<0.50	<0.50	0.81	<0.50	
Styrene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,1,1,2-Tetrachloroethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<0.50	<1.0	<1.0	<1.0	
Tetrachloroethene, ug/l	3.2	3.3	1.6	83	<0.50	
Toluene, ug/l	0.75	3.2	0.85	<0.50	<0.50	
1,2,3-Trichlorobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50	

SL SAVANNAH LABORATORIES

& ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24193

Received: 28 DEC 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
8925 S.W. 148th St., Suite 212
Miami, FL 33176

Project: 4 Winds
Sampled By: L. Swayze

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				DATE SAMPLED
24193-1	4WDT #2 (12.16/1830)				12-16-92
24193-2	4WDT #2 (12.16/2340)				12-16-92
24193-3	4WDT #2 (12.17/0730)				12-17-92
24193-4	4WDT #1 Before Stripper				12-18-92
24193-5	4WDT #1 After Stripper				12-18-92
PARAMETER	24193-1	24193-2	24193-3	24193-4	24193-5
1,2,4-Trichlorobenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene, ug/l	0.54	0.64	0.52	14	<0.50
Trichlorofluoromethane, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene, ug/l	<0.50	<0.50	<0.50	0.93	<0.50
Vinyl chloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
O-Xylene, ug/l	<0.50	<0.50	<0.50	2.7	<0.50
Date Analyzed	12.29.92	12.29.92	12.29.92	12.29.92	12.29.92
Method Number	EPA 502.2	EPA 502.2	EPA 502.2	EPA 502.2	EPA 502.2
Dilution factor	1	1	1	1	1

TUT 004 1167

SL SAVANNAH LABORATORIES

& ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24193

Received: 28 DEC 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
8925 S.W. 148th St., Suite 212
Miami, FL 33176

Project: 4 Winds
Sampled By: L. Swayze

REPORT OF RESULTS

Page 4

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

24193-6 Lab Blank
24193-7 Accuracy - % Recovery (Mean)
24193-8 Precision - Relative % Difference

PARAMETER	24193-6	24193-7	24193-8
Volatile Halocarbons			
Benzene, ug/l	<0.50	110 %	8.2 %
Bromobenzene, ug/l	<0.50	---	---
Bromochloromethane, ug/l	<0.50	---	---
Bromodichloromethane, ug/l	<0.50	---	---
Bromoform, ug/l	<1.0	---	---
Bromomethane, ug/l	<1.0	---	---
N-Butylbenzene, ug/l	<0.50	---	---
Sec-Butylbenzene, ug/l	<0.50	---	---
Tert-Butylbenzene, ug/l	<0.50	---	---
Carbon Tetrachloride, ug/l	<0.50	---	---
Chlorobenzene, ug/l	<0.50	104 %	10 %
Chloroethane, ug/l	<1.0	---	---
Chloroform, ug/l	<0.50	---	---
Chloromethane, ug/l	<1.0	---	---
2-Chlorotoluene, ug/l	<0.50	---	---
4-Chlorotoluene, ug/l	<0.50	---	---
Chlorodibromomethane, ug/l	<0.50	---	---
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---
Ethylene Dibromide, ug/l	<1.0	---	---
Dibromomethane, ug/l	<0.50	---	---
1,2-Dichlorobenzene, ug/l	<0.50	---	---
1,3-Dichlorobenzene, ug/l	<0.50	---	---
1,4-Dichlorobenzene, ug/l	<0.50	---	---
Dichlorodifluoromethane, ug/l	<1.0	---	---
1,1-Dichloroethane, ug/l	<0.50	---	---

TUT 004 116B

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24193

Received: 28 DEC 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
8925 S.W. 148th St., Suite 212
Miami, FL 33176

Project: 4 Winds
Sampled By: L. Swayze

REPORT OF RESULTS

Page 5

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

24193-6 Lab Blank
24193-7 Accuracy - % Recovery (Mean)
24193-8 Precision - Relative % Difference

PARAMETER	24193-6	24193-7	24193-8
1,2-Dichloroethane, ug/l	<0.50	---	---
1,1-Dichloroethene, ug/l	<0.50	103 %	9.7 %
Cis-1,2-Dichloroethylene, ug/l	<0.50	---	---
Trans-1,2-Dichloroethene, ug/l	<0.50	---	---
1,2-Dichloropropane, ug/l	<0.50	---	---
1,3-Dichloropropane, ug/l	<0.50	---	---
1,3-Dichloropropylene, ug/l	<0.50	---	---
2,2-Dichloropropane, ug/l	<0.50	---	---
1,1-Dichloropropylene, ug/l	<0.50	---	---
Ethylbenzene, ug/l	<0.50	---	---
Hexachlorobutadiene, ug/l	<0.50	---	---
Isopropylbenzene, ug/l	<0.50	---	---
P-Isopropyltoluene, ug/l	<0.50	---	---
Methylene Chloride, ug/l	<0.50	---	---
Naphthalene, ug/l	<0.50	---	---
N-Propylbenzene, ug/l	<0.50	---	---
Styrene, ug/l	<0.50	---	---
1,1,1,2-Tetrachloroethane, ug/l	<0.50	---	---
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---
Tetrachloroethene, ug/l	<0.50	---	---
Toluene, ug/l	<0.50	108 %	5.6 %
1,2,3-Trichlorobenzene, ug/l	<0.50	---	---
1,2,4-Trichlorobenzene, ug/l	<0.50	---	---
1,1,1-Trichloroethane, ug/l	<0.50	---	---
1,1,2-Trichloroethane, ug/l	<0.50	---	---
Trichloroethylene, ug/l	<0.50	96 %	3.1 %

TUT 004 1167

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-24193

Received: 28 DEC 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
8925 S.W. 148th St., Suite 212
Miami, FL 33176

Project: 4 Winds
Sampled By: L. Swayze

REPORT OF RESULTS

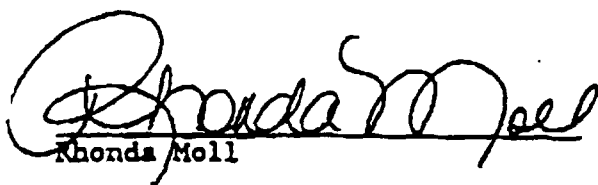
Page 6

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

24193-6 Lab Blank
24193-7 Accuracy - % Recovery (Mean)
24193-8 Precision - Relative % Difference

PARAMETER	24193-6	24193-7	24193-8
Trichlorofluoromethane, ug/l	<0.50	---	---
1,2,3-Trichloropropane, ug/l	<1.0	---	---
1,2,4-Trimethylbenzene, ug/l	<0.50	---	---
1,3,5-Trimethylbenzene, ug/l	<0.50	---	---
Vinyl chloride, ug/l	<1.0	---	---
O-Xylene, ug/l	<0.50	---	---
Date Analyzed	12.29.92	---	---
Method Number	EPA 502.2	---	---

Method Reference: EPA 40 CFR Part 136. J - Estimated Value.


Rhonda Moll

TOT 004 1170

**14707 S. Dixie Highway, Penthouse 403
Miami, Florida 33176
Phone: (305) 252-7118 Fax: (305) 254-0874**

Page 1 of 1[illegible]

APPENDIX III

AQUIFER TEST DATA: FOUR WINDS DEEP TEST WELL NO. 2
AND CURVE MATCHING GRAPHS

INDEX OF HERMIT TEST NUMBER AND CORRESPONDING WELL DATA

	<u>SE-1000-C</u>		<u>SE-2000</u>	
Test 0	FWDTW-2	Background	FWPW #1, 2 & 3	Background
Test 1	FWDTW-2	Drawdown Failed Test	FWPW #1, 2 & 3	Drawdown Failed Test
Test 2	FWDTW-2	Drawdown	FWPW #1, 2 & 3	Drawdown
Test 3	FWDTW-2	Recovery	FWPW #1, 2 & 3	Recovery
Test 4	FWDTW-1	Background	FWPW #1, 2 & 3	Background
Test 5	FWDTW-1	Drawdown Failed Test	FWPW #1, 2 & 3	Failed Drawdown
Test 6	FWDTW-1	Drawdown	FWPW #1, 2 & 3	Drawdown
Test 7	Batiste	Drawdown Failed Tests	FWPW #1, 2 & 3	Recovery
Test 8	Batiste	Drawdown	Bakery	Background and Drawdown
Test 9	Crusher	Drawdown		

SE1000C
Environmental Logger
01/06 12:16

Unit# 01513 Test 0

Setups:	INPUT 1	INPUT 2
-----	-----	-----
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW2
Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/15 18:44:11

Elapsed Time	INPUT 1	INPUT 2
-----	-----	-----
0.0000	13.481	22.842
15.0000	13.481	22.842
30.0000	13.481	22.849
45.0000	13.481	22.880
60.0000	13.481	22.861
75.0000	13.481	22.861
90.0000	13.481	22.855
105.000	13.481	22.861
120.000	13.481	22.861
135.000	13.481	22.855
150.000	13.481	22.855
165.000	13.481	22.855
180.000	13.481	22.855
195.000	13.481	22.855
210.000	13.481	22.855
225.000	13.481	22.855
240.000	13.481	22.855
255.000	13.481	22.849
270.000	13.481	22.849
285.000	13.481	22.842
300.000	13.481	22.842
315.000	13.481	22.842
330.000	13.481	22.849
345.000	13.481	22.842
360.000	13.481	22.849
375.000	13.481	22.849

390.000	13.481	22.849
405.000	13.481	22.849
420.000	13.481	22.849
435.000	13.481	22.849
450.000	13.481	22.842
465.000	13.481	22.849
480.000	13.481	22.849
495.000	13.481	22.849
510.000	13.481	22.849
525.000	13.481	22.849
540.000	13.481	22.849
555.000	13.481	22.855
570.000	13.481	22.855
585.000	13.481	22.861
600.000	13.481	22.861
615.000	13.481	22.861
630.000	13.481	22.861
645.000	13.481	22.867
660.000	13.481	22.861
675.000	13.481	22.867
690.000	13.481	22.867
705.000	13.481	22.867
720.000	13.481	22.867
735.000	13.481	22.874
750.000	13.481	22.874
765.000	13.481	22.874
780.000	13.481	22.880
795.000	13.481	22.886
810.000	13.481	22.886
825.000	13.481	22.886
840.000	13.481	22.886
855.000	13.481	22.893
870.000	13.481	22.893
885.000	13.481	22.886
900.000	13.481	22.893

SE2000
Environmental Logger
12/21 15:54

Unit# 253 Test 0

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)	
Mode	TOC	TOC	TOC	TOC	
I.D.		PW-2	PW-3	PW-1	
Reference	0.000	13.715	12.525	11.815	
SG	50.000	1.000	1.000	1.000	
Linearity	0.010	0.004	0.003	0.010	
Scale factor	10.056	10.003	10.013	10.056	
Offset	-0.026	-0.008	-0.133	-0.026	
Delay mSEC	50.000	50.000	50.000	50.000	

Step 0 12/15 22:14:55

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4	-----
0.0000	0.028	13.699	12.518	11.805	
15.0000	0.028	13.677	12.512	11.767	
30.0000	0.028	13.670	12.512	11.751	
45.0000	0.028	13.664	12.509	11.722	
60.0000	0.028	13.654	12.509	11.710	
75.0000	0.028	13.645	12.506	11.684	
90.0000	0.028	13.636	12.502	11.668	
105.000	0.028	13.629	12.506	11.656	
120.000	0.028	13.623	12.506	11.640	
135.000	0.028	13.626	12.506	11.627	
150.000	0.028	13.620	12.502	11.611	
165.000	0.028	13.613	12.502	11.598	
180.000	0.028	13.610	12.502	11.586	
195.000	0.028	13.607	12.499	11.573	
210.000	0.028	13.598	12.499	11.560	
225.000	0.028	13.598	12.499	11.551	
240.000	0.028	13.594	12.499	11.538	
255.000	0.028	13.588	12.499	11.525	
270.000	0.028	13.585	12.499	11.516	
285.000	0.028	13.585	12.499	11.509	
300.000	0.028	13.579	12.496	11.497	
315.000	0.028	13.575	12.496	11.490	
330.000	0.028	13.579	12.499	11.484	
345.000	0.028	13.579	12.499	11.478	
360.000	0.028	13.579	12.502	11.471	

375.000	0.028	13.579	12.499	11.462
390.000	0.028	13.575	12.502	11.459
405.000	0.028	13.579	12.502	11.455
420.000	0.028	13.579	12.502	11.446
435.000	0.028	13.579	12.502	11.443
450.000	0.028	13.569	12.502	11.430
465.000	0.028	13.569	12.502	11.424
480.000	0.028	13.566	12.502	11.424
495.000	0.028	13.566	12.502	11.414
510.000	0.028	13.740	12.506	11.316
525.000	0.028	13.737	12.506	11.293
540.000	0.028	13.724	12.506	11.309
555.000	0.028	13.756	12.506	11.306
570.000	0.028	13.730	12.509	11.293
585.000	0.028	13.721	12.506	11.303
600.000	0.028	13.771	12.512	11.303
615.000	0.028	13.730	12.512	11.281
630.000	0.028	13.781	12.512	11.284
645.000	0.028	13.740	12.509	11.287
660.000	0.028	13.711	12.512	11.274
675.000	0.028	13.708	12.468	11.242
690.000	0.028	13.727	12.461	11.249
705.000	0.028	13.680	12.458	11.246
720.000	0.028	13.718	12.455	11.258
735.000	0.028	13.680	12.458	11.198

SE1000C
Environmental Logger
01/06 12:19

Unit# 01513 Test 1

Setups:	INPUT 1	INPUT 2
-----	-----	-----
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW2
Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/16 10:48:08

Elapsed Time	INPUT 1	INPUT 2
-----	-----	-----
0.0000	13.481	23.758
0.0033	13.481	30.462
0.0066	13.481	23.284
0.0100	13.481	21.894
0.0133	13.481	25.735
0.0166	13.481	25.407
0.0200	13.481	22.886
0.0233	13.481	24.137
0.0266	13.481	23.796
0.0300	13.481	24.478
0.0333	13.481	24.636
0.0500	13.481	25.072
0.0666	13.481	25.085
0.0833	13.481	24.851
0.1000	13.481	25.047
0.1166	13.481	24.946
0.1333	13.481	25.047
0.1500	13.481	24.990
0.1666	13.481	24.876
0.1833	13.481	24.933
0.2000	13.481	24.958
0.2166	13.481	24.838
0.2333	13.481	25.104
0.2500	13.481	24.870
0.2666	13.481	25.167
0.2833	13.481	25.116

0.3000	13.481	24.838
0.3166	13.481	24.952
0.3333	13.481	25.287
0.4166	13.481	25.148
0.5000	13.481	25.053
0.5833	13.481	25.192
0.6666	13.481	25.179
0.7500	13.481	25.356
0.8333	13.481	25.382
0.9166	13.481	24.611
1.0000	13.481	24.289
1.0833	13.481	24.990
1.1666	13.481	25.186
1.2500	13.481	25.400
1.3333	13.481	25.154
1.4166	13.481	25.167
1.5000	13.481	25.287
1.5833	13.481	25.236
1.6666	13.481	25.135
1.7500	13.481	25.110
1.8333	13.481	25.236
1.9166	13.481	25.186
2.0000	13.481	25.280
2.5000	13.481	24.889
3.0000	13.481	25.432
3.5000	13.481	25.615
4.0000	13.481	25.508
4.5000	13.481	25.685
5.0000	13.481	25.419
5.5000	13.481	25.236
6.0000	13.481	25.135
6.5000	13.481	25.659
7.0000	13.481	25.400
7.5000	13.481	25.287
8.0000	13.481	25.546
8.5000	13.481	23.114
9.0000	13.481	23.196
9.5000	13.481	23.139
10.0000	13.481	23.108
12.0000	13.481	23.032

SE2000
Environmental Logger
12/21 15:56

Unit# 253 Test 1

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/16 10:48:56

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	13.667	12.455	11.230
0.0083	0.028	13.689	12.458	11.230
0.0166	0.028	13.664	12.455	11.230
0.0250	0.028	13.664	12.455	11.217
0.0333	0.028	13.683	12.455	11.227
0.0416	0.028	13.664	12.455	11.223
0.0500	0.028	13.692	12.458	11.217
0.0583	0.028	13.667	12.455	11.220
0.0666	0.028	13.673	12.458	11.223
0.0750	0.028	13.670	12.458	11.223
0.0833	0.028	13.670	12.458	11.223
0.0916	0.028	13.667	12.458	11.223
0.1000	0.028	13.686	12.458	11.223
0.1083	0.028	13.686	12.458	11.227
0.1166	0.028	13.677	12.458	11.214
0.1250	0.028	13.664	12.458	11.214
0.1333	0.028	13.658	12.458	11.217
0.1416	0.028	13.686	12.458	11.214
0.1500	0.028	13.689	12.455	11.217
0.1583	0.028	13.696	12.458	11.214
0.1666	0.028	13.673	12.458	11.214
0.1750	0.028	13.689	12.455	11.217
0.1833	0.028	13.686	12.458	11.223
0.1916	0.028	13.673	12.458	11.223
0.2000	0.028	13.699	12.458	11.217

0.2083	0.028	13.715	12.458	11.207
0.2166	0.028	13.686	12.458	11.223
0.2250	0.028	13.699	12.461	11.220
0.2333	0.028	13.683	12.461	11.204
0.2416	0.028	13.680	12.461	11.214
0.2500	0.028	13.680	12.461	11.220
0.2583	0.028	13.689	12.458	11.223
0.2666	0.028	13.664	12.458	11.217
0.2750	0.028	13.711	12.461	11.223
0.2833	0.028	13.673	12.461	11.223
0.2916	0.028	13.670	12.461	11.223
0.3000	0.028	13.670	12.461	11.223
0.3083	0.028	13.670	12.458	11.223
0.3166	0.028	13.683	12.461	11.223
0.3250	0.028	13.664	12.461	11.223
0.3333	0.028	13.658	12.461	11.220
0.3500	0.028	13.661	12.461	11.217
0.3666	0.028	13.667	12.461	11.230
0.3833	0.028	13.677	12.461	11.214
0.4000	0.028	13.654	12.461	11.227
0.4166	0.028	13.677	12.461	11.217
0.4333	0.028	13.689	12.461	11.230
0.4500	0.028	13.667	12.461	11.223
0.4666	0.028	13.680	12.461	11.217
0.4833	0.028	13.692	12.461	11.220
0.5000	0.028	13.680	12.461	11.233
0.5166	0.028	13.686	12.461	11.227
0.5333	0.028	13.696	12.461	11.214
0.5500	0.028	13.689	12.461	11.230
0.5666	0.028	13.683	12.461	11.227
0.5833	0.028	13.683	12.461	11.223
0.6000	0.028	13.673	12.461	11.227
0.6166	0.028	13.673	12.461	11.227
0.6333	0.028	13.708	12.461	11.223
0.6500	0.028	13.699	12.461	11.227
0.6666	0.028	13.673	12.464	11.227
0.6833	0.028	13.670	12.464	11.227
0.7000	0.028	13.686	12.461	11.230
0.7166	0.028	13.705	12.464	11.227
0.7333	0.028	13.680	12.464	11.223
0.7500	0.028	13.670	12.464	11.223
0.7666	0.028	13.677	12.464	11.223
0.7833	0.028	13.696	12.464	11.217
0.8000	0.028	13.683	12.464	11.220
0.8166	0.028	13.686	12.464	11.214
0.8333	0.028	13.711	12.464	11.211
0.8500	0.028	13.683	12.464	11.223
0.8666	0.028	13.664	12.461	11.223

0.8833	0.028	13.689	12.464	11.207
0.9000	0.028	13.686	12.464	11.217
0.9166	0.028	13.686	12.464	11.217
0.9333	0.028	13.680	12.464	11.214
0.9500	0.028	13.702	12.464	11.211
0.9666	0.028	13.680	12.464	11.217
0.9833	0.028	13.680	12.464	11.214
1.0000	0.028	13.661	12.464	11.214
1.2000	0.028	13.670	12.468	11.207
1.4000	0.028	13.651	12.468	11.220
1.6000	0.028	13.639	12.471	11.217
1.8000	0.028	13.699	12.471	11.227
2.0000	0.028	13.686	12.471	11.223
2.2000	0.028	13.670	12.474	11.214
2.4000	0.028	13.670	12.474	11.214
2.6000	0.028	13.661	12.477	11.214
2.8000	0.028	13.673	12.477	11.236
3.0000	0.028	13.677	12.480	11.236
3.2000	0.028	13.686	12.480	11.220
3.4000	0.028	13.683	12.480	11.233
3.6000	0.028	13.680	12.483	11.217
3.8000	0.028	13.680	12.483	11.211
4.0000	0.028	13.673	12.487	11.214
4.2000	0.028	13.673	12.487	11.211
4.4000	0.028	13.677	12.490	11.236
4.6000	0.028	13.696	12.490	11.227
4.8000	0.028	13.673	12.490	11.227
5.0000	0.028	13.686	12.490	11.233
5.2000	0.028	13.705	12.490	11.217
5.4000	0.028	13.670	12.493	11.211
5.6000	0.028	13.639	12.493	11.192
5.8000	0.028	13.642	12.493	11.185
6.0000	0.028	13.661	12.493	11.188
6.2000	0.028	13.680	12.493	11.204
6.4000	0.028	13.692	12.499	11.220
6.6000	0.028	13.702	12.499	11.223
6.8000	0.028	13.689	12.499	11.230
7.0000	0.028	13.699	12.502	11.227
7.2000	0.028	13.689	12.502	11.223
7.4000	0.028	13.686	12.502	11.220
7.6000	0.028	13.683	12.502	11.214
7.8000	0.028	13.689	12.506	11.220
8.0000	0.028	13.680	12.506	11.217
8.2000	0.028	13.667	12.509	11.220
8.4000	0.028	13.692	12.509	11.223
8.6000	0.028	13.696	12.509	11.220
8.8000	0.028	13.683	12.509	11.230
9.0000	0.028	13.686	12.506	11.195

9.2000	0.028	13.683	12.506	11.185
9.4000	0.028	13.658	12.506	11.204
9.6000	0.028	13.664	12.502	11.201
9.8000	0.028	13.661	12.502	11.207
10.0000	0.028	13.677	12.502	11.192
12.0000	0.028	13.673	12.496	11.201
14.0000	0.028	13.664	12.490	11.182
16.0000	0.028	13.680	12.487	11.211
18.0000	0.028	13.648	12.483	11.147
20.0000	0.028	13.699	12.480	11.182
22.0000	0.028	13.680	12.477	11.166
24.0000	0.028	13.699	12.477	11.211

SE1000C
Environmental Logger
01/06 12:20

Unit# 01513 Test 2

Setups:	INPUT 1	INPUT 2
-----	-----	-----
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW2

Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/16 14:37:07

Elapsed Time	INPUT 1	INPUT 2
-----	-----	-----
0.0000	13.481	22.716
0.0033	13.481	23.916
0.0066	13.481	30.380
0.0100	13.481	23.891
0.0133	13.481	22.602
0.0166	13.481	25.419
0.0200	13.481	25.552
0.0233	13.481	22.855
0.0266	13.481	24.295
0.0300	13.481	23.455
0.0333	13.481	24.523
0.0500	13.481	25.198
0.0666	13.481	25.078
0.0833	13.481	24.958
0.1000	13.481	24.819
0.1166	13.481	25.022
0.1333	13.481	24.826
0.1500	13.481	24.731
0.1666	13.481	24.895
0.1833	13.481	24.624
0.2000	13.481	24.801
0.2166	13.481	25.053
0.2333	13.481	24.788
0.2500	13.481	25.041
0.2666	13.481	25.003
0.2833	13.481	25.091

0.3000	13.481	25.003
0.3166	13.481	24.940
0.3333	13.481	25.230
0.4166	13.481	24.984
0.5000	13.481	25.179
0.5833	13.481	25.047
0.6666	13.481	25.123
0.7500	13.481	25.198
0.8333	13.481	25.059
0.9166	13.481	25.217
1.0000	13.481	25.407
1.0833	13.481	25.236
1.1666	13.481	25.382
1.2500	13.481	25.299
1.3333	13.481	25.615
1.4166	13.481	25.009
1.5000	13.481	25.419
1.5833	13.481	25.438
1.6666	13.481	25.344
1.7500	13.481	25.287
1.8333	13.481	25.407
1.9166	13.481	25.224
2.0000	13.481	25.262
2.5000	13.481	25.280
3.0000	13.481	25.565
3.5000	13.481	25.179
4.0000	13.481	25.754
4.5000	13.481	25.419
5.0000	13.481	25.621
5.5000	13.481	25.407
6.0000	13.481	25.527
6.5000	13.481	25.375
7.0000	13.481	25.476
7.5000	13.481	25.205
8.0000	13.481	25.539
8.5000	13.481	25.217
9.0000	13.481	25.205
9.5000	13.481	25.243
10.0000	13.481	25.445
12.0000	13.481	25.678
14.0000	13.481	25.394
16.0000	13.481	25.615
18.0000	13.481	25.584
20.0000	13.481	25.546
22.0000	13.481	25.647
24.0000	13.481	25.634
26.0000	13.481	25.438
28.0000	13.481	25.552

30.0000	13.481	25.760
32.0000	13.481	25.394
34.0000	13.481	25.805
36.0000	13.481	25.937
38.0000	13.481	25.798
40.0000	13.481	25.754
42.0000	13.481	25.811
44.0000	13.481	25.975
46.0000	13.481	25.691
48.0000	13.481	25.962
50.0000	13.481	25.691
52.0000	13.481	25.811
54.0000	13.481	25.653
56.0000	13.481	26.000
58.0000	13.481	25.767
60.0000	13.481	26.063
62.0000	13.481	26.000
64.0000	13.481	26.026
66.0000	13.481	25.836
68.0000	13.481	26.063
70.0000	13.481	26.101
72.0000	13.481	25.988
74.0000	13.481	26.070
76.0000	13.481	25.843
78.0000	13.481	25.666
80.0000	13.481	25.748
82.0000	13.481	26.057
84.0000	13.481	26.114
86.0000	13.481	25.918
88.0000	13.481	25.786
90.0000	13.481	25.988
92.0000	13.481	26.133
94.0000	13.481	25.937
96.0000	13.481	25.887
98.0000	13.481	25.836
100.000	13.481	26.190
110.000	13.481	25.880
120.000	13.481	26.171
130.000	13.481	26.234
140.000	13.481	26.089
150.000	13.481	26.057
160.000	13.481	25.975
170.000	13.481	26.114
180.000	13.481	26.348
190.000	13.481	26.455
200.000	13.481	26.398
210.000	13.481	26.430
220.000	13.481	26.272

230.000	13.481	26.291
240.000	13.481	26.442
250.000	13.481	26.348
260.000	13.481	26.183
270.000	13.481	26.373
280.000	13.481	26.423
290.000	13.481	26.449
300.000	13.481	26.487
310.000	13.481	26.411
320.000	13.481	26.487
330.000	13.481	26.695
340.000	13.481	26.505
350.000	13.481	26.594
360.000	13.481	26.442
370.000	13.481	26.771
380.000	13.481	26.764
390.000	13.481	26.512
400.000	13.481	26.493
410.000	13.481	26.764
420.000	13.481	26.606
430.000	13.481	26.575
440.000	13.481	26.682
450.000	13.481	26.947
460.000	13.481	26.935
470.000	13.481	26.619
480.000	13.481	26.638
490.000	13.481	27.067
500.000	13.481	26.537
510.000	13.481	26.789
520.000	13.481	26.935
530.000	13.481	26.707
540.000	13.481	26.682
550.000	13.481	26.903
560.000	13.481	26.670
570.000	13.481	27.067
580.000	13.481	27.010
590.000	13.481	26.846
600.000	13.481	27.143
610.000	13.481	26.771
620.000	13.481	27.061
630.000	13.481	26.663
640.000	13.481	26.562
650.000	13.481	27.010
660.000	13.481	26.695
670.000	13.481	26.695
680.000	13.481	27.143
690.000	13.481	26.802
700.000	13.481	26.985

710.000	13.481	27.092
720.000	13.481	26.872
730.000	13.481	26.739
740.000	13.481	27.023
750.000	13.481	26.872
760.000	13.481	27.143
770.000	13.481	27.010
780.000	13.481	27.067
790.000	13.481	26.903
800.000	13.481	27.029
810.000	13.481	27.099
820.000	13.481	27.023
830.000	13.481	27.193
840.000	13.481	26.935
850.000	13.481	26.941
860.000	13.481	27.048
870.000	13.481	27.086
880.000	13.481	27.130
890.000	13.481	27.143
900.000	13.481	27.301
910.000	13.481	26.859
920.000	13.481	26.979
930.000	13.481	27.263
940.000	13.481	27.067
950.000	13.481	27.168
960.000	13.481	26.966
970.000	13.481	27.547
980.000	13.481	27.515
990.000	13.481	27.074
1000.00	13.481	27.105
1015.00	13.481	27.055
1030.00	13.481	27.156
1045.00	13.481	27.004
1060.00	13.481	27.358
1075.00	13.481	27.591
1090.00	13.481	27.358
1105.00	13.481	27.282

SE2000
Environmental Logger
12/21 16:00

Unit# 253 Test 2

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/16 14:38:12

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	13.658	12.458	11.147
0.0083	0.028	13.645	12.458	11.115
0.0166	0.028	13.673	12.455	11.128
0.0250	0.028	13.664	12.461	11.128
0.0333	0.028	13.658	12.458	11.144
0.0416	0.028	13.648	12.461	11.173
0.0500	0.028	13.667	12.461	11.115
0.0583	0.028	13.699	12.461	11.106
0.0666	0.028	13.689	12.458	11.125
0.0750	0.028	13.667	12.458	11.112
0.0833	0.028	13.680	12.461	11.169
0.0916	0.028	13.664	12.458	11.173
0.1000	0.028	13.670	12.461	11.166
0.1083	0.028	13.664	12.458	11.166
0.1166	0.028	13.677	12.458	11.169
0.1250	0.028	13.702	12.458	11.169
0.1333	0.028	13.658	12.458	11.166
0.1416	0.028	13.654	12.461	11.169
0.1500	0.028	13.670	12.458	11.166
0.1583	0.028	13.661	12.461	11.173
0.1666	0.028	13.667	12.458	11.169
0.1750	0.028	13.667	12.461	11.169
0.1833	0.028	13.664	12.458	11.173
0.1916	0.028	13.654	12.458	11.169
0.2000	0.028	13.683	12.461	11.173

0.2083	0.028	13.677	12.458	11.169
0.2166	0.028	13.677	12.458	11.173
0.2250	0.028	13.667	12.458	11.173
0.2333	0.028	13.667	12.458	11.173
0.2416	0.028	13.667	12.458	11.169
0.2500	0.028	13.673	12.458	11.166
0.2583	0.028	13.680	12.458	11.169
0.2666	0.028	13.683	12.458	11.173
0.2750	0.028	13.677	12.458	11.169
0.2833	0.028	13.670	12.458	11.125
0.2916	0.028	13.670	12.461	11.128
0.3000	0.028	13.673	12.458	11.176
0.3083	0.028	13.658	12.458	11.166
0.3166	0.028	13.658	12.461	11.173
0.3250	0.028	13.661	12.458	11.169
0.3333	0.028	13.677	12.461	11.169
0.3500	0.028	13.661	12.458	11.173
0.3666	0.028	13.686	12.458	11.173
0.3833	0.028	13.680	12.458	11.166
0.4000	0.028	13.677	12.461	11.169
0.4166	0.028	13.667	12.461	11.173
0.4333	0.028	13.661	12.461	11.169
0.4500	0.028	13.664	12.461	11.166
0.4666	0.028	13.667	12.461	11.173
0.4833	0.028	13.670	12.461	11.157
0.5000	0.028	13.661	12.461	11.173
0.5166	0.028	13.686	12.461	11.166
0.5333	0.028	13.670	12.461	11.169
0.5500	0.028	13.677	12.461	11.169
0.5666	0.028	13.689	12.461	11.173
0.5833	0.028	13.664	12.461	11.169
0.6000	0.028	13.667	12.461	11.169
0.6166	0.028	13.661	12.464	11.173
0.6333	0.028	13.673	12.464	11.166
0.6500	0.028	13.673	12.464	11.173
0.6666	0.028	13.654	12.461	11.166
0.6833	0.028	13.664	12.464	11.169
0.7000	0.028	13.667	12.464	11.169
0.7166	0.028	13.658	12.461	11.169
0.7333	0.028	13.696	12.464	11.169
0.7500	0.028	13.702	12.464	11.166
0.7666	0.028	13.677	12.464	11.166
0.7833	0.028	13.680	12.464	11.169
0.8000	0.028	13.661	12.464	11.163
0.8166	0.028	13.658	12.464	11.169
0.8333	0.028	13.677	12.464	11.166
0.8500	0.028	13.661	12.464	11.173
0.8666	0.028	13.670	12.464	11.169

0.8833	0.028	13.648	12.464	11.169
0.9000	0.028	13.667	12.464	11.166
0.9166	0.028	13.677	12.464	11.169
0.9333	0.028	13.680	12.464	11.166
0.9500	0.028	13.689	12.464	11.173
0.9666	0.028	13.702	12.464	11.173
0.9833	0.028	13.654	12.468	11.173
1.0000	0.028	13.692	12.464	11.179
1.2000	0.028	13.683	12.468	11.198
1.4000	0.028	13.680	12.471	11.207
1.6000	0.028	13.708	12.474	11.211
1.8000	0.028	13.715	12.474	11.214
2.0000	0.028	13.715	12.477	11.204
2.2000	0.028	13.677	12.477	11.179
2.4000	0.028	13.680	12.477	11.173
2.6000	0.028	13.673	12.480	11.179
2.8000	0.028	13.683	12.480	11.198
3.0000	0.028	13.667	12.483	11.204
3.2000	0.028	13.680	12.487	11.198
3.4000	0.028	13.651	12.483	11.198
3.6000	0.028	13.683	12.483	11.182
3.8000	0.028	13.648	12.487	11.188
4.0000	0.028	13.654	12.487	11.185
4.2000	0.028	13.648	12.490	11.182
4.4000	0.028	13.654	12.490	11.173
4.6000	0.028	13.667	12.493	11.182
4.8000	0.028	13.686	12.493	11.169
5.0000	0.028	13.673	12.493	11.173
5.2000	0.028	13.670	12.493	11.182
5.4000	0.028	13.696	12.496	11.185
5.6000	0.028	13.683	12.499	11.173
5.8000	0.028	13.667	12.496	11.179
6.0000	0.028	13.664	12.496	11.173
6.2000	0.028	13.667	12.499	11.169
6.4000	0.028	13.654	12.499	11.169
6.6000	0.028	13.683	12.502	11.176
6.8000	0.028	13.702	12.506	11.176
7.0000	0.028	13.648	12.502	11.166
7.2000	0.028	13.651	12.502	11.176
7.4000	0.028	13.661	12.506	11.173
7.6000	0.028	13.642	12.506	11.087
7.8000	0.028	13.632	12.509	11.090
8.0000	0.028	13.626	12.509	11.096
8.2000	0.028	13.651	12.509	11.096
8.4000	0.028	13.654	12.509	11.125
8.6000	0.028	13.654	12.512	11.118
8.8000	0.028	13.654	12.512	11.115
9.0000	0.028	13.636	12.515	11.115

9.2000	0.028	13.613	12.512	11.087
9.4000	0.028	13.639	12.512	11.068
9.6000	0.028	13.648	12.515	11.103
9.8000	0.028	13.642	12.515	11.112
10.0000	0.028	13.683	12.515	11.109
12.0000	0.028	13.661	12.525	11.077
14.0000	0.028	13.689	12.531	11.147
16.0000	0.028	13.692	12.540	11.118
18.0000	0.028	13.680	12.543	11.115
20.0000	0.028	13.661	12.550	11.106
22.0000	0.028	13.673	12.553	11.106
24.0000	0.028	13.696	12.559	11.138
26.0000	0.028	13.699	12.562	11.118
28.0000	0.028	13.689	12.575	11.093
30.0000	0.028	13.692	12.575	11.112
32.0000	0.028	13.715	12.575	11.109
34.0000	0.028	13.686	12.578	11.103
36.0000	0.028	13.702	12.581	11.099
38.0000	0.028	13.721	12.591	11.106
40.0000	0.028	13.683	12.588	11.106
42.0000	0.028	13.623	12.594	11.147
44.0000	0.028	13.636	12.600	11.144
46.0000	0.028	13.654	12.604	11.141
48.0000	0.028	13.673	12.607	11.176
50.0000	0.028	13.658	12.607	11.144
52.0000	0.028	13.626	12.610	11.122
54.0000	0.028	13.673	12.613	11.153
56.0000	0.028	13.620	12.616	11.118
58.0000	0.028	13.648	12.616	11.147
60.0000	0.028	13.651	12.619	11.138
62.0000	0.028	13.658	12.626	11.115
64.0000	0.028	13.737	12.629	11.144
66.0000	0.028	13.692	12.629	11.096
68.0000	0.028	13.692	12.632	11.106
70.0000	0.028	13.746	12.635	11.112
72.0000	0.028	13.715	12.638	11.103
74.0000	0.028	13.705	12.638	11.109
76.0000	0.028	13.699	12.642	11.093
78.0000	0.028	13.705	12.645	11.103
80.0000	0.028	13.724	12.648	11.106
82.0000	0.028	13.727	12.651	11.125
84.0000	0.028	13.724	12.651	11.099
86.0000	0.028	13.733	12.657	11.109
88.0000	0.028	13.683	12.657	11.090
90.0000	0.028	13.746	12.660	11.118
92.0000	0.028	13.727	12.664	11.112
94.0000	0.028	13.721	12.667	11.125
96.0000	0.028	13.730	12.667	11.118

98.0000	0.028	13.825	12.670	11.087
100.000	0.028	13.746	12.670	11.115
115.000	0.028	13.727	12.686	11.122
130.000	0.028	13.762	12.705	11.109
145.000	0.028	13.746	12.717	11.118
160.000	0.028	13.797	12.730	11.112
175.000	0.028	13.784	12.746	11.112
190.000	0.028	13.806	12.759	11.138
205.000	0.028	13.632	12.768	11.255
220.000	0.028	13.642	12.777	11.252
235.000	0.028	13.654	12.790	11.255
250.000	0.028	13.654	12.800	11.258
265.000	0.028	13.664	12.809	11.268
280.000	0.028	13.673	12.822	11.274
295.000	0.028	13.686	12.831	11.277
310.000	0.028	13.696	12.841	11.281
325.000	0.028	13.705	12.853	11.284
340.000	0.028	13.721	12.860	11.290
355.000	0.028	13.721	12.866	11.290
370.000	0.028	13.730	12.879	11.296
385.000	0.028	13.737	12.885	11.293
400.000	0.028	13.743	12.894	11.303
415.000	0.028	13.749	12.901	11.303
430.000	0.028	13.759	12.910	11.306
445.000	0.028	13.765	12.920	11.309
460.000	0.028	13.775	12.926	11.309
475.000	0.028	13.784	12.932	11.319
490.000	0.028	13.793	12.942	11.322
505.000	0.028	13.797	12.948	11.322
520.000	0.028	13.803	12.955	11.325
535.000	0.028	13.812	12.961	11.335
550.000	0.028	13.816	12.967	11.331
565.000	0.028	13.819	12.974	11.335
580.000	0.028	13.825	12.983	11.338
595.000	0.028	13.835	12.989	11.341
610.000	0.028	13.844	12.996	11.350
625.000	0.028	13.850	13.002	11.354
640.000	0.028	13.860	13.005	11.357
655.000	0.028	13.866	13.011	11.360
670.000	0.028	13.869	13.021	11.363
685.000	0.028	13.879	13.024	11.366
700.000	0.028	13.891	13.030	11.373
715.000	0.028	13.904	13.040	11.382
730.000	0.028	13.904	13.046	11.379
745.000	0.028	13.914	13.049	11.392
760.000	0.028	13.926	13.056	11.395
775.000	0.028	13.933	13.065	11.401
790.000	0.028	13.942	13.072	11.408

805.000	0.028	13.958	13.078	11.417
820.000	0.028	13.970	13.084	11.424
835.000	0.028	13.980	13.091	11.433
850.000	0.028	13.999	13.100	11.449
865.000	0.028	14.002	13.106	11.449
880.000	0.028	14.018	13.113	11.462
895.000	0.028	14.027	13.119	11.465
910.000	0.028	14.160	13.129	11.347
925.000	0.028	14.144	13.135	11.411
940.000	0.028	14.147	13.138	11.420
955.000	0.028	14.169	13.147	11.414
970.000	0.028	14.255	13.154	11.401
985.000	0.028	14.258	13.163	11.411
1000.00	0.028	14.274	13.170	11.420
1015.00	0.028	14.290	13.173	11.424
1030.00	0.028	14.315	13.182	11.465
1045.00	0.028	14.318	13.189	11.468
1060.00	0.028	14.350	13.192	11.465
1075.00	0.028	14.350	13.204	11.487
1090.00	0.028	14.381	13.211	11.494

SE1000C
Environmental Logger
01/06 12:27

Unit# 01513 Test 3

Setups:	INPUT 1	INPUT 2
-----	-----	-----
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW2
Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/17 09:10:15

Elapsed Time	INPUT 1	INPUT 2
-----	-----	-----
0.0000	13.481	27.130
0.0033	13.481	26.979
0.0066	13.481	27.206
0.0100	13.481	27.320
0.0133	13.481	28.519
0.0166	13.481	26.146
0.0200	13.481	26.777
0.0233	13.481	26.379
0.0266	13.481	26.310
0.0300	13.481	26.196
0.0333	13.481	26.095
0.0500	13.481	25.331
0.0666	13.481	24.857
0.0833	13.481	24.712
0.1000	13.481	24.819
0.1166	13.481	25.003
0.1333	13.481	25.167
0.1500	13.481	25.129
0.1666	13.481	25.148
0.1833	13.481	24.712
0.2000	13.481	25.041
0.2166	13.481	25.066
0.2333	13.481	25.198
0.2500	13.481	25.085
0.2666	13.481	25.129
0.2833	13.481	25.173

0.3000	13.481	25.173
0.3166	13.481	25.179
0.3333	13.481	25.186
0.4166	13.481	25.161
0.5000	13.481	25.179
0.5833	13.481	25.161
0.6666	13.481	25.161
0.7500	13.481	25.142
0.8333	13.481	25.129
0.9166	13.481	25.135
1.0000	13.481	25.116
1.0833	13.481	25.110
1.1666	13.481	25.097
1.2500	13.481	25.097
1.3333	13.481	25.085
1.4166	13.481	25.072
1.5000	13.481	25.072
1.5833	13.481	25.066
1.6666	13.481	25.059
1.7500	13.481	25.047
1.8333	13.481	25.047
1.9166	13.481	25.041
2.0000	13.481	25.034
2.5000	13.481	24.996
3.0000	13.481	24.971
3.5000	13.481	24.952
4.0000	13.481	24.933
4.5000	13.481	24.908
5.0000	13.481	24.895
5.5000	13.481	24.876
6.0000	13.481	24.864
6.5000	13.481	24.851
7.0000	13.481	24.832
7.5000	13.481	24.826
8.0000	13.481	24.813
8.5000	13.481	24.813
9.0000	13.481	24.801
9.5000	13.481	24.788
10.0000	13.481	24.775
12.0000	13.481	24.737
14.0000	13.481	24.712
16.0000	13.481	24.687
18.0000	13.481	24.662
20.0000	13.481	24.643
22.0000	13.481	24.617
24.0000	13.481	24.605
26.0000	13.481	24.592
28.0000	13.481	24.573

30.0000	13.481	24.561
32.0000	13.481	24.542
34.0000	13.481	24.523
36.0000	13.481	24.516
38.0000	13.481	24.497
40.0000	13.481	24.491
42.0000	13.481	24.478
44.0000	13.481	24.466
46.0000	13.481	24.453
48.0000	13.481	24.447
50.0000	13.481	24.441
52.0000	13.481	24.422
54.0000	13.481	24.415
56.0000	13.481	24.409
58.0000	13.481	24.403
60.0000	13.481	24.396
62.0000	13.481	24.384
64.0000	13.481	24.365
66.0000	13.481	24.358
68.0000	13.481	24.352
70.0000	13.481	24.346
72.0000	13.481	24.339
74.0000	13.481	24.333
76.0000	13.481	24.327
78.0000	13.481	24.321
80.0000	13.481	24.314
82.0000	13.481	24.314
84.0000	13.481	24.302
86.0000	13.481	24.289
88.0000	13.481	24.289
90.0000	13.481	24.276
92.0000	13.481	24.276
94.0000	13.481	24.264
96.0000	13.481	24.270
98.0000	13.481	24.257
100.000	13.481	24.251
110.000	13.481	24.232
120.000	13.481	24.194
130.000	13.481	24.175
140.000	13.481	24.150
150.000	13.481	24.125
160.000	13.481	24.118
170.000	13.481	24.087
180.000	13.481	24.068
190.000	13.481	24.055
200.000	13.481	24.036
210.000	13.481	24.030
220.000	13.481	24.011

230.000	13.481	23.998
240.000	13.481	23.979
250.000	13.481	23.979
260.000	13.481	23.954
270.000	13.481	23.942
280.000	13.481	23.929
290.000	13.481	23.910
300.000	13.481	23.916
310.000	13.481	23.897

SE2000
Environmental Logger
12/21 16:06

Unit# 253 Test 3

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/17 09:11:09

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	14.340	13.217	11.494
0.0083	0.028	14.331	13.217	11.490
0.0166	0.028	14.340	13.220	11.481
0.0250	0.028	14.343	13.217	11.500
0.0333	0.028	14.337	13.220	11.506
0.0416	0.028	14.359	13.220	11.503
0.0500	0.028	14.350	13.217	11.490
0.0583	0.028	14.331	13.217	11.503
0.0666	0.028	14.350	13.217	11.490
0.0750	0.028	14.334	13.217	11.506
0.0833	0.028	14.334	13.217	11.503
0.0916	0.028	14.334	13.217	11.503
0.1000	0.028	14.346	13.220	11.503
0.1083	0.028	14.334	13.217	11.503
0.1166	0.028	14.346	13.217	11.500
0.1250	0.028	14.346	13.217	11.500
0.1333	0.028	14.337	13.220	11.490
0.1416	0.028	14.334	13.220	11.503
0.1500	0.028	14.343	13.220	11.497
0.1583	0.028	14.343	13.217	11.497
0.1666	0.028	14.356	13.220	11.500
0.1750	0.028	14.346	13.220	11.500
0.1833	0.028	14.337	13.220	11.503
0.1916	0.028	14.346	13.217	11.503
0.2000	0.028	14.362	13.220	11.494

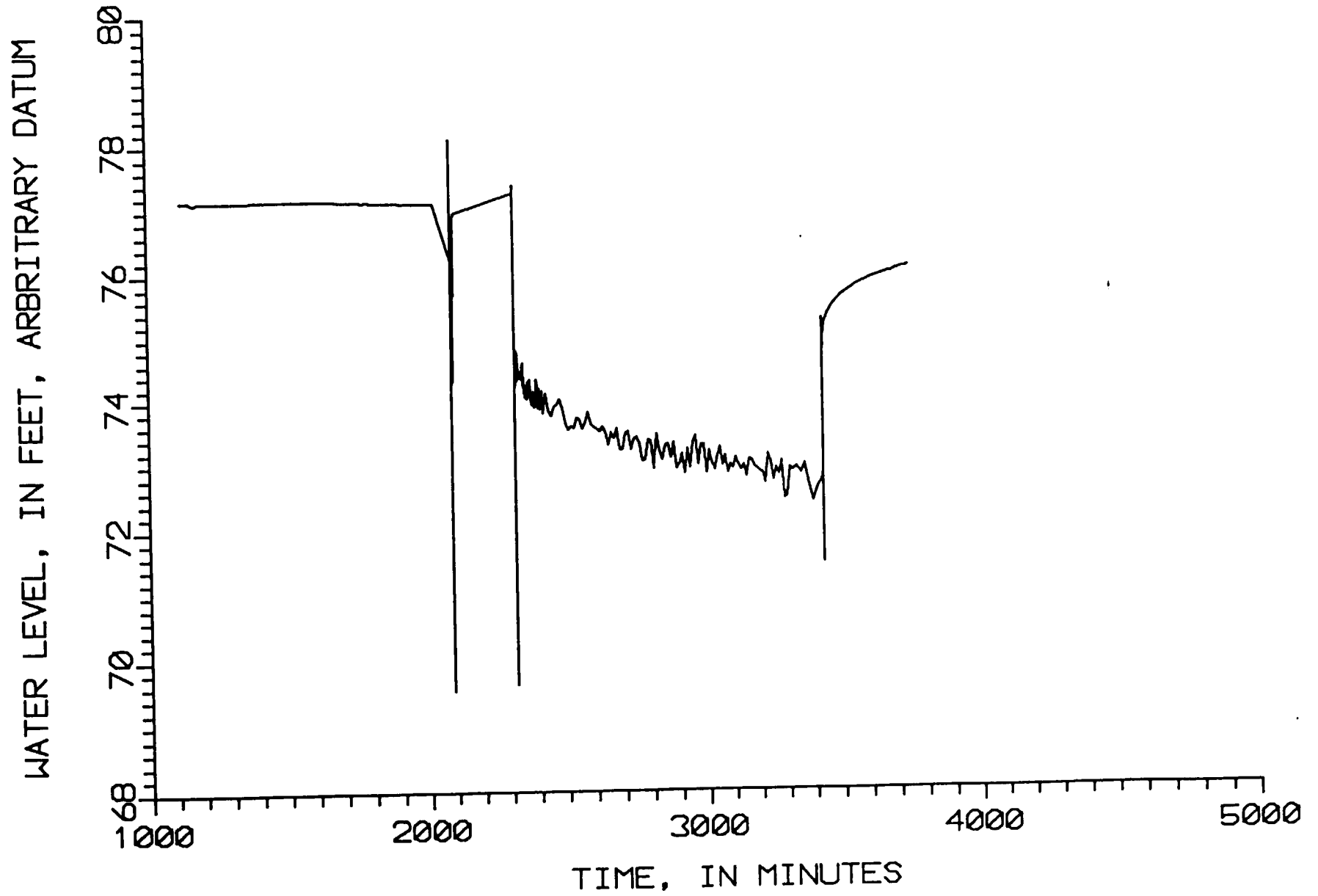
0.2083	0.028	14.350	13.217	11.478
0.2166	0.028	14.350	13.220	11.487
0.2250	0.028	14.378	13.217	11.497
0.2333	0.028	14.346	13.217	11.497
0.2416	0.028	14.359	13.220	11.500
0.2500	0.028	14.343	13.220	11.497
0.2583	0.028	14.359	13.217	11.484
0.2666	0.028	14.337	13.217	11.497
0.2750	0.028	14.356	13.217	11.481
0.2833	0.028	14.343	13.217	11.490
0.2916	0.028	14.343	13.217	11.494
0.3000	0.028	14.337	13.217	11.478
0.3083	0.028	14.340	13.217	11.494
0.3166	0.028	14.356	13.217	11.500
0.3250	0.028	14.350	13.217	11.487
0.3333	0.028	14.334	13.217	11.503
0.3500	0.028	14.353	13.217	11.490
0.3666	0.028	14.350	13.217	11.497
0.3833	0.028	14.343	13.217	11.500
0.4000	0.028	14.356	13.214	11.494
0.4166	0.028	14.372	13.217	11.500
0.4333	0.028	14.356	13.217	11.500
0.4500	0.028	14.337	13.214	11.497
0.4666	0.028	14.346	13.214	11.497
0.4833	0.028	14.362	13.214	11.484
0.5000	0.028	14.334	13.214	11.500
0.5166	0.028	14.334	13.214	11.503
0.5333	0.028	14.343	13.214	11.490
0.5500	0.028	14.331	13.214	11.500
0.5666	0.028	14.343	13.214	11.500
0.5833	0.028	14.346	13.214	11.487
0.6000	0.028	14.343	13.214	11.506
0.6166	0.028	14.337	13.214	11.506
0.6333	0.028	14.353	13.214	11.490
0.6500	0.028	14.359	13.214	11.494
0.6666	0.028	14.343	13.214	11.503
0.6833	0.028	14.375	13.214	11.490
0.7000	0.028	14.350	13.214	11.490
0.7166	0.028	14.346	13.214	11.503
0.7333	0.028	14.353	13.214	11.494
0.7500	0.028	14.346	13.214	11.481
0.7666	0.028	14.365	13.214	11.503
0.7833	0.028	14.343	13.214	11.500
0.8000	0.028	14.356	13.211	11.497
0.8166	0.028	14.356	13.214	11.509
0.8333	0.028	14.350	13.211	11.503
0.8500	0.028	14.378	13.211	11.490
0.8666	0.028	14.350	13.211	11.509

0.8833	0.028	14.381	13.211	11.500
0.9000	0.028	14.365	13.211	11.503
0.9166	0.028	14.359	13.211	11.516
0.9333	0.028	14.378	13.211	11.487
0.9500	0.028	14.378	13.211	11.506
0.9666	0.028	14.369	13.211	11.516
0.9833	0.028	14.356	13.208	11.516
1.0000	0.028	14.365	13.211	11.516
1.2000	0.028	14.425	13.208	11.519
1.4000	0.028	14.391	13.208	11.525
1.6000	0.028	14.356	13.204	11.525
1.8000	0.028	14.365	13.204	11.525
2.0000	0.028	14.369	13.201	11.535
2.2000	0.028	14.353	13.201	11.513
2.4000	0.028	14.353	13.198	11.516
2.6000	0.028	14.394	13.198	11.503
2.8000	0.028	14.346	13.195	11.484
3.0000	0.028	14.369	13.195	11.506
3.2000	0.028	14.350	13.192	11.494
3.4000	0.028	14.365	13.192	11.509
3.6000	0.028	14.340	13.192	11.503
3.8000	0.028	14.343	13.189	11.494
4.0000	0.028	14.372	13.189	11.522
4.2000	0.028	14.369	13.189	11.519
4.4000	0.028	14.356	13.185	11.525
4.6000	0.028	14.369	13.185	11.522
4.8000	0.028	14.346	13.182	11.506
5.0000	0.028	14.337	13.182	11.497
5.2000	0.028	14.327	13.182	11.497
5.4000	0.028	14.334	13.179	11.500
5.6000	0.028	14.337	13.179	11.513
5.8000	0.028	14.359	13.179	11.497
6.0000	0.028	14.343	13.176	11.525
6.2000	0.028	14.350	13.176	11.528
6.4000	0.028	14.346	13.176	11.516
6.6000	0.028	14.350	13.176	11.525
6.8000	0.028	14.346	13.173	11.516
7.0000	0.028	14.365	13.173	11.513
7.2000	0.028	14.340	13.170	11.500
7.4000	0.028	14.340	13.170	11.500
7.6000	0.028	14.369	13.170	11.500
7.8000	0.028	14.350	13.170	11.513
8.0000	0.028	14.350	13.166	11.513
8.2000	0.028	14.353	13.166	11.522
8.4000	0.028	14.343	13.166	11.500
8.6000	0.028	14.343	13.166	11.516
8.8000	0.028	14.356	13.163	11.513
9.0000	0.028	14.391	13.163	11.509

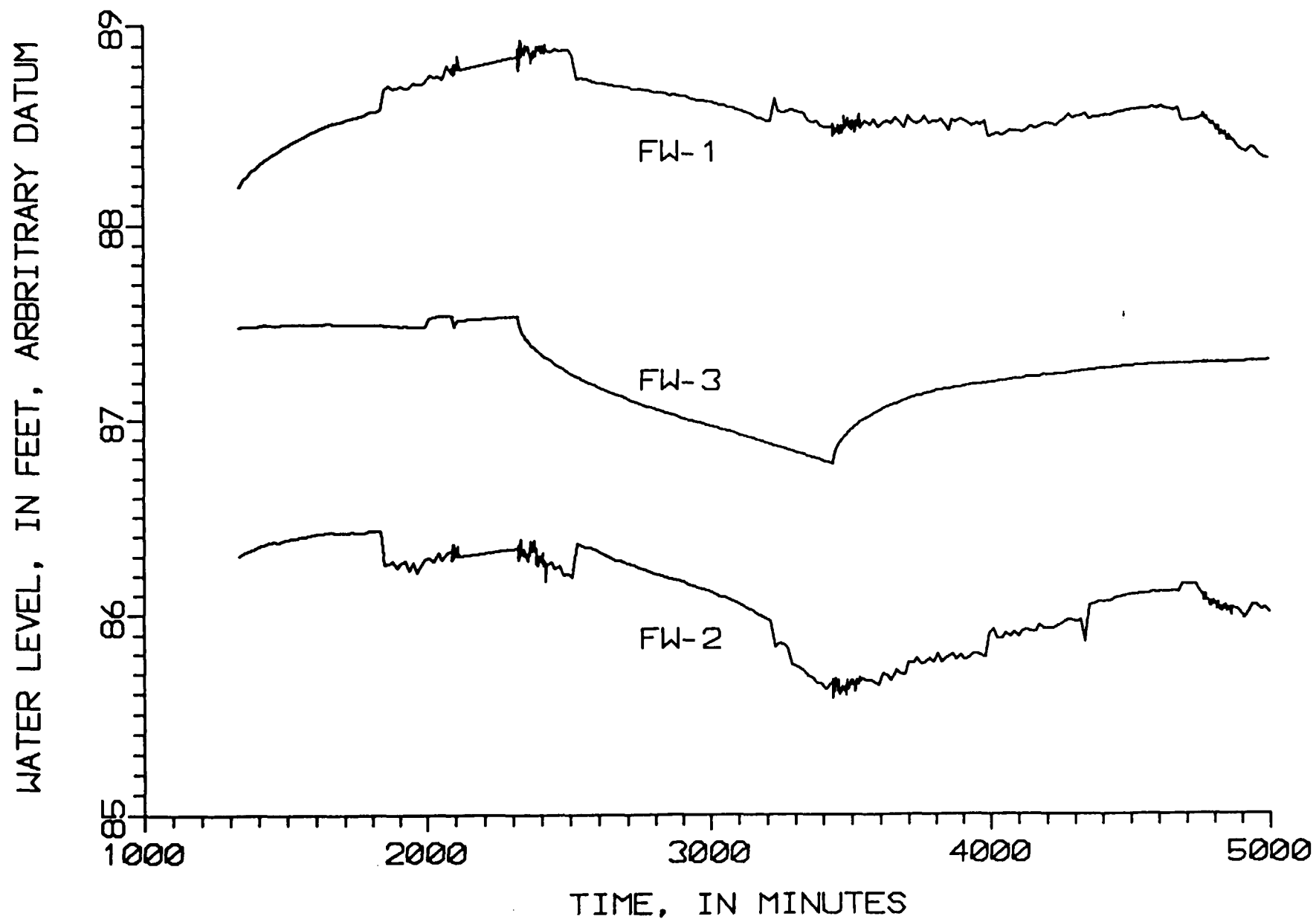
9.2000	0.028	14.343	13.160	11.503
9.4000	0.028	14.324	13.160	11.503
9.6000	0.028	14.343	13.160	11.506
9.8000	0.028	14.334	13.160	11.509
10.0000	0.028	14.359	13.160	11.519
12.0000	0.028	14.346	13.151	11.513
14.0000	0.028	14.350	13.141	11.516
16.0000	0.028	14.359	13.135	11.516
18.0000	0.028	14.391	13.132	11.506
20.0000	0.028	14.337	13.125	11.484
22.0000	0.028	14.365	13.119	11.487
24.0000	0.028	14.403	13.116	11.528
26.0000	0.028	14.391	13.110	11.519
28.0000	0.028	14.372	13.106	11.519
30.0000	0.028	14.375	13.103	11.509
32.0000	0.028	14.394	13.097	11.481
34.0000	0.028	14.365	13.094	11.522
36.0000	0.028	14.372	13.087	11.503
38.0000	0.028	14.372	13.084	11.500
40.0000	0.028	14.375	13.081	11.471
42.0000	0.028	14.387	13.075	11.436
44.0000	0.028	14.362	13.075	11.497
46.0000	0.028	14.410	13.072	11.484
48.0000	0.028	14.356	13.068	11.465
50.0000	0.028	14.372	13.062	11.484
52.0000	0.028	14.337	13.062	11.465
54.0000	0.028	14.378	13.056	11.446
56.0000	0.028	14.353	13.056	11.481
58.0000	0.028	14.375	13.053	11.490
60.0000	0.028	14.346	13.046	11.474
62.0000	0.028	14.359	13.046	11.497
64.0000	0.028	14.334	13.040	11.465
66.0000	0.028	14.343	13.037	11.506
68.0000	0.028	14.356	13.037	11.481
70.0000	0.028	14.353	13.034	11.459
72.0000	0.028	14.334	13.027	11.468
74.0000	0.028	14.359	13.027	11.478
76.0000	0.028	14.362	13.024	11.487
78.0000	0.028	14.387	13.021	11.519
80.0000	0.028	14.375	13.018	11.459
82.0000	0.028	14.343	13.018	11.509
84.0000	0.028	14.327	13.018	11.468
86.0000	0.028	14.343	13.011	11.478
88.0000	0.028	14.346	13.008	11.459
90.0000	0.028	14.353	13.011	11.487
92.0000	0.028	14.346	13.005	11.449
94.0000	0.028	14.318	13.002	11.427
96.0000	0.028	14.340	13.002	11.484

98.0000	0.028	14.340	12.999	11.497
100.000	0.028	14.324	12.996	11.490
115.000	0.028	14.337	12.983	11.462
130.000	0.028	14.334	12.970	11.484
145.000	0.028	14.343	12.955	11.455
160.000	0.028	14.359	12.945	11.494
175.000	0.028	14.299	12.932	11.474
190.000	0.028	14.312	12.923	11.459
205.000	0.028	14.334	12.910	11.474
220.000	0.028	14.280	12.904	11.443
235.000	0.028	14.302	12.894	11.462
250.000	0.028	14.305	12.888	11.494
265.000	0.028	14.239	12.879	11.433
280.000	0.028	14.245	12.872	11.462
295.000	0.028	14.220	12.863	11.471
310.000	0.028	14.252	12.860	11.462
325.000	0.028	14.242	12.850	11.436
340.000	0.028	14.223	12.847	11.474
355.000	0.028	14.242	12.841	11.459
370.000	0.028	14.195	12.834	11.465
385.000	0.028	14.239	12.831	11.449
400.000	0.028	14.214	12.828	11.478
415.000	0.028	14.204	12.825	11.506

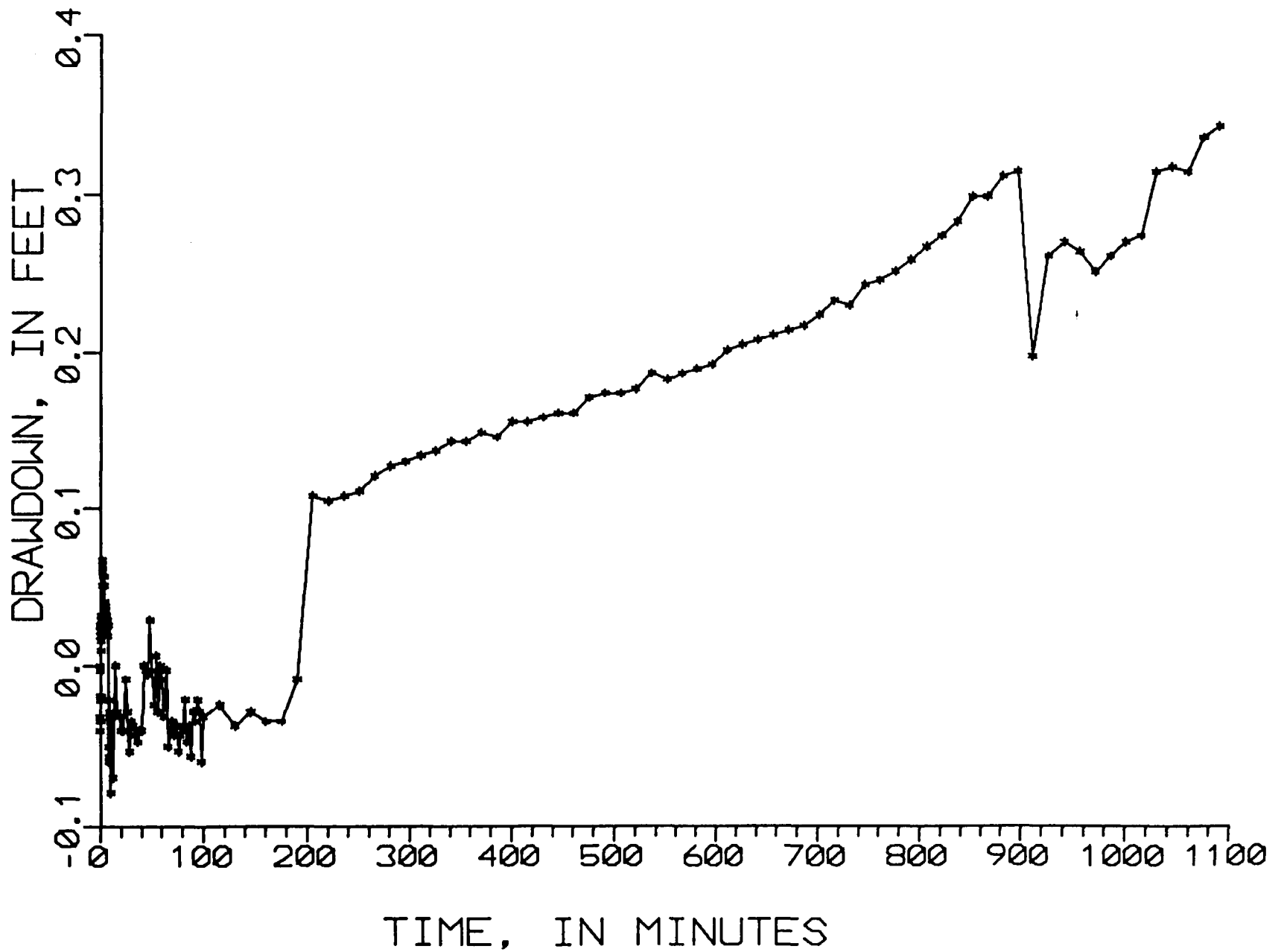
WATER LEVEL VERSUS TIME
FOUR WINDS DEEP TEST WELL #2



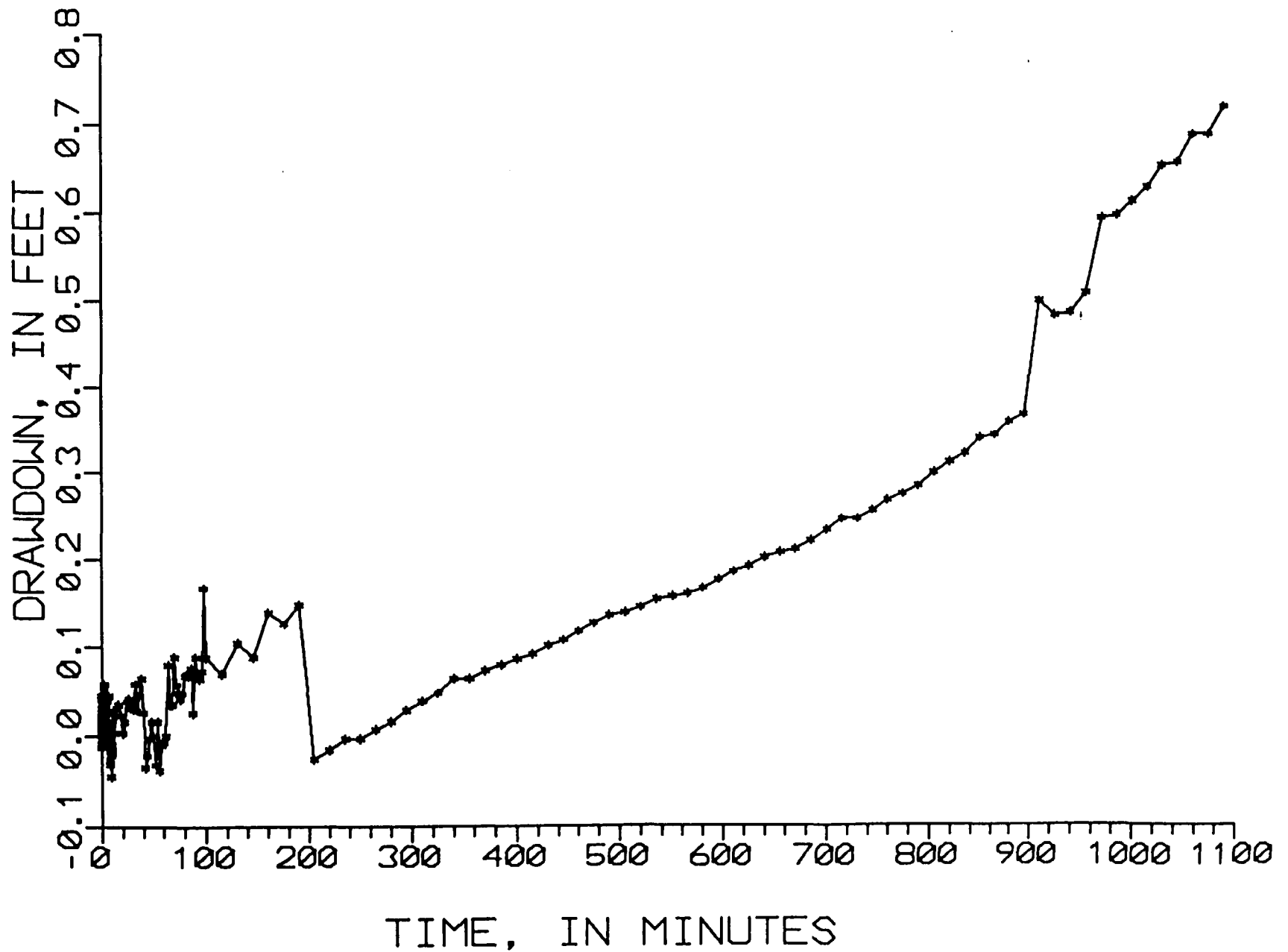
WATER LEVEL VERSUS TIME
FOUR WINDS SUPPLY WELLS #1, #2, AND #3



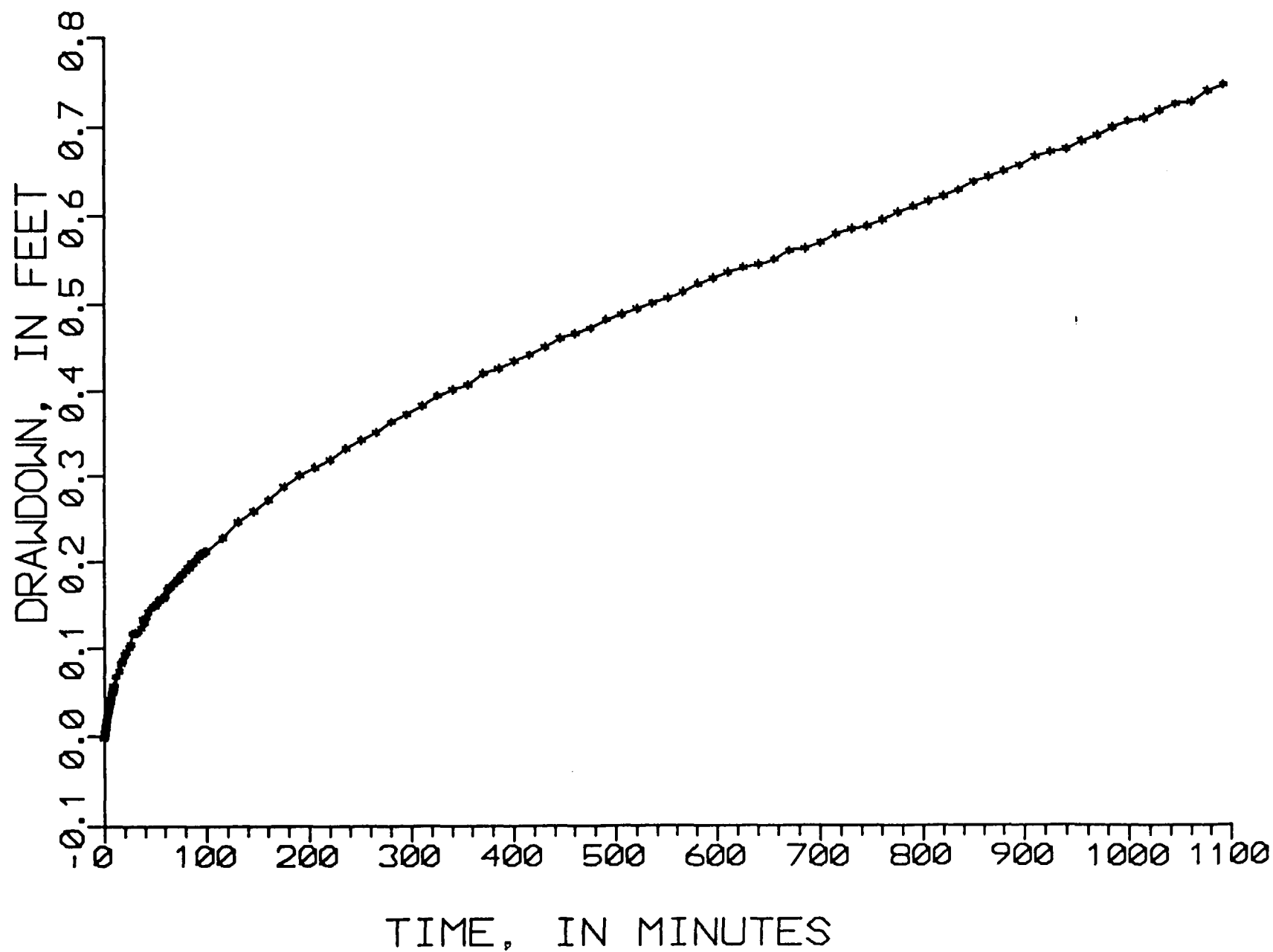
DRAWDOWN VERSUS TIME, FWDT2
FOUR WINDS SUPPLY WELL #1



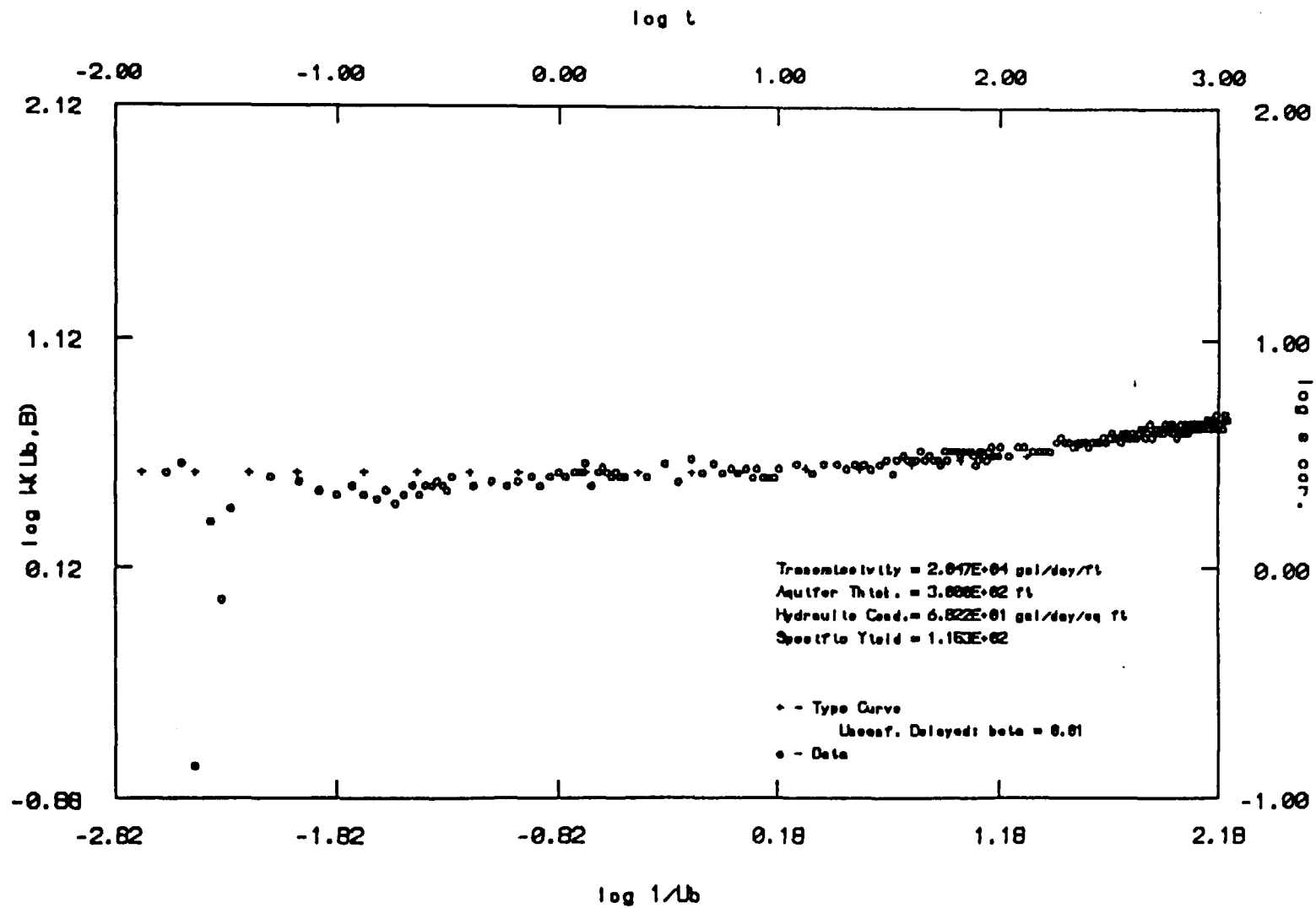
DRAWDOWN VERSUS TIME, FWDT2
FOUR WINDS SUPPLY WELL #2



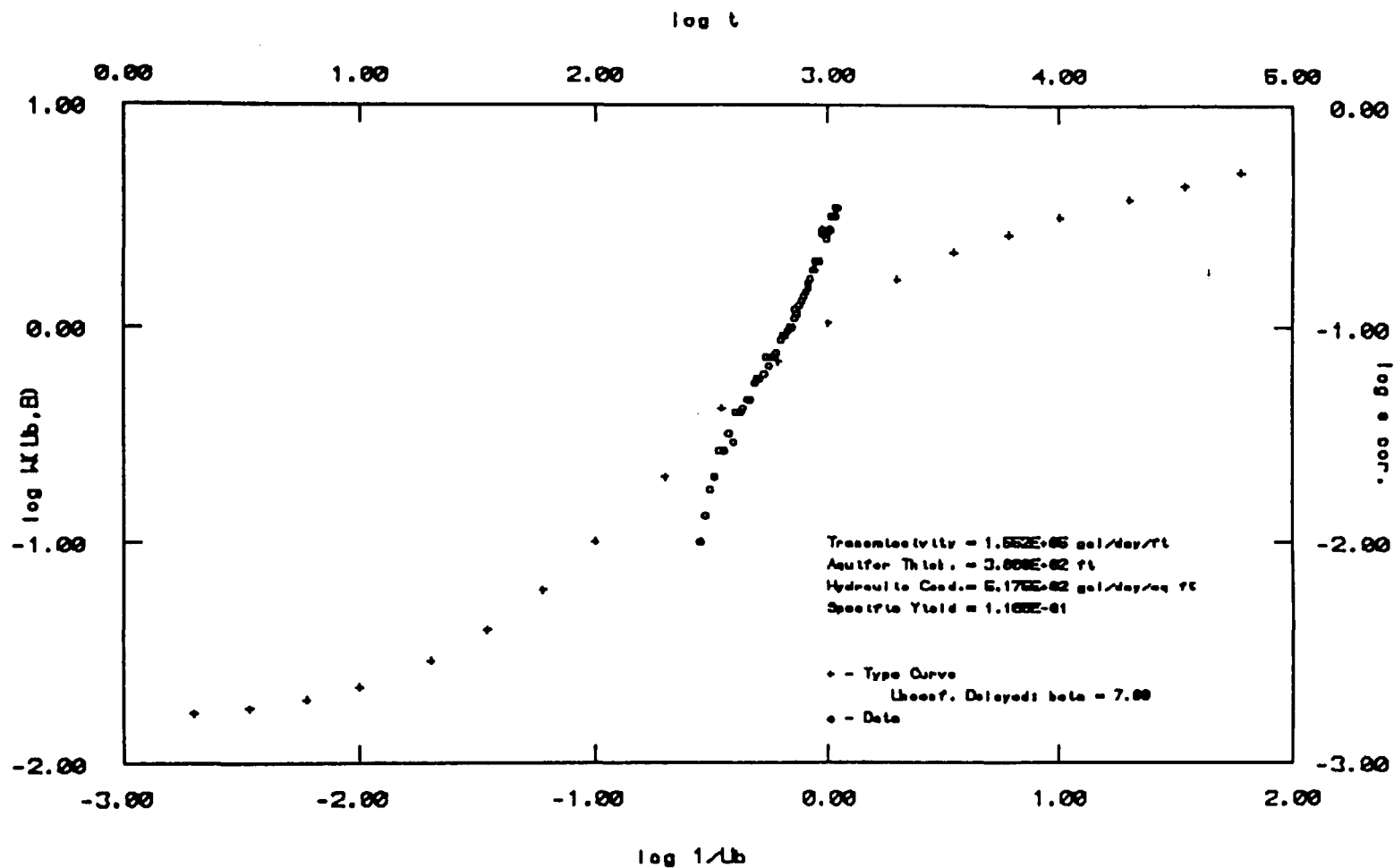
DRAWDOWN VERSUS TIME, FWDT2
FOUR WINDS SUPPLY WELL #3



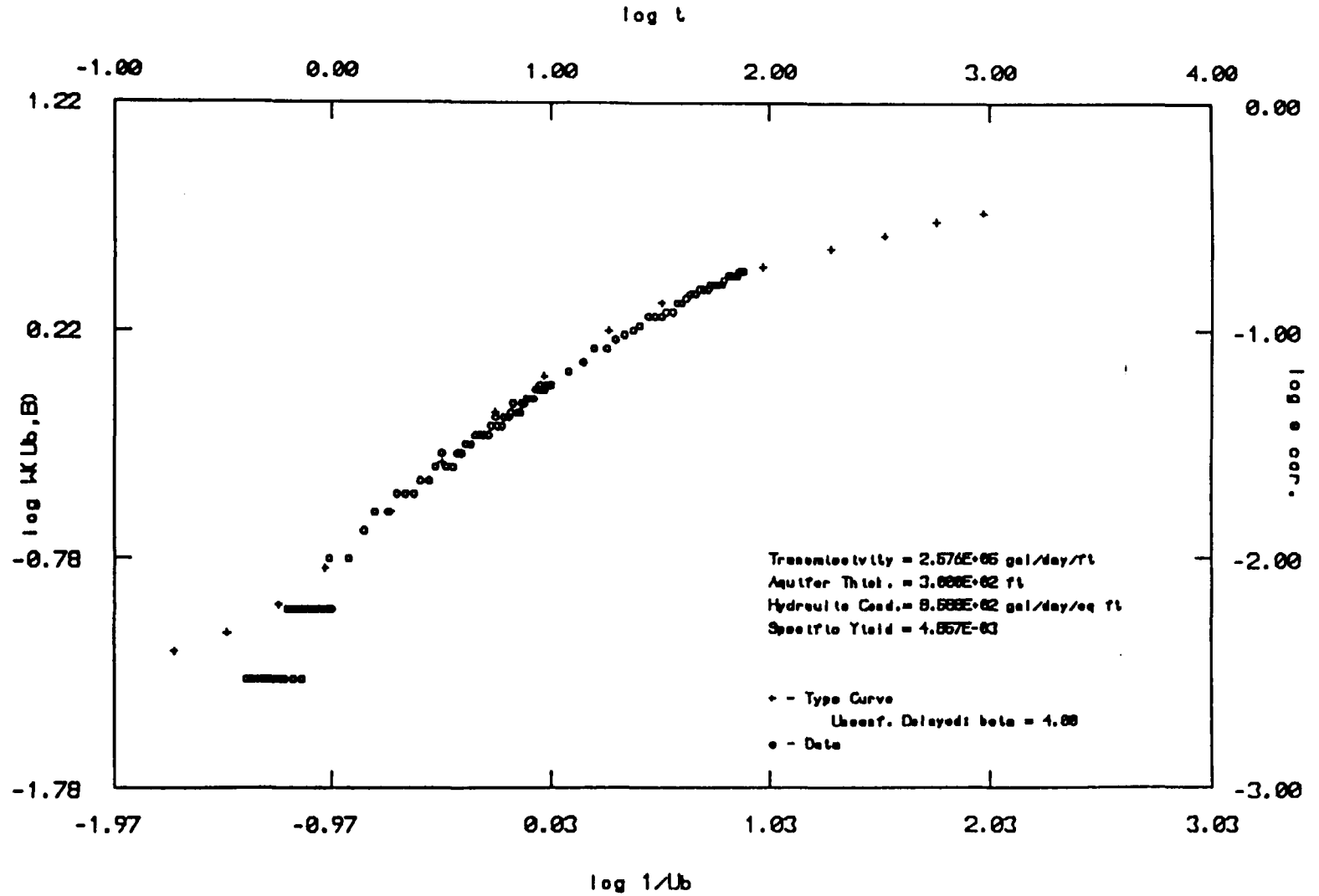
JURV MINICU FWDTW #2



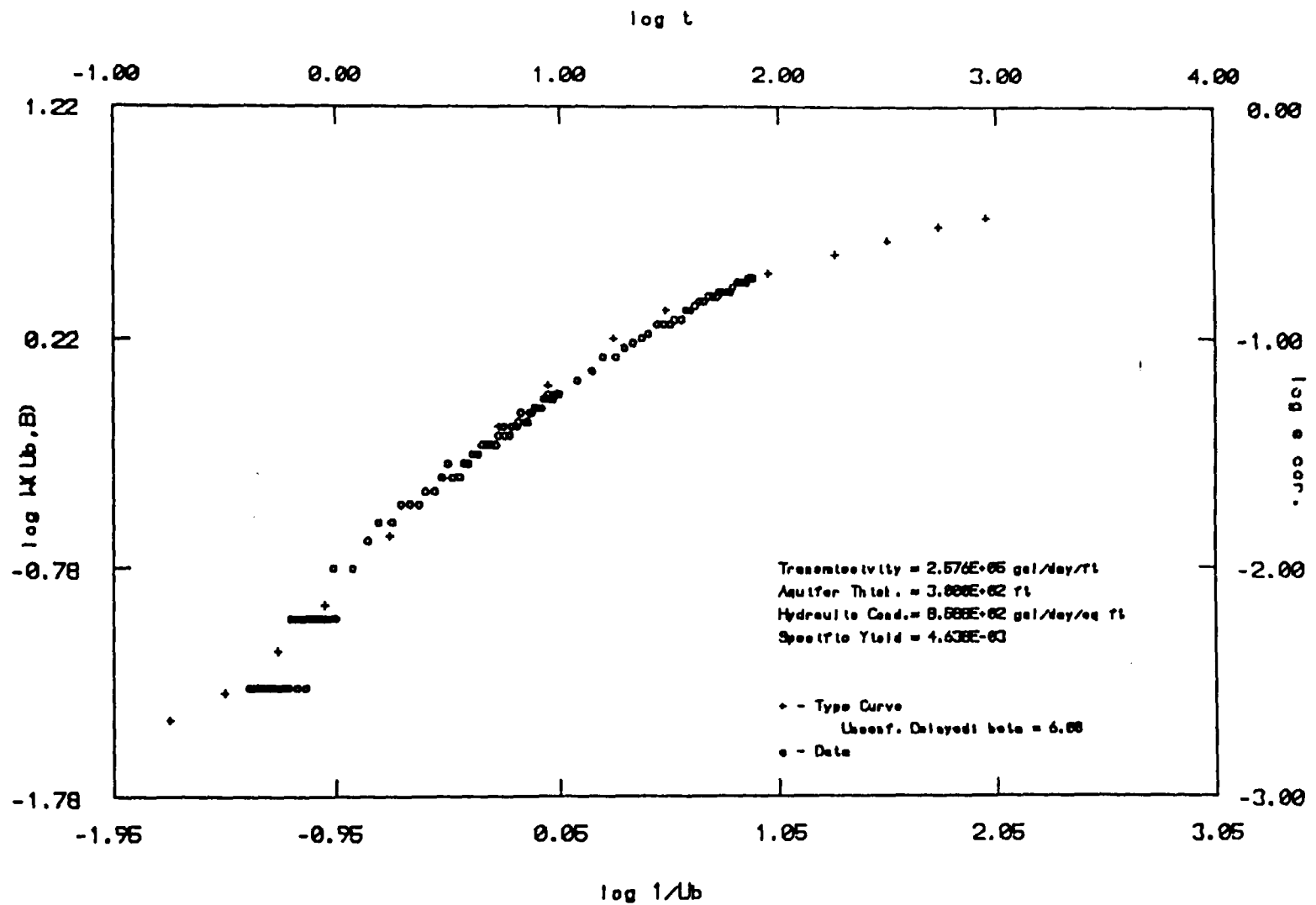
CURVE MATCH DTW2--OW-FW #1



CURV MATCH DTW2--OW-FW-3



CURVE MATCH DTW2--OW-FW #3



APPENDIX IV

AQUIFER TEST DATA: FOUR WINDS DEEP TEST WELL NO. 1
AND CURVE MATCHING GRAPH

SE1000C
Environmental Logger
01/06 12:30

Unit# 01513 Test 4

Setups:	INPUT 1	INPUT 2
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW1
Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/17 15:59:02

Elapsed Time	INPUT 1	INPUT 2
0.0000	13.481	27.515
15.0000	13.481	27.522
30.0000	13.481	27.528
45.0000	13.481	39.708
60.0000	13.481	36.643
75.0000	13.481	28.355
90.0000	13.481	28.058
105.000	13.481	27.932
120.000	13.481	27.862
135.000	13.481	27.825
150.000	13.481	27.793
165.000	13.481	27.768
180.000	13.481	27.755
195.000	13.481	27.743
210.000	13.481	27.736
225.000	13.481	27.724
240.000	13.481	27.711
255.000	13.481	27.698
270.000	13.481	27.698
285.000	13.481	27.679
300.000	13.481	27.679
315.000	13.481	27.673
330.000	13.481	27.667
345.000	13.481	27.667
360.000	13.481	27.661
375.000	13.481	27.654

390.000	13.481	27.642
405.000	13.481	27.642
420.000	13.481	27.635
435.000	13.481	27.635
450.000	13.481	27.629
465.000	13.481	27.629
480.000	13.481	27.623
495.000	13.481	27.623
510.000	13.481	27.623
525.000	13.481	27.623
540.000	13.481	27.616
555.000	13.481	27.616
570.000	13.481	27.616
585.000	13.481	27.616
600.000	13.481	27.616
615.000	13.481	27.610
630.000	13.481	27.610
645.000	13.481	27.610
660.000	13.481	27.604
675.000	13.481	27.604
690.000	13.481	27.597
705.000	13.481	27.597
720.000	13.481	27.591
735.000	13.481	27.585
750.000	13.481	27.578
765.000	13.481	27.578
780.000	13.481	27.572
795.000	13.481	27.566
810.000	13.481	27.560
825.000	13.481	27.553
840.000	13.481	27.560
855.000	13.481	27.560
870.000	13.481	27.560
885.000	13.481	27.566

SE2000
Environmental Logger
12/21 16:12

Unit# 253 Test 4

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/17 16:14:57

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	14.195	12.822	11.452
15.0000	0.028	14.226	12.819	11.465
30.0000	0.028	14.201	12.815	11.449
45.0000	0.028	14.226	12.812	11.455
60.0000	0.028	14.217	12.809	11.468
75.0000	0.028	14.198	12.803	11.481
90.0000	0.028	14.195	12.803	11.468
105.000	0.028	14.204	12.800	11.478
120.000	0.028	14.211	12.796	11.459
135.000	0.028	14.094	12.793	11.535
150.000	0.028	14.065	12.790	11.528
165.000	0.028	14.116	12.787	11.516
180.000	0.028	14.116	12.784	11.525
195.000	0.028	14.087	12.781	11.522
210.000	0.028	14.106	12.777	11.500
225.000	0.028	14.081	12.774	11.509
240.000	0.028	14.106	12.774	11.506
255.000	0.028	14.078	12.771	11.513
270.000	0.028	14.075	12.765	11.500
285.000	0.028	14.081	12.765	11.481
300.000	0.028	14.081	12.762	11.494
315.000	0.028	14.049	12.762	11.490
330.000	0.028	14.065	12.755	11.474
345.000	0.028	14.065	12.755	11.468
360.000	0.028	14.065	12.752	11.471

375.000	0.028	14.056	12.749	11.481
390.000	0.028	14.049	12.746	11.459
405.000	0.028	14.034	12.746	11.446
420.000	0.028	14.024	12.743	11.424
435.000	0.028	14.030	12.740	11.443
450.000	0.028	14.034	12.736	11.433
465.000	0.028	14.021	12.733	11.433
480.000	0.028	14.135	12.733	11.420
495.000	0.028	13.948	12.730	11.446
510.000	0.028	13.942	12.727	11.439
525.000	0.028	13.936	12.724	11.436
540.000	0.028	13.933	12.724	11.433
555.000	0.028	13.929	12.717	11.430
570.000	0.028	13.929	12.717	11.427
585.000	0.028	13.917	12.714	11.417
600.000	0.028	13.910	12.714	11.411
615.000	0.028	13.907	12.711	11.408
630.000	0.028	13.901	12.708	11.405
645.000	0.028	13.895	12.708	11.398
660.000	0.028	13.895	12.705	11.398
675.000	0.028	13.891	12.702	11.395
690.000	0.028	13.891	12.702	11.392
705.000	0.028	13.888	12.698	11.392
720.000	0.028	13.882	12.698	11.385
735.000	0.028	13.885	12.698	11.392
750.000	0.028	13.879	12.698	11.385
765.000	0.028	13.882	12.695	11.392
780.000	0.028	13.882	12.695	11.395
795.000	0.028	13.876	12.692	11.405
810.000	0.028	13.879	12.692	11.389
825.000	0.028	13.838	12.692	11.452
840.000	0.028	13.838	12.692	11.455
855.000	0.028	13.838	12.692	11.446
870.000	0.028	13.841	12.689	11.446

SE1000C
Environmental Logger
01/06 12:32

Unit# 01513 Test 5

Setups:	INPUT 1	INPUT 2
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW1
Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/18 06:59:59

Elapsed Time	INPUT 1	INPUT 2
0.0000	13.481	27.566
0.0033	13.481	27.566
0.0066	13.481	27.566
0.0100	13.481	27.566
0.0133	13.481	27.566
0.0166	13.481	27.566
0.0200	13.481	27.566
0.0233	13.481	27.566
0.0266	13.481	27.566
0.0300	13.481	27.572
0.0333	13.481	27.566
0.0500	13.481	27.560
0.0666	13.481	27.566
0.0833	13.481	27.566
0.1000	13.481	27.566
0.1166	13.481	27.566
0.1333	13.481	27.572
0.1500	13.481	27.566
0.1666	13.481	27.572
0.1833	13.481	27.566
0.2000	13.481	27.566
0.2166	13.481	27.572
0.2333	13.481	27.566
0.2500	13.481	27.572
0.2666	13.481	27.566
0.2833	13.481	27.566

0.3000	13.481	27.566
0.3166	13.481	27.566
0.3333	13.481	27.566
0.4166	13.481	27.566
0.5000	13.481	27.572
0.5833	13.481	27.566
0.6666	13.481	27.566
0.7500	13.481	27.566
0.8333	13.481	27.566
0.9166	13.481	27.566
1.0000	13.481	27.572
1.0833	13.481	27.566
1.1666	13.481	27.566
1.2500	13.481	27.566
1.3333	13.481	27.566
1.4166	13.481	27.572
1.5000	13.481	27.566
1.5833	13.481	27.566
1.6666	13.481	27.572
1.7500	13.481	27.566
1.8333	13.481	27.566
1.9166	13.481	27.566
2.0000	13.481	27.566

SE2000
Environmental Logger
12/21 16:14

Unit# 253 Test 5

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/18 07:00:55

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
0.0000	0.028	13.914	12.689	11.424
0.0083	0.028	13.904	12.692	11.417
0.0166	0.028	13.898	12.689	11.420
0.0250	0.028	13.888	12.689	11.427
0.0333	0.028	13.901	12.692	11.424
0.0416	0.028	13.901	12.689	11.430
0.0500	0.028	13.895	12.689	11.427
0.0583	0.028	13.898	12.689	11.427
0.0666	0.028	13.904	12.689	11.430
0.0750	0.028	13.907	12.689	11.424
0.0833	0.028	13.895	12.692	11.427
0.0916	0.028	13.895	12.689	11.427
0.1000	0.028	13.895	12.692	11.420
0.1083	0.028	13.888	12.689	11.420
0.1166	0.028	13.888	12.689	11.427
0.1250	0.028	13.891	12.692	11.424
0.1333	0.028	13.898	12.689	11.427
0.1416	0.028	13.904	12.689	11.427
0.1500	0.028	13.901	12.689	11.424
0.1583	0.028	13.888	12.689	11.427
0.1666	0.028	13.895	12.689	11.420
0.1750	0.028	13.891	12.689	11.427
0.1833	0.028	13.901	12.689	11.427
0.1916	0.028	13.898	12.689	11.414
0.2000	0.028	13.885	12.689	11.427

0.2083	0.028	13.888	12.689	11.424
0.2166	0.028	13.891	12.689	11.424
0.2250	0.028	13.888	12.689	11.427
0.2333	0.028	13.901	12.689	11.420
0.2416	0.028	13.888	12.689	11.424
0.2500	0.028	13.898	12.689	11.427
0.2583	0.028	13.888	12.689	11.424
0.2666	0.028	13.898	12.689	11.420
0.2750	0.028	13.895	12.689	11.424
0.2833	0.028	13.891	12.689	11.424
0.2916	0.028	13.891	12.689	11.424
0.3000	0.028	13.891	12.689	11.417
0.3083	0.028	13.914	12.689	11.420
0.3166	0.028	13.888	12.689	11.427
0.3250	0.028	13.901	12.689	11.417
0.3333	0.028	13.888	12.689	11.427
0.3500	0.028	13.895	12.689	11.420
0.3666	0.028	13.888	12.689	11.427
0.3833	0.028	13.885	12.689	11.427
0.4000	0.028	13.891	12.689	11.420
0.4166	0.028	13.901	12.689	11.411
0.4333	0.028	13.888	12.689	11.427
0.4500	0.028	13.891	12.689	11.427
0.4666	0.028	13.888	12.689	11.417
0.4833	0.028	13.891	12.689	11.420
0.5000	0.028	13.910	12.689	11.427
0.5166	0.028	13.891	12.689	11.427
0.5333	0.028	13.891	12.689	11.420
0.5500	0.028	13.904	12.689	11.424
0.5666	0.028	13.901	12.689	11.427
0.5833	0.028	13.888	12.689	11.424
0.6000	0.028	13.888	12.689	11.411
0.6166	0.028	13.888	12.689	11.427
0.6333	0.028	13.885	12.689	11.427
0.6500	0.028	13.904	12.689	11.424
0.6666	0.028	13.888	12.689	11.424
0.6833	0.028	13.888	12.689	11.424
0.7000	0.028	13.888	12.689	11.430
0.7166	0.028	13.885	12.689	11.420
0.7333	0.028	13.888	12.689	11.424
0.7500	0.028	13.898	12.692	11.427
0.7666	0.028	13.885	12.689	11.427
0.7833	0.028	13.888	12.689	11.427
0.8000	0.028	13.901	12.689	11.424
0.8166	0.028	13.888	12.689	11.430
0.8333	0.028	13.885	12.689	11.427
0.8500	0.028	13.888	12.689	11.424
0.8666	0.028	13.885	12.689	11.427

0.8833	0.028	13.901	12.689	11.420
0.9000	0.028	13.891	12.689	11.417
0.9166	0.028	13.888	12.689	11.427
0.9333	0.028	13.885	12.689	11.430
0.9500	0.028	13.891	12.689	11.424
0.9666	0.028	13.895	12.689	11.424
0.9833	0.028	13.891	12.689	11.424
1.0000	0.028	13.910	12.689	11.427
1.2000	0.028	13.898	12.689	11.427
1.4000	0.028	13.882	12.689	11.424
1.6000	0.028	13.888	12.689	11.430
1.8000	0.028	13.885	12.689	11.427
2.0000	0.028	13.898	12.689	11.420

SE1000C
Environmental Logger
01/06 12:33

Unit# 01513 Test 6

Setups:	INPUT 1	INPUT 2
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	FWDTW1
Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/18 07:13:59

Elapsed Time	INPUT 1	INPUT 2
0.0000	13.481	27.875
0.0033	13.481	41.325
0.0066	13.481	28.563
0.0100	13.481	27.414
0.0133	13.481	31.105
0.0166	13.481	29.825
0.0200	13.481	31.584
0.0233	13.481	31.502
0.0266	13.481	32.813
0.0300	13.481	32.025
0.0333	13.481	32.504
0.0500	13.481	33.242
0.0666	13.481	33.053
0.0833	13.481	33.015
0.1000	13.481	32.920
0.1166	13.481	32.939
0.1333	13.481	32.775
0.1500	13.481	32.813
0.1666	13.481	32.920
0.1833	13.481	32.889
0.2000	13.481	32.775
0.2166	13.481	32.876
0.2333	13.481	32.813
0.2500	13.481	32.958
0.2666	13.481	32.605
0.2833	13.481	32.901
0.3000	13.481	33.065
0.3166	13.481	32.750

0.3333	13.481	33.002
0.4166	13.481	32.996
0.5000	13.481	32.990
0.5833	13.481	32.977
0.6666	13.481	33.059
0.7500	13.481	33.229
0.8333	13.481	33.198
0.9166	13.481	33.141
1.0000	13.481	33.198
1.0833	13.481	33.462
1.1666	13.481	33.324
1.2500	13.481	33.261
1.3333	13.481	33.204
1.4166	13.481	33.336
1.5000	13.481	33.469
1.5833	13.481	33.380
1.6666	13.481	33.399
1.7500	13.481	33.632
1.8333	13.481	33.425
1.9166	13.481	33.525
2.0000	13.481	33.450
2.5000	13.481	33.658
3.0000	13.481	33.796
3.5000	13.481	33.960
4.0000	13.481	33.910
4.5000	13.481	34.124
5.0000	13.481	34.118
5.5000	13.481	34.048
6.0000	13.481	34.137
6.5000	13.481	34.326
7.0000	13.481	34.370
7.5000	13.481	34.307
8.0000	13.481	34.376
8.5000	13.481	34.370
9.0000	13.481	34.603
9.5000	13.481	34.571
10.0000	13.481	34.477
12.0000	13.481	34.779
14.0000	13.481	34.716
16.0000	13.481	34.823
18.0000	13.481	35.031
20.0000	13.481	35.000
22.0000	13.481	35.333
24.0000	13.481	35.107
26.0000	13.481	35.270
28.0000	13.481	35.264
30.0000	13.481	35.497
32.0000	13.481	35.478
34.0000	13.481	35.403
36.0000	13.481	35.371

38.0000	13.481	35.415
40.0000	13.481	36.253
42.0000	13.481	36.184
44.0000	13.481	36.253
46.0000	13.481	36.284
48.0000	13.481	36.373
50.0000	13.481	36.410
52.0000	13.481	36.555
54.0000	13.481	36.486
56.0000	13.481	36.385
58.0000	13.481	36.480
60.0000	13.481	36.952
62.0000	13.481	36.788
64.0000	13.481	36.945
66.0000	13.481	36.719
68.0000	13.481	36.820
70.0000	13.481	36.908
72.0000	13.481	36.813
74.0000	13.481	36.977
76.0000	13.481	37.008
78.0000	13.481	36.895
80.0000	13.481	36.964
82.0000	13.481	36.901
84.0000	13.481	37.065
86.0000	13.481	37.027
88.0000	13.481	37.166
90.0000	13.481	37.109
92.0000	13.481	37.172
94.0000	13.481	37.279
96.0000	13.481	37.078
98.0000	13.481	37.053
100.000	13.481	37.361
110.000	13.481	37.329
120.000	13.481	37.525
130.000	13.481	37.493
140.000	13.481	37.399
150.000	13.481	37.499
160.000	13.481	37.499
170.000	13.481	37.569
180.000	13.481	37.619
190.000	13.481	37.374
200.000	13.481	37.594
210.000	13.481	37.512
220.000	13.481	37.726
230.000	13.481	37.751
240.000	13.481	37.751

SE2000
Environmental Logger
12/21 16:17

Unit# 253 Test 6

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/18 07:14:56

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	13.907	12.689	11.433
0.0083	0.028	13.914	12.689	11.433
0.0166	0.028	13.904	12.692	11.436
0.0250	0.028	13.891	12.689	11.436
0.0333	0.028	13.898	12.692	11.436
0.0416	0.028	13.904	12.692	11.430
0.0500	0.028	13.923	12.689	11.430
0.0583	0.028	13.923	12.689	11.427
0.0666	0.028	13.914	12.692	11.433
0.0750	0.028	13.914	12.689	11.436
0.0833	0.028	13.898	12.692	11.430
0.0916	0.028	13.904	12.689	11.430
0.1000	0.028	13.901	12.689	11.430
0.1083	0.028	13.901	12.686	11.433
0.1166	0.028	13.891	12.689	11.433
0.1250	0.028	13.895	12.689	11.433
0.1333	0.028	13.910	12.686	11.427
0.1416	0.028	13.910	12.689	11.427
0.1500	0.028	13.920	12.689	11.430
0.1583	0.028	13.907	12.686	11.430
0.1666	0.028	13.904	12.689	11.430
0.1750	0.028	13.895	12.689	11.427
0.1833	0.028	13.891	12.689	11.430
0.1916	0.028	13.891	12.689	11.430
0.2000	0.028	13.891	12.689	11.436

0.2083	0.028	13.891	12.686	11.436
0.2166	0.028	13.907	12.689	11.433
0.2250	0.028	13.891	12.689	11.436
0.2333	0.028	13.901	12.689	11.427
0.2416	0.028	13.901	12.689	11.433
0.2500	0.028	13.904	12.689	11.427
0.2583	0.028	13.910	12.689	11.433
0.2666	0.028	13.904	12.686	11.430
0.2750	0.028	13.910	12.689	11.433
0.2833	0.028	13.895	12.689	11.430
0.2916	0.028	13.895	12.689	11.436
0.3000	0.028	13.895	12.689	11.424
0.3083	0.028	13.891	12.689	11.424
0.3166	0.028	13.910	12.689	11.430
0.3250	0.028	13.910	12.689	11.420
0.3333	0.028	13.907	12.689	11.427
0.3500	0.028	13.904	12.689	11.430
0.3666	0.028	13.910	12.689	11.424
0.3833	0.028	13.895	12.689	11.433
0.4000	0.028	13.907	12.689	11.424
0.4166	0.028	13.910	12.689	11.430
0.4333	0.028	13.891	12.689	11.433
0.4500	0.028	13.895	12.689	11.427
0.4666	0.028	13.891	12.689	11.433
0.4833	0.028	13.898	12.689	11.430
0.5000	0.028	13.891	12.689	11.433
0.5166	0.028	13.904	12.689	11.433
0.5333	0.028	13.901	12.689	11.424
0.5500	0.028	13.904	12.689	11.430
0.5666	0.028	13.891	12.689	11.433
0.5833	0.028	13.891	12.689	11.433
0.6000	0.028	13.910	12.689	11.433
0.6166	0.028	13.914	12.689	11.427
0.6333	0.028	13.891	12.689	11.433
0.6500	0.028	13.917	12.689	11.430
0.6666	0.028	13.891	12.689	11.433
0.6833	0.028	13.895	12.689	11.424
0.7000	0.028	13.891	12.689	11.430
0.7166	0.028	13.898	12.689	11.427
0.7333	0.028	13.904	12.689	11.427
0.7500	0.028	13.895	12.689	11.430
0.7666	0.028	13.910	12.689	11.433
0.7833	0.028	13.904	12.689	11.433
0.8000	0.028	13.891	12.689	11.430
0.8166	0.028	13.904	12.689	11.420
0.8333	0.028	13.891	12.689	11.433
0.8500	0.028	13.895	12.689	11.424
0.8666	0.028	13.901	12.689	11.427

0.8833	0.028	13.891	12.689	11.427
0.9000	0.028	13.914	12.689	11.427
0.9166	0.028	13.891	12.689	11.430
0.9333	0.028	13.907	12.689	11.430
0.9500	0.028	13.901	12.689	11.430
0.9666	0.028	13.904	12.689	11.427
0.9833	0.028	13.891	12.689	11.433
1.0000	0.028	13.904	12.689	11.424
1.2000	0.028	13.895	12.689	11.427
1.4000	0.028	13.904	12.689	11.427
1.6000	0.028	13.898	12.689	11.427
1.8000	0.028	13.907	12.689	11.430
2.0000	0.028	13.898	12.689	11.424
2.2000	0.028	13.895	12.692	11.430
2.4000	0.028	13.891	12.689	11.430
2.6000	0.028	13.901	12.689	11.424
2.8000	0.028	13.917	12.689	11.430
3.0000	0.028	13.895	12.689	11.430
3.2000	0.028	13.898	12.689	11.430
3.4000	0.028	13.888	12.692	11.433
3.6000	0.028	13.901	12.689	11.430
3.8000	0.028	13.898	12.689	11.430
4.0000	0.028	13.895	12.689	11.430
4.2000	0.028	13.891	12.686	11.427
4.4000	0.028	13.898	12.689	11.430
4.6000	0.028	13.895	12.689	11.424
4.8000	0.028	13.891	12.689	11.430
5.0000	0.028	13.907	12.692	11.433
5.2000	0.028	13.895	12.689	11.433
5.4000	0.028	13.895	12.689	11.427
5.6000	0.028	13.901	12.689	11.427
5.8000	0.028	13.910	12.689	11.436
6.0000	0.028	13.914	12.692	11.433
6.2000	0.028	13.904	12.689	11.430
6.4000	0.028	13.891	12.689	11.433
6.6000	0.028	13.907	12.689	11.430
6.8000	0.028	13.904	12.692	11.433
7.0000	0.028	13.914	12.692	11.436
7.2000	0.028	13.923	12.692	11.439
7.4000	0.028	13.898	12.692	11.436
7.6000	0.028	13.898	12.692	11.439
7.8000	0.028	13.898	12.692	11.433
8.0000	0.028	13.901	12.689	11.436
8.2000	0.028	13.898	12.689	11.439
8.4000	0.028	13.895	12.689	11.433
8.6000	0.028	13.907	12.689	11.436
8.8000	0.028	13.898	12.689	11.439
9.0000	0.028	13.898	12.689	11.443

9.2000	0.028	13.910	12.689	11.433
9.4000	0.028	13.920	12.689	11.433
9.6000	0.028	13.907	12.689	11.433
9.8000	0.028	13.910	12.689	11.436
10.0000	0.028	13.923	12.689	11.436
12.0000	0.028	13.920	12.689	11.446
14.0000	0.028	13.920	12.689	11.436
16.0000	0.028	13.920	12.686	11.433
18.0000	0.028	13.926	12.689	11.455
20.0000	0.028	13.948	12.689	11.452
22.0000	0.028	13.929	12.689	11.452
24.0000	0.028	13.955	12.689	11.459
26.0000	0.028	13.933	12.689	11.465
28.0000	0.028	13.933	12.689	11.471
30.0000	0.028	13.929	12.686	11.465
32.0000	0.028	13.945	12.689	11.465
34.0000	0.028	13.939	12.689	11.474
36.0000	0.028	13.926	12.689	11.465
38.0000	0.028	13.942	12.689	11.462
40.0000	0.028	13.939	12.689	11.471
42.0000	0.028	13.936	12.689	11.478
44.0000	0.028	13.945	12.689	11.481
46.0000	0.028	13.970	12.689	11.490
48.0000	0.028	13.948	12.689	11.500
50.0000	0.028	13.948	12.686	11.484
52.0000	0.028	13.933	12.686	11.484
54.0000	0.028	13.974	12.686	11.503
56.0000	0.028	13.974	12.689	11.503
58.0000	0.028	13.961	12.689	11.484
60.0000	0.028	13.967	12.689	11.494
62.0000	0.028	13.977	12.689	11.525
64.0000	0.028	13.955	12.689	11.519
66.0000	0.028	13.974	12.689	11.516
68.0000	0.028	13.967	12.689	11.516
70.0000	0.028	13.955	12.689	11.506
72.0000	0.028	13.948	12.686	11.516
74.0000	0.028	13.961	12.689	11.525
76.0000	0.028	13.958	12.686	11.522
78.0000	0.028	13.945	12.686	11.519
80.0000	0.028	13.964	12.689	11.519
82.0000	0.028	13.980	12.689	11.513
84.0000	0.028	13.961	12.689	11.544
86.0000	0.028	13.964	12.689	11.548
88.0000	0.028	13.961	12.686	11.538
90.0000	0.028	13.964	12.689	11.551
92.0000	0.028	13.958	12.686	11.544
94.0000	0.028	13.986	12.686	11.548
96.0000	0.028	13.961	12.686	11.525

98.0000	0.028	13.996	12.686	11.551
100.000	0.028	13.961	12.683	11.535
115.000	0.028	13.964	12.686	11.563
130.000	0.028	13.980	12.686	11.589
145.000	0.028	14.015	12.686	11.608
160.000	0.028	13.983	12.679	11.611
175.000	0.028	13.945	12.679	11.589
190.000	0.028	13.942	12.679	11.595
205.000	0.028	13.967	12.679	11.624
220.000	0.028	13.961	12.679	11.640
235.000	0.028	13.983	12.676	11.646

SE2000
Environmental Logger
12/21 16:21

Unit# 253 Test 7

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		PW-2	PW-3	PW-1
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/18 11:20:57

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	13.942	12.676	11.646
0.0083	0.028	13.945	12.676	11.633
0.0166	0.028	13.951	12.676	11.640
0.0250	0.028	13.955	12.676	11.649
0.0333	0.028	13.951	12.676	11.646
0.0416	0.028	13.951	12.676	11.643
0.0500	0.028	13.955	12.676	11.643
0.0583	0.028	13.958	12.676	11.646
0.0666	0.028	13.951	12.676	11.643
0.0750	0.028	13.951	12.676	11.646
0.0833	0.028	13.951	12.676	11.649
0.0916	0.028	13.955	12.676	11.649
0.1000	0.028	13.948	12.676	11.649
0.1083	0.028	13.958	12.676	11.646
0.1166	0.028	13.951	12.676	11.649
0.1250	0.028	13.951	12.676	11.652
0.1333	0.028	13.951	12.679	11.646
0.1416	0.028	13.964	12.676	11.649
0.1500	0.028	13.967	12.676	11.649
0.1583	0.028	13.958	12.676	11.652
0.1666	0.028	13.955	12.676	11.652
0.1750	0.028	13.964	12.676	11.649
0.1833	0.028	13.964	12.676	11.652
0.1916	0.028	13.955	12.676	11.649
0.2000	0.028	13.958	12.676	11.646

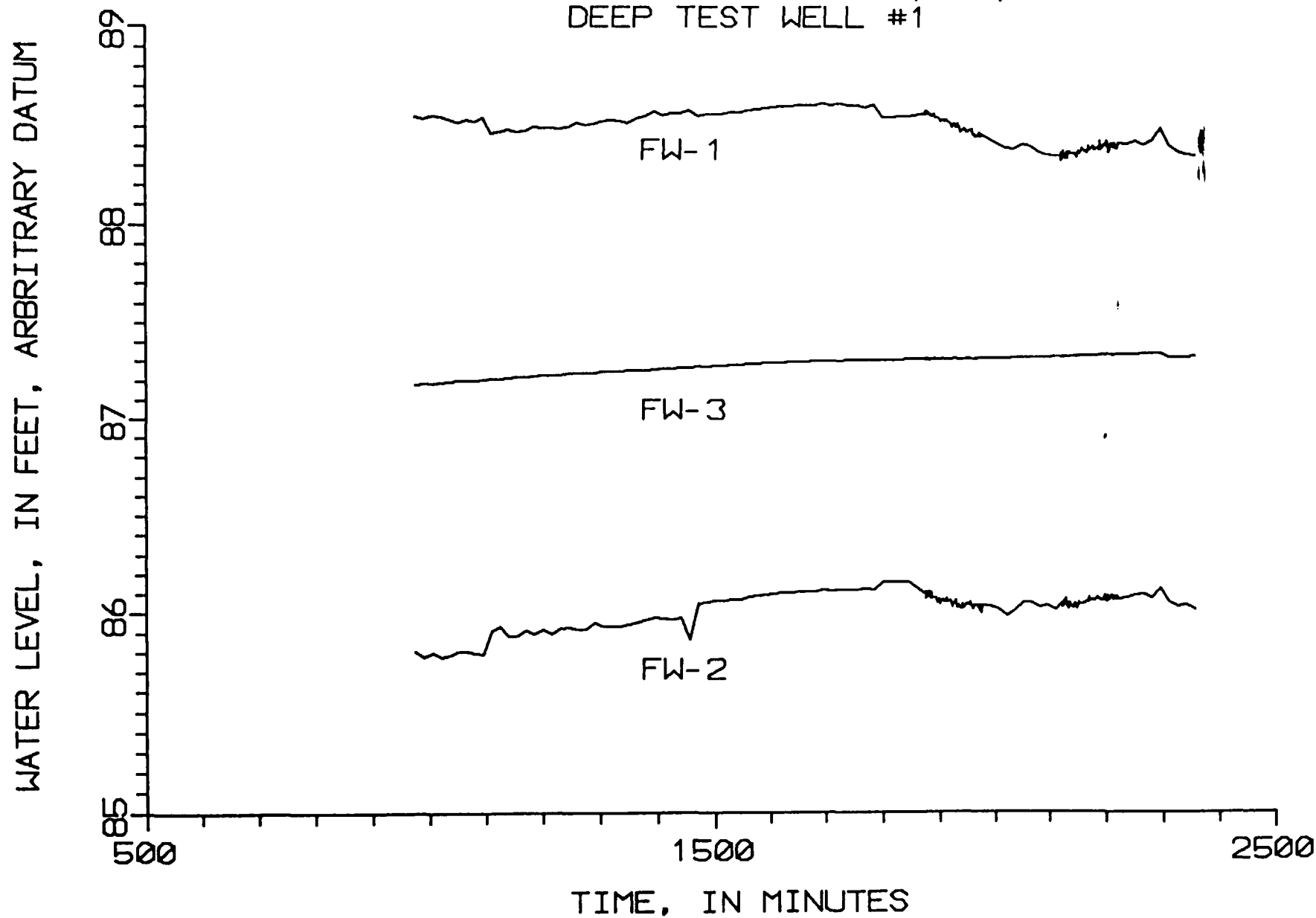
0.2083	0.028	13.955	12.676	11.649
0.2166	0.028	13.958	12.676	11.649
0.2250	0.028	13.964	12.676	11.649
0.2333	0.028	13.948	12.676	11.643
0.2416	0.028	13.945	12.676	11.643
0.2500	0.028	13.948	12.676	11.646
0.2583	0.028	13.948	12.676	11.637
0.2666	0.028	13.955	12.676	11.643
0.2750	0.028	13.951	12.679	11.643
0.2833	0.028	13.951	12.676	11.637
0.2916	0.028	13.948	12.676	11.637
0.3000	0.028	13.951	12.676	11.640
0.3083	0.028	13.951	12.676	11.646
0.3166	0.028	13.955	12.679	11.646
0.3250	0.028	13.948	12.676	11.646
0.3333	0.028	13.948	12.676	11.649
0.3500	0.028	13.958	12.676	11.643
0.3666	0.028	13.948	12.676	11.649
0.3833	0.028	13.961	12.676	11.649
0.4000	0.028	13.948	12.676	11.649
0.4166	0.028	13.948	12.676	11.649
0.4333	0.028	13.948	12.676	11.649
0.4500	0.028	13.948	12.676	11.649
0.4666	0.028	13.948	12.676	11.649
0.4833	0.028	13.961	12.676	11.643
0.5000	0.028	13.961	12.676	11.646
0.5166	0.028	13.961	12.676	11.649
0.5333	0.028	13.951	12.676	11.643
0.5500	0.028	13.961	12.676	11.649
0.5666	0.028	13.964	12.676	11.649
0.5833	0.028	13.961	12.676	11.652
0.6000	0.028	13.967	12.676	11.652
0.6166	0.028	13.958	12.676	11.649
0.6333	0.028	13.961	12.676	11.656
0.6500	0.028	13.964	12.676	11.649
0.6666	0.028	13.964	12.676	11.656
0.6833	0.028	13.964	12.676	11.652
0.7000	0.028	13.964	12.676	11.659
0.7166	0.028	13.958	12.676	11.662
0.7333	0.028	13.961	12.676	11.662
0.7500	0.028	13.955	12.676	11.656
0.7666	0.028	13.964	12.676	11.668
0.7833	0.028	13.958	12.676	11.662
0.8000	0.028	13.967	12.676	11.652
0.8166	0.028	13.967	12.676	11.652
0.8333	0.028	13.958	12.676	11.659
0.8500	0.028	13.964	12.676	11.652
0.8666	0.028	13.964	12.676	11.659

0.8833	0.028	13.961	12.676	11.665
0.9000	0.028	13.970	12.676	11.659
0.9166	0.028	13.967	12.676	11.659
0.9333	0.028	13.970	12.676	11.662
0.9500	0.028	13.964	12.676	11.652
0.9666	0.028	13.964	12.676	11.662
0.9833	0.028	13.958	12.676	11.656
1.0000	0.028	13.961	12.676	11.662
1.2000	0.028	13.970	12.676	11.656
1.4000	0.028	13.958	12.676	11.659
1.6000	0.028	13.961	12.676	11.659
1.8000	0.028	13.964	12.676	11.659
2.0000	0.028	13.961	12.676	11.665
2.2000	0.028	13.945	12.679	11.652
2.4000	0.028	13.945	12.676	11.630
2.6000	0.028	13.955	12.676	11.637
2.8000	0.028	13.945	12.676	11.633
3.0000	0.028	13.945	12.676	11.624
3.2000	0.028	13.958	12.673	11.627
3.4000	0.028	13.955	12.673	11.637
3.6000	0.028	13.951	12.673	11.627
3.8000	0.028	13.936	12.676	11.643
4.0000	0.028	13.939	12.673	11.633
4.2000	0.028	13.939	12.676	11.621
4.4000	0.028	13.948	12.673	11.643
4.6000	0.028	13.939	12.673	11.633
4.8000	0.028	13.945	12.676	11.637
5.0000	0.028	13.939	12.676	11.640
5.2000	0.028	13.936	12.676	11.637
5.4000	0.028	13.936	12.676	11.646
5.6000	0.028	13.942	12.673	11.649
5.8000	0.028	13.945	12.673	11.656
6.0000	0.028	13.942	12.673	11.656
6.2000	0.028	13.945	12.676	11.652
6.4000	0.028	13.939	12.673	11.640
6.6000	0.028	13.929	12.673	11.643
6.8000	0.028	13.926	12.676	11.643
7.0000	0.028	13.936	12.673	11.643
7.2000	0.028	13.942	12.673	11.646
7.4000	0.028	13.936	12.673	11.643
7.6000	0.028	13.939	12.676	11.640
7.8000	0.028	13.955	12.676	11.643
8.0000	0.028	13.964	12.676	11.649
8.2000	0.028	13.945	12.676	11.662
8.4000	0.028	13.942	12.673	11.662
8.6000	0.028	13.961	12.676	11.659
8.8000	0.028	13.961	12.673	11.656
9.0000	0.028	13.948	12.673	11.659

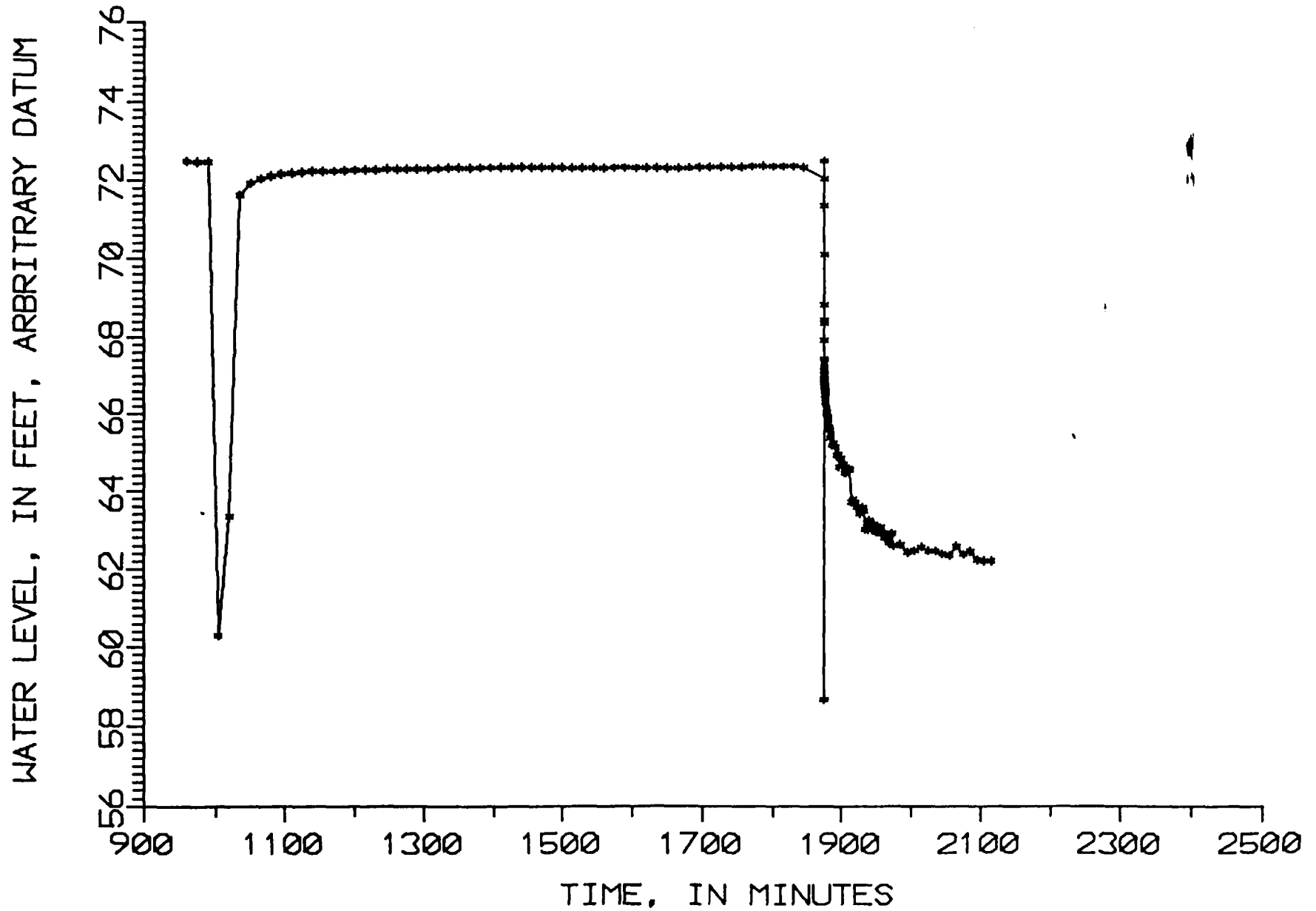
9.2000	0.028	13.945	12.673	11.652
9.4000	0.028	13.951	12.673	11.643
9.6000	0.028	13.955	12.673	11.643
9.8000	0.028	13.951	12.673	11.640
10.0000	0.028	13.964	12.673	11.624
12.0000	0.028	13.977	12.673	11.659
14.0000	0.028	13.942	12.673	11.627
16.0000	0.028	13.970	12.673	11.633
18.0000	0.028	13.964	12.673	11.637
20.0000	0.028	13.974	12.673	11.637
22.0000	0.028	13.958	12.670	11.633
24.0000	0.028	13.948	12.673	11.637
26.0000	0.028	13.980	12.670	11.637
28.0000	0.028	13.967	12.673	11.656
30.0000	0.028	13.945	12.673	11.621
32.0000	0.028	13.955	12.670	11.627
34.0000	0.028	13.955	12.670	11.637
36.0000	0.028	13.955	12.670	11.605
38.0000	0.028	13.948	12.667	11.614
40.0000	0.028	13.951	12.667	11.617
42.0000	0.028	13.948	12.667	11.621
44.0000	0.028	13.939	12.670	11.624
46.0000	0.028	13.945	12.667	11.630
48.0000	0.028	13.920	12.667	11.598
50.0000	0.028	13.939	12.667	11.614
52.0000	0.028	13.936	12.670	11.611
54.0000	0.028	13.929	12.667	11.608
56.0000	0.028	13.936	12.670	11.598
58.0000	0.028	13.939	12.667	11.617
60.0000	0.028	13.929	12.667	11.614
62.0000	0.028	13.929	12.667	11.605
64.0000	0.028	13.920	12.667	11.605
66.0000	0.028	13.929	12.664	11.614
68.0000	0.028	13.929	12.667	11.570
70.0000	0.028	13.939	12.667	11.617
72.0000	0.028	13.933	12.664	11.595
74.0000	0.028	13.939	12.664	11.605
76.0000	0.028	13.910	12.667	11.586
78.0000	0.028	13.939	12.667	11.598
80.0000	0.028	13.945	12.664	11.573
82.0000	0.028	13.910	12.664	11.582
84.0000	0.028	13.933	12.664	11.630
86.0000	0.028	13.920	12.664	11.592
88.0000	0.028	13.910	12.664	11.582
90.0000	0.028	13.917	12.667	11.579
92.0000	0.028	13.936	12.667	11.605
94.0000	0.028	13.917	12.664	11.582
96.0000	0.028	13.929	12.664	11.611

98.0000	0.028	13.917	12.664	11.611
100.000	0.028	13.929	12.664	11.582
115.000	0.028	13.923	12.664	11.589
130.000	0.028	13.910	12.664	11.570
145.000	0.028	13.907	12.660	11.592
160.000	0.028	13.923	12.660	11.567
175.000	0.028	13.876	12.657	11.506

WATER LEVEL VERSUS TIME
FOUR WINDS SUPPLY WELLS #1, #2, AND #3
DEEP TEST WELL #1



WATER LEVEL VERSUS TIME
FOUR WINDS DEEP TEST WELL #1



Data for Pump Test

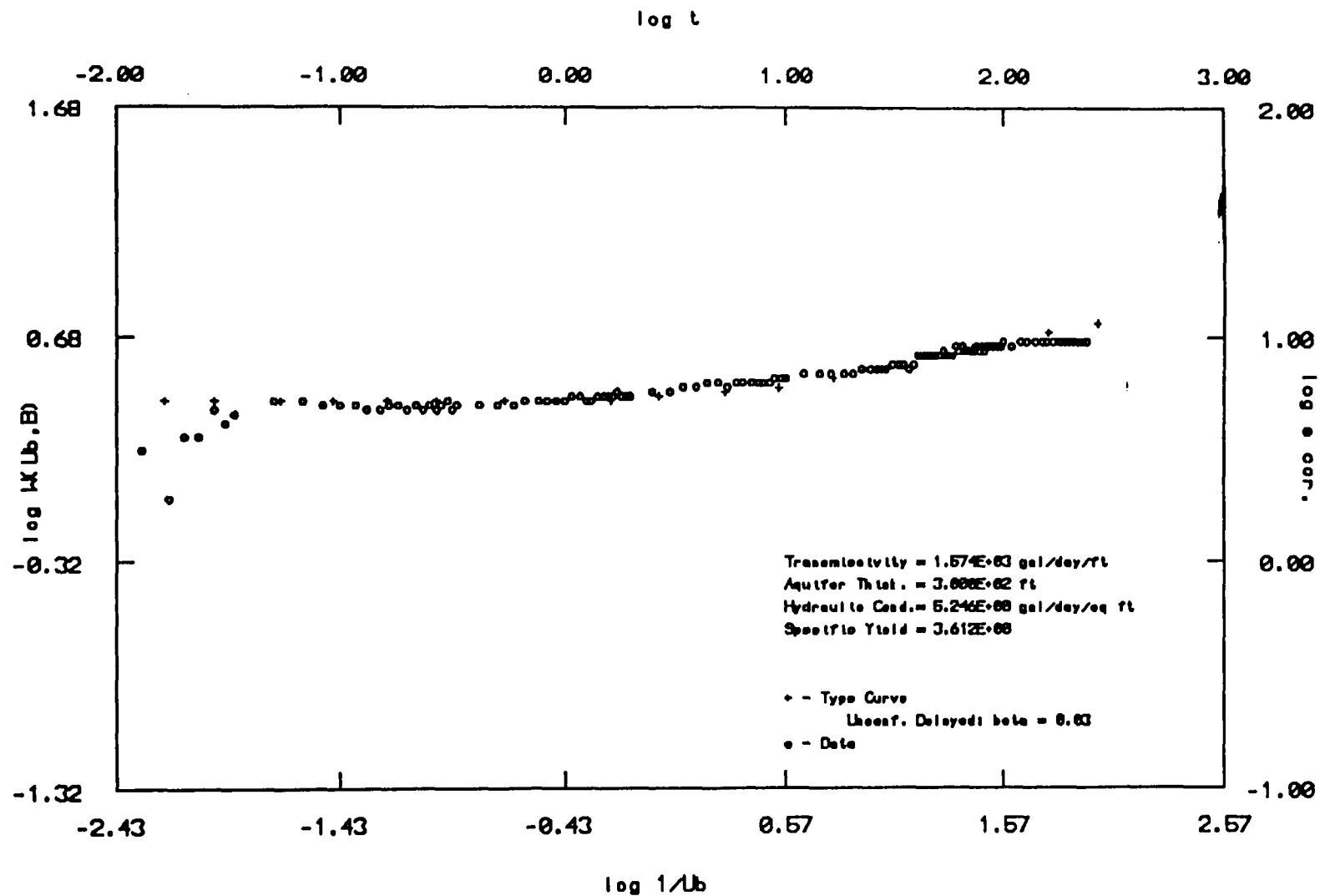
Well Name: FWD1 Date of Test: 12-18-92
 Aquifer Thickness (b): 300.00 feet
 Pumped Well Discharge(Q) = 28.700 gpm
 Radius of Pumping Well = 0.33 feet
 Distance of Observation Well from Pumping Well = 0.33 feet

Entry No.	Time(t) (min.)	Drawdown(s) (ft.)	$\frac{t}{d^2}$ (min./sq.ft.)
*****	*****	*****	*****
1	0.007	0.688	6.43E-02
2	0.013	3.230	1.19E-01
3	0.017	1.950	1.56E-01
4	0.020	3.709	1.84E-01
5	0.023	3.627	2.11E-01
6	0.027	4.938	2.48E-01
7	0.030	4.150	2.75E-01
8	0.033	4.629	3.03E-01
9	0.050	5.367	4.59E-01
10	0.067	5.178	6.15E-01
11	0.083	5.140	7.62E-01
12	0.100	5.045	9.18E-01
13	0.117	5.064	1.07E+00
14	0.133	4.900	1.22E+00
15	0.150	4.938	1.38E+00
16	0.167	5.045	1.53E+00
17	0.183	5.014	1.68E+00
18	0.200	4.900	1.84E+00
19	0.217	5.001	1.99E+00
20	0.233	4.938	2.14E+00
21	0.250	5.083	2.30E+00
22	0.267	4.730	2.45E+00
23	0.283	5.026	2.60E+00
24	0.300	5.190	2.75E+00
25	0.317	4.875	2.91E+00
26	0.333	5.127	3.06E+00
27	0.417	5.121	3.83E+00
28	0.500	5.115	4.59E+00
29	0.583	5.102	5.35E+00
30	0.667	5.184	6.12E+00
31	0.750	5.354	6.89E+00
32	0.833	5.323	7.65E+00
33	0.917	5.266	8.42E+00
34	1.000	5.323	9.18E+00
35	1.083	5.587	9.94E+00
36	1.167	5.449	1.07E+01
37	1.250	5.386	1.15E+01
38	1.333	5.329	1.22E+01
39	1.417	5.461	1.30E+01
40	1.500	5.594	1.38E+01
41	1.583	5.505	1.45E+01
42	1.667	5.524	1.53E+01
43	1.750	5.757	1.61E+01
44	1.833	5.550	1.68E+01
45	1.917	5.650	1.76E+01
46	2.000	5.575	1.84E+01

47	2.500	5.783	2.30E+01
48	3.000	5.921	2.75E+01
49	3.500	6.085	3.21E+01
50	4.000	6.035	3.67E+01
51	4.500	6.249	4.13E+01
52	5.000	6.243	4.59E+01
53	5.500	6.173	5.05E+01
54	6.000	6.262	5.51E+01
55	6.500	6.451	5.97E+01
56	7.000	6.495	6.43E+01
57	7.500	6.432	6.89E+01
58	8.000	6.501	7.35E+01
59	8.500	6.495	7.81E+01
60	9.000	6.728	8.26E+01
61	9.500	6.696	8.72E+01
62	10.000	6.602	9.18E+01
63	12.000	6.904	1.10E+02
64	14.000	6.841	1.29E+02
65	16.000	6.948	1.47E+02
66	18.000	7.156	1.65E+02
67	20.000	7.125	1.84E+02
68	22.000	7.458	2.02E+02
69	24.000	7.232	2.20E+02
70	26.000	7.393	2.39E+02
71	28.000	7.389	2.57E+02
72	30.000	7.622	2.75E+02
73	32.000	7.603	2.94E+02
74	34.000	7.528	3.12E+02
75	36.000	7.444	3.31E+02
76	38.000	7.340	3.49E+02
77	40.000	8.378	3.67E+02
78	42.000	8.309	3.86E+02
79	44.000	8.378	4.04E+02
80	46.000	8.409	4.22E+02
81	48.000	8.498	4.41E+02
82	50.000	8.535	4.59E+02
83	52.000	8.680	4.78E+02
84	54.000	8.611	4.96E+02
85	56.000	8.510	5.14E+02
86	58.000	8.605	5.33E+02
87	60.000	9.077	5.51E+02
88	62.000	8.913	5.69E+02
89	64.000	9.070	5.88E+02
90	66.000	8.844	6.06E+02
91	68.000	8.945	6.24E+02
92	70.000	9.033	6.43E+02
93	72.000	8.938	6.61E+02
94	74.000	9.102	6.80E+02
95	76.000	9.133	6.98E+02
96	78.000	9.020	7.16E+02
97	80.000	9.089	7.35E+02
98	82.000	9.026	7.53E+02
99	84.000	9.190	7.71E+02
100	86.000	9.152	7.90E+02
101	88.000	9.291	8.08E+02
102	90.000	9.234	8.26E+02
103	92.000	9.297	8.45E+02
104	94.000	9.404	8.63E+02
105	96.000	9.203	8.82E+02
106	98.000	9.178	9.00E+02

107	100.000	9.486	9.18E+02
108	110.000	9.454	1.01E+03
109	120.000	9.650	1.10E+03
110	130.000	9.618	1.19E+03
111	140.000	9.524	1.29E+03
112	150.000	9.624	1.38E+03
113	160.000	9.624	1.47E+03
114	170.000	9.694	1.56E+03
115	180.000	9.744	1.65E+03
116	190.000	9.499	1.74E+03
117	200.000	9.719	1.84E+03
118	210.000	9.637	1.93E+03
119	220.000	9.851	2.02E+03
120	230.000	9.876	2.11E+03
121	240.000	9.876	2.20E+03

FWDT1



APPENDIX V

AQUIFER TEST DATA: BATISTE WELL AND CURVE MATCHING GRAPH

SE1000C
Environmental Logger
01/06 12:36

Unit# 01513 Test 7

Setups:	INPUT 1	INPUT 2
-----	-----	-----
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	BATISTE

Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/18 12:00:58

Elapsed Time	INPUT 1	INPUT 2
-----	-----	-----
0.0000	13.481	3.731
0.0033	13.481	3.731
0.0066	13.481	3.731
0.0100	13.481	3.731
0.0133	13.481	3.731
0.0166	13.481	3.731
0.0200	13.481	3.724
0.0233	13.481	3.731
0.0266	13.481	3.731
0.0300	13.481	3.731
0.0333	13.481	3.731
0.0500	13.481	3.731
0.0666	13.481	3.731
0.0833	13.481	3.731
0.1000	13.481	3.731
0.1166	13.481	3.731
0.1333	13.481	3.731
0.1500	13.481	3.731
0.1666	13.481	3.731
0.1833	13.481	3.731
0.2000	13.481	3.731
0.2166	13.481	3.731
0.2333	13.481	3.731
0.2500	13.481	3.731
0.2666	13.481	3.731
0.2833	13.481	3.731

0.3000	13.481	3.731
0.3166	13.481	3.731
0.3333	13.481	3.731
0.4166	13.481	3.731
0.5000	13.481	3.731
0.5833	13.481	3.731
0.6666	13.481	3.731
0.7500	13.481	3.756
0.8333	13.481	3.718
0.9166	13.481	3.731
1.0000	13.481	3.731
1.0833	13.481	3.731
1.1666	13.481	3.731
1.2500	13.481	3.731
1.3333	13.481	3.731
1.4166	13.481	3.731
1.5000	13.481	3.731
1.5833	13.481	3.731
1.6666	13.481	3.731
1.7500	13.481	3.731
1.8333	13.481	3.731
1.9166	13.481	3.731
2.0000	13.481	3.731
2.5000	13.481	3.712
3.0000	13.481	3.712
3.5000	13.481	3.712
4.0000	13.481	3.712
4.5000	13.481	3.712
5.0000	13.481	3.712
5.5000	13.481	3.712
6.0000	13.481	3.712

SE1000C
Environmental Logger
01/06 12:38

Unit# 01513 Test 8

Setups:	INPUT 1	INPUT 2
-----	-----	-----
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	BATISTE

Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

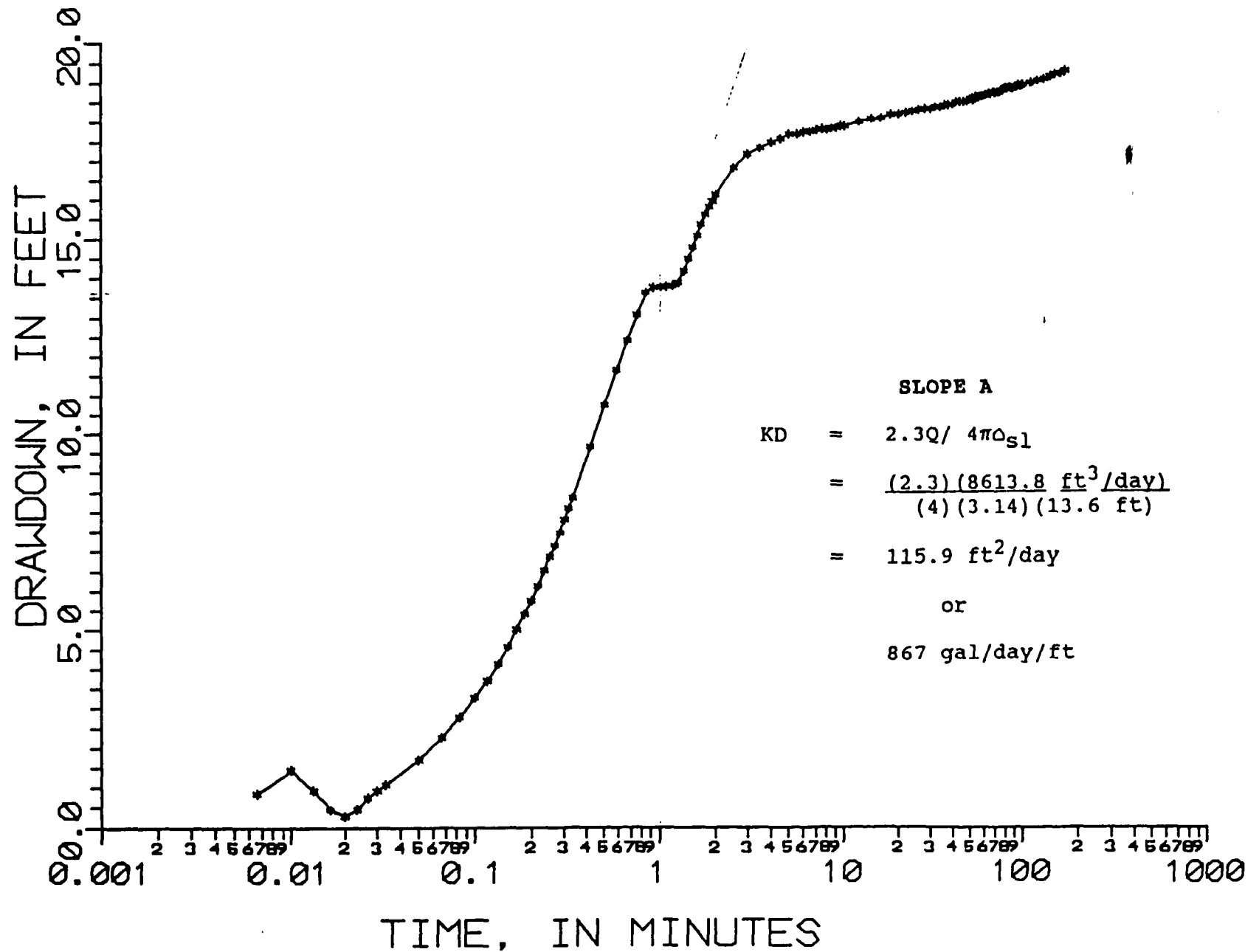
Step 0 12/18 12:13:58

Elapsed Time	INPUT 1	INPUT 2
-----	-----	-----
0.0000	13.481	3.731
0.0033	13.481	3.731
0.0066	13.481	4.588
0.0100	13.481	5.185
0.0133	13.481	4.658
0.0166	13.481	4.181
0.0200	13.481	4.029
0.0233	13.481	4.194
0.0266	13.481	4.493
0.0300	13.481	4.665
0.0333	13.481	4.817
0.0500	13.481	5.420
0.0666	13.481	5.997
0.0833	13.481	6.517
0.1000	13.481	7.000
0.1166	13.481	7.431
0.1333	13.481	7.882
0.1500	13.481	8.319
0.1666	13.481	8.763
0.1833	13.481	9.150
0.2000	13.481	9.505
0.2166	13.481	9.879
0.2333	13.481	10.260
0.2500	13.481	10.615
0.2666	13.481	10.900
0.2833	13.481	11.223

0.3000	13.481	11.546
0.3166	13.481	11.850
0.3333	13.481	12.117
0.4166	13.481	13.441
0.5000	13.481	14.530
0.5833	13.481	15.429
0.6666	13.481	16.195
0.7500	13.481	16.860
0.8333	13.481	17.423
0.9166	13.481	17.568
1.0000	13.481	17.575
1.0833	13.481	17.588
1.1666	13.481	17.607
1.2500	13.481	17.689
1.3333	13.481	17.986
1.4166	13.481	18.309
1.5000	13.481	18.606
1.5833	13.481	18.904
1.6666	13.481	19.194
1.7500	13.481	19.441
1.8333	13.481	19.643
1.9166	13.481	19.795
2.0000	13.481	19.960
2.5000	13.481	20.649
3.0000	13.481	21.016
3.5000	13.481	21.186
4.0000	13.481	21.319
4.5000	13.481	21.420
5.0000	13.481	21.547
5.5000	13.481	21.534
6.0000	13.481	21.585
6.5000	13.481	21.603
7.0000	13.481	21.660
7.5000	13.481	21.692
8.0000	13.481	21.660
8.5000	13.481	21.705
9.0000	13.481	21.705
9.5000	13.481	21.768
10.0000	13.481	21.762
12.0000	13.481	21.875
14.0000	13.481	21.945
16.0000	13.481	21.970
18.0000	13.481	22.065
20.0000	13.481	22.052
22.0000	13.481	22.115
24.0000	13.481	22.147
26.0000	13.481	22.179
28.0000	13.481	22.210

30.0000	13.481	22.198
32.0000	13.481	22.248
34.0000	13.481	22.254
36.0000	13.481	22.299
38.0000	13.481	22.299
40.0000	13.481	22.317
42.0000	13.481	22.393
44.0000	13.481	22.387
46.0000	13.481	22.381
48.0000	13.481	22.412
50.0000	13.481	22.463
52.0000	13.481	22.438
54.0000	13.481	22.520
56.0000	13.481	22.507
58.0000	13.481	22.532
60.0000	13.481	22.545
62.0000	13.481	22.577
64.0000	13.481	22.596
66.0000	13.481	22.583
68.0000	13.481	22.640
70.0000	13.481	22.602
72.0000	13.481	22.621
74.0000	13.481	22.615
76.0000	13.481	22.665
78.0000	13.481	22.728
80.0000	13.481	22.754
82.0000	13.481	22.716
84.0000	13.481	22.760
86.0000	13.481	22.754
88.0000	13.481	22.735
90.0000	13.481	22.760
92.0000	13.481	22.773
94.0000	13.481	22.830
96.0000	13.481	22.792
98.0000	13.481	22.804
100.000	13.481	22.830
110.000	13.481	22.874
120.000	13.481	22.937
130.000	13.481	22.975
140.000	13.481	23.051
150.000	13.481	23.095
160.000	13.481	23.126
170.000	13.481	23.196
180.000	13.481	20.586

BAPTIST AQUIFER TEST COOPER-JACOB ANALYSIS



Data for Pump Test

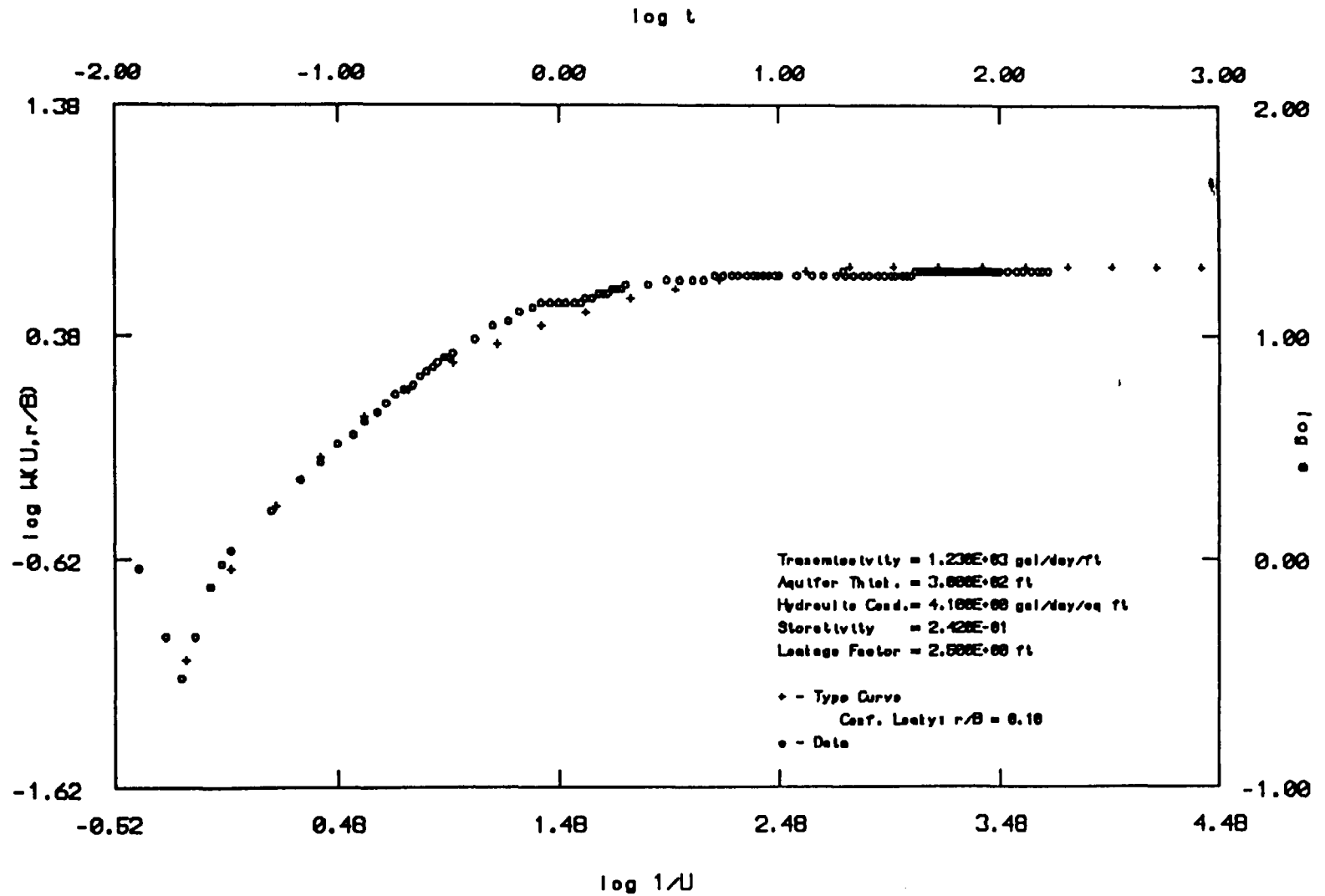
Well Name: BAPTIST Date of Test: 12-18-92
 Aquifer Thickness (b): 300.00 feet
 Pumped Well Discharge(Q) = 44.75 gpm
 Radius of Pumping Well = 0.25 feet
 Distance of Observation Well from Pumping Well = 0.25 feet

Entry No.	Time(t) (min.)	Drawdown(s) (ft.)	$\frac{t}{d^2}$ (min./sq.ft.)
*****	*****	*****	*****
1	0.007	0.857	1.12E-01
2	0.010	1.454	1.60E-01
3	0.013	0.927	2.08E-01
4	0.017	0.450	2.72E-01
5	0.020	0.298	3.20E-01
6	0.023	0.463	3.68E-01
7	0.027	0.762	4.32E-01
8	0.030	0.934	4.80E-01
9	0.033	1.086	5.28E-01
10	0.050	1.689	8.00E-01
11	0.067	2.266	1.07E+00
12	0.083	2.786	1.33E+00
13	0.100	3.269	1.60E+00
14	0.117	3.700	1.87E+00
15	0.133	4.151	2.13E+00
16	0.150	4.588	2.40E+00
17	0.167	5.032	2.67E+00
18	0.183	5.419	2.93E+00
19	0.200	5.774	3.20E+00
20	0.217	6.148	3.47E+00
21	0.233	6.529	3.73E+00
22	0.250	6.884	4.00E+00
23	0.267	7.169	4.27E+00
24	0.283	7.492	4.53E+00
25	0.300	7.815	4.80E+00
26	0.317	8.119	5.07E+00
27	0.333	8.386	5.33E+00
28	0.417	9.710	6.67E+00
29	0.500	10.799	8.00E+00
30	0.583	11.698	9.33E+00
31	0.667	12.464	1.07E+01
32	0.750	13.129	1.20E+01
33	0.833	13.692	1.33E+01
34	0.917	13.837	1.47E+01
35	1.000	13.844	1.60E+01
36	1.083	13.857	1.73E+01
37	1.167	13.876	1.87E+01
38	1.250	13.958	2.00E+01
39	1.333	14.255	2.13E+01
40	1.417	14.578	2.27E+01
41	1.500	14.875	2.40E+01
42	1.583	15.173	2.53E+01
43	1.667	15.463	2.67E+01
44	1.750	15.710	2.80E+01
45	1.833	15.912	2.93E+01
46	1.917	16.064	3.07E+01
--	--	--	--

47	2.000	16.229	3.20E+01
48	2.500	16.918	4.00E+01
49	3.000	17.285	4.80E+01
50	3.500	17.455	5.60E+01
51	4.000	17.588	6.40E+01
52	4.500	17.689	7.20E+01
53	5.000	17.816	8.00E+01
54	5.500	17.803	8.80E+01
55	6.000	17.854	9.60E+01
56	6.500	17.872	1.04E+02
57	7.000	17.929	1.12E+02
58	7.500	17.961	1.20E+02
59	8.000	17.929	1.28E+02
60	8.500	17.974	1.36E+02
61	9.000	17.974	1.44E+02
62	9.500	18.037	1.52E+02
63	10.000	18.031	1.60E+02
64	12.000	18.144	1.92E+02
65	14.000	18.214	2.24E+02
66	16.000	18.239	2.56E+02
67	18.000	18.334	2.88E+02
68	20.000	18.321	3.20E+02
69	22.000	18.384	3.52E+02
70	24.000	18.416	3.84E+02
71	26.000	18.448	4.16E+02
72	28.000	18.479	4.48E+02
73	30.000	18.467	4.80E+02
74	32.000	18.517	5.12E+02
75	34.000	18.523	5.44E+02
76	36.000	18.568	5.76E+02
77	38.000	18.568	6.08E+02
78	40.000	18.586	6.40E+02
79	42.000	18.662	6.72E+02
80	44.000	18.656	7.04E+02
81	46.000	18.650	7.36E+02
82	48.000	18.681	7.68E+02
83	50.000	18.732	8.00E+02
84	52.000	18.707	8.32E+02
85	54.000	18.789	8.64E+02
86	56.000	18.776	8.96E+02
87	58.000	18.801	9.28E+02
88	60.000	18.814	9.60E+02
89	62.000	18.846	9.92E+02
90	64.000	18.865	1.02E+03
91	66.000	18.852	1.06E+03
92	68.000	18.909	1.09E+03
93	70.000	18.871	1.12E+03
94	72.000	18.890	1.15E+03
95	74.000	18.884	1.18E+03
96	76.000	18.934	1.22E+03
97	78.000	18.997	1.25E+03
98	80.000	19.023	1.28E+03
99	82.000	18.985	1.31E+03
100	84.000	19.029	1.34E+03
101	86.000	19.023	1.38E+03
102	88.000	19.004	1.41E+03
103	90.000	19.029	1.44E+03

104	92.000	19.042	1.47E+03
105	94.000	19.099	1.50E+03
106	96.000	19.061	1.54E+03
107	98.000	19.073	1.57E+03
108	100.000	19.099	1.60E+03
109	110.000	19.143	1.76E+03
110	120.000	19.206	1.92E+03
111	130.000	19.244	2.08E+03
112	140.000	19.320	2.24E+03
113	150.000	19.364	2.40E+03
114	160.000	19.395	2.56E+03
115	170.000	19.465	2.72E+03
116	19.465	19.465	3.11E+02
117	19.465	19.465	3.11E+02

BAPTIST AQUIFER TEST



APPENDIX VI

AQUIFER TEST DATA: CRUSHER WELL, BAKERY WELL
AND CURVE MATCHING GRAPHS

SE1000C
Environmental Logger
01/06 12:41

Unit# 01513 Test 9

Setups:	INPUT 1	INPUT 2
Type	Level (F)	Level (F)
Mode	TOC	TOC
I.D.	02873	CRUSHER

Reference	3.910	22.830
Linearity	0.130	0.120
Scale factor	19.710	19.920
Offset	-0.040	0.030
Delay mSEC	50.000	50.000

Step 0 12/18 18:43:56

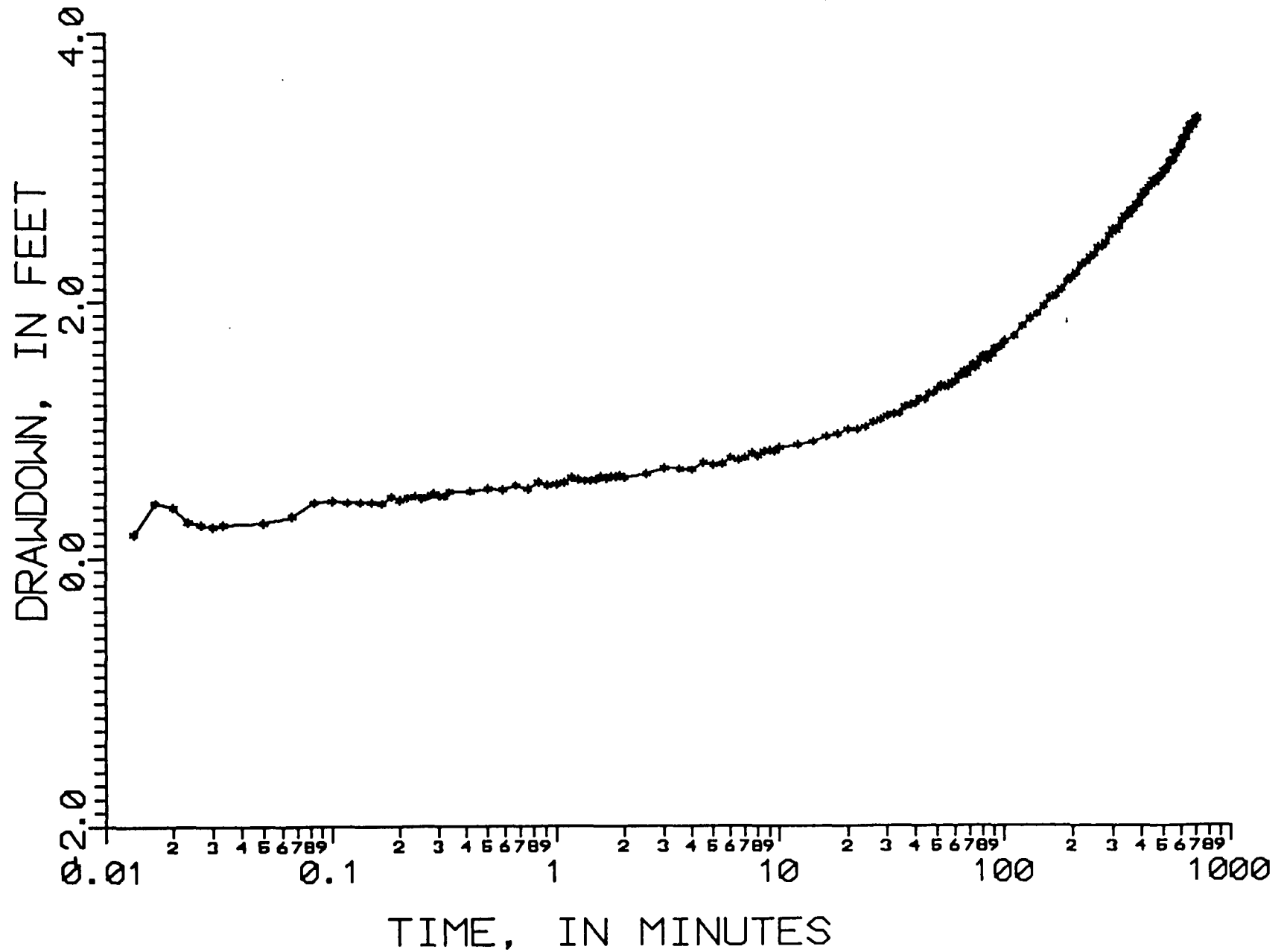
Elapsed Time	INPUT 1	INPUT 2
0.0000	13.481	4.181
0.0033	13.481	4.181
0.0066	13.481	4.181
0.0100	13.481	4.181
0.0133	13.481	4.366
0.0166	13.481	4.607
0.0200	13.481	4.575
0.0233	13.481	4.461
0.0266	13.481	4.442
0.0300	13.481	4.423
0.0333	13.481	4.442
0.0500	13.481	4.455
0.0666	13.481	4.506
0.0833	13.481	4.614
0.1000	13.481	4.626
0.1166	13.481	4.614
0.1333	13.481	4.614
0.1500	13.481	4.614
0.1666	13.481	4.607
0.1833	13.481	4.658
0.2000	13.481	4.632
0.2166	13.481	4.652
0.2333	13.481	4.665
0.2500	13.481	4.645
0.2666	13.481	4.665
0.2833	13.481	4.683
0.3000	13.481	4.671

0.3166	13.481	4.665
0.3333	13.481	4.696
0.4166	13.481	4.702
0.5000	13.481	4.721
0.5833	13.481	4.715
0.6666	13.481	4.747
0.7500	13.481	4.721
0.8333	13.481	4.772
0.9166	13.481	4.753
1.0000	13.481	4.760
1.0833	13.481	4.772
1.1666	13.481	4.810
1.2500	13.481	4.798
1.3333	13.481	4.785
1.4166	13.481	4.785
1.5000	13.481	4.798
1.5833	13.481	4.817
1.6666	13.481	4.804
1.7500	13.481	4.817
1.8333	13.481	4.817
1.9166	13.481	4.823
2.0000	13.481	4.810
2.5000	13.481	4.842
3.0000	13.481	4.886
3.5000	13.481	4.880
4.0000	13.481	4.874
4.5000	13.481	4.931
5.0000	13.481	4.912
5.5000	13.481	4.924
6.0000	13.481	4.969
6.5000	13.481	4.950
7.0000	13.481	4.969
7.5000	13.481	5.001
8.0000	13.481	4.981
8.5000	13.481	5.020
9.0000	13.481	5.026
9.5000	13.481	5.020
10.0000	13.481	5.045
12.0000	13.481	5.071
14.0000	13.481	5.096
16.0000	13.481	5.134
18.0000	13.481	5.160
20.0000	13.481	5.198
22.0000	13.481	5.198
24.0000	13.481	5.217
26.0000	13.481	5.255
28.0000	13.481	5.280
30.0000	13.481	5.306
32.0000	13.481	5.324

34.0000	13.481	5.331
36.0000	13.481	5.381
38.0000	13.481	5.394
40.0000	13.481	5.413
42.0000	13.481	5.445
44.0000	13.481	5.439
46.0000	13.481	5.483
48.0000	13.481	5.489
50.0000	13.481	5.521
52.0000	13.481	5.553
54.0000	13.481	5.546
56.0000	13.481	5.546
58.0000	13.481	5.572
60.0000	13.481	5.578
62.0000	13.481	5.629
64.0000	13.481	5.629
66.0000	13.481	5.667
68.0000	13.481	5.642
70.0000	13.481	5.686
72.0000	13.481	5.718
74.0000	13.481	5.693
76.0000	13.481	5.724
78.0000	13.481	5.762
80.0000	13.481	5.781
82.0000	13.481	5.781
84.0000	13.481	5.750
86.0000	13.481	5.794
88.0000	13.481	5.794
90.0000	13.481	5.845
92.0000	13.481	5.845
94.0000	13.481	5.851
96.0000	13.481	5.864
98.0000	13.481	5.889
100.000	13.481	5.902
110.000	13.481	5.940
120.000	13.481	6.016
130.000	13.481	6.079
140.000	13.481	6.111
150.000	13.481	6.175
160.000	13.481	6.232
170.000	13.481	6.257
180.000	13.481	6.302
190.000	13.481	6.359
200.000	13.481	6.391
210.000	13.481	6.429
220.000	13.481	6.486
230.000	13.481	6.505
240.000	13.481	6.543
250.000	13.481	6.568

260.000	13.481	6.619
270.000	13.481	6.625
280.000	13.481	6.657
290.000	13.481	6.708
300.000	13.481	6.753
310.000	13.481	6.746
320.000	13.481	6.771
330.000	13.481	6.829
340.000	13.481	6.854
350.000	13.481	6.860
360.000	13.481	6.905
370.000	13.481	6.911
380.000	13.481	6.943
390.000	13.481	6.955
400.000	13.481	7.006
410.000	13.481	7.032
420.000	13.481	7.032
430.000	13.481	7.070
440.000	13.481	7.095
450.000	13.481	7.121
460.000	13.481	7.108
470.000	13.481	7.139
480.000	13.481	7.152
490.000	13.481	7.171
500.000	13.481	7.197
510.000	13.481	7.203
520.000	13.481	7.228
530.000	13.481	7.266
540.000	13.481	7.273
550.000	13.481	7.285
560.000	13.481	7.342
570.000	13.481	7.323
580.000	13.481	7.349
590.000	13.481	7.374
600.000	13.481	7.393
610.000	13.481	7.437
620.000	13.481	7.450
630.000	13.481	7.450
640.000	13.481	7.501
650.000	13.481	7.501
660.000	13.481	7.539
670.000	13.481	7.552
680.000	13.481	7.539
690.000	13.481	7.565
700.000	13.481	7.590
710.000	13.481	7.596

CRUSHER AQUIFER TEST
COOPER-JACOB ANALYSIS



Data for Pump Test

Well Name: CRUSHER

Date of Test: 12-18-93

Aquifer Thickness (b): 300.00 feet

Pumped Well Discharge(Q) = 46.00 gpm

Radius of Pumping Well = 0.33 feet

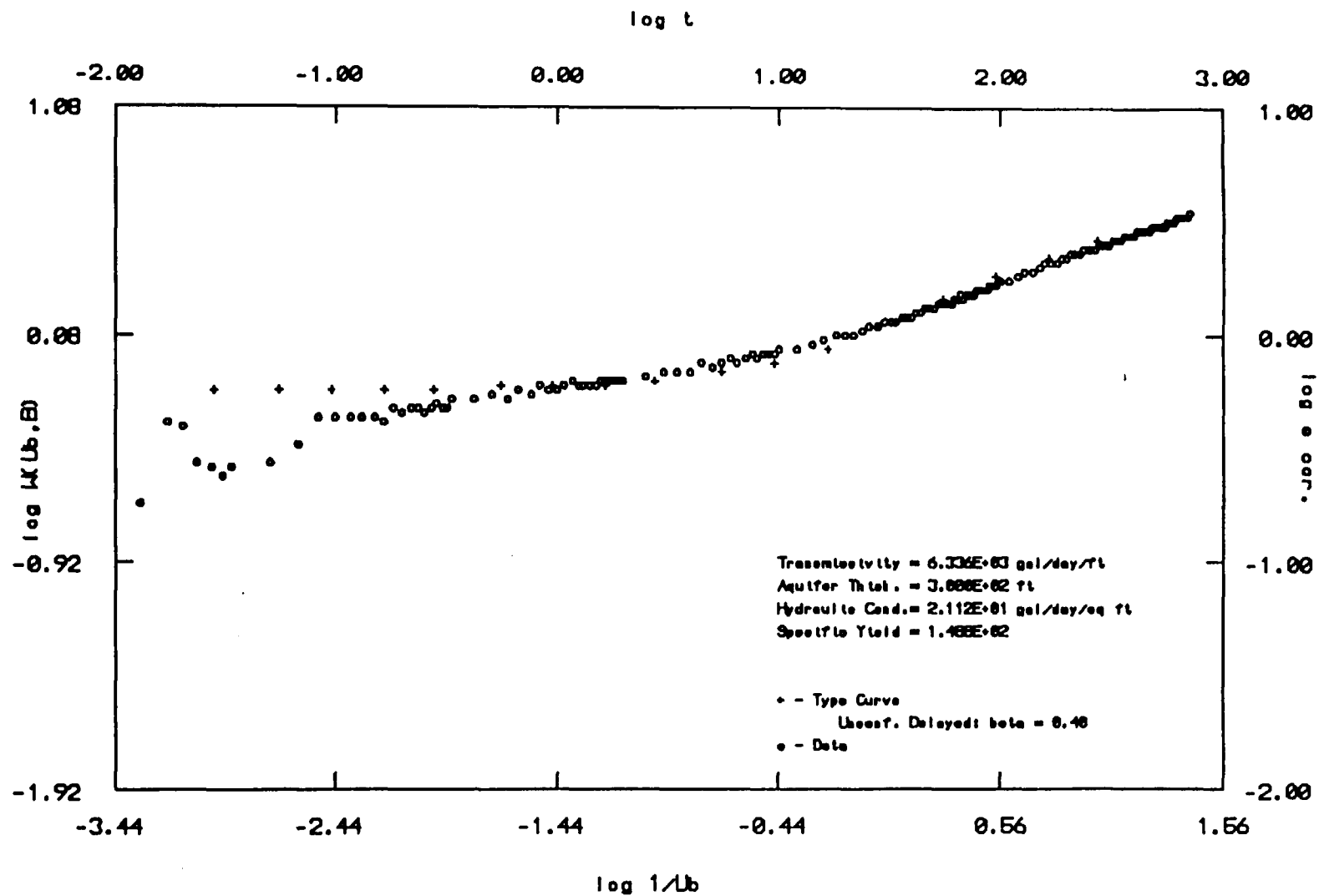
Distance of Observation Well from Pumping Well = 0.33 feet

Entry No.	Time(t) (min.)	Drawdown(s) (ft.)	$\frac{t}{d^2}$ (min./sq.ft.)
*****	*****	*****	*****
1	0.013	0.185	1.19E-01
2	0.017	0.426	1.56E-01
3	0.020	0.394	1.84E-01
4	0.023	0.280	2.11E-01
5	0.027	0.261	2.48E-01
6	0.030	0.242	2.75E-01
7	0.033	0.261	3.03E-01
8	0.050	0.274	4.59E-01
9	0.067	0.325	6.15E-01
10	0.083	0.433	7.62E-01
11	0.100	0.445	9.18E-01
12	0.117	0.433	1.07E+00
13	0.133	0.433	1.22E+00
14	0.150	0.433	1.38E+00
15	0.167	0.426	1.53E+00
16	0.183	0.477	1.68E+00
17	0.200	0.451	1.84E+00
18	0.217	0.471	1.99E+00
19	0.233	0.484	2.14E+00
20	0.250	0.464	2.30E+00
21	0.267	0.484	2.45E+00
22	0.283	0.502	2.60E+00
23	0.300	0.490	2.75E+00
24	0.317	0.484	2.91E+00
25	0.333	0.515	3.06E+00
26	0.417	0.521	3.83E+00
27	0.500	0.540	4.59E+00
28	0.583	0.534	5.35E+00
29	0.667	0.566	6.12E+00
30	0.750	0.540	6.89E+00
31	0.833	0.591	7.65E+00
32	0.917	0.572	8.42E+00
33	1.000	0.579	9.18E+00
34	1.083	0.591	9.94E+00
35	1.167	0.629	1.07E+01
36	1.250	0.617	1.15E+01
37	1.333	0.604	1.22E+01
38	1.417	0.604	1.30E+01
39	1.500	0.617	1.38E+01
40	1.583	0.636	1.45E+01
41	1.667	0.623	1.53E+01
42	1.750	0.636	1.61E+01
43	1.833	0.636	1.68E+01
44	1.917	0.642	1.76E+01
45	2.000	0.629	1.84E+01
46	2.500	0.661	2.30E+01
47	3.000	0.705	2.75E+01

48	3.500	0.699	3.21E+01
49	4.000	0.693	3.67E+01
50	4.500	0.750	4.13E+01
51	5.000	0.731	4.59E+01
52	5.500	0.743	5.05E+01
53	6.000	0.788	5.51E+01
54	6.500	0.769	5.97E+01
55	7.000	0.788	6.43E+01
56	7.500	0.820	6.89E+01
57	8.000	0.800	7.35E+01
58	8.500	0.839	7.81E+01
59	9.000	0.845	8.26E+01
60	9.500	0.839	8.72E+01
61	10.000	0.864	9.18E+01
62	12.000	0.890	1.10E+02
63	14.000	0.915	1.29E+02
64	16.000	0.953	1.47E+02
65	18.000	0.979	1.65E+02
66	20.000	1.017	1.84E+02
67	22.000	1.017	2.02E+02
68	24.000	1.036	2.20E+02
69	26.000	1.074	2.39E+02
70	28.000	1.099	2.57E+02
71	30.000	1.125	2.75E+02
72	32.000	1.143	2.94E+02
73	34.000	1.150	3.12E+02
74	36.000	1.200	3.31E+02
75	38.000	1.213	3.49E+02
76	40.000	1.232	3.67E+02
77	42.000	1.264	3.86E+02
78	44.000	1.258	4.04E+02
79	46.000	1.302	4.22E+02
80	48.000	1.308	4.41E+02
81	50.000	1.340	4.59E+02
82	52.000	1.372	4.78E+02
83	54.000	1.365	4.96E+02
84	56.000	1.365	5.14E+02
85	58.000	1.391	5.33E+02
86	60.000	1.397	5.51E+02
87	62.000	1.448	5.69E+02
88	64.000	1.448	5.88E+02
89	66.000	1.486	6.06E+02
90	68.000	1.461	6.24E+02
91	70.000	1.505	6.43E+02
92	72.000	1.537	6.61E+02
93	74.000	1.512	6.80E+02
94	76.000	1.543	6.98E+02
95	78.000	1.581	7.16E+02
96	80.000	1.600	7.35E+02
97	82.000	1.600	7.53E+02
98	84.000	1.569	7.71E+02
99	86.000	1.613	7.90E+02
100	88.000	1.613	8.08E+02
101	90.000	1.664	8.26E+02
102	92.000	1.664	8.45E+02
103	94.000	1.670	8.63E+02
104	96.000	1.683	8.82E+02
105	98.000	1.708	9.00E+02
106	100.000	1.721	9.18E+02
107	110.000	1.759	1.01E+03

108	120.000	1.835	1.10E+03
109	130.000	1.898	1.19E+03
110	140.000	1.930	1.29E+03
111	150.000	1.994	1.38E+03
112	160.000	2.051	1.47E+03
113	170.000	2.076	1.56E+03
114	180.000	2.121	1.65E+03
115	190.000	2.178	1.74E+03
116	200.000	2.210	1.84E+03
117	210.000	2.248	1.93E+03
118	220.000	2.305	2.02E+03
119	230.000	2.324	2.11E+03
120	240.000	2.362	2.20E+03
121	250.000	2.387	2.30E+03
122	260.000	2.438	2.39E+03
123	270.000	2.444	2.48E+03
124	280.000	2.476	2.57E+03
125	290.000	2.527	2.66E+03
126	300.000	2.572	2.75E+03
127	310.000	2.565	2.85E+03
128	320.000	2.590	2.94E+03
129	330.000	2.648	3.03E+03
130	340.000	2.673	3.12E+03
131	350.000	2.679	3.21E+03
132	360.000	2.724	3.31E+03
133	370.000	2.730	3.40E+03
134	380.000	2.762	3.49E+03
135	390.000	2.774	3.58E+03
136	400.000	2.825	3.67E+03
137	410.000	2.851	3.76E+03
138	420.000	2.851	3.86E+03
139	430.000	2.889	3.95E+03
140	440.000	2.914	4.04E+03
141	450.000	2.940	4.13E+03
142	460.000	2.927	4.22E+03
143	470.000	2.958	4.32E+03
144	480.000	2.971	4.41E+03
145	490.000	2.990	4.50E+03
146	500.000	3.016	4.59E+03
147	510.000	3.022	4.68E+03
148	520.000	3.047	4.78E+03
149	530.000	3.085	4.87E+03
150	540.000	3.092	4.96E+03
151	550.000	3.104	5.05E+03
152	560.000	3.161	5.14E+03
153	570.000	3.142	5.23E+03
154	580.000	3.168	5.33E+03
155	590.000	3.193	5.42E+03
156	600.000	3.212	5.51E+03
157	610.000	3.256	5.60E+03
158	620.000	3.269	5.69E+03
159	630.000	3.269	5.79E+03
160	640.000	3.320	5.88E+03
161	650.000	3.320	5.97E+03
162	660.000	3.358	6.06E+03
163	670.000	3.371	6.15E+03
164	680.000	3.358	6.24E+03
165	690.000	3.384	6.34E+03
166	700.000	3.409	6.43E+03
167	710.000	3.415	6.52E+03

CRUSHER



SE2000
Environmental Logger
12/21 16:25

Unit# 253 Test 8

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
Type	Level (F)	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC	TOC
I.D.		~~PH~~	~~PH~~	~~PH~~ BAKERY
Reference	0.000	13.715	12.525	11.815
SG	50.000	1.000	1.000	1.000
Linearity	0.010	0.004	0.003	0.010
Scale factor	10.056	10.003	10.013	10.056
Offset	-0.026	-0.008	-0.133	-0.026
Delay mSEC	50.000	50.000	50.000	50.000

Step 0 12/18 16:11:58

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4
-----	-----	-----	-----	-----
0.0000	0.028	28.848	26.756	11.522
1.0000	0.028	28.848	26.756	11.522
2.0000	0.028	28.848	26.756	11.519
3.0000	0.028	28.848	26.756	11.522
4.0000	0.028	28.848	26.756	11.519
5.0000	0.028	28.848	26.756	11.522
6.0000	0.028	28.848	26.756	11.522
7.0000	0.028	28.848	26.756	11.522
8.0000	0.028	28.848	26.756	11.522
9.0000	0.028	28.848	26.756	11.522
10.0000	0.028	28.848	26.756	11.522
11.0000	0.028	28.848	26.756	11.525
12.0000	0.028	28.848	26.756	11.525
13.0000	0.028	28.848	26.756	11.525
14.0000	0.028	28.848	26.756	11.525
15.0000	0.028	28.848	26.756	11.525
16.0000	0.028	28.848	26.756	11.528
17.0000	0.028	28.848	26.756	11.528
18.0000	0.028	28.848	26.756	11.528
19.0000	0.028	28.848	26.756	11.528
20.0000	0.028	28.848	26.756	11.528
21.0000	0.028	28.848	26.756	11.525
22.0000	0.028	28.848	26.756	11.528
23.0000	0.028	28.848	26.756	11.532
24.0000	0.028	28.848	26.756	11.528

25.0000	0.028	28.848	26.756	11.532
26.0000	0.028	28.848	26.756	11.532
27.0000	0.028	28.848	26.756	11.532
28.0000	0.028	28.848	26.756	11.532
29.0000	0.028	28.848	26.756	11.535
30.0000	0.028	28.848	26.756	11.535
31.0000	0.028	28.848	26.756	11.535
32.0000	0.028	28.848	26.756	11.538
33.0000	0.028	28.848	26.756	11.535
34.0000	0.028	28.848	26.756	11.535
35.0000	0.028	28.848	26.756	11.535
36.0000	0.028	28.848	26.756	11.535
37.0000	0.028	28.848	26.756	11.538
38.0000	0.028	28.848	26.756	11.538
39.0000	0.028	28.848	26.756	11.538
40.0000	0.028	28.848	26.756	11.538
41.0000	0.028	28.848	26.756	11.538
42.0000	0.028	28.848	26.756	11.538
43.0000	0.028	28.848	26.756	11.538
44.0000	0.028	28.848	26.756	11.538
45.0000	0.028	28.848	26.756	11.538
46.0000	0.028	28.848	26.756	11.538
47.0000	0.028	28.848	26.756	11.541
48.0000	0.028	28.848	26.756	11.541
49.0000	0.028	28.848	26.756	11.538
50.0000	0.028	28.848	26.756	11.541
51.0000	0.028	28.848	26.756	11.541
52.0000	0.028	28.848	26.756	11.541
53.0000	0.028	28.848	26.756	11.541
54.0000	0.028	28.848	26.756	11.541
55.0000	0.028	28.848	26.756	11.541
56.0000	0.028	28.848	26.756	11.541
57.0000	0.028	28.848	26.756	11.541
58.0000	0.028	28.848	26.756	11.544
59.0000	0.028	28.848	26.756	11.544
60.0000	0.028	28.848	26.756	11.541
61.0000	0.028	28.848	26.756	11.541
62.0000	0.028	28.848	26.756	11.544
63.0000	0.028	28.848	26.756	11.541
64.0000	0.028	28.848	26.756	11.544
65.0000	0.028	28.848	26.756	11.544
66.0000	0.028	28.848	26.756	11.544
67.0000	0.028	28.848	26.756	11.544
68.0000	0.028	28.848	26.756	11.541
69.0000	0.028	28.848	26.756	11.544
70.0000	0.028	28.848	26.756	11.544
71.0000	0.028	28.848	26.756	11.544
72.0000	0.028	28.848	26.756	11.544

73.0000	0.028	28.848	26.756	11.541
74.0000	0.028	28.848	26.756	11.544
75.0000	0.028	28.848	26.756	11.541
76.0000	0.028	28.848	26.756	11.541
77.0000	0.028	28.848	26.756	11.541
78.0000	0.028	28.848	26.756	11.544
79.0000	0.028	28.848	26.756	11.541
80.0000	0.028	28.848	26.756	11.544
81.0000	0.028	28.848	26.756	11.541
82.0000	0.028	28.848	26.756	11.544
83.0000	0.028	28.848	26.756	11.544
84.0000	0.028	28.848	26.756	11.544
85.0000	0.028	28.848	26.756	11.544
86.0000	0.028	28.848	26.756	11.541
87.0000	0.028	28.848	26.756	11.544
88.0000	0.028	28.848	26.756	11.544
89.0000	0.028	28.848	26.756	11.544
90.0000	0.028	28.848	26.756	11.548
91.0000	0.028	28.848	26.756	11.544
92.0000	0.028	28.848	26.756	11.544
93.0000	0.028	28.848	26.756	11.544
94.0000	0.028	28.848	26.756	11.548
95.0000	0.028	28.848	26.756	11.544
96.0000	0.028	28.848	26.756	11.544
97.0000	0.028	28.848	26.756	11.548
98.0000	0.028	28.848	26.756	11.548
99.0000	0.028	28.848	26.756	11.544
100.000	0.028	28.848	26.756	11.548
101.000	0.028	28.848	26.756	11.544
102.000	0.028	28.848	26.756	11.544
103.000	0.028	28.848	26.756	11.544
104.000	0.028	28.848	26.756	11.544
105.000	0.028	28.848	26.756	11.544
106.000	0.028	28.848	26.756	11.548
107.000	0.028	28.848	26.756	11.548
108.000	0.028	28.848	26.756	11.544
109.000	0.028	28.848	26.756	11.548
110.000	0.028	28.848	26.756	11.544
111.000	0.028	28.848	26.756	11.544
112.000	0.028	28.848	26.756	11.548
113.000	0.028	28.848	26.756	11.548
114.000	0.028	28.848	26.756	11.548
115.000	0.028	28.848	26.756	11.548
116.000	0.028	28.848	26.756	11.548
117.000	0.028	28.848	26.756	11.548
118.000	0.028	28.848	26.756	11.548
119.000	0.028	28.848	26.756	11.551
120.000	0.028	28.848	26.756	11.551

121.000	0.028	28.848	26.756	11.551
122.000	0.028	28.848	26.756	11.551
123.000	0.028	28.848	26.756	11.551
124.000	0.028	28.848	26.756	11.551
125.000	0.028	28.848	26.756	11.551
126.000	0.028	28.848	26.756	11.551
127.000	0.028	28.848	26.756	11.551
128.000	0.028	28.848	26.756	11.554
129.000	0.028	28.848	26.756	11.554
130.000	0.028	28.848	26.756	11.554
131.000	0.028	28.848	26.756	11.554
132.000	0.028	28.848	26.756	11.554
133.000	0.028	28.848	26.756	11.554
134.000	0.028	28.848	26.756	11.554
135.000	0.028	28.848	26.756	11.554
136.000	0.028	28.848	26.756	11.557
137.000	0.028	28.848	26.756	11.554
138.000	0.028	28.848	26.756	11.557
139.000	0.028	28.848	26.756	11.557
140.000	0.028	28.848	26.756	11.557
141.000	0.028	28.848	26.756	11.557
142.000	0.028	28.848	26.756	11.557
143.000	0.028	28.848	26.756	11.557
144.000	0.028	28.848	26.756	11.557
145.000	0.028	28.848	26.756	11.557
146.000	0.028	28.848	26.756	11.560
147.000	0.028	28.848	26.756	11.557
148.000	0.028	28.848	26.756	11.560
149.000	0.028	28.848	26.756	11.560
150.000	0.028	28.848	26.756	11.557
151.000	0.028	28.848	26.756	11.557
152.000	0.028	28.848	26.756	11.560
153.000	0.028	28.848	26.756	11.557
154.000	0.028	28.848	26.756	11.557
155.000	0.028	28.848	26.756	11.560
156.000	0.028	28.848	26.756	11.560
157.000	0.028	28.848	26.756	11.560
158.000	0.028	28.848	26.756	11.560
159.000	0.028	28.848	26.756	11.560
160.000	0.028	28.848	26.756	11.560
161.000	0.028	28.848	26.756	11.560
162.000	0.028	28.848	26.756	11.560
163.000	0.028	28.848	26.756	11.560
164.000	0.028	28.848	26.756	11.563
165.000	0.028	28.848	26.756	11.560
166.000	0.028	28.848	26.756	11.563
167.000	0.028	28.848	26.756	11.563
168.000	0.028	28.848	26.756	11.563

169.000	0.028	28.848	26.756	11.563
170.000	0.028	28.848	26.756	11.563
171.000	0.028	28.848	26.756	11.563
172.000	0.028	28.848	26.756	11.563
173.000	0.028	28.848	26.756	11.563
174.000	0.028	28.848	26.756	11.563
175.000	0.028	28.848	26.756	11.563
176.000	0.028	28.848	26.756	11.563
177.000	0.028	28.848	26.756	11.567
178.000	0.028	28.848	26.756	11.567
179.000	0.028	28.848	26.756	11.567
180.000	0.028	28.848	26.756	11.567
181.000	0.028	28.848	26.756	11.567
182.000	0.028	28.848	26.756	11.567
183.000	0.028	28.848	26.756	11.567
184.000	0.028	28.848	26.756	11.567
185.000	0.028	28.848	26.756	11.570
186.000	0.028	28.848	26.756	11.570
187.000	0.028	28.848	26.756	11.570
188.000	0.028	28.848	26.756	11.570
189.000	0.028	28.848	26.756	11.570
190.000	0.028	28.848	26.756	11.570
191.000	0.028	28.848	26.756	11.570
192.000	0.028	28.848	26.756	11.570
193.000	0.028	28.848	26.756	11.570
194.000	0.028	28.848	26.756	11.573
195.000	0.028	28.848	26.756	11.573
196.000	0.028	28.848	26.756	11.573
197.000	0.028	28.848	26.756	11.573
198.000	0.028	28.848	26.756	11.573
199.000	0.028	28.848	26.756	11.576
200.000	0.028	28.848	26.756	11.576
201.000	0.028	28.848	26.756	11.576
202.000	0.028	28.848	26.756	11.576
203.000	0.028	28.848	26.756	11.579
204.000	0.028	28.848	26.756	11.579
205.000	0.028	28.848	26.756	11.579
206.000	0.028	28.848	26.756	11.579
207.000	0.028	28.848	26.756	11.582
208.000	0.028	28.848	26.756	11.582
209.000	0.028	28.848	26.756	11.582
210.000	0.028	28.848	26.756	11.582
211.000	0.028	28.848	26.756	11.582
212.000	0.028	28.848	26.756	11.586
213.000	0.028	28.848	26.756	11.586
214.000	0.028	28.848	26.756	11.586
215.000	0.028	28.848	26.756	11.589
216.000	0.028	28.848	26.756	11.589

217.000	0.028	28.848	26.756	11.589
218.000	0.028	28.848	26.756	11.589
219.000	0.028	28.848	26.756	11.589
220.000	0.028	28.848	26.756	11.592
221.000	0.028	28.848	26.756	11.592
222.000	0.028	28.848	26.756	11.592
223.000	0.028	28.848	26.756	11.595
224.000	0.028	28.848	26.756	11.595
225.000	0.028	28.848	26.756	11.595
226.000	0.028	28.848	26.756	11.595
227.000	0.028	28.848	26.756	11.595
228.000	0.028	28.848	26.756	11.598
229.000	0.028	28.848	26.756	11.598
230.000	0.028	28.848	26.756	11.598
231.000	0.028	28.848	26.756	11.598
232.000	0.028	28.848	26.756	11.602
233.000	0.028	28.848	26.756	11.602
234.000	0.028	28.848	26.756	11.602
235.000	0.028	28.848	26.756	11.605
236.000	0.028	28.848	26.756	11.602
237.000	0.028	28.848	26.756	11.605
238.000	0.028	28.848	26.756	11.605
239.000	0.028	28.848	26.756	11.605
240.000	0.028	28.848	26.756	11.605
241.000	0.028	28.848	26.756	11.608
242.000	0.028	28.848	26.756	11.605
243.000	0.028	28.848	26.756	11.608
244.000	0.028	28.848	26.756	11.608
245.000	0.028	28.848	26.756	11.608
246.000	0.028	28.848	26.756	11.611
247.000	0.028	28.848	26.756	11.611
248.000	0.028	28.848	26.756	11.611
249.000	0.028	28.848	26.756	11.611
250.000	0.028	28.848	26.756	11.611
251.000	0.028	28.848	26.756	11.614
252.000	0.028	28.848	26.756	11.614
253.000	0.028	28.848	26.756	11.614
254.000	0.028	28.848	26.756	11.617
255.000	0.028	28.848	26.756	11.617
256.000	0.028	28.848	26.756	11.617
257.000	0.028	28.848	26.756	11.621
258.000	0.028	28.848	26.756	11.621
259.000	0.028	28.848	26.756	11.621
260.000	0.028	28.848	26.756	11.621
261.000	0.028	28.848	26.756	11.621
262.000	0.028	28.848	26.756	11.624
263.000	0.028	28.848	26.756	11.624
264.000	0.028	28.848	26.756	11.624

265.000	0.028	28.848	26.756	11.627
266.000	0.028	28.848	26.756	11.627
267.000	0.028	28.848	26.756	11.627
268.000	0.028	28.848	26.756	11.630
269.000	0.028	28.848	26.756	11.630
270.000	0.028	28.848	26.756	11.630
271.000	0.028	28.848	26.756	11.630
272.000	0.028	28.848	26.756	11.630
273.000	0.028	28.848	26.756	11.633
274.000	0.028	28.848	26.756	11.633
275.000	0.028	28.848	26.756	11.633
276.000	0.028	28.848	26.756	11.633
277.000	0.028	28.848	26.756	11.633
278.000	0.028	28.848	26.756	11.633
279.000	0.028	28.848	26.756	11.637
280.000	0.028	28.848	26.756	11.637
281.000	0.028	28.848	26.756	11.637
282.000	0.028	28.848	26.756	11.637
283.000	0.028	28.848	26.756	11.637
284.000	0.028	28.848	26.756	11.637
285.000	0.028	28.848	26.756	11.637
286.000	0.028	28.848	26.756	11.637
287.000	0.028	28.848	26.756	11.640
288.000	0.028	28.848	26.756	11.640
289.000	0.028	28.848	26.756	11.640
290.000	0.028	28.848	26.756	11.640
291.000	0.028	28.848	26.756	11.640
292.000	0.028	28.848	26.756	11.643
293.000	0.028	28.848	26.756	11.643
294.000	0.028	28.848	26.756	11.643
295.000	0.028	28.848	26.756	11.643
296.000	0.028	28.848	26.756	11.643
297.000	0.028	28.848	26.756	11.643
298.000	0.028	28.848	26.756	11.643
299.000	0.028	28.848	26.756	11.646
300.000	0.028	28.848	26.756	11.646
301.000	0.028	28.848	26.756	11.646
302.000	0.028	28.848	26.756	11.649
303.000	0.028	28.848	26.756	11.649
304.000	0.028	28.848	26.756	11.649
305.000	0.028	28.848	26.756	11.652
306.000	0.028	28.848	26.756	11.652
307.000	0.028	28.848	26.756	11.652
308.000	0.028	28.848	26.756	11.652
309.000	0.028	28.848	26.756	11.656
310.000	0.028	28.848	26.756	11.656
311.000	0.028	28.848	26.756	11.656
312.000	0.028	28.848	26.756	11.656

313.000	0.028	28.848	26.756	11.659
314.000	0.028	28.848	26.756	11.659
315.000	0.028	28.848	26.756	11.662
316.000	0.028	28.848	26.756	11.659
317.000	0.028	28.848	26.756	11.662
318.000	0.028	28.848	26.756	11.665
319.000	0.028	28.848	26.756	11.665
320.000	0.028	28.848	26.756	11.665
321.000	0.028	28.848	26.756	11.665
322.000	0.028	28.848	26.756	11.668
323.000	0.028	28.848	26.756	11.665
324.000	0.028	28.848	26.756	11.668
325.000	0.028	28.848	26.756	11.668
326.000	0.028	28.848	26.756	11.668
327.000	0.028	28.848	26.756	11.668
328.000	0.028	28.848	26.756	11.671
329.000	0.028	28.848	26.756	11.671
330.000	0.028	28.848	26.756	11.671
331.000	0.028	28.848	26.756	11.671
332.000	0.028	28.848	26.756	11.671
333.000	0.028	28.848	26.756	11.671
334.000	0.028	28.848	26.756	11.671
335.000	0.028	28.848	26.756	11.671
336.000	0.028	28.848	26.756	11.675
337.000	0.028	28.848	26.756	11.675
338.000	0.028	28.848	26.756	11.675
339.000	0.028	28.848	26.756	11.675
340.000	0.028	28.848	26.756	11.678
341.000	0.028	28.848	26.756	11.678
342.000	0.028	28.848	26.756	11.678
343.000	0.028	28.848	26.756	11.678
344.000	0.028	28.848	26.756	11.681
345.000	0.028	28.848	26.756	11.681
346.000	0.028	28.848	26.756	11.681
347.000	0.028	28.848	26.756	11.681
348.000	0.028	28.848	26.756	11.684
349.000	0.028	28.848	26.756	11.684
350.000	0.028	28.848	26.756	11.684
351.000	0.028	28.848	26.756	11.684
352.000	0.028	28.848	26.756	11.687
353.000	0.028	28.848	26.756	11.687
354.000	0.028	28.848	26.756	11.687
355.000	0.028	28.848	26.756	11.687
356.000	0.028	28.848	26.756	11.687
357.000	0.028	28.848	26.756	11.687
358.000	0.028	28.848	26.756	11.691
359.000	0.028	28.848	26.756	11.691
360.000	0.028	28.848	26.756	11.691

361.000	0.028	28.848	26.756	11.691
362.000	0.028	28.848	26.756	11.691
363.000	0.028	28.848	26.756	11.691
364.000	0.028	28.848	26.756	11.691
365.000	0.028	28.848	26.756	11.694
366.000	0.028	28.848	26.756	11.694
367.000	0.028	28.848	26.756	11.694
368.000	0.028	28.848	26.756	11.694
369.000	0.028	28.848	26.756	11.694
370.000	0.028	28.848	26.756	11.694
371.000	0.028	28.848	26.756	11.697
372.000	0.028	28.848	26.756	11.694
373.000	0.028	28.848	26.756	11.697
374.000	0.028	28.848	26.756	11.697
375.000	0.028	28.848	26.756	11.697
376.000	0.028	28.848	26.756	11.700
377.000	0.028	28.848	26.756	11.697
378.000	0.028	28.848	26.756	11.700
379.000	0.028	28.848	26.756	11.700
380.000	0.028	28.848	26.756	11.700
381.000	0.028	28.848	26.756	11.700
382.000	0.028	28.848	26.756	11.700
383.000	0.028	28.848	26.756	11.700
384.000	0.028	28.848	26.756	11.703
385.000	0.028	28.848	26.756	11.703
386.000	0.028	28.848	26.756	11.700
387.000	0.028	28.848	26.756	11.703
388.000	0.028	28.848	26.756	11.703
389.000	0.028	28.848	26.756	11.703
390.000	0.028	28.848	26.756	11.706
391.000	0.028	28.848	26.756	11.706
392.000	0.028	28.848	26.756	11.706
393.000	0.028	28.848	26.756	11.710
394.000	0.028	28.848	26.756	11.710
395.000	0.028	28.848	26.756	11.710
396.000	0.028	28.848	26.756	11.710
397.000	0.028	28.848	26.756	11.710
398.000	0.028	28.848	26.756	11.710
399.000	0.028	28.848	26.756	11.713
400.000	0.028	28.848	26.756	11.713
401.000	0.028	28.848	26.756	11.713
402.000	0.028	28.848	26.756	11.713
403.000	0.028	28.848	26.756	11.713
404.000	0.028	28.848	26.756	11.713
405.000	0.028	28.848	26.756	11.716
406.000	0.028	28.848	26.756	11.716
407.000	0.028	28.848	26.756	11.716
408.000	0.028	28.848	26.756	11.716

409.000	0.028	28.848	26.756	11.716
410.000	0.028	28.848	26.756	11.719
411.000	0.028	28.848	26.756	11.719
412.000	0.028	28.848	26.756	11.719
413.000	0.028	28.848	26.756	11.719
414.000	0.028	28.848	26.756	11.719
415.000	0.028	28.848	26.756	11.722
416.000	0.028	28.848	26.756	11.722
417.000	0.028	28.848	26.756	11.722
418.000	0.028	28.848	26.756	11.722
419.000	0.028	28.848	26.756	11.722
420.000	0.028	28.848	26.756	11.726
421.000	0.028	28.848	26.756	11.726
422.000	0.028	28.848	26.756	11.726
423.000	0.028	28.848	26.756	11.729
424.000	0.028	28.848	26.756	11.726
425.000	0.028	28.848	26.756	11.729
426.000	0.028	28.848	26.756	11.729
427.000	0.028	28.848	26.756	11.729
428.000	0.028	28.848	26.756	11.729
429.000	0.028	28.848	26.756	11.729
430.000	0.028	28.848	26.756	11.729
431.000	0.028	28.848	26.756	11.729
432.000	0.028	28.848	26.756	11.732
433.000	0.028	28.848	26.756	11.732
434.000	0.028	28.848	26.756	11.732
435.000	0.028	28.848	26.756	11.732
436.000	0.028	28.848	26.756	11.735
437.000	0.028	28.848	26.756	11.735
438.000	0.028	28.848	26.756	11.735
439.000	0.028	28.848	26.756	11.735
440.000	0.028	28.848	26.756	11.735
441.000	0.028	28.848	26.756	11.738
442.000	0.028	28.848	26.756	11.738
443.000	0.028	28.848	26.756	11.738
444.000	0.028	28.848	26.756	11.738
445.000	0.028	28.848	26.756	11.738
446.000	0.028	28.848	26.756	11.741
447.000	0.028	28.848	26.756	11.741
448.000	0.028	28.848	26.756	11.741
449.000	0.028	28.848	26.756	11.741
450.000	0.028	28.848	26.756	11.745
451.000	0.028	28.848	26.756	11.745
452.000	0.028	28.848	26.756	11.745
453.000	0.028	28.848	26.756	11.745
454.000	0.028	28.848	26.756	11.748
455.000	0.028	28.848	26.756	11.748
456.000	0.028	28.848	26.756	11.748

457.000	0.028	28.848	26.756	11.751
458.000	0.028	28.848	26.756	11.751
459.000	0.028	28.848	26.756	11.751
460.000	0.028	28.848	26.756	11.751
461.000	0.028	28.848	26.756	11.751
462.000	0.028	28.848	26.756	11.754
463.000	0.028	28.848	26.756	11.754
464.000	0.028	28.848	26.756	11.754
465.000	0.028	28.848	26.756	11.757
466.000	0.028	28.848	26.756	11.757
467.000	0.028	28.848	26.756	11.757
468.000	0.028	28.848	26.756	11.757
469.000	0.028	28.848	26.756	11.757
470.000	0.028	28.848	26.756	11.760
471.000	0.028	28.848	26.756	11.760
472.000	0.028	28.848	26.756	11.760
473.000	0.028	28.848	26.756	11.760
474.000	0.028	28.848	26.756	11.764
475.000	0.028	28.848	26.756	11.764
476.000	0.028	28.848	26.756	11.764
477.000	0.028	28.848	26.756	11.764
478.000	0.028	28.848	26.756	11.764
479.000	0.028	28.848	26.756	11.764
480.000	0.028	28.848	26.756	11.764
481.000	0.028	28.848	26.756	11.767
482.000	0.028	28.848	26.756	11.767
483.000	0.028	28.848	26.756	11.767
484.000	0.028	28.848	26.756	11.770
485.000	0.028	28.848	26.756	11.770
486.000	0.028	28.848	26.756	11.770
487.000	0.028	28.848	26.756	11.770
488.000	0.028	28.848	26.756	11.770
489.000	0.028	28.848	26.756	11.773
490.000	0.028	28.848	26.756	11.773
491.000	0.028	28.848	26.756	11.773
492.000	0.028	28.848	26.756	11.773
493.000	0.028	28.848	26.756	11.776
494.000	0.028	28.848	26.756	11.773
495.000	0.028	28.848	26.756	11.776
496.000	0.028	28.848	26.756	11.776
497.000	0.028	28.848	26.756	11.776
498.000	0.028	28.848	26.756	11.780
499.000	0.028	28.848	26.756	11.776
500.000	0.028	28.848	26.756	11.780
501.000	0.028	28.848	26.756	11.780
502.000	0.028	28.848	26.756	11.780
503.000	0.028	28.848	26.756	11.780
504.000	0.028	28.848	26.756	11.783

505.000	0.028	28.848	26.756	11.783
506.000	0.028	28.848	26.756	11.783
507.000	0.028	28.848	26.756	11.783
508.000	0.028	28.848	26.756	11.783
509.000	0.028	28.848	26.756	11.783
510.000	0.028	28.848	26.756	11.786
511.000	0.028	28.848	26.756	11.786
512.000	0.028	28.848	26.756	11.786
513.000	0.028	28.848	26.756	11.786
514.000	0.028	28.848	26.756	11.789
515.000	0.028	28.848	26.756	11.786
516.000	0.028	28.848	26.756	11.789
517.000	0.028	28.848	26.756	11.789
518.000	0.028	28.848	26.756	11.789
519.000	0.028	28.848	26.756	11.789
520.000	0.028	28.848	26.756	11.789
521.000	0.028	28.848	26.756	11.789
522.000	0.028	28.848	26.756	11.789
523.000	0.028	28.848	26.756	11.789
524.000	0.028	28.848	26.756	11.792
525.000	0.028	28.848	26.756	11.792
526.000	0.028	28.848	26.756	11.792
527.000	0.028	28.848	26.756	11.792
528.000	0.028	28.848	26.756	11.792
529.000	0.028	28.848	26.756	11.795
530.000	0.028	28.848	26.756	11.795
531.000	0.028	28.848	26.756	11.795
532.000	0.028	28.848	26.756	11.795
533.000	0.028	28.848	26.756	11.795
534.000	0.028	28.848	26.756	11.795
535.000	0.028	28.848	26.756	11.795
536.000	0.028	28.848	26.756	11.799
537.000	0.028	28.848	26.756	11.799
538.000	0.028	28.848	26.756	11.799
539.000	0.028	28.848	26.756	11.799
540.000	0.028	28.848	26.756	11.802
541.000	0.028	28.848	26.756	11.802
542.000	0.028	28.848	26.756	11.802
543.000	0.028	28.848	26.756	11.802
544.000	0.028	28.848	26.756	11.802
545.000	0.028	28.848	26.756	11.802
546.000	0.028	28.848	26.756	11.802
547.000	0.028	28.848	26.756	11.802
548.000	0.028	28.848	26.756	11.805
549.000	0.028	28.848	26.756	11.802
550.000	0.028	28.848	26.756	11.802
551.000	0.028	28.848	26.756	11.805
552.000	0.028	28.848	26.756	11.805

553.000	0.028	28.848	26.756	11.805
554.000	0.028	28.848	26.756	11.805
555.000	0.028	28.848	26.756	11.805
556.000	0.028	28.848	26.756	11.805
557.000	0.028	28.848	26.756	11.805
558.000	0.028	28.848	26.756	11.805
559.000	0.028	28.848	26.756	11.808
560.000	0.028	28.848	26.756	11.805
561.000	0.028	28.848	26.756	11.808
562.000	0.028	28.848	26.756	11.808
563.000	0.028	28.848	26.756	11.811
564.000	0.028	28.848	26.756	11.811
565.000	0.028	28.848	26.756	11.811
566.000	0.028	28.848	26.756	11.811
567.000	0.028	28.848	26.756	11.811
568.000	0.028	28.848	26.756	11.815
569.000	0.028	28.848	26.756	11.811
570.000	0.028	28.848	26.756	11.815
571.000	0.028	28.848	26.756	11.815
572.000	0.028	28.848	26.756	11.815
573.000	0.028	28.848	26.756	11.815
574.000	0.028	28.848	26.756	11.815
575.000	0.028	28.848	26.756	11.818
576.000	0.028	28.848	26.756	11.818
577.000	0.028	28.848	26.756	11.818
578.000	0.028	28.848	26.756	11.818
579.000	0.028	28.848	26.756	11.818
580.000	0.028	28.848	26.756	11.821
581.000	0.028	28.848	26.756	11.821
582.000	0.028	28.848	26.756	11.821
583.000	0.028	28.848	26.756	11.821
584.000	0.028	28.848	26.756	11.821
585.000	0.028	28.848	26.756	11.821
586.000	0.028	28.848	26.756	11.824
587.000	0.028	28.848	26.756	11.824
588.000	0.028	28.848	26.756	11.824
589.000	0.028	28.848	26.756	11.824
590.000	0.028	28.848	26.756	11.824
591.000	0.028	28.848	26.756	11.827
592.000	0.028	28.848	26.756	11.827
593.000	0.028	28.848	26.756	11.827
594.000	0.028	28.848	26.756	11.827
595.000	0.028	28.848	26.756	11.827
596.000	0.028	28.848	26.756	11.830
597.000	0.028	28.848	26.756	11.830
598.000	0.028	28.848	26.756	11.830
599.000	0.028	28.848	26.756	11.830
600.000	0.028	28.848	26.756	11.830

601.000	0.028	28.848	26.756	11.834
602.000	0.028	28.848	26.756	11.834
603.000	0.028	28.848	26.756	11.834
604.000	0.028	28.848	26.756	11.834
605.000	0.028	28.848	26.756	11.834
606.000	0.028	28.848	26.756	11.834
607.000	0.028	28.848	26.756	11.837
608.000	0.028	28.848	26.756	11.837
609.000	0.028	28.848	26.756	11.837
610.000	0.028	28.848	26.756	11.837
611.000	0.028	28.848	26.756	11.840
612.000	0.028	28.848	26.756	11.840
613.000	0.028	28.848	26.756	11.840
614.000	0.028	28.848	26.756	11.840
615.000	0.028	28.848	26.756	11.840
616.000	0.028	28.848	26.756	11.840
617.000	0.028	28.848	26.756	11.840
618.000	0.028	28.848	26.756	11.840
619.000	0.028	28.848	26.756	11.840
620.000	0.028	28.848	26.756	11.840
621.000	0.028	28.848	26.756	11.840
622.000	0.028	28.848	26.756	11.843
623.000	0.028	28.848	26.756	11.840
624.000	0.028	28.848	26.756	11.843
625.000	0.028	28.848	26.756	11.843
626.000	0.028	28.848	26.756	11.843
627.000	0.028	28.848	26.756	11.843
628.000	0.028	28.848	26.756	11.843
629.000	0.028	28.848	26.756	11.843
630.000	0.028	28.848	26.756	11.846
631.000	0.028	28.848	26.756	11.846
632.000	0.028	28.848	26.756	11.846
633.000	0.028	28.848	26.756	11.846
634.000	0.028	28.848	26.756	11.846
635.000	0.028	28.848	26.756	11.846
636.000	0.028	28.848	26.756	11.849
637.000	0.028	28.848	26.756	11.849
638.000	0.028	28.848	26.756	11.849
639.000	0.028	28.848	26.756	11.849
640.000	0.028	28.848	26.756	11.853
641.000	0.028	28.848	26.756	11.849
642.000	0.028	28.848	26.756	11.853
643.000	0.028	28.848	26.756	11.853
644.000	0.028	28.848	26.756	11.853
645.000	0.028	28.848	26.756	11.853
646.000	0.028	28.848	26.756	11.853
647.000	0.028	28.848	26.756	11.853
648.000	0.028	28.848	26.756	11.856

649.000	0.028	28.848	26.756	11.856
650.000	0.028	28.848	26.756	11.856
651.000	0.028	28.848	26.756	11.856
652.000	0.028	28.848	26.756	11.859
653.000	0.028	28.848	26.756	11.859
654.000	0.028	28.848	26.756	11.859
655.000	0.028	28.848	26.756	11.859
656.000	0.028	28.848	26.756	11.862
657.000	0.028	28.848	26.756	11.862
658.000	0.028	28.848	26.756	11.862
659.000	0.028	28.848	26.756	11.862
660.000	0.028	28.848	26.756	11.862
661.000	0.028	28.848	26.756	11.862
662.000	0.028	28.848	26.756	11.865
663.000	0.028	28.848	26.756	11.865
664.000	0.028	28.848	26.756	11.865
665.000	0.028	28.848	26.756	11.865
666.000	0.028	28.848	26.756	11.865
667.000	0.028	28.848	26.756	11.869
668.000	0.028	28.848	26.756	11.869
669.000	0.028	28.848	26.756	11.869
670.000	0.028	28.848	26.756	11.869
671.000	0.028	28.848	26.756	11.869
672.000	0.028	28.848	26.756	11.872
673.000	0.028	28.848	26.756	11.872
674.000	0.028	28.848	26.756	11.872
675.000	0.028	28.848	26.756	11.872
676.000	0.028	28.848	26.756	11.875
677.000	0.028	28.848	26.756	11.875
678.000	0.028	28.848	26.756	11.875
679.000	0.028	28.848	26.756	11.878
680.000	0.028	28.848	26.756	11.878
681.000	0.028	28.848	26.756	11.878
682.000	0.028	28.848	26.756	11.881
683.000	0.028	28.848	26.756	11.881
684.000	0.028	28.848	26.756	11.881
685.000	0.028	28.848	26.756	11.884
686.000	0.028	28.848	26.756	11.884
687.000	0.028	28.848	26.756	11.884
688.000	0.028	28.848	26.756	11.884
689.000	0.028	28.848	26.756	11.888
690.000	0.028	28.848	26.756	11.888
691.000	0.028	28.848	26.756	11.888
692.000	0.028	28.848	26.756	11.888
693.000	0.028	28.848	26.756	11.888
694.000	0.028	28.848	26.756	11.891
695.000	0.028	28.848	26.756	11.891
696.000	0.028	28.848	26.756	11.891

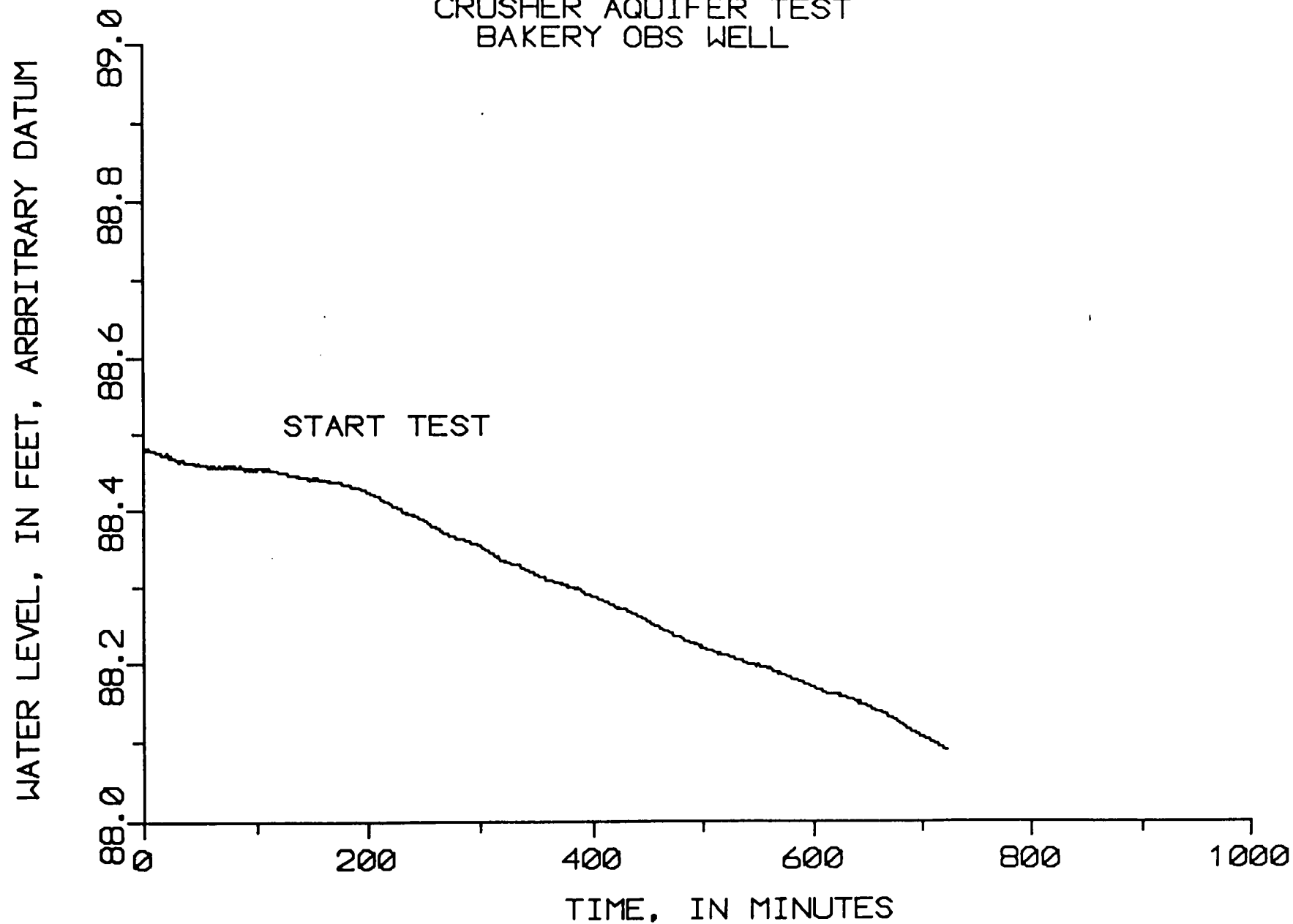
697.000	0.028	28.848	26.756	11.894
698.000	0.028	28.848	26.756	11.894
699.000	0.028	28.848	26.756	11.894
700.000	0.028	28.848	26.756	11.894
701.000	0.028	28.848	26.756	11.894
702.000	0.028	28.848	26.756	11.897
703.000	0.028	28.848	26.756	11.897
704.000	0.028	28.848	26.756	11.897
705.000	0.028	28.848	26.756	11.897
706.000	0.028	28.848	26.756	11.897
707.000	0.028	28.848	26.756	11.900
708.000	0.028	28.848	26.756	11.900
709.000	0.028	28.848	26.756	11.900
710.000	0.028	28.848	26.756	11.900
711.000	0.028	28.848	26.756	11.903
712.000	0.028	28.848	26.756	11.903
713.000	0.028	28.848	26.756	11.903
714.000	0.028	28.848	26.756	11.903
715.000	0.028	28.848	26.756	11.907
716.000	0.028	28.848	26.756	11.907
717.000	0.028	28.848	26.756	11.907
718.000	0.028	28.848	26.756	11.907
719.000	0.028	28.848	26.756	11.910
720.000	0.028	28.848	26.756	11.910
721.000	0.028	28.848	26.756	11.910
722.000	0.028	28.848	26.756	11.910
723.000	0.028	28.848	26.756	11.913
724.000	0.028	28.848	26.756	11.913
725.000	0.028	28.848	26.756	11.913
726.000	0.028	28.848	26.756	11.913
727.000	0.028	28.848	26.756	11.916
728.000	0.028	28.848	26.756	11.916
729.000	0.028	28.848	26.756	11.916
730.000	0.028	28.848	26.756	11.916
731.000	0.028	28.848	26.756	11.919
732.000	0.028	28.848	26.756	11.919
733.000	0.028	28.848	26.756	11.919
734.000	0.028	28.848	26.756	11.919
735.000	0.028	28.848	26.756	11.919
736.000	0.028	28.848	26.756	11.923
737.000	0.028	28.848	26.756	11.923
738.000	0.028	28.848	26.756	11.923
739.000	0.028	28.848	26.756	11.923
740.000	0.028	28.848	26.756	11.926
741.000	0.028	28.848	26.756	11.926
742.000	0.028	28.848	26.756	11.926
743.000	0.028	28.848	26.756	11.929
744.000	0.028	28.848	26.756	11.929

745.000	0.028	28.848	26.756	11.932
746.000	0.028	28.848	26.756	11.932
747.000	0.028	28.848	26.756	11.932
748.000	0.028	28.848	26.756	11.932
749.000	0.028	28.848	26.756	11.935
750.000	0.028	28.848	26.756	11.935
751.000	0.028	28.848	26.756	11.935
752.000	0.028	28.848	26.756	11.935
753.000	0.028	28.848	26.756	11.935
754.000	0.028	28.848	26.756	11.938
755.000	0.028	28.848	26.756	11.938
756.000	0.028	28.848	26.756	11.938
757.000	0.028	28.848	26.756	11.938
758.000	0.028	28.848	26.756	11.938
759.000	0.028	28.848	26.756	11.938
760.000	0.028	28.848	26.756	11.942
761.000	0.028	28.848	26.756	11.942
762.000	0.028	28.848	26.756	11.942
763.000	0.028	28.848	26.756	11.945
764.000	0.028	28.848	26.756	11.945
765.000	0.028	28.848	26.756	11.945
766.000	0.028	28.848	26.756	11.948
767.000	0.028	28.848	26.756	11.948
768.000	0.028	28.848	26.756	11.948
769.000	0.028	28.848	26.756	11.948
770.000	0.028	28.848	26.756	11.948
771.000	0.028	28.848	26.756	11.948
772.000	0.028	28.848	26.756	11.951
773.000	0.028	28.848	26.756	11.951
774.000	0.028	28.848	26.756	11.951
775.000	0.028	28.848	26.756	11.951
776.000	0.028	28.848	26.756	11.951
777.000	0.028	28.848	26.756	11.954
778.000	0.028	28.848	26.756	11.954
779.000	0.028	28.848	26.756	11.954
780.000	0.028	28.848	26.756	11.954
781.000	0.028	28.848	26.756	11.954
782.000	0.028	28.848	26.756	11.958
783.000	0.028	28.848	26.756	11.958
784.000	0.028	28.848	26.756	11.958
785.000	0.028	28.848	26.756	11.958
786.000	0.028	28.848	26.756	11.958
787.000	0.028	28.848	26.756	11.961
788.000	0.028	28.848	26.756	11.961
789.000	0.028	28.848	26.756	11.961
790.000	0.028	28.848	26.756	11.961
791.000	0.028	28.848	26.756	11.961
792.000	0.028	28.848	26.756	11.964

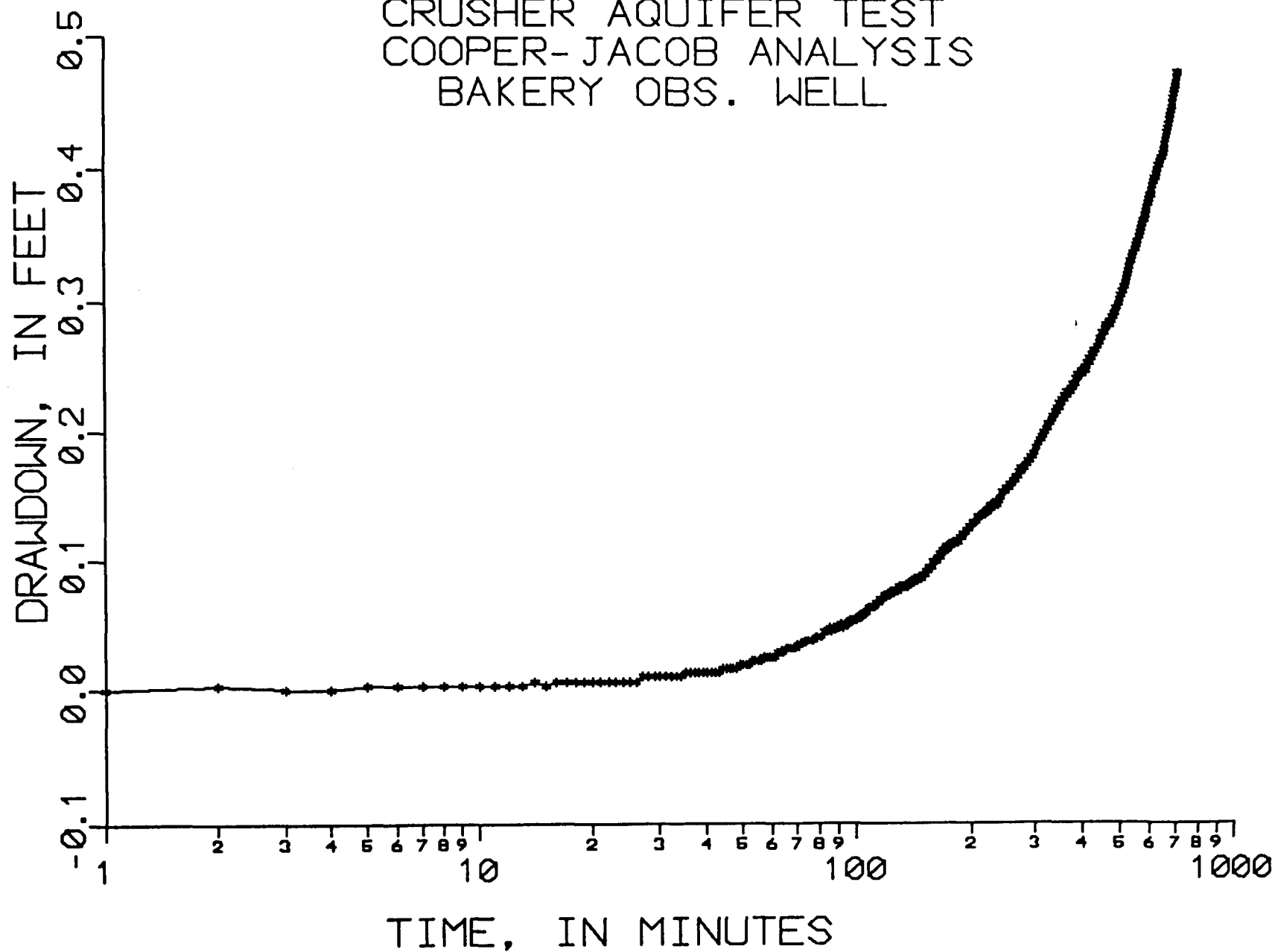
793.000	0.028	28.848	26.756	11.964
794.000	0.028	28.848	26.756	11.964
795.000	0.028	28.848	26.756	11.964
796.000	0.028	28.848	26.756	11.964
797.000	0.028	28.848	26.756	11.967
798.000	0.028	28.848	26.756	11.967
799.000	0.028	28.848	26.756	11.967
800.000	0.028	28.848	26.756	11.967
801.000	0.028	28.848	26.756	11.967
802.000	0.028	28.848	26.756	11.967
803.000	0.028	28.848	26.756	11.970
804.000	0.028	28.848	26.756	11.970
805.000	0.028	28.848	26.756	11.970
806.000	0.028	28.848	26.756	11.970
807.000	0.028	28.848	26.756	11.973
808.000	0.028	28.848	26.756	11.973
809.000	0.028	28.848	26.756	11.973
810.000	0.028	28.848	26.756	11.973
811.000	0.028	28.848	26.756	11.977
812.000	0.028	28.848	26.756	11.977
813.000	0.028	28.848	26.756	11.977
814.000	0.028	28.848	26.756	11.980
815.000	0.028	28.848	26.756	11.980
816.000	0.028	28.848	26.756	11.980
817.000	0.028	28.848	26.756	11.980
818.000	0.028	28.848	26.756	11.983
819.000	0.028	28.848	26.756	11.983
820.000	0.028	28.848	26.756	11.983
821.000	0.028	28.848	26.756	11.986
822.000	0.028	28.848	26.756	11.986
823.000	0.028	28.848	26.756	11.986
824.000	0.028	28.848	26.756	11.986
825.000	0.028	28.848	26.756	11.989
826.000	0.028	28.848	26.756	11.989
827.000	0.028	28.848	26.756	11.989
828.000	0.028	28.848	26.756	11.989
829.000	0.028	28.848	26.756	11.992
830.000	0.028	28.848	26.756	11.992
831.000	0.028	28.848	26.756	11.992
832.000	0.028	28.848	26.756	11.992
833.000	0.028	28.848	26.756	11.996
834.000	0.028	28.848	26.756	11.996
835.000	0.028	28.848	26.756	11.999
836.000	0.028	28.848	26.756	11.999
837.000	0.028	28.848	26.756	11.999
838.000	0.028	28.848	26.756	11.999
839.000	0.028	28.848	26.756	12.002
840.000	0.028	28.848	26.756	12.002

841.000	0.028	28.848	26.756	12.002
842.000	0.028	28.848	26.756	12.002
843.000	0.028	28.848	26.756	12.005
844.000	0.028	28.848	26.756	12.005
845.000	0.028	28.848	26.756	12.005
846.000	0.028	28.848	26.756	12.008
847.000	0.028	28.848	26.756	12.008
848.000	0.028	28.848	26.756	12.008
849.000	0.028	28.848	26.756	12.012
850.000	0.028	28.848	26.756	12.012
851.000	0.028	28.848	26.756	12.012
852.000	0.028	28.848	26.756	12.012
853.000	0.028	28.848	26.756	12.015
854.000	0.028	28.848	26.756	12.015
855.000	0.028	28.848	26.756	12.015
856.000	0.028	28.848	26.756	12.018
857.000	0.028	28.848	26.756	12.018
858.000	0.028	28.848	26.756	12.021
859.000	0.028	28.848	26.756	12.018
860.000	0.028	28.848	26.756	12.021
861.000	0.028	28.848	26.756	12.021
862.000	0.028	28.848	26.756	12.021
863.000	0.028	28.848	26.756	12.024
864.000	0.028	28.848	26.756	12.024
865.000	0.028	28.848	26.756	12.024
866.000	0.028	28.848	26.756	12.027
867.000	0.028	28.848	26.756	12.027
868.000	0.028	28.848	26.756	12.027
869.000	0.028	28.848	26.756	12.031
870.000	0.028	28.848	26.756	12.031
871.000	0.028	28.848	26.756	12.031
872.000	0.028	28.848	26.756	12.031
873.000	0.028	28.848	26.756	12.031
874.000	0.028	28.848	26.756	12.031

WATER LEVEL VERSUS TIME
CRUSHER AQUIFER TEST
BAKERY OBS WELL



CRUSHER AQUIFER TEST
COOPER-JACOB ANALYSIS
BAKERY OBS. WELL



Data for Pump Test

Well Name: BAKERY Date of Test: 12-18-92
 Aquifer Thickness (b): 300.00 feet
 Pumped Well Discharge(Q) = 46.00 gpm
 Radius of Pumping Well = 0.33 feet
 Distance of Observation Well from Pumping Well = 300.00 feet

Entry No.	Time(t) (min.)	Drawdown(s) (ft.)	$\frac{t}{d^2}$ (min./sq.ft.)
*****	*****	*****	*****
1	5.000	0.003	5.56E-05
2	6.000	0.003	6.67E-05
3	7.000	0.003	7.78E-05
4	8.000	0.003	8.89E-05
5	9.000	0.003	1.00E-04
6	10.000	0.003	1.11E-04
7	11.000	0.003	1.22E-04
8	12.000	0.003	1.33E-04
9	13.000	0.003	1.44E-04
10	14.000	0.006	1.56E-04
11	15.000	0.003	1.67E-04
12	16.000	0.006	1.78E-04
13	17.000	0.006	1.89E-04
14	18.000	0.006	2.00E-04
15	19.000	0.006	2.11E-04
16	20.000	0.006	2.22E-04
17	21.000	0.006	2.33E-04
18	22.000	0.006	2.44E-04
19	23.000	0.006	2.56E-04
20	24.000	0.006	2.67E-04
21	25.000	0.006	2.78E-04
22	26.000	0.006	2.89E-04
23	27.000	0.010	3.00E-04
24	28.000	0.010	3.11E-04
25	29.000	0.010	3.22E-04
26	30.000	0.010	3.33E-04
27	31.000	0.010	3.44E-04
28	32.000	0.010	3.56E-04
29	33.000	0.010	3.67E-04
30	34.000	0.010	3.78E-04
31	35.000	0.013	3.89E-04
32	36.000	0.013	4.00E-04
33	37.000	0.013	4.11E-04
34	38.000	0.013	4.22E-04
35	39.000	0.013	4.33E-04
36	40.000	0.013	4.44E-04
37	41.000	0.013	4.56E-04
38	42.000	0.013	4.67E-04
39	43.000	0.013	4.78E-04
40	44.000	0.016	4.89E-04
41	45.000	0.016	5.00E-04
42	46.000	0.016	5.11E-04
43	47.000	0.016	5.22E-04
44	48.000	0.016	5.33E-04
45	49.000	0.019	5.44E-04
46	50.000	0.019	5.56E-04
47	51.000	0.019	5.67E-04

48	52.000	0.019	5.78E-04
49	53.000	0.022	5.89E-04
50	54.000	0.022	6.00E-04
51	55.000	0.022	6.11E-04
52	56.000	0.022	6.22E-04
53	57.000	0.025	6.33E-04
54	58.000	0.025	6.44E-04
55	59.000	0.025	6.56E-04
56	60.000	0.025	6.67E-04
57	61.000	0.025	6.78E-04
58	62.000	0.029	6.89E-04
59	63.000	0.029	7.00E-04
60	64.000	0.029	7.11E-04
61	65.000	0.032	7.22E-04
62	66.000	0.032	7.33E-04
63	67.000	0.032	7.44E-04
64	68.000	0.032	7.56E-04
65	69.000	0.032	7.67E-04
66	70.000	0.035	7.78E-04
67	71.000	0.035	7.89E-04
68	72.000	0.035	8.00E-04
69	73.000	0.038	8.11E-04
70	74.000	0.038	8.22E-04
71	75.000	0.038	8.33E-04
72	76.000	0.038	8.44E-04
73	77.000	0.038	8.56E-04
74	78.000	0.041	8.67E-04
75	79.000	0.041	8.78E-04
76	80.000	0.041	8.89E-04
77	81.000	0.041	9.00E-04
78	82.000	0.045	9.11E-04
79	83.000	0.045	9.22E-04
80	84.000	0.045	9.33E-04
81	85.000	0.048	9.44E-04
82	86.000	0.045	9.56E-04
83	87.000	0.048	9.67E-04
84	88.000	0.048	9.78E-04
85	89.000	0.048	9.89E-04
86	90.000	0.048	1.00E-03
87	91.000	0.051	1.01E-03
88	92.000	0.048	1.02E-03
89	93.000	0.051	1.03E-03
90	94.000	0.051	1.04E-03
91	95.000	0.051	1.06E-03
92	96.000	0.054	1.07E-03
93	97.000	0.054	1.08E-03
94	98.000	0.054	1.09E-03
95	99.000	0.054	1.10E-03
96	100.000	0.054	1.11E-03
97	101.000	0.057	1.12E-03
98	102.000	0.057	1.13E-03
99	103.000	0.057	1.14E-03
100	104.000	0.060	1.16E-03
101	105.000	0.060	1.17E-03
102	106.000	0.060	1.18E-03
103	107.000	0.064	1.19E-03
104	108.000	0.064	1.20E-03
105	109.000	0.064	1.21E-03
106	110.000	0.064	1.22E-03
107	111.000	0.064	1.23E-03

108	112.000	0.067	1.24E-03
109	113.000	0.067	1.26E-03
110	114.000	0.067	1.27E-03
111	115.000	0.070	1.28E-03
112	116.000	0.070	1.29E-03
113	117.000	0.070	1.30E-03
114	118.000	0.073	1.31E-03
115	119.000	0.073	1.32E-03
116	120.000	0.073	1.33E-03
117	121.000	0.073	1.34E-03
118	122.000	0.073	1.36E-03
119	123.000	0.076	1.37E-03
120	124.000	0.076	1.38E-03
121	125.000	0.076	1.39E-03
122	126.000	0.076	1.40E-03
123	127.000	0.076	1.41E-03
124	128.000	0.076	1.42E-03
125	129.000	0.080	1.43E-03
126	130.000	0.080	1.44E-03
127	131.000	0.080	1.46E-03
128	132.000	0.080	1.47E-03
129	133.000	0.080	1.48E-03
130	134.000	0.080	1.49E-03
131	135.000	0.080	1.50E-03
132	136.000	0.080	1.51E-03
133	137.000	0.083	1.52E-03
134	138.000	0.083	1.53E-03
135	139.000	0.083	1.54E-03
136	140.000	0.083	1.56E-03
137	141.000	0.083	1.57E-03
138	142.000	0.086	1.58E-03
139	143.000	0.086	1.59E-03
140	144.000	0.086	1.60E-03
141	145.000	0.086	1.61E-03
142	146.000	0.086	1.62E-03
143	147.000	0.086	1.63E-03
144	148.000	0.086	1.64E-03
145	149.000	0.089	1.66E-03
146	150.000	0.089	1.67E-03
147	151.000	0.089	1.68E-03
148	152.000	0.092	1.69E-03
149	153.000	0.092	1.70E-03
150	154.000	0.092	1.71E-03
151	155.000	0.095	1.72E-03
152	156.000	0.095	1.73E-03
153	157.000	0.095	1.74E-03
154	158.000	0.095	1.76E-03
155	159.000	0.099	1.77E-03
156	160.000	0.099	1.78E-03
157	161.000	0.099	1.79E-03
158	162.000	0.099	1.80E-03
159	163.000	0.102	1.81E-03
160	164.000	0.102	1.82E-03
161	165.000	0.105	1.83E-03
162	166.000	0.102	1.84E-03
163	167.000	0.105	1.86E-03
164	168.000	0.108	1.87E-03
165	169.000	0.108	1.88E-03
166	170.000	0.108	1.89E-03
167	171.000	0.108	1.90E-03

168	172.000	0.111	1.91E-03
169	173.000	0.108	1.92E-03
170	174.000	0.111	1.93E-03
171	175.000	0.111	1.94E-03
172	176.000	0.111	1.96E-03
173	177.000	0.111	1.97E-03
174	178.000	0.114	1.98E-03
175	179.000	0.114	1.99E-03
176	180.000	0.114	2.00E-03
177	181.000	0.114	2.01E-03
178	182.000	0.114	2.02E-03
179	183.000	0.114	2.03E-03
180	184.000	0.114	2.04E-03
181	185.000	0.114	2.06E-03
182	186.000	0.118	2.07E-03
183	187.000	0.118	2.08E-03
184	188.000	0.118	2.09E-03
185	189.000	0.118	2.10E-03
186	190.000	0.121	2.11E-03
187	191.000	0.121	2.12E-03
188	192.000	0.121	2.13E-03
189	193.000	0.121	2.14E-03
190	194.000	0.124	2.16E-03
191	195.000	0.124	2.17E-03
192	196.000	0.124	2.18E-03
193	197.000	0.124	2.19E-03
194	198.000	0.127	2.20E-03
195	199.000	0.127	2.21E-03
196	200.000	0.127	2.22E-03
197	201.000	0.127	2.23E-03
198	202.000	0.130	2.24E-03
199	203.000	0.130	2.26E-03
200	204.000	0.130	2.27E-03
201	205.000	0.130	2.28E-03
202	206.000	0.130	2.29E-03
203	207.000	0.130	2.30E-03
204	208.000	0.134	2.31E-03
205	209.000	0.134	2.32E-03
206	210.000	0.134	2.33E-03
207	211.000	0.134	2.34E-03
208	212.000	0.134	2.36E-03
209	213.000	0.134	2.37E-03
210	214.000	0.134	2.38E-03
211	215.000	0.137	2.39E-03
212	216.000	0.137	2.40E-03
213	217.000	0.137	2.41E-03
214	218.000	0.137	2.42E-03
215	219.000	0.137	2.43E-03
216	220.000	0.137	2.44E-03
217	221.000	0.140	2.46E-03
218	222.000	0.137	2.47E-03
219	223.000	0.140	2.48E-03
220	224.000	0.140	2.49E-03
221	225.000	0.140	2.50E-03
222	226.000	0.143	2.51E-03
223	227.000	0.140	2.52E-03
224	228.000	0.143	2.53E-03
225	229.000	0.143	2.54E-03
226	230.000	0.143	2.56E-03
227	231.000	0.143	2.57E-03

228	232.000	0.143	2.58E-03
229	233.000	0.143	2.59E-03
230	234.000	0.146	2.60E-03
231	235.000	0.146	2.61E-03
232	236.000	0.143	2.62E-03
233	237.000	0.146	2.63E-03
234	238.000	0.146	2.64E-03
235	239.000	0.146	2.66E-03
236	240.000	0.149	2.67E-03
237	241.000	0.149	2.68E-03
238	242.000	0.149	2.69E-03
239	243.000	0.153	2.70E-03
240	244.000	0.153	2.71E-03
241	245.000	0.153	2.72E-03
242	246.000	0.153	2.73E-03
243	247.000	0.153	2.74E-03
244	248.000	0.153	2.76E-03
245	249.000	0.156	2.77E-03
246	250.000	0.156	2.78E-03
247	251.000	0.156	2.79E-03
248	252.000	0.156	2.80E-03
249	253.000	0.156	2.81E-03
250	254.000	0.156	2.82E-03
251	255.000	0.159	2.83E-03
252	256.000	0.159	2.84E-03
253	257.000	0.159	2.86E-03
254	258.000	0.159	2.87E-03
255	259.000	0.159	2.88E-03
256	260.000	0.162	2.89E-03
257	261.000	0.162	2.90E-03
258	262.000	0.162	2.91E-03
259	263.000	0.162	2.92E-03
260	264.000	0.162	2.93E-03
261	265.000	0.165	2.94E-03
262	266.000	0.165	2.96E-03
263	267.000	0.165	2.97E-03
264	268.000	0.165	2.98E-03
265	269.000	0.165	2.99E-03
266	270.000	0.169	3.00E-03
267	271.000	0.169	3.01E-03
268	272.000	0.169	3.02E-03
269	273.000	0.172	3.03E-03
270	274.000	0.169	3.04E-03
271	275.000	0.172	3.06E-03
272	276.000	0.172	3.07E-03
273	277.000	0.172	3.08E-03
274	278.000	0.172	3.09E-03
275	279.000	0.172	3.10E-03
276	280.000	0.172	3.11E-03
277	281.000	0.172	3.12E-03
278	282.000	0.175	3.13E-03
279	283.000	0.175	3.14E-03
280	284.000	0.175	3.16E-03
281	285.000	0.175	3.17E-03
282	286.000	0.178	3.18E-03
283	287.000	0.178	3.19E-03
284	288.000	0.178	3.20E-03
285	289.000	0.178	3.21E-03
286	290.000	0.178	3.22E-03
287	291.000	0.181	3.23E-03

288	292.000	0.181	3.24E-03
289	293.000	0.181	3.26E-03
290	294.000	0.181	3.27E-03
291	295.000	0.181	3.28E-03
292	296.000	0.184	3.29E-03
293	297.000	0.184	3.30E-03
294	298.000	0.184	3.31E-03
295	299.000	0.184	3.32E-03
296	300.000	0.188	3.33E-03
297	301.000	0.188	3.34E-03
298	302.000	0.188	3.36E-03
299	303.000	0.188	3.37E-03
300	304.000	0.191	3.38E-03
301	305.000	0.191	3.39E-03
302	306.000	0.191	3.40E-03
303	307.000	0.194	3.41E-03
304	308.000	0.194	3.42E-03
305	309.000	0.194	3.43E-03
306	310.000	0.194	3.44E-03
307	311.000	0.194	3.46E-03
308	312.000	0.197	3.47E-03
309	313.000	0.197	3.48E-03
310	314.000	0.197	3.49E-03
311	315.000	0.200	3.50E-03
312	316.000	0.200	3.51E-03
313	317.000	0.200	3.52E-03
314	318.000	0.200	3.53E-03
315	319.000	0.200	3.54E-03
316	320.000	0.203	3.56E-03
317	321.000	0.203	3.57E-03
318	322.000	0.203	3.58E-03
319	323.000	0.203	3.59E-03
320	324.000	0.207	3.60E-03
321	325.000	0.207	3.61E-03
322	326.000	0.207	3.62E-03
323	327.000	0.207	3.63E-03
324	328.000	0.207	3.64E-03
325	329.000	0.207	3.66E-03
326	330.000	0.207	3.67E-03
327	331.000	0.210	3.68E-03
328	332.000	0.210	3.69E-03
329	333.000	0.210	3.70E-03
330	334.000	0.213	3.71E-03
331	335.000	0.213	3.72E-03
332	336.000	0.213	3.73E-03
333	337.000	0.213	3.74E-03
334	338.000	0.213	3.76E-03
335	339.000	0.216	3.77E-03
336	340.000	0.216	3.78E-03
337	341.000	0.216	3.79E-03
338	342.000	0.216	3.80E-03
339	343.000	0.219	3.81E-03
340	344.000	0.216	3.82E-03
341	345.000	0.219	3.83E-03
342	346.000	0.219	3.84E-03
343	347.000	0.219	3.86E-03
344	348.000	0.223	3.87E-03
345	349.000	0.219	3.88E-03
346	350.000	0.223	3.89E-03
347	351.000	0.223	3.90E-03

348	352.000	0.223	3.91E-03
349	353.000	0.223	3.92E-03
350	354.000	0.226	3.93E-03
351	355.000	0.226	3.94E-03
352	356.000	0.226	3.96E-03
353	357.000	0.226	3.97E-03
354	358.000	0.226	3.98E-03
355	359.000	0.226	3.99E-03
356	360.000	0.229	4.00E-03
357	361.000	0.229	4.01E-03
358	362.000	0.229	4.02E-03
359	363.000	0.229	4.03E-03
360	364.000	0.232	4.04E-03
361	365.000	0.229	4.06E-03
362	366.000	0.232	4.07E-03
363	367.000	0.232	4.08E-03
364	368.000	0.232	4.09E-03
365	369.000	0.232	4.10E-03
366	370.000	0.232	4.11E-03
367	371.000	0.232	4.12E-03
368	372.000	0.232	4.13E-03
369	373.000	0.232	4.14E-03
370	374.000	0.235	4.16E-03
371	375.000	0.235	4.17E-03
372	376.000	0.235	4.18E-03
373	377.000	0.235	4.19E-03
374	378.000	0.235	4.20E-03
375	379.000	0.238	4.21E-03
376	380.000	0.238	4.22E-03
377	381.000	0.238	4.23E-03
378	382.000	0.238	4.24E-03
379	383.000	0.238	4.26E-03
380	384.000	0.238	4.27E-03
381	385.000	0.238	4.28E-03
382	386.000	0.242	4.29E-03
383	387.000	0.242	4.30E-03
384	388.000	0.242	4.31E-03
385	389.000	0.242	4.32E-03
386	390.000	0.245	4.33E-03
387	391.000	0.245	4.34E-03
388	392.000	0.245	4.36E-03
389	393.000	0.245	4.37E-03
390	394.000	0.245	4.38E-03
391	395.000	0.245	4.39E-03
392	396.000	0.245	4.40E-03
393	397.000	0.245	4.41E-03
394	398.000	0.248	4.42E-03
395	399.000	0.245	4.43E-03
396	400.000	0.245	4.44E-03
397	401.000	0.248	4.46E-03
398	402.000	0.248	4.47E-03
399	403.000	0.248	4.48E-03
400	404.000	0.248	4.49E-03
401	405.000	0.248	4.50E-03
402	406.000	0.248	4.51E-03
403	407.000	0.248	4.52E-03
404	408.000	0.248	4.53E-03
405	409.000	0.251	4.54E-03
406	410.000	0.248	4.56E-03
407	411.000	0.251	4.57E-03

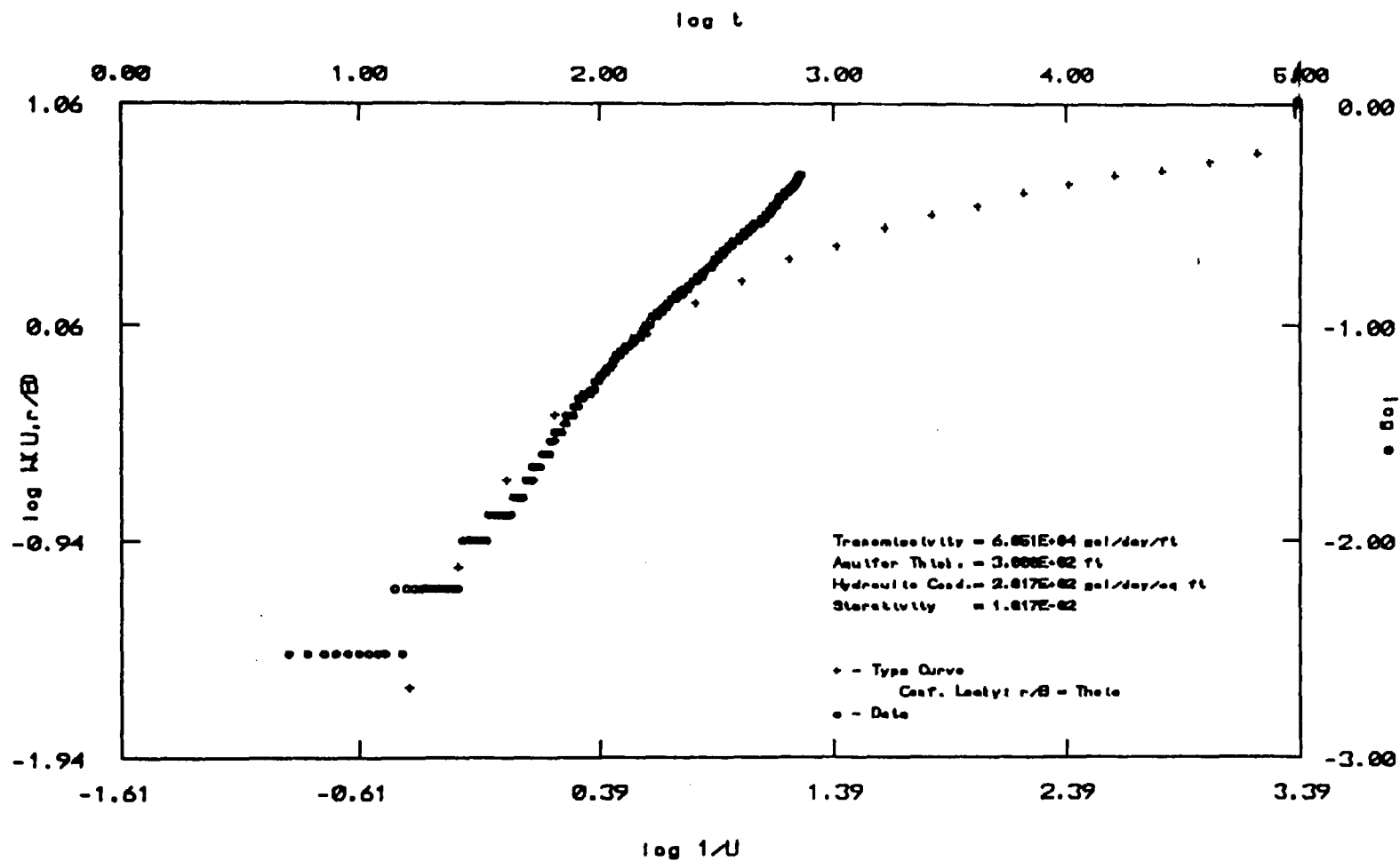
408	412.000	0.251	4.58E-03
409	413.000	0.254	4.59E-03
410	414.000	0.254	4.60E-03
411	415.000	0.254	4.61E-03
412	416.000	0.254	4.62E-03
413	417.000	0.254	4.63E-03
414	418.000	0.258	4.64E-03
415	419.000	0.254	4.66E-03
416	420.000	0.258	4.67E-03
417	421.000	0.258	4.68E-03
418	422.000	0.258	4.69E-03
419	423.000	0.258	4.70E-03
420	424.000	0.258	4.71E-03
421	425.000	0.261	4.72E-03
422	426.000	0.261	4.73E-03
423	427.000	0.261	4.74E-03
424	428.000	0.261	4.76E-03
425	429.000	0.261	4.77E-03
426	430.000	0.264	4.78E-03
427	431.000	0.264	4.79E-03
428	432.000	0.264	4.80E-03
429	433.000	0.264	4.81E-03
430	434.000	0.264	4.82E-03
431	435.000	0.264	4.83E-03
432	436.000	0.267	4.84E-03
433	437.000	0.267	4.86E-03
434	438.000	0.267	4.87E-03
435	439.000	0.267	4.88E-03
436	440.000	0.267	4.89E-03
437	441.000	0.270	4.90E-03
438	442.000	0.270	4.91E-03
439	443.000	0.270	4.92E-03
440	444.000	0.270	4.93E-03
441	445.000	0.270	4.94E-03
442	446.000	0.273	4.96E-03
443	447.000	0.273	4.97E-03
444	448.000	0.273	4.98E-03
445	449.000	0.273	4.99E-03
446	450.000	0.273	5.00E-03
447	451.000	0.277	5.01E-03
448	452.000	0.277	5.02E-03
449	453.000	0.277	5.03E-03
450	454.000	0.277	5.04E-03
451	455.000	0.277	5.06E-03
452	456.000	0.277	5.07E-03
453	457.000	0.280	5.08E-03
454	458.000	0.280	5.09E-03
455	459.000	0.280	5.10E-03
456	460.000	0.280	5.11E-03
457	461.000	0.283	5.12E-03
458	462.000	0.283	5.13E-03
459	463.000	0.283	5.14E-03
460	464.000	0.283	5.16E-03
461	465.000	0.283	5.17E-03
462	466.000	0.283	5.18E-03
463	467.000	0.283	5.19E-03
464	468.000	0.283	5.20E-03
465	469.000	0.283	5.21E-03
466	470.000	0.283	5.22E-03
467	471.000	0.283	5.23E-03

468	472.000	0.286	5.24E-03
469	473.000	0.283	5.26E-03
470	474.000	0.286	5.27E-03
471	475.000	0.286	5.28E-03
472	476.000	0.286	5.29E-03
473	477.000	0.286	5.30E-03
474	478.000	0.286	5.31E-03
475	479.000	0.286	5.32E-03
476	480.000	0.289	5.33E-03
477	481.000	0.289	5.34E-03
478	482.000	0.289	5.36E-03
479	483.000	0.289	5.37E-03
480	484.000	0.289	5.38E-03
481	485.000	0.289	5.39E-03
482	486.000	0.292	5.40E-03
483	487.000	0.292	5.41E-03
484	488.000	0.292	5.42E-03
485	489.000	0.292	5.43E-03
486	490.000	0.296	5.44E-03
487	491.000	0.292	5.46E-03
488	492.000	0.296	5.47E-03
489	493.000	0.296	5.48E-03
490	494.000	0.296	5.49E-03
491	495.000	0.296	5.50E-03
492	496.000	0.296	5.51E-03
493	497.000	0.296	5.52E-03
494	498.000	0.299	5.53E-03
495	499.000	0.299	5.54E-03
496	500.000	0.299	5.56E-03
497	501.000	0.299	5.57E-03
498	502.000	0.302	5.58E-03
499	503.000	0.302	5.59E-03
500	504.000	0.302	5.60E-03
501	505.000	0.302	5.61E-03
502	506.000	0.305	5.62E-03
503	507.000	0.305	5.63E-03
504	508.000	0.305	5.64E-03
505	509.000	0.305	5.66E-03
506	510.000	0.305	5.67E-03
507	511.000	0.305	5.68E-03
508	512.000	0.308	5.69E-03
509	513.000	0.308	5.70E-03
510	514.000	0.308	5.71E-03
511	515.000	0.308	5.72E-03
512	516.000	0.308	5.73E-03
513	517.000	0.312	5.74E-03
514	518.000	0.312	5.76E-03
515	519.000	0.312	5.77E-03
516	520.000	0.312	5.78E-03
517	521.000	0.312	5.79E-03
518	522.000	0.315	5.80E-03
519	523.000	0.315	5.81E-03
520	524.000	0.315	5.82E-03
521	525.000	0.315	5.83E-03
522	526.000	0.318	5.84E-03
523	527.000	0.318	5.86E-03
524	528.000	0.318	5.87E-03
525	529.000	0.321	5.88E-03
526	530.000	0.321	5.89E-03
527	531.000	0.321	5.90E-03

528	532.000	0.324	5.91E-03
529	533.000	0.324	5.92E-03
530	534.000	0.324	5.93E-03
531	535.000	0.327	5.94E-03
532	536.000	0.327	5.96E-03
533	537.000	0.327	5.97E-03
534	538.000	0.327	5.98E-03
535	539.000	0.331	5.99E-03
536	540.000	0.331	6.00E-03
537	541.000	0.331	6.01E-03
538	542.000	0.331	6.02E-03
539	543.000	0.331	6.03E-03
540	544.000	0.334	6.04E-03
541	545.000	0.334	6.06E-03
542	546.000	0.334	6.07E-03
543	547.000	0.337	6.08E-03
544	548.000	0.337	6.09E-03
545	549.000	0.337	6.10E-03
546	550.000	0.337	6.11E-03
547	551.000	0.337	6.12E-03
548	552.000	0.340	6.13E-03
549	553.000	0.340	6.14E-03
550	554.000	0.340	6.16E-03
551	555.000	0.340	6.17E-03
552	556.000	0.340	6.18E-03
553	557.000	0.343	6.19E-03
554	558.000	0.343	6.20E-03
555	559.000	0.343	6.21E-03
556	560.000	0.343	6.22E-03
557	561.000	0.346	6.23E-03
558	562.000	0.346	6.24E-03
559	563.000	0.346	6.26E-03
560	564.000	0.346	6.27E-03
561	565.000	0.350	6.28E-03
562	566.000	0.350	6.29E-03
563	567.000	0.350	6.30E-03
564	568.000	0.350	6.31E-03
565	569.000	0.353	6.32E-03
566	570.000	0.353	6.33E-03
567	571.000	0.353	6.34E-03
568	572.000	0.353	6.36E-03
569	573.000	0.356	6.37E-03
570	574.000	0.356	6.38E-03
571	575.000	0.356	6.39E-03
572	576.000	0.356	6.40E-03
573	577.000	0.359	6.41E-03
574	578.000	0.359	6.42E-03
575	579.000	0.359	6.43E-03
576	580.000	0.359	6.44E-03
577	581.000	0.362	6.46E-03
578	582.000	0.362	6.47E-03
579	583.000	0.362	6.48E-03
580	584.000	0.362	6.49E-03
581	585.000	0.362	6.50E-03
582	586.000	0.366	6.51E-03
583	587.000	0.366	6.52E-03
584	588.000	0.366	6.53E-03
585	589.000	0.366	6.54E-03
586	590.000	0.369	6.56E-03
587	591.000	0.369	6.57E-03

588	592.000	0.369	6.58E-03
589	593.000	0.372	6.59E-03
590	594.000	0.372	6.60E-03
591	595.000	0.375	6.61E-03
592	596.000	0.375	6.62E-03
593	597.000	0.375	6.63E-03
594	598.000	0.375	6.64E-03
595	599.000	0.378	6.66E-03
596	600.000	0.378	6.67E-03
597	601.000	0.378	6.68E-03
598	602.000	0.378	6.69E-03
599	603.000	0.378	6.70E-03
600	604.000	0.381	6.71E-03

BAKERY OBSERVATION WELL



APPENDIX VII

AQUIFER TEST DATA: RACETRACK WELL AND CURVE MATCHING GRAPH

APPENDIX VII

AQUIFER TEST DATA: RACETRACK Well
CURVE MATCHING GRAPH

~~RACETRACK~~

SE1000C
Environmental Logger
04/01 17:38

Unit# 01513 Test 4

WJT 2: Level (F) ~~105~~

Reference 39.640
Linearity 0.120
Scale factor 19.920
Offset 0.030
Delay mSEC 50.000

ap 0 03/26 08:51:35

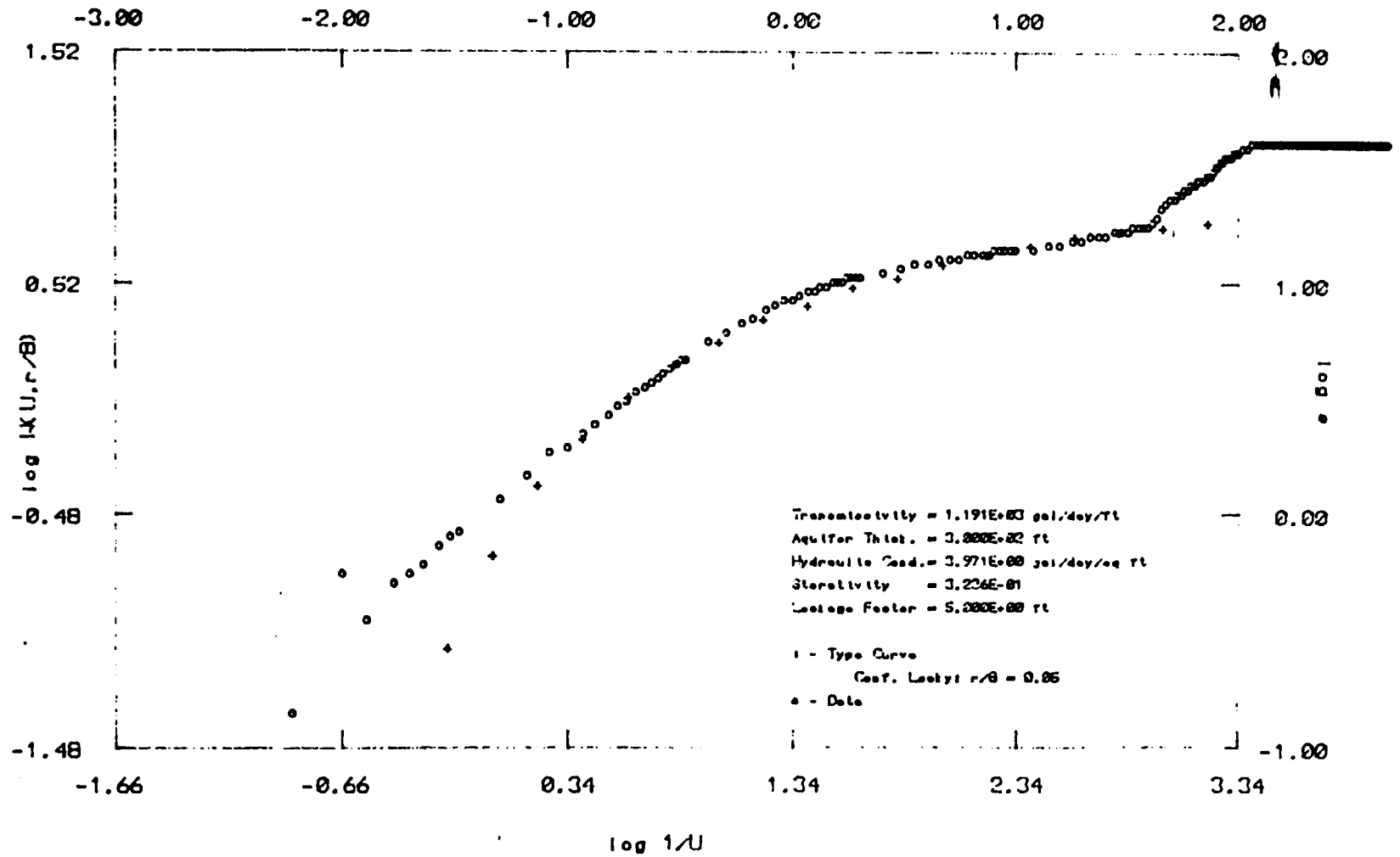
Elapsed Time	INPUT 2
0.0000	41.410
0.0033	38.846
0.0066	39.779
0.0100	40.179
0.0133	39.976
0.0166	40.135
0.0200	40.185
0.0233	40.249
0.0266	40.369
0.0300	40.445
0.0333	40.471
0.0500	40.782
0.0666	41.105
0.0833	41.416
0.1000	41.568
0.1166	41.854
0.1333	42.076
0.1500	42.317
0.1666	42.526
0.1833	42.729
0.2000	42.919
0.2166	43.103
0.2333	43.338
0.2500	43.490
0.2666	43.674
0.2833	43.807
0.3000	44.004
0.3166	44.143
0.3333	44.276
0.4166	45.018
0.5000	45.613
0.5833	46.171
0.6666	46.671
0.7500	47.109
0.8333	47.470
0.9166	47.837
1.0000	48.103
1.0833	48.413
1.1666	48.704
1.2500	48.894
1.3333	49.110
1.4166	49.268
1.5000	49.458

1.5933	49.610
1.6666	49.755
1.7500	49.914
1.8333	50.034
1.9166	50.134
2.0000	50.249
2.5000	50.755
3.0000	51.148
3.5000	51.470
4.0000	51.730
4.5000	51.958
5.0000	52.255
5.5000	52.438
6.0000	52.653
6.5000	52.805
7.0000	52.944
7.5000	53.096
8.0000	53.229
8.5000	53.311
9.0000	53.394
9.5000	53.397
10.0000	53.412
12.0000	53.602
14.0000	53.868
16.0000	54.260
18.0000	54.671
20.0000	54.974
22.0000	55.347
24.0000	55.536
26.0000	55.752
28.0000	55.960
30.0000	56.169
32.0000	56.428
34.0000	56.674
36.0000	56.883
38.0000	57.142
40.0000	57.413
42.0000	57.773
44.0000	58.980
46.0000	60.451
48.0000	61.694
50.0000	62.325
52.0000	62.962
54.0000	63.524
56.0000	64.104
58.0000	64.728
60.0000	65.334
62.0000	65.901
64.0000	66.424
66.0000	66.884
68.0000	67.344
70.0000	67.785
72.0000	68.207
74.0000	68.554
76.0000	69.146
78.0000	70.009
80.0000	70.550

82.0000	71.658
84.0000	72.395
86.0000	73.061
88.0000	73.709
90.0000	74.244
92.0000	74.645
94.0000	75.093
96.0000	75.514
98.0000	75.929
100.000	76.376
105.000	77.281
110.000	78.117
115.000	78.852
120.000	79.122
125.000	79.109
130.000	79.116
135.000	79.109
140.000	79.109
145.000	79.122
150.000	79.116
155.000	79.116
160.000	79.116
165.000	79.116
170.000	79.116
175.000	79.109
180.000	79.109
185.000	79.122
190.000	79.109
195.000	79.122
200.000	79.128
205.000	79.116
210.000	79.116
215.000	79.135
220.000	79.116
225.000	79.122
230.000	79.122
235.000	79.122
240.000	79.116
245.000	79.109
250.000	79.122
255.000	79.109
260.000	79.116
265.000	79.122
270.000	79.116
275.000	79.116
280.000	79.122
285.000	79.122
290.000	79.116
295.000	79.109
300.000	79.116
305.000	79.116
310.000	79.122
315.000	79.109
320.000	79.109
325.000	79.128
330.000	79.109
335.000	79.109

340.000	79.109
345.000	79.122
350.000	79.122
355.000	79.116
360.000	79.116
365.000	79.122
70.000	79.109
375.000	79.109
380.000	79.122
385.000	79.122
390.000	79.109
395.000	79.103
400.000	79.103
405.000	79.103
410.000	79.116
415.000	79.109
420.000	79.128
425.000	79.141
430.000	79.135
435.000	79.135
440.000	79.122
445.000	79.116
450.000	79.109
455.000	79.116
460.000	79.122
465.000	79.116
470.000	79.141
475.000	79.128
480.000	79.141
485.000	79.135
490.000	79.135
495.000	79.147
500.000	79.135
505.000	79.135
510.000	79.141

RACETRACK



Data for Pump Test

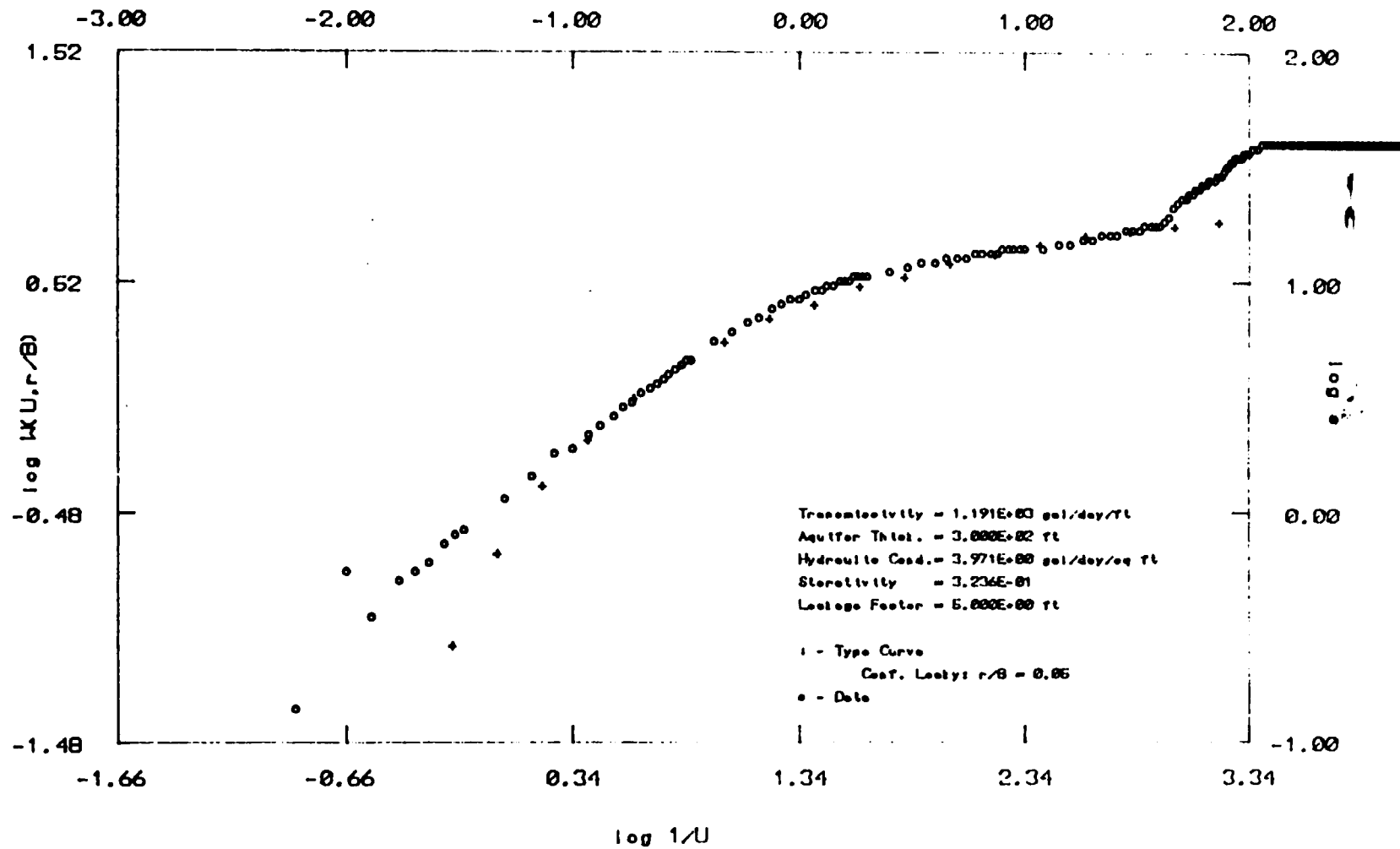
Well Name: race trk Date of Test: 3/26/92
 Aquifer Thickness (b): 300.000 feet
 Pumped Well Discharge(Q) = 31.400 gpm
 Radius of Pumping Well = 0.330 feet
 Distance of Observation Well from Pumping Well = 0.330 feet

Entry No.	Time(t) (min.)	Drawdown(s) (ft.)	t / d^2 (min./sq.ft.)
*****	*****	*****	*****
1	0.001	1.770	9.18E-03
2	0.003	0.001	2.75E-02
3	0.006	0.140	5.51E-02
4	0.010	0.540	9.18E-02
5	0.013	0.340	1.19E-01
6	0.017	0.490	1.56E-01
7	0.020	0.550	1.84E-01
8	0.023	0.610	2.11E-01
9	0.027	0.730	2.48E-01
10	0.030	0.800	2.75E-01
11	0.033	0.830	3.03E-01
12	0.050	1.140	4.59E-01
13	0.066	1.460	6.06E-01
14	0.083	1.780	7.62E-01
15	0.100	1.930	9.18E-01
16	0.117	2.210	1.07E+00
17	0.133	2.440	1.22E+00
18	0.150	2.680	1.38E+00
19	0.166	2.890	1.52E+00
20	0.183	3.090	1.68E+00
21	0.200	3.280	1.84E+00
22	0.217	3.460	1.99E+00
23	0.233	3.700	2.14E+00
24	0.250	3.850	2.30E+00
25	0.266	4.030	2.44E+00
26	0.283	4.170	2.60E+00
27	0.300	4.360	2.75E+00
28	0.317	4.500	2.91E+00
29	0.333	4.640	3.06E+00
30	0.417	5.380	3.83E+00
31	0.500	5.970	4.59E+00
32	0.583	6.530	5.35E+00
33	0.666	7.030	6.12E+00
34	0.750	7.470	6.89E+00
35	0.833	7.830	7.65E+00
36	0.917	8.200	8.42E+00
37	1.000	8.460	9.18E+00
38	1.083	8.770	9.94E+00
39	1.166	9.060	1.07E+01
40	1.250	9.250	1.15E+01
41	1.333	9.470	1.22E+01
42	1.417	9.630	1.30E+01
43	1.500	9.820	1.38E+01
44	1.593	9.970	1.46E+01
45	1.666	10.120	1.53E+01
46	1.750	10.270	1.61E+01
47	1.833	10.390	1.68E+01

48	1.917	10.510	1.76E+01
49	2.000	10.610	1.84E+01
50	2.500	11.120	2.30E+01
51	3.000	11.510	2.75E+01
52	3.500	11.830	3.21E+01
53	4.000	12.090	3.67E+01
54	4.500	12.320	4.13E+01
55	5.000	12.620	4.59E+01
56	5.500	12.800	5.05E+01
57	6.000	13.010	5.51E+01
58	6.500	13.170	5.97E+01
59	7.000	13.300	6.43E+01
60	7.500	13.460	6.89E+01
61	8.000	13.590	7.35E+01
62	8.500	13.670	7.81E+01
63	9.000	13.750	8.26E+01
64	9.500	13.750	8.72E+01
65	10.000	13.770	9.18E+01
66	12.000	13.960	1.10E+02
67	14.000	14.230	1.29E+02
68	16.000	14.620	1.47E+02
69	18.000	15.030	1.65E+02
70	20.000	15.330	1.84E+02
71	22.000	15.710	2.02E+02
72	24.000	15.900	2.20E+02
73	26.000	16.110	2.39E+02
74	28.000	16.320	2.57E+02
75	30.000	16.530	2.75E+02
76	32.000	16.790	2.94E+02
77	34.000	17.030	3.12E+02
78	36.000	17.240	3.31E+02
79	38.000	17.500	3.49E+02
80	40.000	17.770	3.67E+02
81	42.000	18.130	3.86E+02
82	44.000	19.340	4.04E+02
83	46.000	20.810	4.22E+02
84	48.000	22.050	4.41E+02
85	50.000	22.690	4.59E+02
86	52.000	23.320	4.78E+02
87	54.000	23.880	4.96E+02
88	56.000	24.460	5.14E+02
89	58.000	25.090	5.33E+02
90	60.000	25.690	5.51E+02
91	62.000	26.260	5.69E+02
92	64.000	26.780	5.88E+02
93	66.000	27.240	6.06E+02
94	68.000	27.700	6.24E+02
95	70.000	28.140	6.43E+02
96	72.000	28.570	6.61E+02
97	74.000	28.910	6.80E+02
98	76.000	29.510	6.98E+02
99	78.000	30.370	7.16E+02
100	80.000	30.910	7.35E+02
101	82.000	32.020	7.53E+02
102	84.000	32.750	7.71E+02
103	86.000	33.420	7.90E+02
104	88.000	34.070	8.08E+02
105	90.000	34.600	8.26E+02
106	92.000	34.790	8.45E+02
107	94.000	35.450	8.63E+02

108	96.000	35.870	8.82E+02
109	98.000	36.290	9.00E+02
110	100.000	36.740	9.18E+02
111	105.000	37.640	9.64E+02
112	110.000	38.480	1.01E+03
113	115.000	39.210	1.06E+03
114	120.000	39.480	1.10E+03
115	125.000	39.470	1.15E+03
116	130.000	39.480	1.19E+03
117	135.000	39.470	1.24E+03
118	140.000	39.470	1.29E+03
119	145.000	39.480	1.33E+03
120	150.000	39.480	1.38E+03
121	155.000	39.480	1.42E+03
122	160.000	39.480	1.47E+03
123	165.000	39.480	1.52E+03
124	170.000	39.480	1.56E+03
125	175.000	39.470	1.61E+03
126	180.000	39.470	1.65E+03
127	185.000	39.480	1.70E+03
128	190.000	39.470	1.74E+03
129	195.000	39.480	1.79E+03
130	200.000	39.490	1.84E+03
131	205.000	39.480	1.88E+03
132	210.000	39.480	1.93E+03
133	215.000	39.500	1.97E+03
134	220.000	39.480	2.02E+03
135	225.000	39.480	2.07E+03
136	230.000	39.480	2.11E+03
137	235.000	39.480	2.16E+03
138	240.000	39.480	2.20E+03
139	245.000	39.470	2.25E+03
140	250.000	39.480	2.30E+03
141	255.000	39.470	2.34E+03
142	260.000	39.480	2.39E+03
143	265.000	39.480	2.43E+03
144	270.000	39.480	2.48E+03
145	275.000	39.480	2.53E+03
146	280.000	39.480	2.57E+03
147	285.000	39.480	2.62E+03
148	290.000	39.480	2.66E+03
149	295.000	39.470	2.71E+03
150	300.000	39.480	2.75E+03
151	305.000	39.480	2.80E+03
152	310.000	39.480	2.85E+03
153	315.000	39.470	2.89E+03
154	320.000	39.470	2.94E+03
155	325.000	39.490	2.98E+03
156	330.000	39.470	3.03E+03
157	335.000	39.470	3.08E+03
158	340.000	39.470	3.12E+03
159	345.000	39.480	3.17E+03
160	350.000	39.480	3.21E+03
161	355.000	39.480	3.26E+03
162	360.000	39.480	3.31E+03
163	365.000	39.480	3.35E+03
164	370.000	39.470	3.40E+03
165	375.000	39.470	3.44E+03
166	380.000	39.480	3.49E+03
167	385.000	39.480	3.54E+03

168	390.000	39.470	3.58E+03
169	395.000	39.460	3.63E+03
170	400.000	39.460	3.67E+03
171	405.000	39.460	3.72E+03
172	410.000	39.480	3.76E+03
173	415.000	39.470	3.81E+03
174	420.000	39.490	3.86E+03
175	425.000	39.500	3.90E+03
176	430.000	39.500	3.95E+03
177	435.000	39.500	3.99E+03
178	440.000	39.480	4.04E+03
179	445.000	39.480	4.09E+03
180	450.000	39.470	4.13E+03
181	455.000	39.480	4.18E+03
182	460.000	39.480	4.22E+03
183	465.000	39.480	4.27E+03
184	470.000	39.500	4.32E+03
185	475.000	39.490	4.36E+03
186	480.000	39.500	4.41E+03
187	485.000	39.500	4.45E+03
188	490.000	39.500	4.50E+03
189	495.000	39.510	4.55E+03
190	500.000	39.500	4.59E+03
191	505.000	39.500	4.64E+03
192	510.000	39.500	4.68E+03



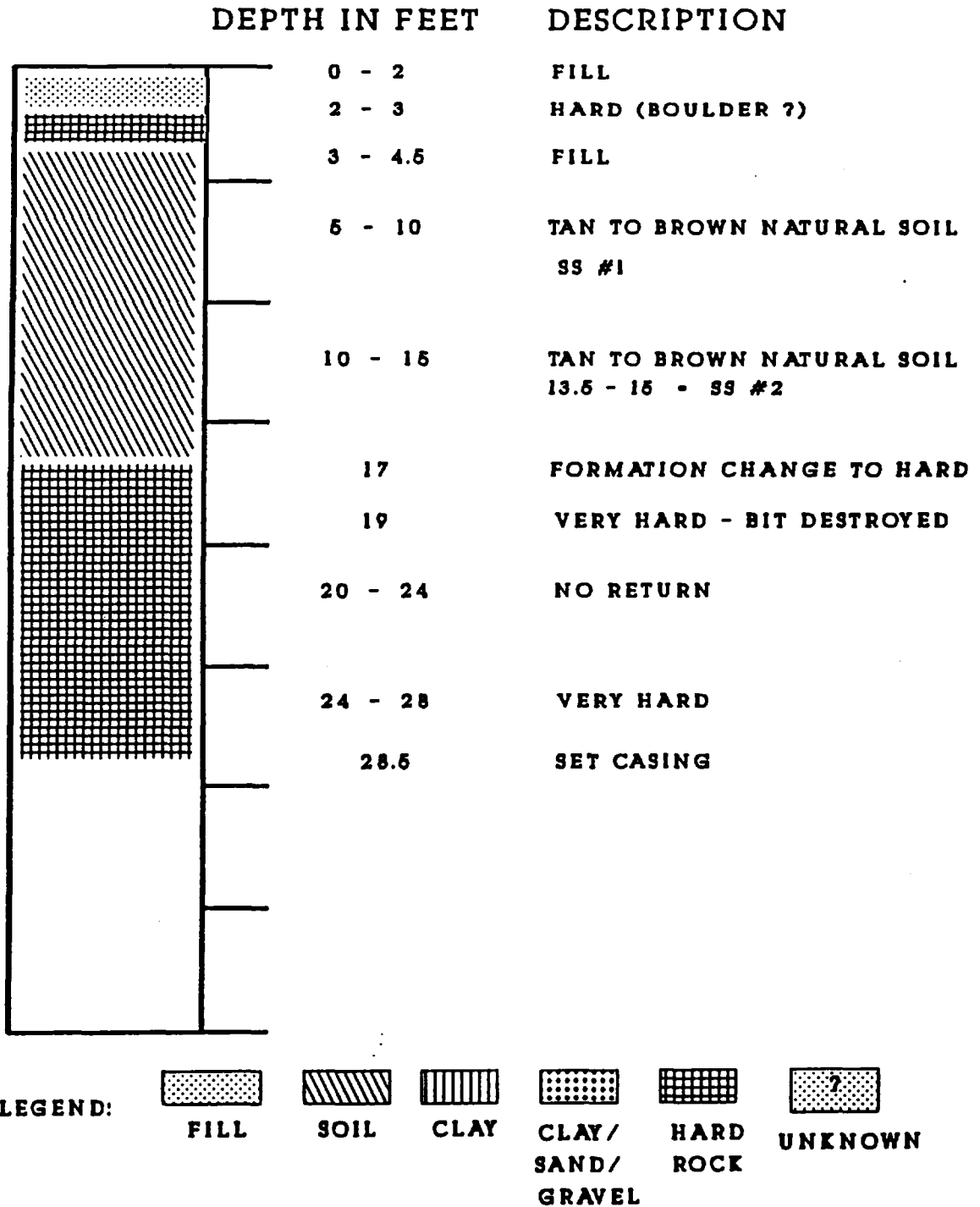
RACETRACK WELL

APPENDIX VIII

WELL CONSTRUCTION DIAGRAMS AND DRILLING LOGS

WELL AND DRILLING LOG

MW - 1



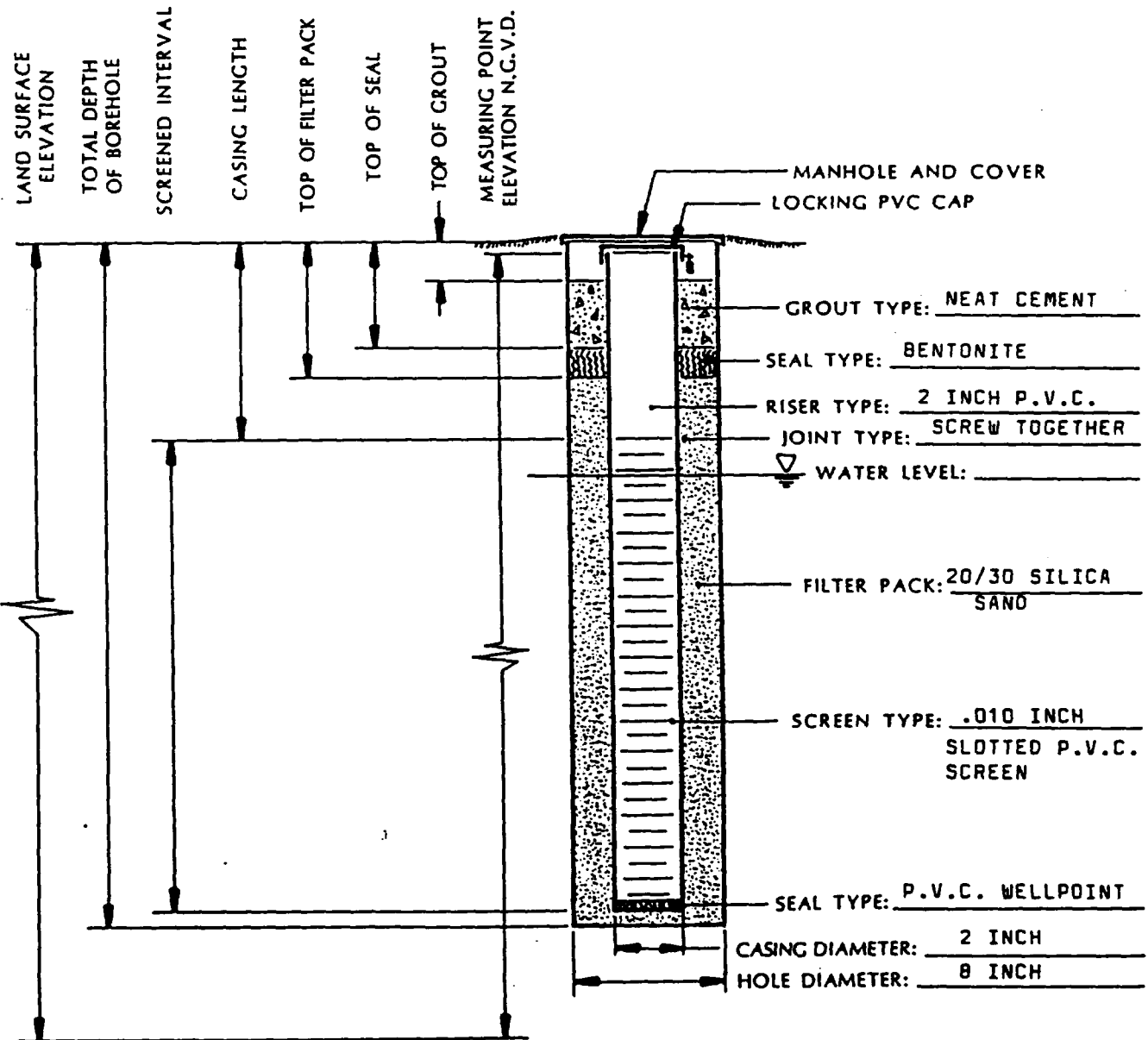
WELL CONSTRUCTION SUMMARY BELOW GROUND

-	28.5'	10'	18.5'	16.5'	14.5'	6"	-
---	-------	-----	-------	-------	-------	----	---

PROJECT: FOUR WINDS

WELL NUMBER: MW-1

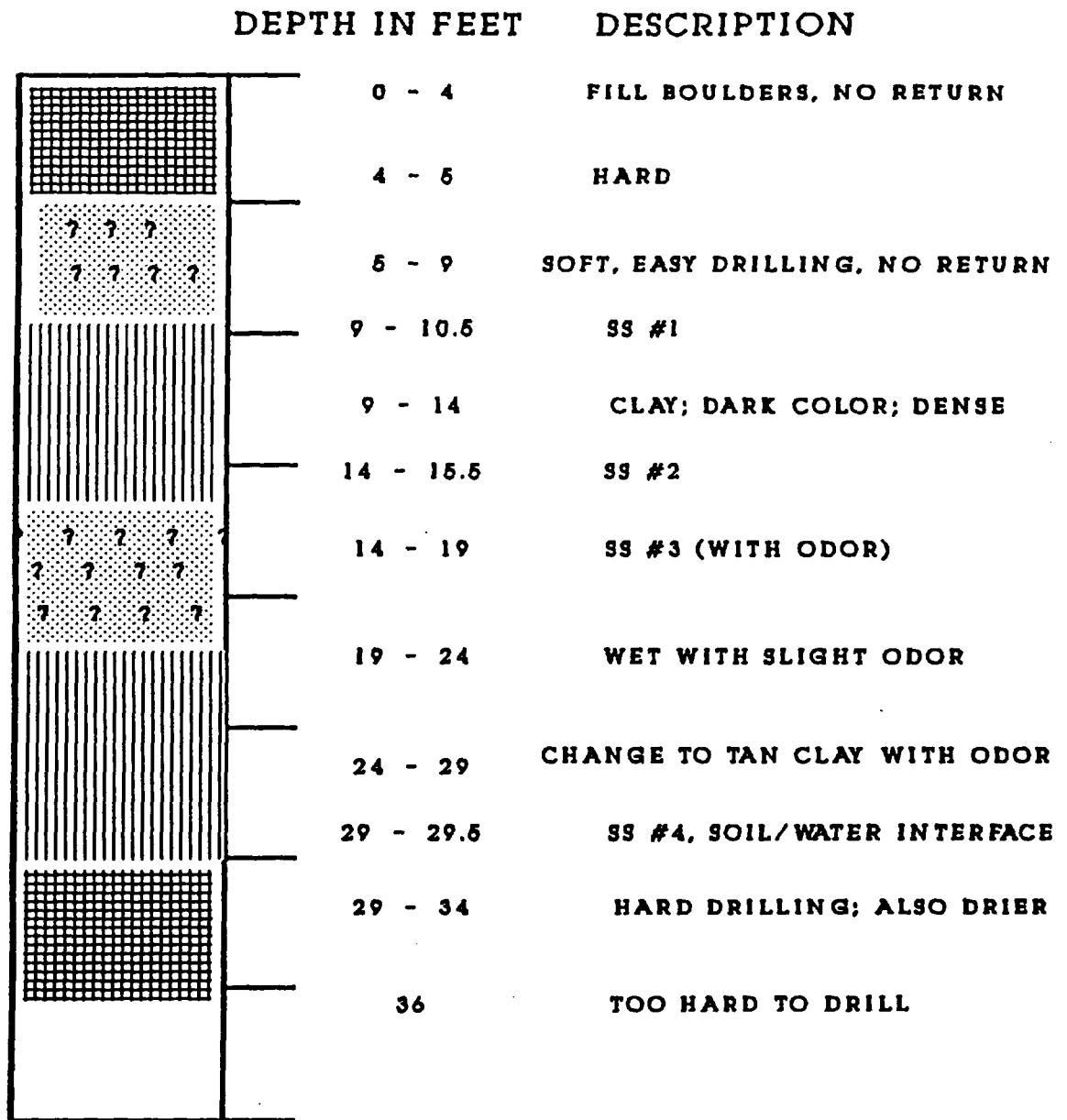
DATE INSTALLED: 2/24/92



NOTE:
ALS-ABOVE LAND SURFACE
BLS-BELOW LAND SURFACE
N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

WELL AND DRILLING LOG

MW - 2



LEGEND:



FILL



SOIL



CLAY



CLAY/
SAND/
GRAVEL



HARD
ROCK



UNKNOWN

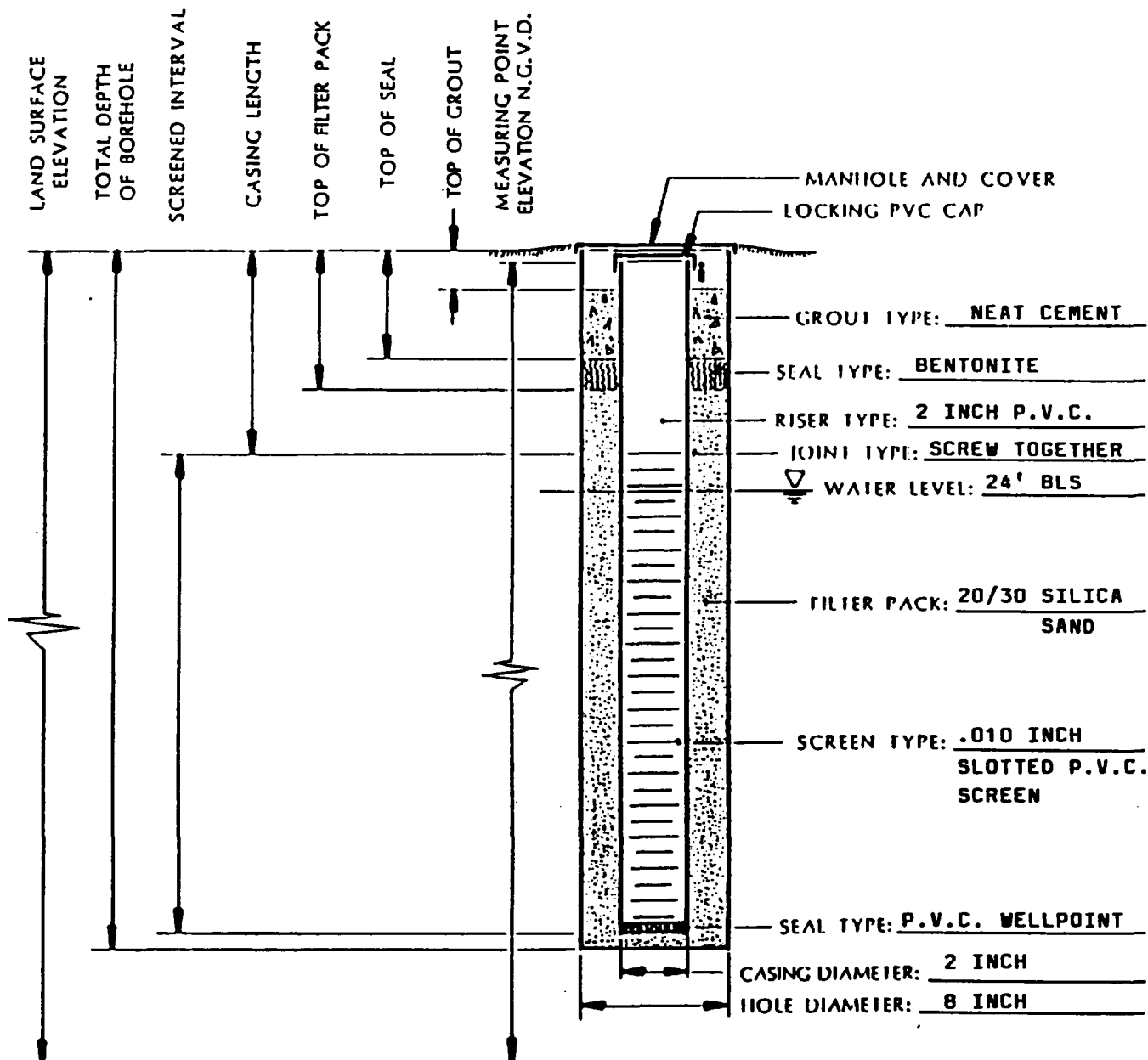
WELL CONSTRUCTION SUMMARY BELOW GROUND

--	35.3'	5'	30.3'	25'	22'	6"	--
----	-------	----	-------	-----	-----	----	----

PROJECT: FOUR WINDS

WELL NUMBER: MW-2

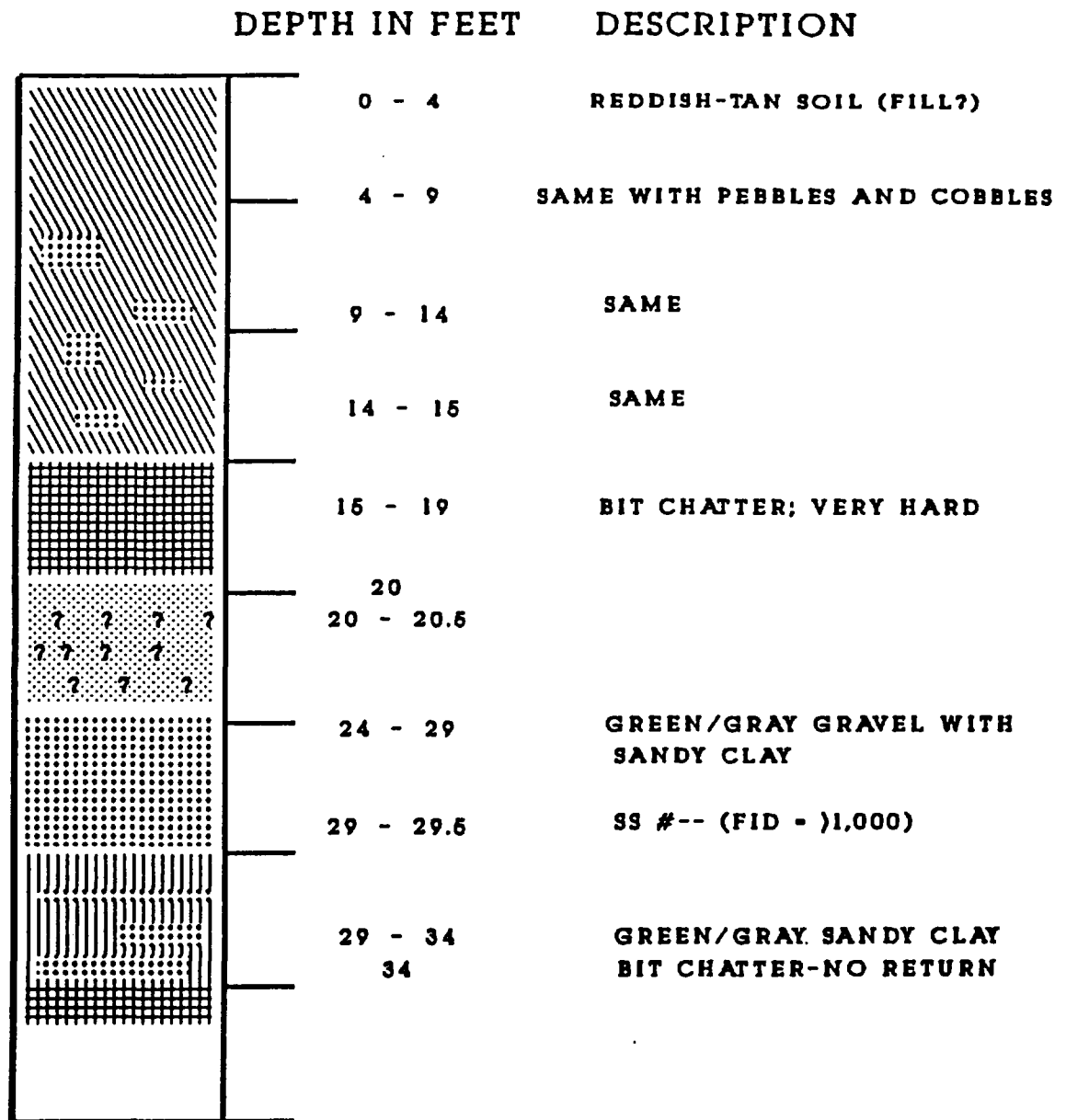
DATE INSTALLED: 2/22/92



NOTE:
ALS-ABOVE LAND SURFACE
BLS-BELOW LAND SURFACE
N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

WELL AND DRILLING LOG

MW - 3



LEGEND:



FILL



SOIL



CLAY



CLAY/
SAND/
GRAVEL



HARD
ROCK



UNKNOWN

LAND SURFACE ELEVATION	TOTAL DEPTH OF BOREHOLE	SCREENED INTERVAL	CASING LENGTH	TOP OF FILTER PACK	TOP OF SEAL	- TOP OF GROUT	MEASURING POINT ELEVATION N.C.V.D.
---------------------------	----------------------------	-------------------	---------------	--------------------	-------------	----------------	---------------------------------------

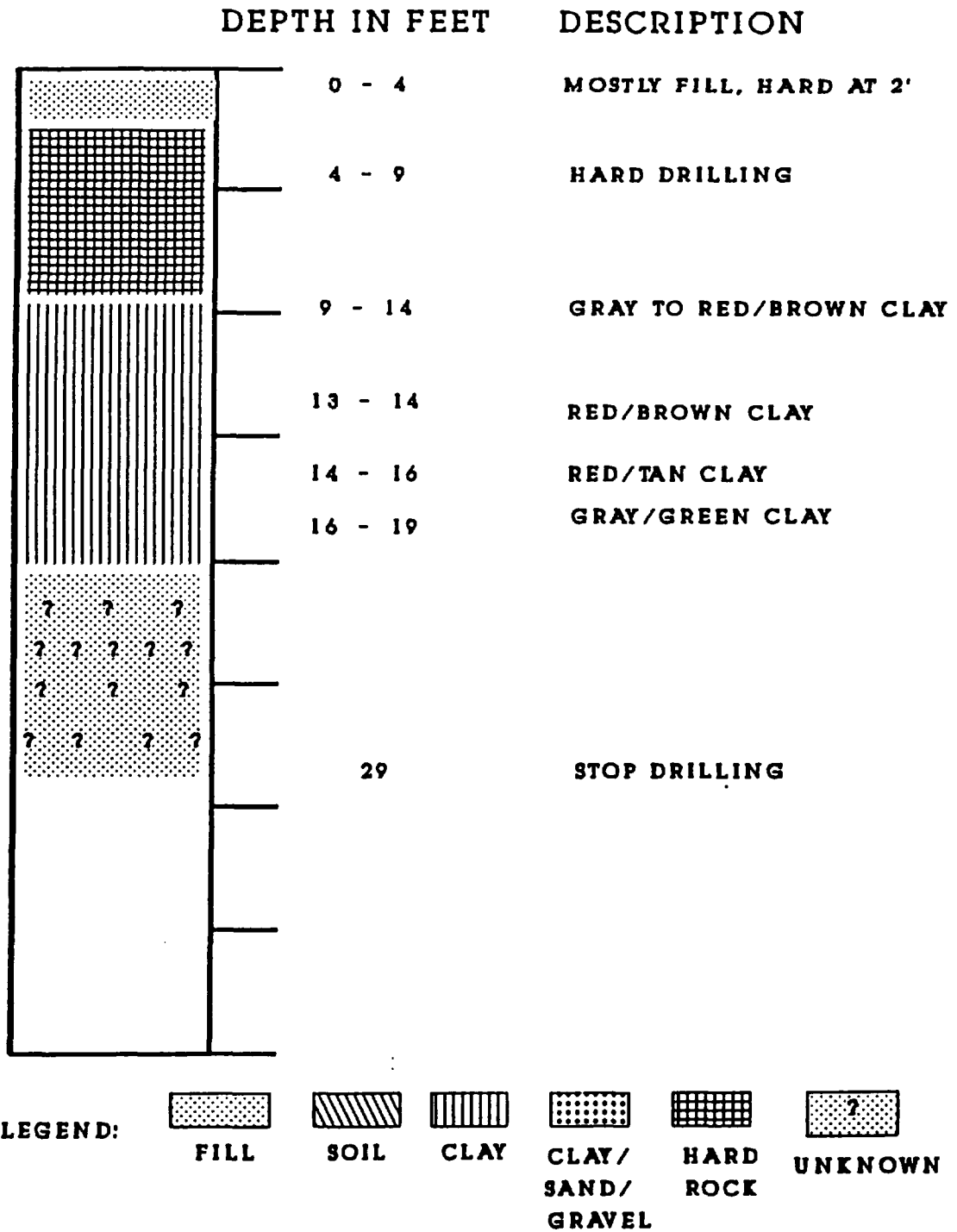
DATE INSTALLED: 2/23/92



N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

WELL AND DRILLING LOG

MW - 4



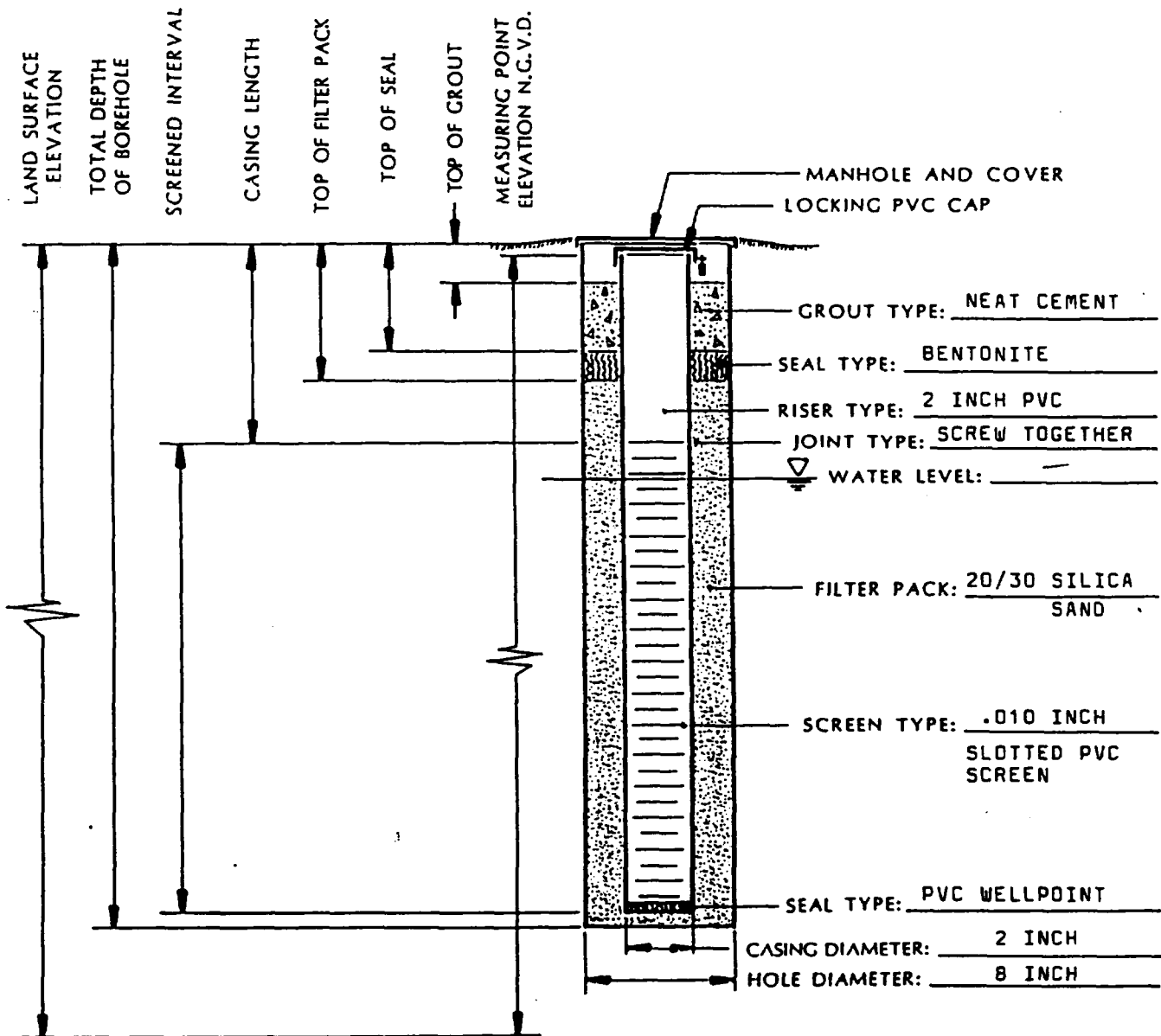
WELL CONSTRUCTION SUMMARY BELOW GROUND

-	29'	10'	19'	17'	14'	6"	--
---	-----	-----	-----	-----	-----	----	----

PROJECT: FOUR WINDS

WELL NUMBER: MW-4

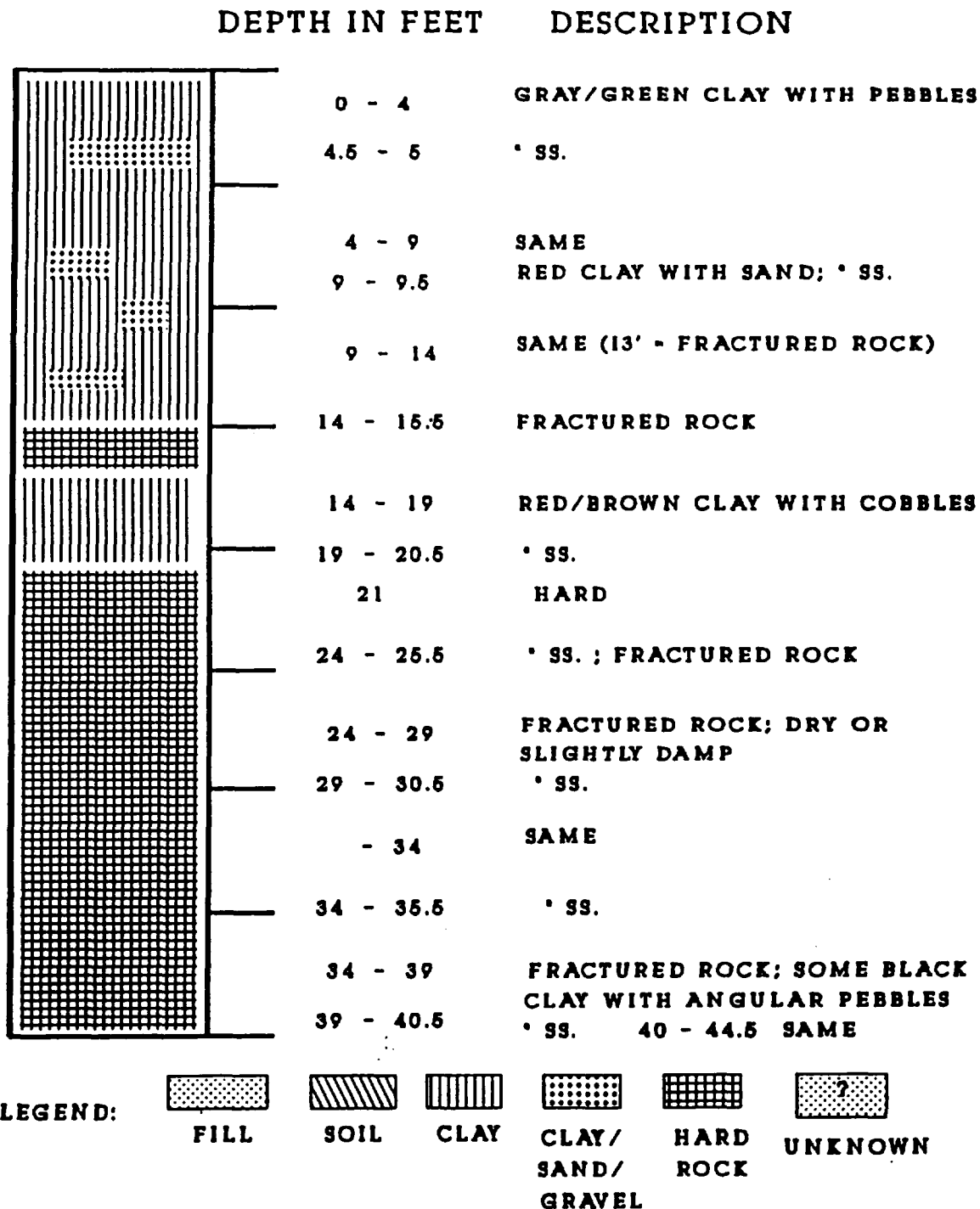
DATE INSTALLED: 2/24/92



NOTE:
ALS-ABOVE LAND SURFACE
BLS-BELOW LAND SURFACE
N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

WELL AND DRILLING LOG

MW - 5



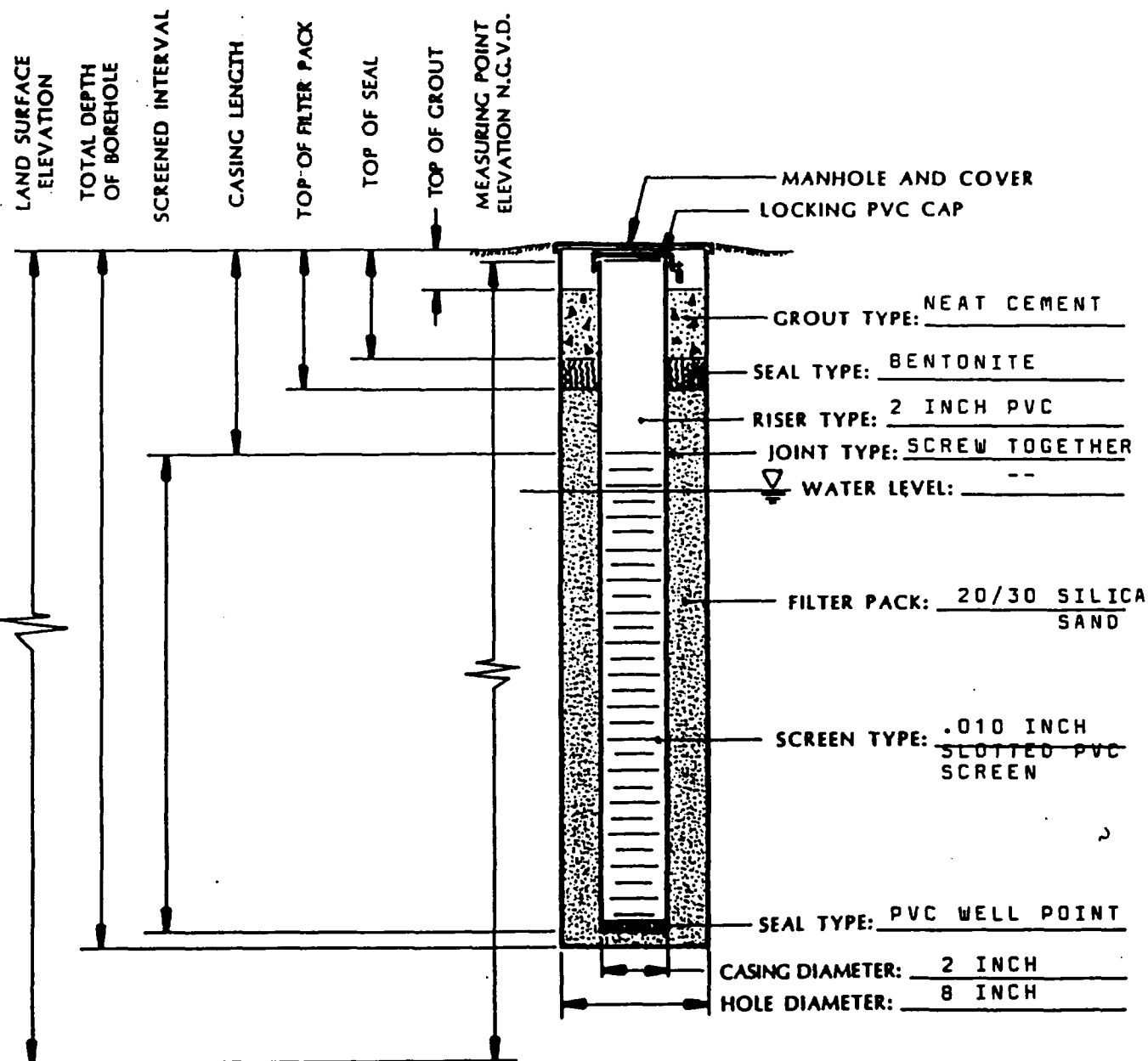
WELL CONSTRUCTION SUMMARY BELOW GROUND

-	48'	10'	38'	32'	30'	6'	-
---	-----	-----	-----	-----	-----	----	---

PROJECT: FOUR WINDS

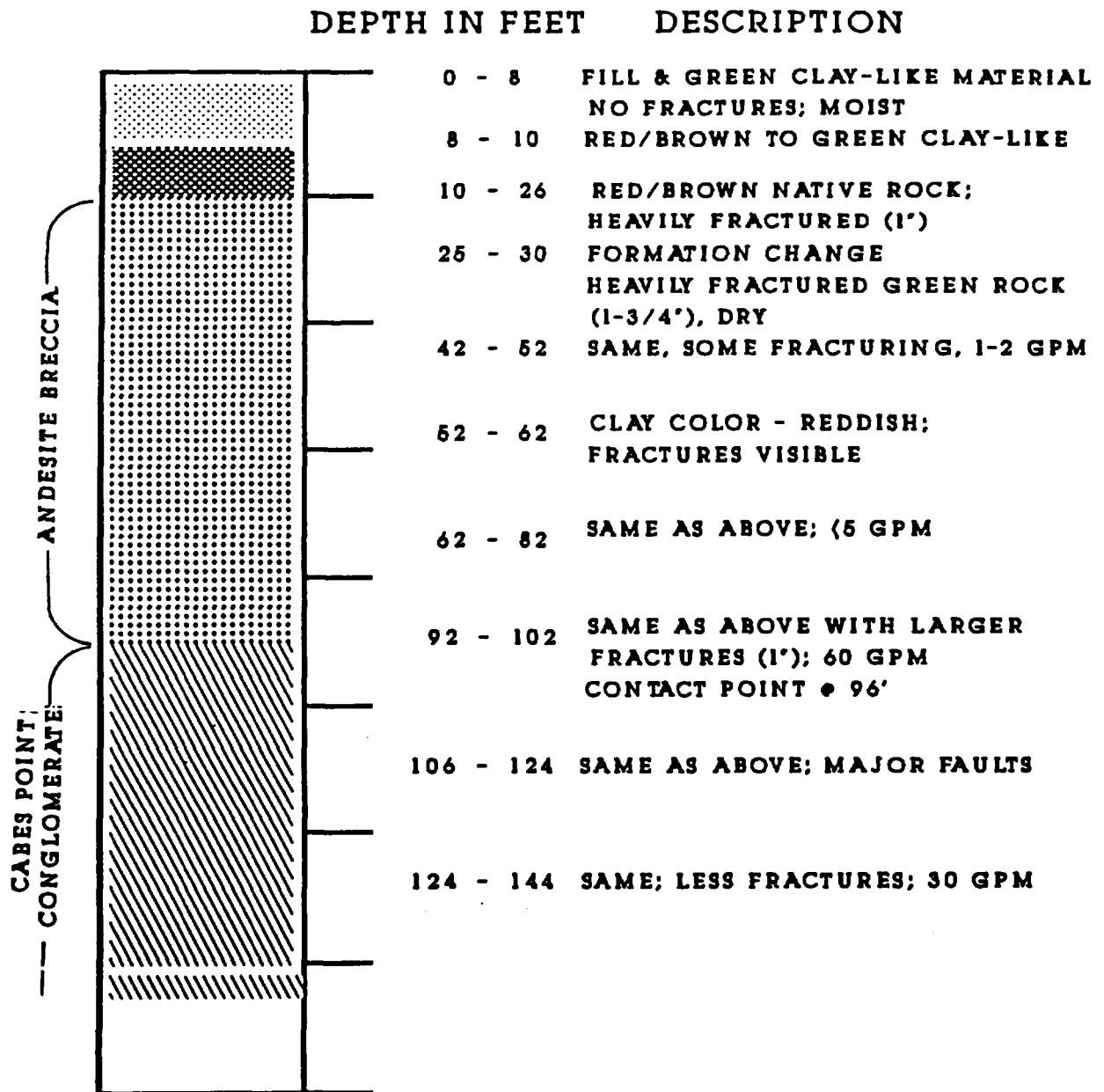
WELL NUMBER: (GASSETT) MW-5

DATE INSTALLED: 2/25/92



NOTE:
ALS-ABOVE LAND SURFACE
BLS-BELOW LAND SURFACE
N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

WELL AND DRILLING LOG DEEP TEST HOLE 1



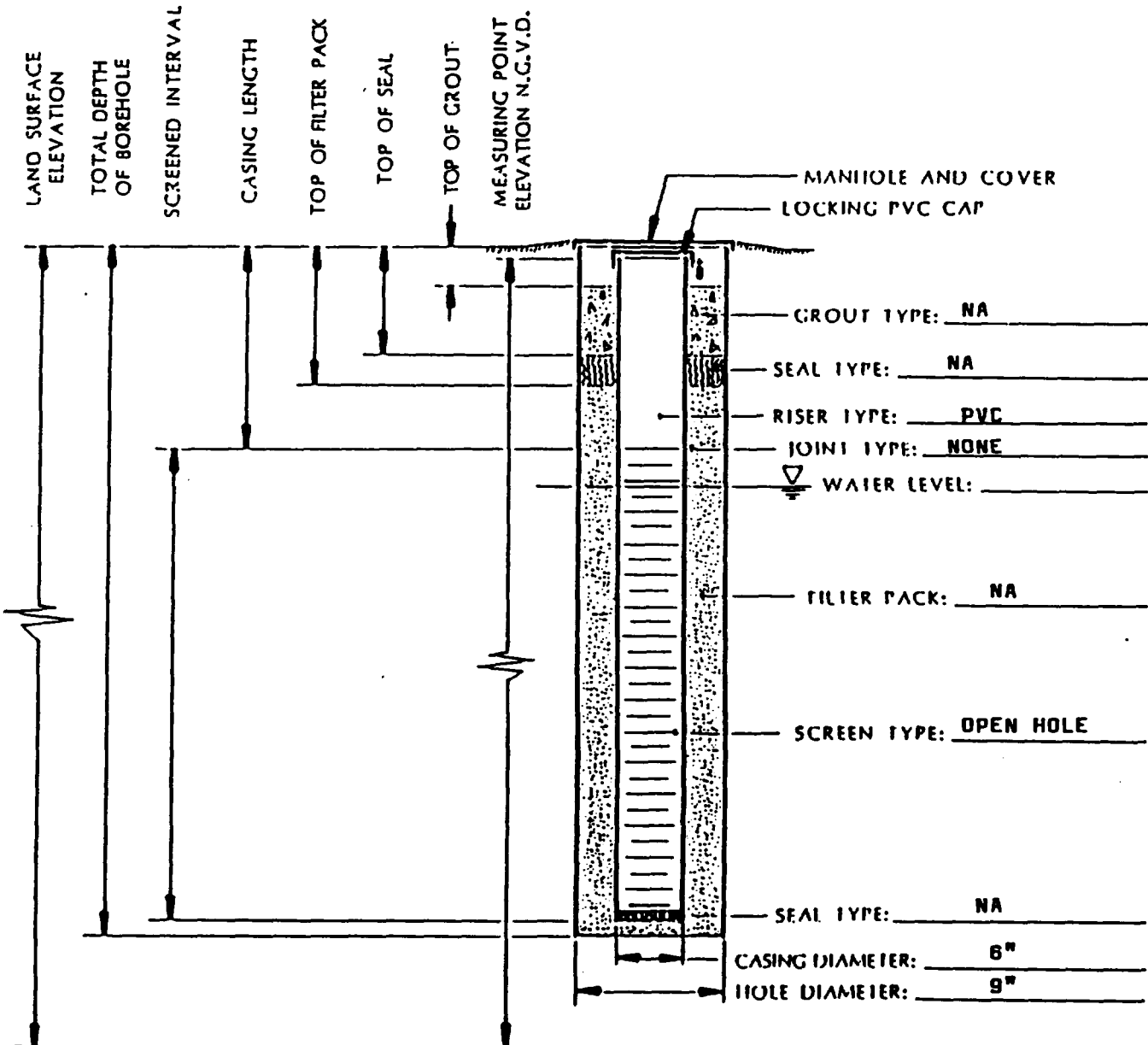
WELL CONSTRUCTION SUMMARY BELOW GROUND

	144'	Open hole	20'	NA	NA	NA	---
--	------	-----------	-----	----	----	----	-----

PROJECT: FOUR WINDS PLAZA

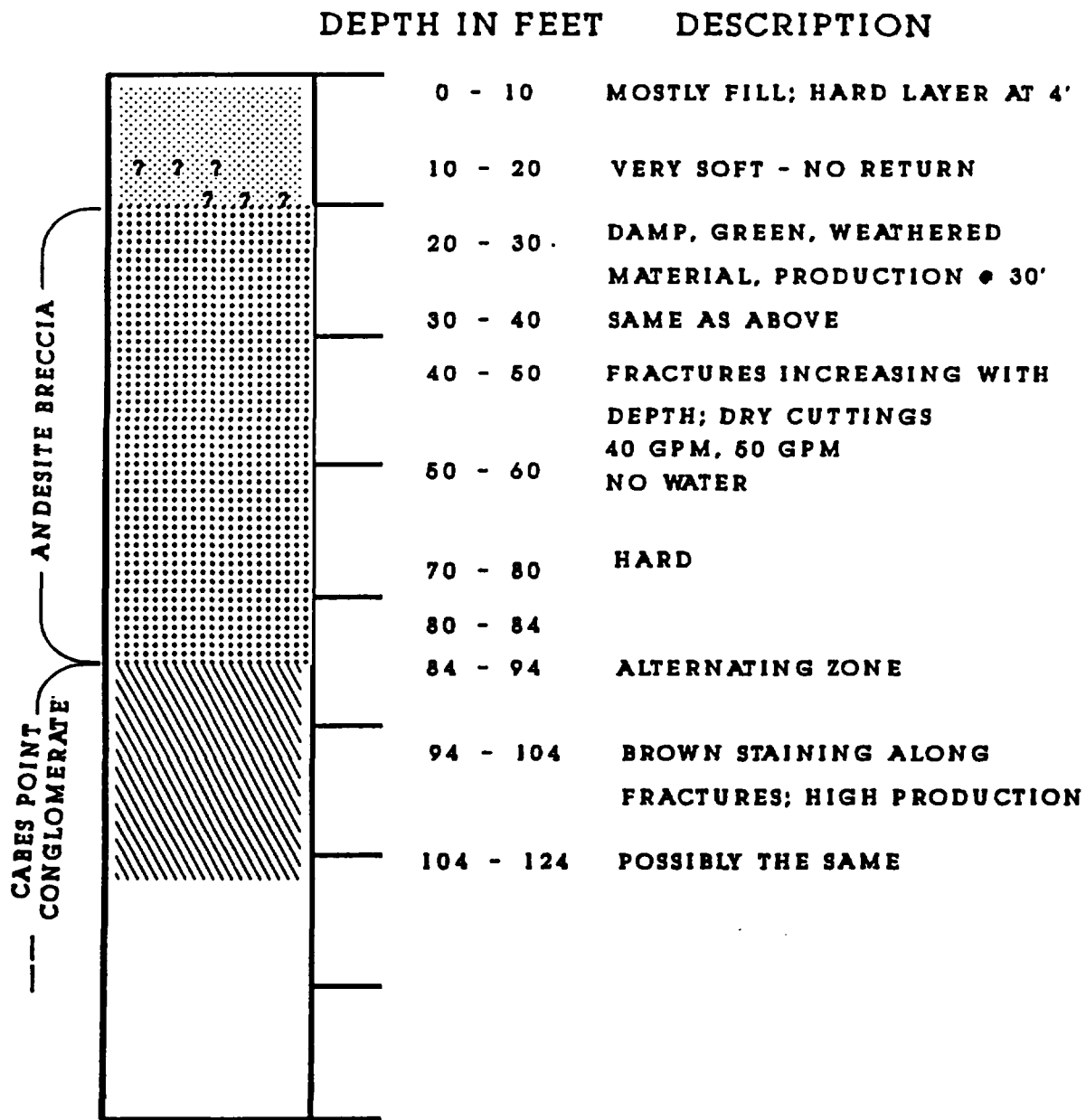
WELL NUMBER: DTW-1

DATE INSTALLED: MAY 1992



NOTE:
ALS-ABOVE LAND SURFACE
BLS-BELOW LAND SURFACE
N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

WELL AND DRILLING LOG DEEP TEST HOLE 2



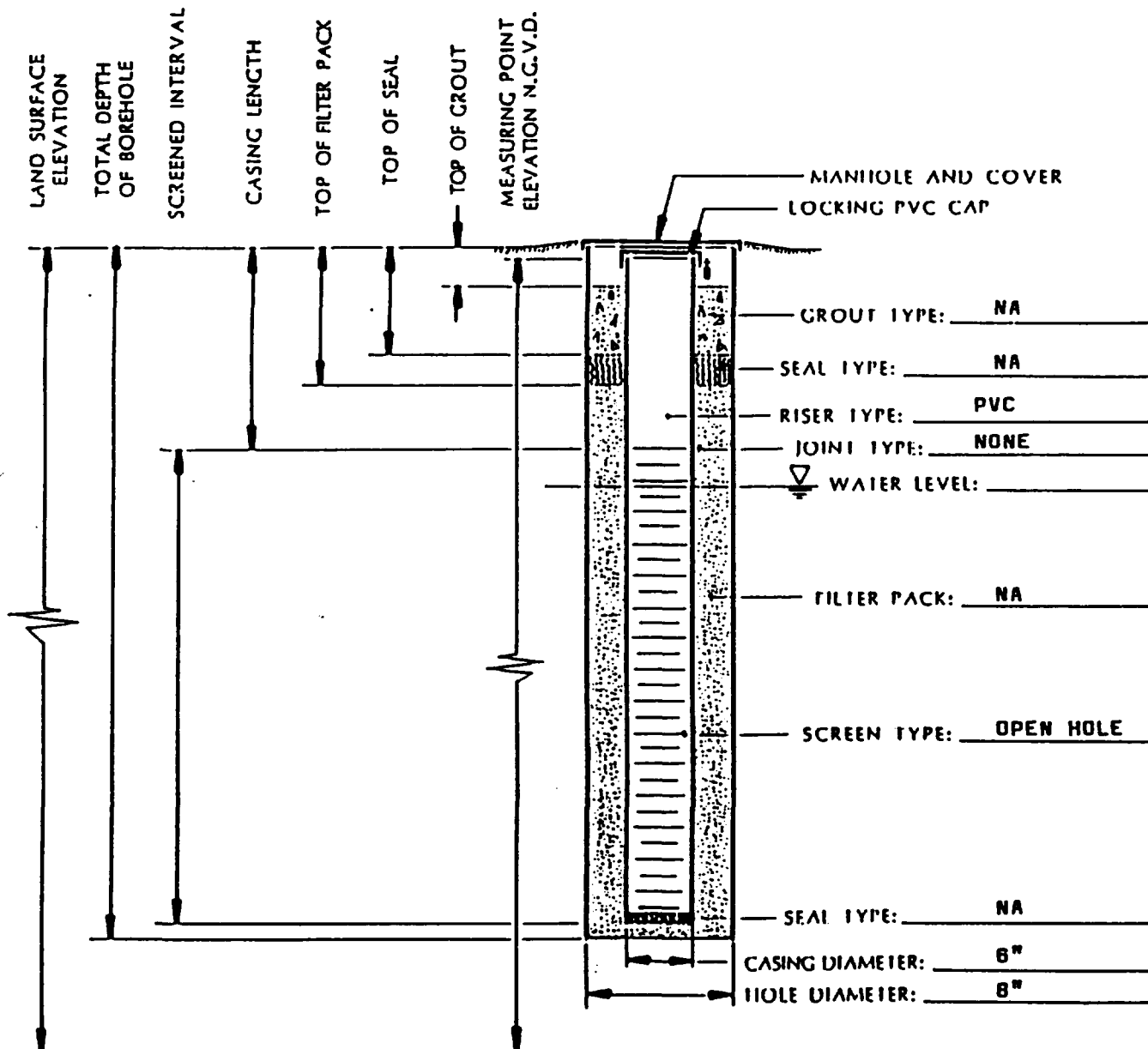
WELL CONSTRUCTION SUMMARY BELOW GROUND

	124'	OPEN HOLE	20'	NA	NA	NA	---
--	------	-----------	-----	----	----	----	-----

PROJECT: FOUR WINDS PLAZA

WELL NUMBER: DTW-2

DATE INSTALLED: MAY 1992



NOTE:
ALS-ABOVE LAND SURFACE
BLS-BELOW LAND SURFACE
N.G.V.D.-NATIONAL GEODETIC
VERTICAL DATUM

APPENDIX IX

**SUMMARY TABLES DETECTED CONTAMINANTS,
LABORATORY ANALYSIS SHEETS AND CHAIN OF CUSTODY RECORDS.**

WELL/SAMPLING NOMENCLATURE KEY

WELL NAME	ALTERNATE NAME(s)	SAMPLE DESIGNATION/DATE
<u>Supply Wells</u>		
Turnbull Well		TA-4W-PW1 11/14/91
Four Winds Well 1	FWPW #1	TA-TB-PW1 11/15/91
Four Winds Well 2	FWPW #2	Not Sampled
Four Winds Well 3	FWPW #3	Not Sampled
Tillet Well		Not Sampled
Harthman Wells:		
Wilfred		VI-1 2/26/92
Crusher		VI-2 "
Bakery		VI-3 "
Zero		VI-4 "
Racetrack		VI-5 "
Batiste		VI-6 2/27/92
<u>Monitoring Wells</u>		
MW-1	CHT-1	TT-1 2/27/92
MW-2	CHT-2	TT-6 2/29/92
MW-3	CHT-3	TT-3 2/27/92
MW-4	CHT-4	TT-2 "
MW-5	Gassett Motors MW-1	GAM-1 2/29/92
MW-WO	Waste Oil Well	TA-CR-MW-1 11/14/91
		TT-4 2/27/92
		Waste Oil 5/27/92
<u>Deep Test Wells</u>		
FWDTW #1	FWDT #1; CHT-7D	4WDT #1 12/16,17/92
FWDTW #2	FWDT #2; CHT-6D	4WDT #2 12/18/92

GROUND WATER QUALITY ASSESSMENT RESULTS

=====

SITE: VIRGIN ISLANDS PRODUCTION WELLS

PARAMETER	DETECTION LIMIT	2/26/92 WILFRED	2/26/92 CRUSHER	2/26/92 BAKERY	2/26/92 ZERO	2/26/92 RACE TRACK	2/26/92 BATISTE	11/14/91 FOUR WINDS	11/15/91 TURNBULL
EPA 601									
Cis/trans-1,2-dichloro- ethylene (ug/l)	1.0	<1	5.0	<1	<1	<1	<1	240	11
Tetrachloroethylene (ug/l)	1.0	<1	9.5	<1	<1	1.3	<1	84	26
Trichloroethene (ug/l)	1.0	<1	<1	<1	<1	<1	<1	32	4.7
EPA 602									
Methyl-tert-butyl ether (MTBE) (ug/l)	10	<10	<10	<10	<10	<10	<10	350	<10
EPA 624									
cis/trans-1,2-dichloro- ethylene (ug/l)	10	NA	NA	NA	NA	NA	NA	270	7.9
Tetrachloroethene (ug/l)	10	NA	NA	NA	NA	NA	NA	94	23
Trichloroethene (ug/l)	10	NA	NA	NA	NA	NA	NA	31	5.1

NA = Not Analyzed

COMPOSITE GROUND WATER QUALITY ASSESSMENT RESULTS

=====

SITE: FOUR WINDS PLAZA AND SURROUNDING MONITORING WELLS

SAMPLING EVENTS DATE: 2/27/92 - 2/29/92

PARAMETER	DETECTION LIMIT	M-1 CHT-1 (TT-1)	MW-4 CHT-4 (TT-2)	MW-3 CHT-3 (TT-3)	MW-2 CHT-2 (TT-6)	MW-5 (GASSETT MOTORS)

EPA 601						
Tetrachloroethylene (ug/l)	1.0	69	73	<1000	<50	<1
Trichloroethene (ug/l)	1.0	14	18	<1000	<50	<1
cis/trans-1,2-dichloroethylene (ug/l)	1.0	170	210	<1000	<50	<1
EPA 602						
Benzene (ug/l)	1.0	<1	<1	26000	NA	<1
Ethylbenzene (ug/l)	1.0	<1	<1	2400	NA	<1
Toluene (ug/l)	1.0	<1	<1	38000	NA	<1
Xylenes (ug/l)	1.0	<1	5.4	38000	NA	4700
Methyl-tert-butyl ether (MTBE) (ug/l)	10	55	<10	62000	NA	<1
EPA 624						
Benzene (ug/l)	5.0	NA	NA	NA	<50	NA
Ethylbenzene (ug/l)	50	NA	NA	NA	120	NA
Methylene Chloride (ug/l)	5.0	NA	NA	NA	<50	NA
Xylenes (ug/l)	10	NA	NA	NA	<50	NA
EPA 625						
Naphthalene (ug/l)	10	NA	NA	NA	65	NA
Phenol (ug/l)	50	NA	NA	NA	<10	NA

NA = Not Analyzed

Notes:

-
- (a) Results include only those detected.
See appendix for all lab results.

COMPOSITE GROUND WATER QUALITY ASSESSMENT RESULTS (a)

SITE: ESSO AND TEXACO STATIONS

SAMPLING EVENT DATE: 11/14/91

	DETECTION LIMIT	ESSO DRUM LIQUID	ESSO DRUM SLUDGE	TEXACO SOAKAGE PIT	WASTE OIL CONFIRM (TT-5)	MW-WO (TA-CR-MW-1)	MW-WO (TT-4)
EPA 601							
Tetrachloroethylene (ug/l)	1.0	<50	NA	<5	NA	<100	<25
Trichloroethene (ug/l)	1.0	<50	NA	<5	NA	<100	<25
Methylene Chloride (ug/l)	1.0	2900	NA	<5	NA	<100	<25
cis/trans-1,2-dichloroethylene	1.0	<50	NA	<5	NA	<100	<25
EPA 602							
Benzene (ug/l)	1.0	180	NA	<5	NA	730	<25
Ethylbenzene (ug/l)	1.0	97	NA	<5	NA	<100	<25
Toluene (ug/l)	1.0	220	NA	6.1	NA	<100	<25
Xylenes (ug/l)	1.0	190	NA	10	NA	<100	<25
Methyl-tert-butyl ether (MTBE) (ug/l)	10	2800	NA	350	NA	27000	7700
EPA 624							
Benzene	5.0	<500	NA	<5	NA	540	NA
Ethylbenzene (ug/l)	50	<500	NA	5.6	NA	<500	NA
Methylene Chloride (ug/l)	5.0	2600	NA	<5	NA	<500	NA
Xylenes (ug/l)	10	930	NA	27	NA	<500	NA
EPA 625							
Naphthalene (ug/l)	10	NA	NA	<4000	NA	<10	NA
Phenol (ug/l)	50	NA	NA	<4000	NA	54	NA
TCLP Extract							
Volatiles							
Benzene (mg/l)	<0.020	0.5	0.052	NA	NA	NA	NA
Semivolatiles							
Cresol o,m,p (mg/l)	<0.020	200	6.4	NA	NA	NA	NA
Metals							
Barium (mg/l)	0.050	100	0.27	NA	NA	NA	NA
Lead (mg/l)	0.10	5.0	14.0	NA	NA	NA	NA
Hydrocarbons (Modified 8100)							
Hydrocarbons as Heavy Oils (mg/kg)		NA	NA	NA	100000	NA	NA
Petroleum Hydrocarbons (mg/l)	1.0	460	NA	49	NA	3.3	NA
Oil & Grease (mg/l)	1.0	700	NA	53	NA	6.2	NA

NA = Not Analyzed

Notes:

- (a) Results include only those detected.
See appendix for all lab results.

COMPOSITE SOIL LABORATORY ANALYSIS SUMMARY

=====

SITE: FOUR WINDS PLAZA AREA - MONITORING WELLS

SAMPLING EVENT DATE: 2/23/92

PARAMETER	DETECTION LIMIT	CRITERIA LEVEL-EPA	MW-2 9ft	MW-2 10ft	MW-2 14ft	MW-2 29ft	MW-3 29ft
EPA VOLATILES (8010/8020)							
Ethylbenzene (ug/kg dw)	5.0	100	NA	<5.0	NA	NA	7.6
Xylenes (ug/kg dw)	5.0	100	NA	<5.0	NA	NA	9.0
Methyl-tert-butyl ether (MTBE) (ug/kg dw)	5.0	100	NA	190	NA	NA	<50
Oil & Grease (mg/l)	1.0	250	630	NA	240	<5.0	NA

Notes:

"<" below the method detection limit given

"NA" not analyzed

HYDROLOGIC ASSOCIATES

WELL SAMPLE RECORD

Project No. HA-91-192Date 11/4/91; 2/26/92Checked by [Signature]Project TUTUSampled by L.J.S.Date Checked 3/3/92

WELL I.D.	WILFRED	CRUSHER	BAKERY	ZERO	RACETRACK	BATISTE			
WELL TYPE AND DIAMETER	6" STEEL	6" STEEL	OPEN HOLE	PVC 6"	6" STEEL	6" STEEL			
TOTAL WELL DEPTH (FEET BMP)	100'	110'	>125'	>125'	?	?			
DEPTH TO WATER (FEET BMP)	20.36'	28.59'	19.50'	23.64'	?	17.70'			
WATER VOLUME IN WELL (GALLON)	120	120	UNK.	UNK.	?	?			
PURGE METHOD	X	X	X	X	X ₁	X ₁			
DURATION OF PURGING (MINUTE)	20	20	20	20	60	8*			
VOLUME PURGED (GALLON)	200	200	200	200	1200-E	?			
PURGE RATE (GMP)	10	10	10	10	20-E	15-E			
TIME OF SAMPLE COLLECTION	12:09	2:45	3:40	4:48	5:10	8:07			
DATE OF SAMPLE COLLECTION	2/26/92	2/26/92	2/26/92	2/26/92	2/26/92	2/27/92			
METHOD OF SAMPLE COLLECTION	FROM PUMP HOSE	FROM PUMP HOSE	FROM PUMP HOSE	FROM PUMP HOSE	FROM PUMP HOSE	FROM PUMP OUTLET			
SAMPLE TEMP. (°C)	28.7	27.9	28.2	27.3	27.5	27.3			
SAMPLE pH	7.12	7.17	7.29	7.24	7.23	6.80			
SAMPLE CONDUCTIVITY UMHS/CM	1.60	1.94	1.87	1.80	1.58	1.87			

COMMENTS

ODOR, COLOR, ETC.

X = SUBMERSIBLE

X₁ = EXISTING SUBMERSIBLE

E = ESTIMATED

* = PUMP CONTROLER BURNT UP

PURGE AND COLLECTION METHODS:

C = CENTRIFUGAL PUMP
P = PERISTALTIC PUMP
X = OTHER

TB = TEFLON BAILER
PB = PVC BAILER

HYDROLOGIC ASSOCIATES

WELL SAMPLE RECORD

Project No HA-91-197 Date 2-27/29-92 Checked by Buall
 Project TUTU Sampled by L.J.S. Date Checked 3/3/92

WELL I.D.	MW-1	MW-4	MW-3	MW-2	GASSETT MW-1	MW-WO	CONFIRM WO		
WELL TYPE AND DIAMETER	PVC 2"	PVC 2"	PVC 2"	PVC 2"	PVC 2"	PVC 4"	PVC 4"		
TOTAL WELL DEPTH (FEET BMP)	28.5'	29'	35.5'	35.3'	48'		N.A.		
DEPTH TO WATER (FEET BMP)	15.07	12.09	18.11	17.70	11.95	N.S.	N.S.		
WATER VOLUME IN WELL (GALLON)	*	*	*	*	*	N.A.	N.A.		
PURGE METHOD	TB	TB	TB	TB	TB	N.A.	N.A.		
DURATION OF PURGING (MINUTE)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		
VOLUME PURGED (GALLON)	1CV	1CV	1CV	1CV	1CV	N.A.	N.A.		
PURGE RATE (GMP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		
TIME OF SAMPLE COLLECTION	9:00	9:15	9:34	7:45	9:15	9:50	5:10		
DATE OF SAMPLE COLLECTION	2/27/92	2/27/92	2/27/92	2/29/92	2/29/92	2/27/92	2/27/92		
METHOD OF SAMPLE COLLECTION	TB	TB	TB	TB	TB	TB	TB DIP		
SAMPLE TEMP. (°C)	31.6	29.6	N.S.	N.S.	29.8	N.S.	N.S.		
SAMPLE pH	7.12	7.26	N.S.	N.S.	7.46	N.S.	N.S.		
SAMPLE CONDUCTIVITY UMHOS/CM	1.47	1.44	N.S.	N.S.	2.60	N.S.	N.S.		

COMMENTS

ODOR, COLOR, ETC.

*LOW YIELD WELLS: BAILED ONE CASING VOLUME, AND SAMPLED AFTER RECOVERY (APPROXIMATELY 24 HRS)

PURGE AND COLLECTION METHODS:

C = CENTRIFUGAL PUMP
 P = PERISTALTIC PUMP
 N.A. = NOT APPLICABLE
 N.S. = NOT SAMPLED
 1CV = ONE CASING VOLUME
 TB = TEFLON BAILER
 PB = PVC BAILER
 X = OTHER

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES

12736-1 TA-ESSO-DR
12736-2 TA-CR-MW1
12736-3 TA-TX-SP
12736-4 TA-4W-PW1
12736-5 TA-TB-PW1

PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
Purgeables					
Benzene, ug/l	<500	540	<5.0	<10	<5.0
Bromodichloromethane, ug/l	<500	<500	<5.0	<10	<5.0
Bromoform, ug/l	<500	<500	<5.0	<10	<5.0
Bromomethane, ug/l	<1000	<1000	<10	<20	<10
Carbon tetrachloride, ug/l	<500	<500	<5.0	<10	<5.0
Chlorobenzene, ug/l	<500	<500	<5.0	<10	<5.0
Chloroethane, ug/l	<1000	<1000	<10	<20	<10
2-Chloroethylvinyl ether, ug/l	<1000	<1000	<10	<20	<10
Chloroform, ug/l	<500	<500	<5.0	<10	<5.0
Chloromethane, ug/l	<1000	<1000	<10	<20	<10
Dibromochloromethane, ug/l	<500	<500	<5.0	<10	<5.0
1,2-Dichlorobenzene, ug/l	<500	<500	8.7	<10	<5.0
1,3-Dichlorobenzene, ug/l	<500	<500	<5.0	<10	<5.0
1,4-Dichlorobenzene, ug/l	<500	<500	<5.0	<10	<5.0
1,1-Dichloroethane, ug/l	<500	<500	<5.0	<10	<5.0
1,2-Dichloroethane, ug/l	<500	<500	<5.0	<10	<5.0
1,1-Dichloroethene, ug/l	<500	<500	<5.0	<10	<5.0
cis/trans-1,2-Dichloroethyl ene, ug/l	<500	<500	<5.0	270	7.9
1,2-Dichloropropane, ug/l	<500	<500	<5.0	<10	<5.0
cis-1,3-Dichloropropene, ug/l	<500	<500	<5.0	<10	<5.0

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

4 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				
12736-1	TA-ESSO-DR				
12736-2	TA-CR-MW1				
12736-3	TA-TX-SP				
12736-4	TA-4W-PW1				
12736-5	TA-TB-PW1				
PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
trans-1,3-Dichloropropene, ug/l	<500	<500	<5.0	<10	<5.0
Ethylbenzene, ug/l	<500	<500	5.6	<10	<5.0
tethylene chloride, ug/l	2600	<500	<5.0	<10	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<500	<500	<5.0	<10	<5.0
Tetrachloroethene, ug/l	<500	<500	<5.0	94	23
Toluene, ug/l	<500	<500	<5.0	<10	<5.0
1,1,1-Trichloroethane, ug/l	<500	<500	<5.0	<10	<5.0
1,1,2-Trichloroethane, ug/l	<500	<500	<5.0	<10	<5.0
Trichloroethene, ug/l	<500	<500	<5.0	31	5.1
Trichlorofluoromethane, ug/l	<500	<500	<5.0	<10	<5.0
Vinyl Chloride, ug/l	<1000	<1000	<10	<20	<10
Xylenes, ug/l	930	<500	27	<10	<5.0
Date Analyzed	11.20.91	11.20.91	11.21.91	11.21.91	11.21.91
Method Number	EPA 624	EPA 624	EPA 624	EPA 624	EPA 624
Dilution factor	100	100	1	2	1

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				
12736-1	TA-ESSO-DR				
12736-2	TA-CR-MW1				
12736-3	TA-TX-SP				
12736-4	TA-4W-PW1				
12736-5	TA-TB-PW1				
PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
Purgeables					
Bromodichloromethane, ug/l	<50	<100	<5.0	<10	<1.0
Bromoform, ug/l	<250	<500	<25	<50	<5.0
Bromomethane, ug/l	<50	<100	<5.0	<10	<1.0
Carbon Tetrachloride, ug/l	<50	<100	<5.0	<10	<1.0
Chlorobenzene, ug/l	<50	<100	<5.0	<10	<1.0
Chloroethane, ug/l	<50	<100	<5.0	<10	<1.0
2-Chloroethylvinyl Ether, ug/l	<500	<1000	<50	<100	<10
Chloroform, ug/l	<50	<100	<5.0	<10	<1.0
Chloromethane, ug/l	<50	<100	<5.0	<10	<1.0
Dibromochloromethane, ug/l	<50	<100	<5.0	<10	<1.0
1,2-Dichlorobenzene, ug/l	<50	<100	<5.0	<10	<1.0
1,3-Dichlorobenzene, ug/l	<50	<100	<5.0	<10	<1.0
1,4-Dichlorobenzene, ug/l	<50	<100	<5.0	<10	<1.0
Dichlorodifluoromethane, ug/l	<500	<1000	<50	<100	<10
1,1-Dichloroethane, ug/l	<50	<100	<5.0	<10	<1.0
1,2-Dichloroethane, ug/l	<50	<100	<5.0	<10	<1.0
1,1-Dichloroethene, ug/l	<50	<100	<5.0	<10	<1.0
Cis/trans-1,2-dichloroethyl ene, ug/l	<50	<100	<5.0	240	11
1,2-Dichloropropane, ug/l	<50	<100	<5.0	<10	<1.0
Cis-1,3-Dichloropropene, ug/l	<50	<100	<5.0	<10	<1.0

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 4

LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES

12736-1 TA-ESSO-DR
12736-2 TA-CR-MW1
12736-3 TA-TX-SP
12736-4 TA-4W-PW1
12736-5 TA-TB-PW1

PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
Trans-1,3-Dichloropropene, ug/l	<50	<100	<5.0	<10	<1.0
Methylene Chloride, ug/l	2900	<100	<5.0	<10	<1.0
1,1,2,2-Tetrachloroethane, ug/l	<50	<100	<5.0	<10	<1.0
Tetrachloroethylene, ug/l	<50	<100	<5.0	84	26
1,1,1-Trichloroethane, ug/l	<50	<100	<5.0	<10	<1.0
1,1,2-Trichloroethane, ug/l	<50	<100	<5.0	<10	<1.0
Trichloroethene, ug/l	<50	<100	<5.0	32	4.7
Trichlorofluoromethane, ug/l	<50	<100	<5.0	<10	<1.0
Vinyl Chloride, ug/l	<50	<100	<5.0	<10	<1.0
Benzene, ug/l	180	730	<5.0	<10	<1.0
Ethylbenzene, ug/l	97	<100	<5.0	<10	<1.0
Toluene, ug/l	220	<100	6.1	<10	<1.0
Xylenes, ug/l	190	<100	10	<10	<1.0
Methyl-tert-butyl ether (MTBE), ug/l	2800	27000	<50	350	<10
Date Analyzed	11.21.91	11.21.91	11.21.91	11.21.91	11.22.91
Dilution factor	50/100	100	5	10/1	1/5
Method Number	601/602	601/602	601/602	601/602	601/602

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 5

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				
12736-1	TA-ESSO-DR				
12736-2	TA-CR-MW1				
12736-3	TA-TX-SP				
12736-4	TA-4W-PW1				
12736-5	TA-TB-PW1				
PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
BN-A Extractables (625)					
Acenaphthene, ug/l	NS	<10	<4000	<10	<10
Acenaphthylene, ug/l	NS	<10	<4000	<10	<10
Anthracene, ug/l	NS	<10	<4000	<10	<10
Aldrin, ug/l	NS	<50	<200000	<50	<50
Benzo(a)Anthracene, ug/l	NS	<10	<4000	<10	<10
Benzo(b)fluoranthene, ug/l	NS	<10	<4000	<10	<10
Benzo (k) Fluoranthene, ug/l	NS	<10	<4000	<10	<10
Benzo(a)pyrene, ug/l	NS	<10	<4000	<10	<10
Benzo(g,h,i)perylene, ug/l	NS	<10	<4000	<10	<10
Benzyl butyl phthalate, ug/l	NS	<10	<4000	<10	<10
beta-BHC, ug/l	NS	<50	<200000	<50	<50
delta-BHC, ug/l	NS	<50	<200000	<50	<50
bis(2-Chloroethyl) ether, ug/l	NS	<10	<4000	<10	<10
bis(2-Chloroethoxy) methane, ug/l	NS	<10	<4000	<10	<10
bis(2-Ethylhexyl) phthalate, ug/l	NS	<10	<4000	<10	<10
bis(2-chloroisopropyl)ether, ug/l	NS	<10	<4000	<10	<10
4-Bromophenyl-phenyl-ether, ug/l	NS	<10	<4000	<10	<10
Chlordane, ug/l	NS	<50	<200000	<50	<50
2-Chloronaphthalene, ug/l	NS	<10	<4000	<10	<10
4-Chlorophenyl-phenyl ether, ug/l	NS	<10	<4000	<10	<10
Chrysene, ug/l	NS	<10	<4000	<10	<10

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES					
12736-1	TA-ESSO-DR					
12736-2	TA-CR-MW1					
12736-3	TA-TX-SP					
12736-4	TA-4W-PW1					
12736-5	TA-TB-PW1					
PARAMETER		12736-1	12736-2	12736-3	12736-4	12736-5
4,4'-DDD, ug/l		NS	<10	<4000	<10	<10
4,4'-DDE, ug/l		NS	<10	<4000	<10	<10
4,4'-DDT, ug/l		NS	<10	<4000	<10	<10
Dibenzo (a,h)anthracene, ug/l		NS	<10	<4000	<10	<10
Di-n-butylphthalate, ug/l		NS	<10	<4000	<10	<10
1,3-Dichlorobenzene, ug/l		NS	<10	<4000	<10	<10
1,2-Dichlorobenzene, ug/l		NS	<10	<4000	<10	<10
1,4-Dichlorobenzene, ug/l		NS	<10	<4000	<10	<10
3,3'-Dichlorobenzidine, ug/l		NS	<20	<8000	<20	<20
Dieldrin, ug/l		NS	<50	<200000	<50	<50
Diethyl Phthalate, ug/l		NS	<10	<4000	<10	<10
Dimethyl phthalate, ug/l		NS	<10	<4000	<10	<10
2,4-Dinitrotoluene, ug/l		NS	<10	<4000	<10	<10
2,6-Dinitrotoluene, ug/l		NS	<10	<4000	<10	<10
Di-n-octylphthalate, ug/l		NS	<10	<4000	<10	<10
Endosulfan sulfate, ug/l		NS	<100	<400000	<100	<100
Endrin Aldehyde, ug/l		NS	<50	<200000	<50	<50
Fluoranthene, ug/l		NS	<10	<4000	<10	<10
Fluorene, ug/l		NS	<10	<4000	<10	<10
Heptachlor, ug/l		NS	<50	<200000	<50	<50
Heptachlor epoxide, ug/l		NS	<50	<200000	<50	<50
Hexachlorobenzene, ug/l		NS	<10	<4000	<10	<10

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 7

LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES

12736-1 TA-ESSO-DR
12736-2 TA-CR-MW1
12736-3 TA-TX-SP
12736-4 TA-4W-PW1
12736-5 TA-TB-PW1

PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
Hexachlorobutadiene, ug/l	NS	<10	<4000	<10	<10
Hexachloroethane, ug/l	NS	<10	<4000	<10	<10
Indeno (1,2,3-cd)pyrene, ug/l	NS	<10	<4000	<10	<10
Isophorone, ug/l	NS	<10	<4000	<10	<10
Naphthalene, ug/l	NS	<10	<4000	<10	<10
Nitrobenzene, ug/l	NS	<10	<4000	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	NS	<10	<4000	<10	<10
Aroclor-1016, ug/l	NS	<500	<2000000	<500	<500
Aroclor-1221, ug/l	NS	<500	<2000000	<500	<500
Aroclor-1232, ug/l	NS	<500	<2000000	<500	<500
Aroclor-1242, ug/l	NS	<500	<2000000	<500	<500
Aroclor-1248, ug/l	NS	<500	<2000000	<500	<500
Aroclor-1254, ug/l	NS	<500	<2000000	<500	<500
Aroclor-1260, ug/l	NS	<500	<2000000	<500	<500
Phenanthrene, ug/l	NS	<10	<4000	<10	<10
Pyrene, ug/l	NS	<10	<4000	<10	<10
Toxaphene, ug/l	NS	<1000	<4000000	<1000	<1000
1,2,4-Trichlorobenzene, ug/l	NS	<10	<4000	<10	<10
4-Chloro-3-methylphenol, ug/l	NS	<10	<4000	<10	<10
2-Chlorophenol, ug/l	NS	<10	<4000	<10	<10
2,4-Dichlorophenol, ug/l	NS	<10	<4000	<10	<10
2,4-Dimethylphenol, ug/l	NS	<10	<4000	<10	<10

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				
12736-1	TA-ESSO-DR				
12736-2	TA-CR-MW1				
12736-3	TA-TX-SP				
12736-4	TA-4W-PW1				
12736-5	TA-TB-PW1				
PARAMETER	12736-1	12736-2	12736-3	12736-4	12736-5
2,4-Dinitrophenol, ug/l	NS	<50	<200000	<50	<50
2-Methyl-4,6-dinitrophenol, ug/l	NS	<50	<200000	<50	<50
2-Nitrophenol, ug/l	NS	<10	<4000	<10	<10
4-Nitrophenol, ug/l	NS	<50	<200000	<50	<50
Pentachlorophenol, ug/l	NS	<50	<200000	<50	<50
Phenol, ug/l	NS	54	<4000	<10	<10
2,4,6-Trichlorophenol, ug/l	NS	<10	<4000	<10	<10
Date Extracted	---	11.19.91	11.19.91	11.19.91	11.19.91
Date Analyzed	---	11.22.91	11.22.91	11.22.91	11.22.91
Method Number	---	EPA 625	EPA 625	EPA 625	EPA 625
Dilution factor	---	1	400	1	1
Oil & Grease , mg/l	700	6.2	53	<1.0	<1.0
Petroleum Hydrocarbons , mg/l	460	3.3	49	<1.0	<1.0

SL SAVANNAH LABORATORIES

& ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 9

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
Purgeables			
Benzene, ug/l	<5.0	107 %	7.5 %
Bromodichloromethane, ug/l	<5.0	---	---
Bromoform, ug/l	<5.0	---	---
Bromomethane, ug/l	<10	---	---
Carbon tetrachloride, ug/l	<5.0	---	---
Chlorobenzene, ug/l	<5.0	107 %	7.5 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl ether, ug/l	<10	---	---
Chloroform, ug/l	<5.0	---	---
Chloromethane, ug/l	<10	---	---
Dibromochloromethane, ug/l	<5.0	---	---
1,2-Dichlorobenzene, ug/l	<5.0	---	---
1,3-Dichlorobenzene, ug/l	<5.0	---	---
1,4-Dichlorobenzene, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloroethane, ug/l	<5.0	---	---
1,1-Dichloroethene, ug/l	<5.0	89 %	4.5 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
cis-1,3-Dichloropropene, ug/l	<5.0	---	---
trans-1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methylene chloride, ug/l	<5.0	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 10

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Tetrachloroethene, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	106 %	6.6 %
1,1,1-Trichloroethane, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichloroethene, ug/l	<5.0	106 %	4.7 %
Trichlorofluoromethane, ug/l	<5.0	---	---
Vinyl Chloride, ug/l	<10	---	---
Xylenes, ug/l	<5.0	---	---
Date Analyzed	11.21.91	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 11

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
Purgeables			
Bromodichloromethane, ug/l	<1.0	---	---
Bromoform, ug/l	<5.0	---	---
Bromomethane, ug/l	<1.0	---	---
Carbon Tetrachloride, ug/l	<1.0	---	---
Chlorobenzene, ug/l	<1.0	107 %	0.93 %
Chloroethane, ug/l	<1.0	---	---
2-Chloroethylvinyl Ether, ug/l	<10	---	---
Chloroform, ug/l	<1.0	---	---
Chloromethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---
1,2-Dichlorobenzene, ug/l	<1.0	---	---
1,3-Dichlorobenzene, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
Dichlorodifluoromethane, ug/l	<10	---	---
1,1-Dichloroethane, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethene, ug/l	<1.0	92 %	8.7 %
Cis/trans-1,2-dichloroethylene, ug/l	<1.0	---	---
1,2-Dichloropropane, ug/l	<1.0	---	---
Cis-1,3-Dichloropropene, ug/l	<1.0	---	---
Trans-1,3-Dichloropropene, ug/l	<1.0	---	---
Methylene Chloride, ug/l	<1.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 12

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
1,1,2-Trichloroethane, ug/l	<1.0	---	---
Trichloroethene, ug/l	<1.0	115 %	0.87 %
Trichlorofluoromethane, ug/l	<1.0	---	---
Vinyl Chloride, ug/l	<1.0	---	---
Benzene, ug/l	<1.0	93 %	1.1 %
Ethylbenzene, ug/l	<1.0	---	---
Toluene, ug/l	<1.0	113 %	1.8 %
Xylenes, ug/l	<1.0	---	---
Methyl-tert-butyl ether (MTBE), ug/l	<10	---	---
Date Analyzed	11.20.91	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 13

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
BN-A Extractables (625)			
Acenaphthene, ug/l	<10	67 %	89 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Aldrin, ug/l	<50	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(b)fluoranthene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Benzo(a)pyrene, ug/l	<10	---	---
Benzo(g,h,i)perylene, ug/l	<10	---	---
Benzyl butyl phthalate, ug/l	<10	---	---
beta-BHC, ug/l	<50	---	---
delta-BHC, ug/l	<50	---	---
bis(2-Chloroethyl) ether, ug/l	<10	---	---
bis(2-Chloroethoxy) methane, ug/l	<10	---	---
bis(2-Ethylhexyl) phthalate, ug/l	<10	---	---
bis(2-chloroisopropyl)ether, ug/l	<10	---	---
4-Bromophenyl-phenyl-ether, ug/l	<10	---	---
Chlordane, ug/l	<50	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl-phenyl ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
4,4'-DDD, ug/l	<10	---	---
4,4'-DDE, ug/l	<10	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 14

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
4,4'-DDT, ug/l	<10	---	---
Dibenzo (a,h)anthracene, ug/l	<10	---	---
Di-n-butylphthalate, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	76 %	3.9 %
3,3'-Dichlorobenzidine, ug/l	<20	---	---
Dieldrin, ug/l	<50	---	---
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	69 %	2.9 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-n-octylphthalate, ug/l	<10	---	---
Endosulfan sulfate, ug/l	<100	---	---
Endrin Aldehyde, ug/l	<50	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Heptachlor, ug/l	<50	---	---
Heptachlor epoxide, ug/l	<50	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd)pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 15

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	74 %	34 %
Aroclor-1016, ug/l	<500	---	---
Aroclor-1221, ug/l	<500	---	---
Aroclor-1232, ug/l	<500	---	---
Aroclor-1242, ug/l	<500	---	---
Aroclor-1248, ug/l	<500	---	---
Aroclor-1254, ug/l	<500	---	---
Aroclor-1260, ug/l	<500	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	86 %	9.3 %
Toxaphene, ug/l	<1000	---	---
1,2,4-Trichlorobenzene, ug/l	<10	72 %	11 %
4-Chloro-3-methylphenol, ug/l	<10	80 %	14 %
2-Chlorophenol, ug/l	<10	94 %	9.6 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Methyl-4,6-dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	42 %	38 %
Pentachlorophenol, ug/l	<50	72 %	1.4 %
Phenol, ug/l	<10	62 %	34 %
2,4,6-Trichlorophenol, ug/l	<10	---	---
Date Extracted	11.19.91	---	---
Date Analyzed	11.22.91	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 16

LOG NO SAMPLE DESCRIPTION , REPORT FOR LIQUID SAMPLES

12736-6 Lab Blank
12736-7 Accuracy - % Recovery
12736-8 Precision - Relative % Difference

PARAMETER	12736-6	12736-7	12736-8
Oil & Grease , mg/l	<1.0	108 %	0.92 %
Petroleum Hydrocarbons , mg/l	<1.0	94 %	3.2 %

Method References: EPA 40 CFR Part 136 and
EPA 600/4-79-020.


Ivette Larralde

HYDROLOGIC ASSOCIATES U.S.A., INC.

14707 S. Dixie Highway, Penthouse 403
Miami, Florida 33176

Phone: (305) 252-7118 Fax: (305) 254-0874

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NO. <i>HA-91-197</i>		PROJECT NAME <i>Tutu Aquifer (TA-)</i>			NO. OF CONTAINERS	PARAMETERS <i>601 602 625 OEG TRPH TCLP-VOLATILES TCLP-NETRAL TCLP-SEMIVOL</i>								REMARKS
SAMPLERS (Signature) <i>Jo Swayze</i>						SAMPLE DESIGNATION	DATE	TIME	COMB.	GRAB	Sample Description (type)			
GROUND WATER	SURFACE WATER	SOIL												
<i>TA-ES80-DR</i>	<i>11/14/91</i>	<i>1035</i>		<i>✓</i>	<i>5</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>					<i>TA-ES80-DRUM LIQUID</i>
<i>TA-CR-MWI</i>		<i>1615</i>		<i>✓</i>	<i>5</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>✓</i>					<i>FREE PRODUCT (oil) ≈ 1/4"</i>
<i>TA-ES80-SL</i>		<i>1115</i>		<i>✓</i>	<i>1</i>					<i>x</i>	<i>x</i>	<i>x</i>		<i>SLUDGE from Esso-DRUM/Hold pending H₂O</i>
<i>TA-TX-SP</i>		<i>1100</i>		<i>✓</i>	<i>5</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>					<i>TEXACO SOAKAGE PIT (filtration pit) water</i>
<i>TA-4W-PWI</i>	<i>11/15/91</i>	<i>1635</i>		<i>✓</i>	<i>5</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>					<i>FOUR WINDS PRODUCTION WELL</i>
<i>TA-TB-PWI</i>	<i>11/15/91</i>	<i>0920</i>		<i>✓</i>	<i>5</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>					<i>TURNBULL PRIVATE RESIDENCE WELL</i>
<i>TA-Trip-BI</i>						<i>x</i>	<i>x</i>							<i>Trip Blank</i>
<i>* In TCLP - do metals & organics but no pesticides or herbicides *</i> <i>→ 3-7 DAY TURN-AROUND ←</i>														
SAMPLING EVENT CONTAINER RECORD		TYPE		PREPARED BY: <i>Donna Lake for field</i>										
		PRESERV.		DATE/TIME:										
		VOL (ML)		RECEIVED BY:										
		NO.#		DATE/TIME:										
Relinquished by: <i>Jo Swayze</i>		Date / Time: <i>11/18/91 3:00</i>		Received by: <i>[Signature]</i>		Relinquished by: <i>[Signature]</i>		Date / Time: <i>11/19/91 6:25</i>		Received by: <i>[Signature]</i>				
Relinquished by:		Date / Time:		Received by:		Relinquished by:		Date / Time:		Received by:				

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736A

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-]
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
12736A-1	TA-ESSO-SL	11-14-91
PARAMETER	12736A-1	
Volatiles in TCLP Extract		
Benzene (TCLP), mg/l	0.052	
Carbon tetrachloride (TCLP), mg/l	<0.020	
Chlorobenzene (TCLP), mg/l	<0.020	
Chloroform (TCLP), mg/l	<0.020	
1,2-Dichloroethane (TCLP), mg/l	<0.020	
1,1-Dichloroethylene (TCLP), mg/l	<0.020	
Methyl ethyl ketone (TCLP), mg/l	<0.40	
Tetrachloroethylene (TCLP), mg/l	<0.020	
Trichloroethylene (TCLP), mg/l	<0.020	
Vinyl chloride (TCLP), mg/l	<0.040	
Semivolatiles in TCLP Extract		
Cresol o,m,p (TCLP), mg/l	6.4	
1,4-Dichlorobenzene (TCLP), mg/l	<0.050	
2,4-Dinitrotoluene (TCLP), mg/l	<0.050	
Hexachlorobenzene (TCLP), mg/l	<0.050	
Hexachlorobutadiene (TCLP), mg/l	<0.050	
Hexachloroethane (TCLP), mg/l	<0.050	
Nitrobenzene (TCLP), mg/l	<0.050	
Pentachlorophenol (TCLP), mg/l	<0.25	
2,4,5-Trichlorophenol (TCLP), mg/l	<0.25	
2,4,6-Trichlorophenol (TCLP), mg/l	<0.050	
Pyridine (TCLP), mg/l	<0.25	

10, 004 1343

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736A

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-]
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
12736A-1	TA-ESSO-SL	11-14-91
PARAMETER	12736A-1	
Metals in TCLP Extract		
Arsenic (TCLP), mg/l		<0.20
Barium (TCLP), mg/l		0.27
Cadmium (TCLP), mg/l		<0.010
Chromium (TCLP), mg/l		<0.050
Lead (TCLP), mg/l		14
Selenium (TCLP), mg/l		<0.20
Silver (TCLP), mg/l		<0.020
Mercury in TCLP Extract (7470), mg/l		<0.020

101 004 1349

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

Page 3

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

12736A-2 Lab Blank
12736A-3 Matrix Spike - % Recovery

PARAMETER	12736A-2	12736A-3
Volatiles in TCLP Extract		
Benzene (TCLP), mg/l	<0.020	100 %
Carbon tetrachloride (TCLP), mg/l	<0.020	70 %
Chlorobenzene (TCLP), mg/l	<0.020	83 %
Chloroform (TCLP), mg/l	<0.020	80 %
1,2-Dichloroethane (TCLP), mg/l	<0.020	79 %
1,1-Dichloroethylene (TCLP), mg/l	<0.020	61 %
Methyl ethyl ketone (TCLP), mg/l	<0.40	80 %
Tetrachloroethylene (TCLP), mg/l	<0.020	76 %
Trichloroethylene (TCLP), mg/l	<0.020	81 %
Vinyl chloride (TCLP), mg/l	<0.040	66 %
Semivolatiles in TCLP Extract		
Cresol o,m,p (TCLP), mg/l	<0.050	37 %
1,4-Dichlorobenzene (TCLP), mg/l	<0.050	26 %
2,4-Dinitrotoluene (TCLP), mg/l	<0.050	38 %
Hexachlorobenzene (TCLP), mg/l	<0.050	92 %
Hexachlorobutadiene (TCLP), mg/l	<0.050	64 %
Hexachloroethane (TCLP), mg/l	<0.050	33 %
Nitrobenzene (TCLP), mg/l	<0.050	36 %
Pentachlorophenol (TCLP), mg/l	<0.25	116 %
2,4,5-Trichlorophenol (TCLP), mg/l	<0.25	73 %
2,4,6-Trichlorophenol (TCLP), mg/l	<0.050	100 %
Pyridine (TCLP), mg/l	<0.25	10 %

111 004 1350

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D1-12736A

Received: 18 NOV 91

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: TuTu Aquifer (TA-)
Sampled By: Client

REPORT OF RESULTS

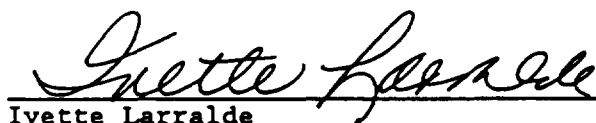
Page 4

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

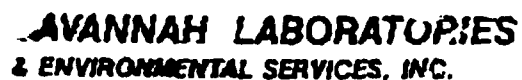
12736A-2 Lab Blank
12736A-3 Matrix Spike - % Recovery

PARAMETER	12736A-2	12736A-3
Metals in TCLP Extract		
Arsenic (TCLP), mg/l	<0.20	99 %
Barium (TCLP), mg/l	<0.050	97 %
Cadmium (TCLP), mg/l	<0.010	94 %
Chromium (TCLP), mg/l	<0.050	89 %
Lead (TCLP), mg/l	<0.10	75 %
Selenium (TCLP), mg/l	<0.20	104 %
Silver (TCLP), mg/l	<0.010	81 %
Mercury in TCLP Extract (7470), mg/l	<0.020	106 %

Method 1311 - Reported TCLP results have not been
corrected for analytical bias per instructions
of client.


Ivette Larralde

001 004 1351



- ☐ 5182 Lafayette Avenue, Savannah, GA 31464
- ☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- ☒ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442
- ☐ 800 Lakeside Drive, Mobile, AL 36688
- ☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Phone: (912) 351-7858
Phone: (804) 878-3884
Phone: (305) 421-7400
Phone: (205) 686-6833
Phone: (813) 885-7477

Fax (812) 287-0165
Fax (804) 578-9588
Fax (305) 421-2584
Fax (205) 688-6256
Fax (813) 885-7048

[illegible]

FOR SWANN LABORATORY USE ONLY						LABORATORY RESERVE
RECEIVED BY LABORATORY BY SIGNATURE	DATE	TIME	CUSTODY INTACT ☒ YES ☐ NO	CUSTODY SEAL NO.	SL LOG NO.	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20692

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (Virgin Islands/Harthm
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
20692-1	VI-1	02-26-92				
20692-2	VI-1 Dup	02-26-92				
20692-3	VI-2	02-26-92				
20692-4	VI-3	02-26-92				
20692-5	VI-4	02-26-92				
PARAMETER	20692-1	20692-2	20692-3	20692-4	20692-5	
Purgeables						
Bromodichloromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromoform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Bromomethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Carbon Tetrachloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorobenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Chloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Chloroethylvinyl Ether, ug/l	<10	<10	<10	<10	<10	
Chloroform, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Chloromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromochloromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichlorobenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,3-Dichlorobenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,4-Dichlorobenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Dichlorodifluoromethane, ug/l	<10	<10	<10	<10	<10	
1,1-Dichloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Cis/trans-1,2-dichloroethyl ene, ug/l	<1.0	<1.0	5.0	<1.0	<1.0	

101 004 1003

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20692

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (Virgin Islands/Harthm
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
20692-1	VI-1	02-26-92				
20692-2	VI-1 Dup	02-26-92				
20692-3	VI-2	02-26-92				
20692-4	VI-3	02-26-92				
20692-5	VI-4	02-26-92				
PARAMETER	20692-1	20692-2	20692-3	20692-4	20692-5	
1,2-Dichloropropane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Cis-1,3-Dichloropropene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Trans-1,3-Dichloropropene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Methylene Chloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Tetrachloroethylene, ug/l	<1.0	<1.0	9.5	<1.0	<1.0	
1,1,1-Trichloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloroethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Trichloroethene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Trichlorofluoromethane, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Vinyl Chloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Ethylbenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Toluene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Xylenes, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
Methyl-tert-butyl ether (MTBE), ug/l	<10	<10	<10	<10	<10	
Date Analyzed	03.04.92	03.04.92	03.04.92	03.04.92	03.04.92	
Dilution factor	1	1	1	1	1	
Method Number	601/602	601/602	601/602	601/602	601/602	

101 1004 1004

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (Virgin Islands/Harthm
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED		
20692-6	VI-5	02-26-92		
20692-7	VI-6	02-27-92		
20692-8	GAM-1	02-29-92		
PARAMETER		20692-6	20692-7	20692-8
Purgeables				
Bromodichloromethane, ug/l		<1.0	<1.0	<1.0
Bromoform, ug/l		<5.0	<5.0	<5.0
Bromomethane, ug/l		<1.0	<1.0	<1.0
Carbon Tetrachloride, ug/l		<1.0	<1.0	<1.0
Chlorobenzene, ug/l		<1.0	<1.0	<1.0
Chloroethane, ug/l		<1.0	<1.0	<1.0
2-Chloroethylvinyl Ether, ug/l		<10	<10	<10
Chloroform, ug/l		<1.0	<1.0	<1.0
Chloromethane, ug/l		<1.0	<1.0	<1.0
Dibromochloromethane, ug/l		<1.0	<1.0	<1.0
1,2-Dichlorobenzene, ug/l		<1.0	<1.0	<1.0
1,3-Dichlorobenzene, ug/l		<1.0	<1.0	<1.0
1,4-Dichlorobenzene, ug/l		<1.0	<1.0	<1.0
Dichlorodifluoromethane, ug/l		<10	<10	<10
1,1-Dichloroethane, ug/l		<1.0	<1.0	<1.0
1,2-Dichloroethane, ug/l		<1.0	<1.0	<1.0
1,1-Dichloroethene, ug/l		<1.0	<1.0	<1.0
Cis/trans-1,2-dichloroethylene, ug/l		<1.0	<1.0	<1.0
1,2-Dichloropropane, ug/l		<1.0	<1.0	<1.0
Cis-1,3-Dichloropropene, ug/l		<1.0	<1.0	<1.0
Trans-1,3-Dichloropropene, ug/l		<1.0	<1.0	<1.0

TUP 000 1350

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20692

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (Virgin Islands/Harthm
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED		
20692-6	VI-5	02-26-92		
20692-7	VI-6	02-27-92		
20692-8	GAM-1	02-29-92		
PARAMETER		20692-6	20692-7	20692-8
Methylene Chloride, ug/l		<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane, ug/l		<1.0	<1.0	<1.0
Tetrachloroethylene, ug/l		1.3	<1.0	<1.0
1,1,1-Trichloroethane, ug/l		<1.0	<1.0	<1.0
1,1,2-Trichloroethane, ug/l		<1.0	<1.0	<1.0
Trichloroethene, ug/l		<1.0	<1.0	<1.0
Trichlorofluoromethane, ug/l		<1.0	<1.0	<1.0
Vinyl Chloride, ug/l		<1.0	<1.0	<1.0
Benzene, ug/l		<1.0	<1.0	*<10
Ethylbenzene, ug/l		<1.0	<1.0	*<10
Toluene, ug/l		<1.0	<1.0	*<10
Xylenes, ug/l		<1.0	<1.0	*<10
Methyl-tert-butyl ether (MTBE), ug/l		<10	<10	4700
Date Analyzed		03.04.92	03.04.92	03.04.92
Dilution factor		1	1	1
Method Number		601/602	601/602	601/602

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20692

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (Virgin Islands/Harthm
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 5

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20692-9 Lab Blank
20692-10 Accuracy - % Recovery (Mean)
20692-11 Precision - Relative % Difference

PARAMETER	20692-9	20692-10	20692-11
Purgeables			
Bromodichloromethane, ug/l	<1.0	---	---
Bromoform, ug/l	<5.0	---	---
Bromomethane, ug/l	<1.0	---	---
Carbon Tetrachloride, ug/l	<1.0	---	---
Chlorobenzene, ug/l	<1.0	94 %	0 %
Chloroethane, ug/l	<1.0	---	---
2-Chloroethylvinyl Ether, ug/l	<10	---	---
Chloroform, ug/l	<1.0	---	---
Chloromethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---
1,2-Dichlorobenzene, ug/l	<1.0	---	---
1,3-Dichlorobenzene, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
Dichlorodifluoromethane, ug/l	<10	---	---
1,1-Dichloroethane, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethene, ug/l	<1.0	82 %	1.2 %
Cis/trans-1,2-dichloroethylene, ug/l	<1.0	---	---
1,2-Dichloropropane, ug/l	<1.0	---	---
Cis-1,3-Dichloropropene, ug/l	<1.0	---	---
Trans-1,3-Dichloropropene, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20692

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (Virgin Islands/Harthm
Sampled By: Leo Swayze

REPORT OF RESULTS

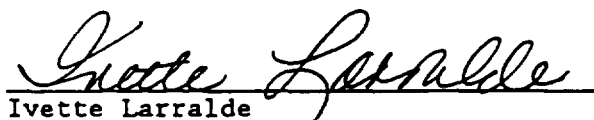
Page 6

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20692-9 Lab Blank
20692-10 Accuracy - % Recovery (Mean)
20692-11 Precision - Relative % Difference

PARAMETER	20692-9	20692-10	20692-11
Methylene Chloride, ug/l	<1.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
1,1,2-Trichloroethane, ug/l	<1.0	---	---
Trichloroethene, ug/l	<1.0	90 %	8.9 %
Trichlorofluoromethane, ug/l	<1.0	---	---
Vinyl Chloride, ug/l	<1.0	---	---
Benzene, ug/l	<1.0	109 %	0 %
Ethylbenzene, ug/l	<1.0	---	---
Toluene, ug/l	<1.0	106 %	0.94 %
Xylenes, ug/l	<1.0	---	---
Methyl-tert-butyl ether (MTBE), ug/l	<10	---	---
Date Analyzed	03.04.92	---	---

Method Reference: EPA 40 CFR Part 136.


Ivette Larralde

HYDROLOGIC ASSOCIATES U.S.A., INC.

14707 S. Dixie Highway, Penthouse 403
Miami, Florida 33176

Phone: (305) 252-7118 Fax: (305) 254-0874

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NO. <u>HA-91-197</u>		PROJECT NAME <u>VIRGIN ISLANDS (NARTHMAN)</u>			NO. OF CONTAINERS	PARAMETERS										REMARKS
SAMPLERS (Signature) <u>[Signature]</u>						601	602									
SAMPLE DESIGNATION	DATE	TIME	COMP.	GRAB	Sample Description (type)											
					GROUND WATER	SURFACE WATER	SOIL									
<u>VI-1</u>	<u>2/26/92</u>	<u>12:09</u>			✓			<u>2</u>	✓	✓						<u>- WILFRED</u>
<u>VI-2</u>	<u>1</u>	<u>2:45</u>			✓			<u>3</u>	✓	✓						<u>- Crusher</u>
<u>VI-3</u>		<u>3:40</u>			✓			<u>3</u>	✓	✓						<u>- Bakery</u>
<u>VI-4</u>		<u>4:48</u>			✓			<u>3</u>	✓	✓						<u>- Zero</u>
<u>VI-5</u>	<u>7</u>	<u>5:10</u>			✓			<u>3</u>	✓	✓						<u>- Race Track</u>
<u>VI-6</u>	<u>2-27-92</u>	<u>8:07</u>			✓			<u>3</u>	✓	✓						<u>- BATISTE</u>
<u>VI-1-Dup</u>	<u>2/26</u>	<u>12:10</u>			✓			<u>1</u>	✓	✓						
<u>GAM-1</u>	<u>2/29/92</u>	<u>9:15</u>			✓			<u>3</u>	✓	✓						<u>- M.W-I</u>
																<u>No Preservative - HCL</u>
																<u>Too reactive with Carbonate</u>

SAMPLING EVENT CONTAINER RECORD	TYPE	PREPARED BY:				
	PRESERV.	<u>None (see only)</u>				
	VOL (ML)	<u>40 ml</u>				
	NO.#	<u>27 D220692</u>				
Relinquished by:		Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
<u>[Signature]</u>		<u>3/2/92</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>3/2/92 6:00</u>	<u>[Signature]</u>
Relinquished by:		Date / Time	Received by:	Relinquished by:	Date / Time	Received by:

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
20691-1	TT-1	02-27-92				
20691-2	TT-2	02-27-92				
20691-3	TT-3	02-27-92				
20691-4	TT-4	02-27-92				
20691-5	TuTu Trip Blank	02-27-92				
PARAMETER	20691-1	20691-2	20691-3	20691-4	20691-5	
Purgeables						
Bromodichloromethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Bromoform, ug/l	<5.0	<5.0	<5000	<120	<5.0	
Bromomethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Carbon Tetrachloride, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Chlorobenzene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Chloroethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
2-Chloroethylvinyl Ether, ug/l	<10	<10	<10000	<250	<10	
Chloroform, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Chloromethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Dibromochloromethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,2-Dichlorobenzene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,3-Dichlorobenzene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,4-Dichlorobenzene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Dichlorodifluoromethane, ug/l	<10	<10	<10000	<250	<10	
1,1-Dichloroethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,2-Dichloroethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,1-Dichloroethene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Cis/trans-1,2-dichloroethyl ene, ug/l	170	210	<1000	<25	<1.0	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
20691-1	TT-1	02-27-92				
20691-2	TT-2	02-27-92				
20691-3	TT-3	02-27-92				
20691-4	TT-4	02-27-92				
20691-5	TuTu Trip Blank	02-27-92				
PARAMETER	20691-1	20691-2	20691-3	20691-4	20691-5	
1,2-Dichloropropane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Cis-1,3-Dichloropropene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Trans-1,3-Dichloropropene, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Methylene Chloride, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Tetrachloroethylene, ug/l	69	73	<1000	<25	<1.0	
1,1,1-Trichloroethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
1,1,2-Trichloroethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Trichloroethene, ug/l	14	18	<1000	<25	<1.0	
Trichlorofluoromethane, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Vinyl Chloride, ug/l	<1.0	<1.0	<1000	<25	<1.0	
Benzene, ug/l	<1.0	<1.0	26000	<25	<1.0	
Ethylbenzene, ug/l	<1.0	<1.0	2400	<25	<1.0	
Toluene, ug/l	<1.0	<1.0	38000	<25	<1.0	
Xylenes, ug/l	<1.0	5.4	38000	<25	<1.0	
Methyl-tert-butyl ether (MTBE), ug/l	55	<10	62000	7700	<10	
Date Analyzed	03.04.92	03.04.92	03.04.92	03.05.92	03.04.92	
Dilution factor	1	1	1000	25	1	
Method Number	601/602	601/602	601/602	601/602	601/602	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

4 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-6	TT-2 Duplicate	02-27-92
PARAMETER	20691-6	
Purgeables		
Bromodichloromethane, ug/l		<1.0
Bromoform, ug/l		<5.0
Bromomethane, ug/l		<1.0
Carbon Tetrachloride, ug/l		<1.0
Chlorobenzene, ug/l		<1.0
Chloroethane, ug/l		<1.0
2-Chloroethylvinyl Ether, ug/l		<10
Chloroform, ug/l		<1.0
Chloromethane, ug/l		<1.0
Dibromochloromethane, ug/l		<1.0
1,2-Dichlorobenzene, ug/l		<1.0
1,3-Dichlorobenzene, ug/l		<1.0
1,4-Dichlorobenzene, ug/l		<1.0
Dichlorodifluoromethane, ug/l		<10
1,1-Dichloroethane, ug/l		<1.0
1,2-Dichloroethane, ug/l		<1.0
1,1-Dichloroethene, ug/l		<1.0
Cis/trans-1,2-dichloroethylene, ug/l		*97
1,2-Dichloropropane, ug/l		<1.0
Cis-1,3-Dichloropropene, ug/l		<1.0
Trans-1,3-Dichloropropene, ug/l		<1.0
Methylene Chloride, ug/l		<1.0
1,1,2,2-Tetrachloroethane, ug/l		<1.0

* Estimated value. This value is above calibration range. Due to insufficient sample amount we were unable to reanalyze.

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-6	TT-2 Duplicate	02-27-92
PARAMETER	20691-6	
1,1,2,2-Tetrachloroethane, ug/l	<1.0	
Tetrachloroethylene, ug/l	*110	
1,1,1-Trichloroethane, ug/l	<1.0	
1,1,2-Trichloroethane, ug/l	<1.0	
Trichloroethene, ug/l	22	
Trichlorofluoromethane, ug/l	<1.0	
Vinyl Chloride, ug/l	<1.0	
Benzene, ug/l	<1.0	
Ethylbenzene, ug/l	<1.0	
Toluene, ug/l	<1.0	
Xylenes, ug/l	<1.0	
Methyl-tert-butyl ether (MTBE), ug/l	<10	
Date Analyzed	03.04.92	
Dilution factor	1	
Method Number	601/602	

* Estimated value. This value is above calibration range. Due to insufficient sample amount we were unable to reanalyze.

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 5

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-7	TT-5	02-27-92
PARAMETER	20691-7	
Hydrocarbons (Modified 8100)		
Hydrocarbons as Heavy Oils, mg/kg	100000	
Date Analyzed	03.05.92	
Method Number	MOD 8100	
Dilution factor	1	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

4 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-8	TT-6	02-27-92
PARAMETER	20691-8	
Purgeables		
Benzene, ug/l		<50
Bromodichloromethane, ug/l		<50
Bromoform, ug/l		<50
Bromomethane, ug/l		<100
Carbon tetrachloride, ug/l		<50
Chlorobenzene, ug/l		<50
Chloroethane, ug/l		<100
2-Chloroethylvinyl ether, ug/l		<100
Chloroform, ug/l		<50
Chloromethane, ug/l		<100
Dibromochloromethane, ug/l		<50
1,2-Dichlorobenzene, ug/l		<50
1,3-Dichlorobenzene, ug/l		<50
1,4-Dichlorobenzene, ug/l		<50
1,1-Dichloroethane, ug/l		<50
1,2-Dichloroethane, ug/l		<50
1,1-Dichloroethene, ug/l		<50
cis/trans-1,2-Dichloroethylene, ug/l		<50
1,2-Dichloropropane, ug/l		<50
cis-1,3-Dichloropropene, ug/l		<50
trans-1,3-Dichloropropene, ug/l		<50
Ethylbenzene, ug/l		120

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-8	TT-6	02-27-92
PARAMETER	20691-8	
Methylene chloride, ug/l	<50	
1,1,2,2-Tetrachloroethane, ug/l	<50	
Tetrachloroethene, ug/l	<50	
Toluene, ug/l	<50	
1,1,1-Trichloroethane, ug/l	<50	
1,1,2-Trichloroethane, ug/l	<50	
Trichloroethene, ug/l	<50	
Trichlorofluoromethane, ug/l	<50	
Vinyl Chloride, ug/l	<100	
Xylenes, ug/l	<50	
Date Analyzed	03.04.92	
Method Number	EPA 624	
Dilution factor	10	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-8	TT-6	02-27-92
PARAMETER	20691-8	
BN-A Extractables (625)		
Acenaphthene, ug/l		<10
Acenaphthylene, ug/l		<10
Anthracene, ug/l		<10
Aldrin, ug/l		<50
Benzo(a)Anthracene, ug/l		<10
Benzo(b)fluoranthene, ug/l		<10
Benzo (k) Fluoranthene, ug/l		<10
Benzo(a)pyrene, ug/l		<10
Benzo(g,h,i)perylene, ug/l		<10
Benzyl butyl phthalate, ug/l		<10
beta-BHC, ug/l		<50
delta-BHC, ug/l		<50
bis(2-Chloroethyl) ether, ug/l		<10
bis(2-Chloroethoxy) methane, ug/l		<10
bis(2-Ethylhexyl) phthalate, ug/l		<10
bis(2-chloroisopropyl)ether, ug/l		<10
4-Bromophenyl-phenyl-ether, ug/l		<10
Chlordane, ug/l		<50
2-Chloronaphthalene, ug/l		<10
4-Chlorophenyl-phenyl ether, ug/l		<10
Chrysene, ug/l		<10
4,4'-DDD, ug/l		<10

SL SAVANNAH LABORATORIES

& ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 9

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-8	TT-6	02-27-92
PARAMETER	20691-8	
4,4'-DDE, ug/l	<10	
4,4'-DDT, ug/l	<10	
Dibenzo (a,h)anthracene, ug/l	<10	
Di-n-butylphthalate, ug/l	<10	
1,3-Dichlorobenzene, ug/l	<10	
1,2-Dichlorobenzene, ug/l	<10	
1,4-Dichlorobenzene, ug/l	<10	
3,3'-Dichlorobenzidine, ug/l	<20	
Dieldrin, ug/l	<50	
Diethyl Phthalate, ug/l	<10	
Dimethyl phthalate, ug/l	<10	
2,4-Dinitrotoluene, ug/l	<10	
2,6-Dinitrotoluene, ug/l	<10	
Di-n-octylphthalate, ug/l	<10	
Endosulfan sulfate, ug/l	<100	
Endrin Aldehyde, ug/l	<50	
Fluoranthene, ug/l	<10	
Fluorene, ug/l	<10	
Heptachlor, ug/l	<50	
Heptachlor epoxide, ug/l	<50	
Hexachlorobenzene, ug/l	<10	
Hexachlorobutadiene, ug/l	<10	
Hexachloroethane, ug/l	<10	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 10

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-8	TT-6	02-27-92
PARAMETER	20691-8	
Indeno (1,2,3-cd)pyrene, ug/l	<10	
Isophorone, ug/l	<10	
Naphthalene, ug/l	65	
Nitrobenzene, ug/l	<10	
N-Nitrosodi-N-Propylamine, ug/l	<10	
Aroclor-1016, ug/l	<500	
Aroclor-1221, ug/l	<500	
Aroclor-1232, ug/l	<500	
Aroclor-1242, ug/l	<500	
Aroclor-1248, ug/l	<500	
Aroclor-1254, ug/l	<500	
Aroclor-1260, ug/l	<500	
Phenanthrene, ug/l	<10	
Pyrene, ug/l	<10	
Toxaphene, ug/l	<1000	
1,2,4-Trichlorobenzene, ug/l	<10	
4-Chloro-3-methylphenol, ug/l	<10	
2-Chlorophenol, ug/l	<10	
2,4-Dichlorophenol, ug/l	<10	
2,4-Dimethylphenol, ug/l	<10	
2,4-Dinitrophenol, ug/l	<50	
2-Methyl-4,6-dinitrophenol, ug/l	<50	
2-Nitrophenol, ug/l	<10	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 11

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-8	TT-6	02-27-92
PARAMETER	20691-8	
4-Nitrophenol, ug/l	<50	
Pentachlorophenol, ug/l	<50	
Phenol, ug/l	<10	
2,4,6-Trichlorophenol, ug/l	<10	
Date Extracted	03.05.92	
Date Analyzed	03.09.92	
Method Number	EPA 625	
Dilution factor	1	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

4 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 12

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-9	TT-6-Dup	02-27-92
PARAMETER	20691-9	
BN-A Extractables (625)		
Acenaphthene, ug/l		<10
Acenaphthylene, ug/l		<10
Anthracene, ug/l		<10
Aldrin, ug/l		<50
Benzo(a)Anthracene, ug/l		<10
Benzo(b)fluoranthene, ug/l		<10
Benzo(k) Fluoranthene, ug/l		<10
Benzo(a)pyrene, ug/l		<10
Benzo(g,h,i)perylene, ug/l		<10
Benzyl butyl phthalate, ug/l		<10
beta-BHC, ug/l		<50
delta-BHC, ug/l		<50
bis(2-Chloroethyl) ether, ug/l		<10
bis(2-Chloroethoxy) methane, ug/l		<10
bis(2-Ethylhexyl) phthalate, ug/l		<10
bis(2-chloroisopropyl)ether, ug/l		<10
4-Bromophenyl-phenyl-ether, ug/l		<10
Chlordane, ug/l		<50
2-Chloronaphthalene, ug/l		<10
4-Chlorophenyl-phenyl ether, ug/l		<10
Chrysene, ug/l		<10
4,4'-DDD, ug/l		<10

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 13

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-9	TT-6-Dup	02-27-92
PARAMETER	20691-9	
4,4'-DDE, ug/l	<10	
4,4'-DDT, ug/l	<10	
Dibenzo (a,h)anthracene, ug/l	<10	
Di-n-butylphthalate, ug/l	<10	
1,3-Dichlorobenzene, ug/l	<10	
1,2-Dichlorobenzene, ug/l	<10	
1,4-Dichlorobenzene, ug/l	<10	
3,3'-Dichlorobenzidine, ug/l	<20	
Dieldrin, ug/l	<50	
Diethyl Phthalate, ug/l	<10	
Dimethyl phthalate, ug/l	<10	
2,4-Dinitrotoluene, ug/l	<10	
2,6-Dinitrotoluene, ug/l	<10	
Di-n-octylphthalate, ug/l	<10	
Endosulfan sulfate, ug/l	<100	
Endrin Aldehyde, ug/l	<50	
Fluoranthene, ug/l	<10	
Fluorene, ug/l	<10	
Heptachlor, ug/l	<50	
Heptachlor epoxide, ug/l	<50	
Hexachlorobenzene, ug/l	<10	
Hexachlorobutadiene, ug/l	<10	
Hexachloroethane, ug/l	<10	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 14

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-9	TT-6-Dup	02-27-92
PARAMETER	20691-9	
Indeno (1,2,3-cd)pyrene, ug/l	<10	
Isophorone, ug/l	<10	
Naphthalene, ug/l	66	
Nitrobenzene, ug/l	<10	
N-Nitrosodi-N-Propylamine, ug/l	<10	
Aroclor-1016, ug/l	<500	
Aroclor-1221, ug/l	<500	
Aroclor-1232, ug/l	<500	
Aroclor-1242, ug/l	<500	
Aroclor-1248, ug/l	<500	
Aroclor-1254, ug/l	<500	
Aroclor-1260, ug/l	<500	
Phenanthrene, ug/l	<10	
Pyrene, ug/l	<10	
Toxaphene, ug/l	<1000	
1,2,4-Trichlorobenzene, ug/l	<10	
4-Chloro-3-methylphenol, ug/l	<10	
2-Chlorophenol, ug/l	<10	
2,4-Dichlorophenol, ug/l	<10	
2,4-Dimethylphenol, ug/l	<10	
2,4-Dinitrophenol, ug/l	<50	
2-Methyl-4,6-dinitrophenol, ug/l	<50	
2-Nitrophenol, ug/l	<10	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 15

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
20691-9	TT-6-Dup	02-27-92
PARAMETER	20691-9	
4-Nitrophenol, ug/l	<50	
Pentachlorophenol, ug/l	<50	
Phenol, ug/l	<10	
2,4,6-Trichlorophenol, ug/l	<10	
Date Extracted	03.05.92	
Date Analyzed	03.09.92	
Method Number	EPA 625	
Dilution factor	1	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 16

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20691-10 Lab Blank
20691-11 Accuracy - % Recovery (Mean)
20691-12 Precision - Relative % Difference

PARAMETER	20691-10	20691-11	20691-12
Purgeables			
Benzene, ug/l	<5.0	96 %	5.2 %
Bromodichloromethane, ug/l	<5.0	---	---
Bromoform, ug/l	<5.0	---	---
Bromomethane, ug/l	<10	---	---
Carbon tetrachloride, ug/l	<5.0	---	---
Chlorobenzene, ug/l	<5.0	103 %	7.8 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl ether, ug/l	<10	---	---
Chloroform, ug/l	<5.0	---	---
Chloromethane, ug/l	<10	---	---
Dibromochloromethane, ug/l	<5.0	---	---
1,2-Dichlorobenzene, ug/l	<5.0	---	---
1,3-Dichlorobenzene, ug/l	<5.0	---	---
1,4-Dichlorobenzene, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloroethane, ug/l	<5.0	---	---
1,1-Dichloroethene, ug/l	<5.0	104 %	6.7 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
cis-1,3-Dichloropropene, ug/l	<5.0	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 17

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20691-10 Lab Blank
20691-11 Accuracy - % Recovery (Mean)
20691-12 Precision - Relative % Difference

PARAMETER	20691-10	20691-11	20691-12
trans-1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methylene chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Tetrachloroethene, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	95 %	6.3 %
1,1,1-Trichloroethane, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichloroethene, ug/l	<5.0	84 %	2.4 %
Trichlorofluoromethane, ug/l	<5.0	---	---
Vinyl Chloride, ug/l	<10	---	---
Xylenes, ug/l	<5.0	---	---
Date Analyzed	03.04.92	---	---

TU 004 10/76

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 18

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES			
20691-10	Lab Blank			
20691-11	Accuracy - % Recovery (Mean)			
20691-12	Precision - Relative % Difference			
PARAMETER		20691-10	20691-11	20691-12
Purgeables				
Bromodichloromethane, ug/l		<1.0	---	---
Bromoform, ug/l		<5.0	---	---
Bromomethane, ug/l		<1.0	---	---
Carbon Tetrachloride, ug/l		<1.0	---	---
Chlorobenzene, ug/l		<1.0	74 %	6.8 %
Chloroethane, ug/l		<1.0	---	---
2-Chloroethylvinyl Ether, ug/l		<10	---	---
Chloroform, ug/l		<1.0	---	---
Chloromethane, ug/l		<1.0	---	---
Dibromochloromethane, ug/l		<1.0	---	---
1,2-Dichlorobenzene, ug/l		<1.0	---	---
1,3-Dichlorobenzene, ug/l		<1.0	---	---
1,4-Dichlorobenzene, ug/l		<1.0	---	---
Dichlorodifluoromethane, ug/l		<10	---	---
1,1-Dichloroethane, ug/l		<1.0	---	---
1,2-Dichloroethane, ug/l		<1.0	---	---
1,1-Dichloroethene, ug/l		<1.0	84 %	12 %
Cis/trans-1,2-dichloroethylene, ug/l		<1.0	---	---
1,2-Dichloropropane, ug/l		<1.0	---	---
Cis-1,3-Dichloropropene, ug/l		<1.0	---	---

101 004 13/7

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 19

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES		
20691-10	Lab Blank		
20691-11	Accuracy - % Recovery (Mean)		
20691-12	Precision - Relative % Difference		
PARAMETER	20691-10	20691-11	20691-12
Trans-1,3-Dichloropropene, ug/l	<1.0	---	---
Methylene Chloride, ug/l	<1.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
1,1,2-Trichloroethane, ug/l	<1.0	---	---
Trichloroethene, ug/l	<1.0	80 %	8.8 %
Trichlorofluoromethane, ug/l	<1.0	---	---
Vinyl Chloride, ug/l	<1.0	---	---
Benzene, ug/l	<1.0	116 %	0 %
Ethylbenzene, ug/l	<1.0	---	---
Toluene, ug/l	<1.0	117 %	6.8 %
Xylenes, ug/l	<1.0	---	---
Methyl-tert-butyl ether (MTBE), ug/l	<10	---	---
Date Analyzed	03.04.92	---	---

DUF 1004 10/8

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 20

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20691-10 Lab Blank
20691-11 Accuracy - % Recovery (Mean)
20691-12 Precision - Relative % Difference

PARAMETER	20691-10	20691-11	20691-12
BN-A Extractables (625)			
Acenaphthene, ug/l	<10	69 %	12 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Aldrin, ug/l	<50	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(b)fluoranthene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Benzo(a)pyrene, ug/l	<10	---	---
Benzo(g,h,i)perylene, ug/l	<10	---	---
Benzyl butyl phthalate, ug/l	<10	---	---
beta-BHC, ug/l	<50	---	---
delta-BHC, ug/l	<50	---	---
bis(2-Chloroethyl) ether, ug/l	<10	---	---
bis(2-Chloroethoxy) methane, ug/l	<10	---	---
bis(2-Ethylhexyl) phthalate, ug/l	<10	---	---
bis(2-chloroisopropyl)ether, ug/l	<10	---	---
4-Bromophenyl-phenyl-ether, ug/l	<10	---	---
Chlordane, ug/l	<50	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl-phenyl ether, ug/l	<10	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 21

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20691-10 Lab Blank
20691-11 Accuracy - % Recovery (Mean)
20691-12 Precision - Relative % Difference

PARAMETER	20691-10	20691-11	20691-12
Chrysene, ug/l	<10	---	---
4,4'-DDD, ug/l	<10	---	---
4,4'-DDE, ug/l	<10	---	---
4,4'-DDT, ug/l	<10	---	---
Dibenzo (a,h)anthracene, ug/l	<10	---	---
Di-n-butylphthalate, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	96 %	18 %
3,3'-Dichlorobenzidine, ug/l	<20	---	---
Dieldrin, ug/l	<50	---	---
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	43 %	4.6 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-n-octylphthalate, ug/l	<10	---	---
Endosulfan sulfate, ug/l	<100	---	---
Endrin Aldehyde, ug/l	<50	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Heptachlor, ug/l	<50	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 22

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20691-10 Lab Blank
20691-11 Accuracy - % Recovery (Mean)
20691-12 Precision - Relative % Difference

PARAMETER	20691-10	20691-11	20691-12
Heptachlor epoxide, ug/l	<50	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd)pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	78 %	9.0 %
Aroclor-1016, ug/l	<500	---	---
Aroclor-1221, ug/l	<500	---	---
Aroclor-1232, ug/l	<500	---	---
Aroclor-1242, ug/l	<500	---	---
Aroclor-1248, ug/l	<500	---	---
Aroclor-1254, ug/l	<500	---	---
Aroclor-1260, ug/l	<500	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	94 %	25 %
Toxaphene, ug/l	<1000	---	---
1,2,4-Trichlorobenzene, ug/l	<10	53 %	19 %
4-Chloro-3-methylphenol, ug/l	<10	67 %	15 %

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

114 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20691

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA-91-197 (TuTu Aquifer/4-Winds)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 23

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

20691-10 Lab Blank
20691-11 Accuracy - % Recovery (Mean)
20691-12 Precision - Relative % Difference

PARAMETER	20691-10	20691-11	20691-12
2-Chlorophenol, ug/l	<10	78 %	1.3 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Methyl-4,6-dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	31 %	13 %
Pentachlorophenol, ug/l	<50	23 %	35 %
Phenol, ug/l	<10	76 %	9.2 %
2,4,6-Trichlorophenol, ug/l	<10	---	---
Date Extracted	03.05.92	---	---
Date Analyzed	03.09.92	---	---
Hydrocarbons (Modified 8100)	---	---	---
Hydrocarbons as Heavy Oils, mg/kg	<450	---	---
Date Analyzed	03.05.92	---	---

Method References: EPA 40 CFR Part 136 and EPA SW-846.


Ivette Larralde

**14707 S. Dixie Highway, Penthouse 403
Miami, Florida 33176
Phone: (305) 252-7118 Fax: (305) 254-0874**

Page 1 of 1

PROJECT NO.		PROJECT NAME		NO. OF CONTAINERS	PARAMETERS								REMARKS				
HA-91-197		Tutu Aquifer (4-winds)			601	602	624	625	CONFIRM WASTE OIL								
SAMPLERS (Signature)																	
SAMPLE DESIGNATION	DATE	TIME	COMP.	GRAB	Sample Description (type)			NO. OF CONTAINERS									
					GROUND WATER	SURFACE WATER	SOL.										
TT-1	2-27-92	9:00			✓			3	✓	✓							MW-1
TT-2		9:19			✓			2	✓	✓							MW-4
TT-3		9:34			✓			3	✓	✓							MW-3
TT-4		9:53			✓			3	✓	✓							MW-W2
TT-5					✓			1				✓					Confirm waste oil
TT-6	2-29-92	7:45			✓			4		✓	✓						MW-2 (525 1/2 SO4 per liter)
Tutu Top Bank								3	✓	✓							
TT-2-Dup								1	✓	✓							
TT-6-Dup											✓						MW-2
SAMPLING EVENT CONTAINER RECORD		TYPE		PREPARED BY:													
		PRESERV.		DATE/TIME:													
		VOL (ML)		RECEIVED BY:													
		NO.#		DATE/TIME:													
Relinquished by:		Date / Time		Received by:				Relinquished by:				Date / Time		Received by:			
Teo Swayze		3/2/92		[Signature]				[Signature]				3/2/92 6:00		[Signature]			
Relinquished by:		Date / Time		Received by:				Relinquished by:				Date / Time		Received by:			

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

14 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20706

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA91-197 Tutu Aquifer (Split Spoons)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED	
20706-1	MW-2-SS#1 (10 ft)	02-22-92	
20706-2	MW-3-SS#1	02-23-92	
PARAMETER		20706-1	20706-2
Volatiles (8010/8020)			
Benzyl chloride, ug/kg dw		<5.0	<5.0
Bromobenzene, ug/kg dw		<5.0	<5.0
Bromodichloromethane, ug/kg dw		<5.0	<5.0
Bromoform, ug/kg dw		<25	<25
Bromomethane, ug/kg dw		<5.0	<5.0
Carbon Tetrachloride, ug/kg dw		<5.0	<5.0
Chlorobenzene, ug/kg dw		<5.0	<5.0
Chloroethane, ug/kg dw		<5.0	<5.0
Chloroform, ug/kg dw		<5.0	<5.0
1-Chlorohexane, ug/kg dw		<5.0	<5.0
2-Chloroethylvinyl Ether, ug/kg dw		<50	<50
Chloromethane, ug/kg dw		<5.0	<5.0
Chlorotoluene, ug/kg dw		<5.0	<5.0
Dibromochloromethane, ug/kg dw		<5.0	<5.0
Dibromomethane, ug/kg dw		<5.0	<5.0
1,2-Dichlorobenzene, ug/kg dw		<5.0	<5.0
1,3-Dichlorobenzene, ug/kg dw		<5.0	<5.0
1,4-Dichlorobenzene, ug/kg dw		<5.0	<5.0
Dichlorodifluoromethane, ug/kg dw		<50	<50
1,1-Dichloroethane, ug/kg dw		<5.0	<5.0
1,2-Dichloroethane, ug/kg dw		<5.0	<5.0
1,1-Dichloroethene, ug/kg dw		<5.0	<5.0

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20706

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA91-197 Tutu Aquifer (Split Spoons)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED	
20706-1	MW-2-SS#1 (10 ft)	02-22-92	
20706-2	MW-3-SS#1	02-23-92	
PARAMETER		20706-1	20706-2
Cis/trans-1,2-dichloroethylene, ug/kg dw		<5.0	<5.0
Methylene Chloride, ug/kg dw		<5.0	<5.0
1,2-Dichloropropane, ug/kg dw		<5.0	<5.0
1,3-Dichloropropylene, ug/kg dw		<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/kg dw		<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/kg dw		<5.0	<5.0
Tetrachloroethylene, ug/kg dw		<5.0	<5.0
1,1,1-Trichloroethane, ug/kg dw		<5.0	<5.0
1,1,2-Trichloroethane, ug/kg dw		<5.0	<5.0
Trichloroethene, ug/kg dw		<5.0	<5.0
Trichlorofluoromethane, ug/kg dw		<5.0	<5.0
Trichloropropane, ug/kg dw		<5.0	<5.0
Vinyl Chloride, ug/kg dw		<5.0	<5.0
Benzene, ug/kg dw		<5.0	<5.0
Ethylbenzene, ug/kg dw		<5.0	7.6
Toluene, ug/kg dw		<5.0	<5.0
Xylenes, ug/kg dw		<5.0	9.0
Methyl-tert-butyl ether (MTBE), ug/kg dw		190	<50
Date Analyzed		03.06.92	03.06.92
Method Number		8010/8020	8010/8020
Dilution factor		1	1
Percent Solids, %		86	88

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20706

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA91-197 Tutu Aquifer (Split Spoons)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED		
20706-3	MW-2-SS#1 (9 ft)	02-22-92		
20706-4	MW-2-SS#2 (14 ft)	02-22-92		
20706-5	MW-2-SS#1 (29-29.5 ft)	02-22-92		
PARAMETER		20706-3	20706-4	20706-5
Oil & Grease , mg/kg dw		630	240	<5.0
Percent Solids, %		83	87	86

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20706

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA91-197 Tutu Aquifer (Split Spoons)
Sampled By: Leo Swayze

REPORT OF RESULTS

Page 4

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

20706-6 Lab Blank
20706-7 Accuracy - % Recovery (Mean)
20706-8 Precision - Relative % Difference

PARAMETER	20706-6	20706-7	20706-8
Volatiles (8010/8020)			
Benzyl chloride, ug/kg dw	<5.0	---	---
Bromobenzene, ug/kg dw	<5.0	---	---
Bromodichloromethane, ug/kg dw	<5.0	---	---
Bromoform, ug/kg dw	<25	---	---
Bromomethane, ug/kg dw	<5.0	---	---
Carbon Tetrachloride, ug/kg dw	<5.0	---	---
Chlorobenzene, ug/kg dw	<5.0	87 %	2.3 %
Chloroethane, ug/kg dw	<5.0	---	---
Chloroform, ug/kg dw	<5.0	---	---
1-Chlorohexane, ug/kg dw	<5.0	---	---
2-Chloroethylvinyl Ether, ug/kg dw	<50	---	---
Chloromethane, ug/kg dw	<5.0	---	---
Chlorotoluene, ug/kg dw	<5.0	---	---
Dibromochloromethane, ug/kg dw	<5.0	---	---
Dibromomethane, ug/kg dw	<5.0	---	---
1,2-Dichlorobenzene, ug/kg dw	<5.0	---	---
1,3-Dichlorobenzene, ug/kg dw	<5.0	---	---
1,4-Dichlorobenzene, ug/kg dw	<5.0	---	---
Dichlorodifluoromethane, ug/kg dw	<50	---	---
1,1-Dichloroethane, ug/kg dw	<5.0	---	---
1,2-Dichloroethane, ug/kg dw	<5.0	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D2-20706

Received: 02 MAR 92

Mr. Leo Swayze
Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse #403
Miami, Florida 33176

Project: #HA91-197 Tutu Aquifer (Split Spoons)
Sampled By: Leo Swayze

REPORT OF RESULTS

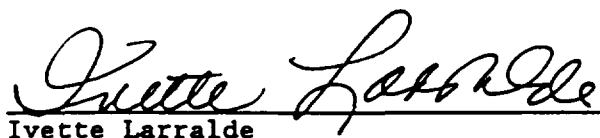
Page 5

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

20706-6 Lab Blank
20706-7 Accuracy - % Recovery (Mean)
20706-8 Precision - Relative % Difference

PARAMETER	20706-6	20706-7	20706-8
1,1-Dichloroethene, ug/kg dw	<5.0	63 %	17 %
Cis/trans-1,2-dichloroethylene, ug/kg dw	<5.0	---	---
Methylene Chloride, ug/kg dw	<5.0	---	---
1,2-Dichloropropane, ug/kg dw	<5.0	---	---
1,3-Dichloropropylene, ug/kg dw	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.0	---	---
Tetrachloroethylene, ug/kg dw	<5.0	---	---
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---
Trichloroethene, ug/kg dw	<5.0	97 %	10 %
Trichlorofluoromethane, ug/kg dw	<5.0	---	---
Trichloropropane, ug/kg dw	<5.0	---	---
Vinyl Chloride, ug/kg dw	<5.0	---	---
Benzene, ug/kg dw	<5.0	100 %	8.0 %
Ethylbenzene, ug/kg dw	<5.0	---	---
Toluene, ug/kg dw	<5.0	91 %	2.2 %
Xylenes, ug/kg dw	<5.0	---	---
Methyl-tert-butyl ether (MTBE), ug/kg dw	<5.0	---	---
Date Analyzed	03.06.92	---	---
Oil & Grease , mg/kg dw	<5.0	87 %	5.7 %

Method Reference: EPA SW-846.


Ivette Larralde

Phone: (305) 252-7118 Fax: (305) 254-0874

Page 7 of 7

[illegible]

RIO PALENQUE RESEARCH CORPORATION

12246 S.W. 131st AVENUE • MIAMI, FLORIDA 33186 • TEL. (305) 233-5789



CLIENT: Hydrologic Associates

SOURCE: Tutu Aquifer

SAMPLE DATE: 5/27/92

METHOD: EPA 601/8010

HRS Certification #E86147

SAMPLED BY: Client

SAMPLE RECEIVED IN LAB:

DATE ANALYZED: 5/29/92

ANALYST: Donna Rich

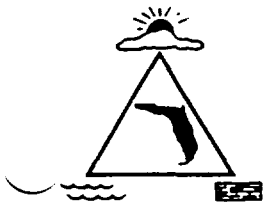
6/2/92

Donna Rich
AUTHORIZED SIGNATURE:SAMPLE #
ug/l

PURGEABLE HALOCARBONS	DL*	Log #C934 Waste Oil Well	C935 MW2	C936 MW3
Dichlorodifluoromethane	0.5	BDL	BDL	BDL
Chloromethane	0.5	BDL	BDL	BDL
Vinyl Chloride	0.5	BDL	BDL	BDL
Bromomethane	0.5	BDL	BDL	BDL
Chloroethane	0.5	BDL	BDL	BDL
Trichlorofuoromethane	0.5	BDL	BDL	BDL
1,1-dichloroethene	0.5	BDL	BDL	BDL
Methylene Chloride	0.5	BDL	BDL	BDL
Trans-1,2-dichloroethene	0.5	BDL	BDL	BDL
1,1-dichloroethane	0.5	1.1	0.9	BDL
Chloroform	0.5	BDL	BDL	BDL
1,1,1-trichloroethane	0.5	BDL	BDL	BDL
Carbon Tetrachloride	0.5	BDL	BDL	BDL
1,2-dichloroethane	0.5	BDL	BDL	BDL
Trichloroethene	0.5	BDL	BDL	BDL
1,2-dichloropropane	0.5	BDL	BDL	BDL
Bromodichloromethane	0.5	BDL	BDL	BDL
2-chloroethylvinyl ether	0.5	BDL	BDL	BDL
Cis-1,3-dichloropropene	0.5	BDL	BDL	BDL
Trans-1,3-dichloropropene	0.5	BDL	BDL	BDL
1,1,2-trichloroethane	0.5	BDL	BDL	BDL
Tetrachloroethene	0.5	BDL	BDL	BDL
Dibromochloromethane	0.5	BDL	BDL	BDL
Chlorobenzene	0.5	BDL	BDL	BDL
2-chloroethylvinyl Ether	0.5	BDL	BDL	BDL
Bromoform	0.5	BDL	BDL	BDL
1,1,2,2-tetrachloroethane	0.5	BDL	BDL	BDL
1,4-dichlorobenzene	0.5	BDL	BDL	BDL
1,3-dichlorobenzene	0.5	BDL	BDL	BDL
1,2-dichlorobenzene	0.5	BDL	BDL	BDL

*Detection Limit - ug/l

BDL - below detection level.



SPECTROANALYTICA

INCORPORATED

EXECUTIVE OFFICES
2851 S. W. 31st AVENUE
MIAMI, FLORIDA 33133
(305) 446-0060

LABORATORY
7019 S. W. 13th STREET
MIAMI, FLORIDA 33144
(305) 262-2883

June 11. 1992

TO: Rio Palenque Research, Inc.
12246 SW 131 Avenue
Miami, FL 33186

STATE OF FLORIDA
CERTIFICATION NO. E86184

=====

RE: Hydrologic Associates HA 91171
TUTU Aquifer 5/27/92 BKG

Job #881

Water

ANAL. NO.	SAMPLE NO.	Pb ppm
4546	MW2	<.03
4547	MW3	<.03
4548	Waste oil well	<.03

SPECTROANALYTICA, INC.

Max Flandorfer, Analyst
Date of Analysis June 8, 1992

**14707 S. Dixie Highway, Penthouse 403
Miami, Florida 33176
Phone: (305) 252-7118 Fax: (305) 254-0874**

Page 1 of 1

[illegible]

14707 S. Dixie Highway, Penthouse 403
Miami, Florida 33176
Phone: (305) 252-7118 Fax: (305) 254-0874

Page 1 of 1

[illegible]

APPENDIX X
SOIL RESISTIVITY ANALYSIS



Ardaman & Associates, Inc.

Consultants in Soils, Hydrogeology,
Foundations and Materials Testing

December 3, 1991
File Number 91-199

Hydrologic Associates U.S.A., Inc.
14707 S. Dixie Highway, Penthouse 403
Miami, FL 33176

Attn: Mr. Leo Swayze

Subject: Geotechnical Laboratory Testing

Gentlemen:

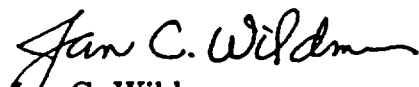
As requested, the three soil samples which we received from you were tested to determine soil resistivity.

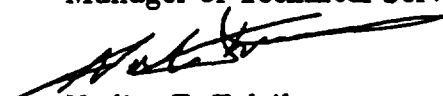
The tests were performed in accordance with ASTM G 57 using a soil box and meter. The results of the resistivity determinations are presented below:

Sample Designation	Resistivity (ohm-cm)
TA-WW-SS-SE	2,270
TA-WW-SS-WC	2,150
TA-WW-SS-NC	1,900

If you have any questions or if you require additional testing, please contact us.

Very truly yours,
ARDAMAN & ASSOCIATES, INC.


Jan C. Wildman
Manager of Technical Services


Nadim F. Fuleihan
Principal
Florida Registration No. 31953

JCW/mvt

TABLE A-3 **UNDERGROUND PREVENTIVE MAINTENANCE PROGRAM**

— FACILITY CORROSION SURVEY —

RISK GROUP CLASSIFICATION: FACILITY NUMBER: N/A
 SURVEY DATE: 11-15-91 LOCATION: WEST WINDS
 PREPARED BY: LEO J. SWAYZE

II.(A) — SOIL AGGRESSIVENESS EVALUATION:

MULTIMETER FUNCTION/RANGE	TEST		SAMPLE 1	SAMPLE 2	SAMPLE 3	AVERAGE	POINTS
KΩ	RESISTIVITY	INSTRUMENT READING:	KΩ	KΩ	KΩ	2107Ωcm	6
		READING × 1000 =	Ω	Ω	Ω		
		OHMS × 10 =	2270Ωcm	1900 Ωcm	2150Ωcm		
	PH (14-0)	INSTRUMENT READING:					
		PH	9.43	9.94	9.76	9.71	0
	MOISTURE (SATURATED/MOIST/DRY)		DRY ⁰	WET 2 (MOIST)	DAMP2 (MOIST)	4.0/3	1.3
	SULFIDE (YES/NO)		NO	NO	NO	0	0
	DIFFERENTIAL CHARACTERISTICS		RESISTIVITY RATIO (HIGH ÷ LOW)			1.19	1
			PH DIFFERENCE (HIGH - LOW)			.51	0
	SOIL AGGRESSIVENESS VALUE (SAV)						

* AGRA MARK II SOIL BOX

GENERAL

• TANKAGE

SIZE
9000

NUMBER
2

AGE
18 yr.

• ANY KNOWN LEAK HISTORY?

☒ YES
☐ NO

• ARE PRESENT STEEL TANKS PROTECTED BY A CATHODIC PROTECTION SYSTEM

☐ YES
☒ NO

$$\text{SITE SCORE} = \boxed{8.3} \times \boxed{18} = \boxed{149.4}$$

SAV AGE T/S INDEX

Phone: (305) 252-7118 Fax: (305) 254-0874

Page 1 of 1[illegible]

Lu Lu

SECTION 8: PREDICTABILITY ANALYSIS OF TANK CONDITION

At this time there are essentially two methods of applying soil analysis data to assess the probability of tank leak. These are the compilation of the Soil Aggressiveness Value (SAV) and the estimation of tank life from the Rogers' Regression Equation.

Soil Aggressiveness Value (SAV)

Soil aggressiveness values are a basis for comparing soil environments. When data on actual leaking tanks is compared to a graph where SAV is plotted against tank age, different ranges of SAV and age can be established to indicate conditions of high versus low probability of a leak occurring. Three elements constitute the SAV numerical total. These are:

- I) basic characteristics which include soil resistivity, soil pH and soil moisture
- II) differential characteristics which are the ratio of extreme values obtained at any one site of resistivity and pH — and
- III) sulphides, either present or not present (see ref. Environment Canada Report EE 14 A-1).

Points from a predetermined scale are applied to each factor which when added together gives the SAV. While the weighting points are not empirically derived, they are based on field experience of leaking tanks and expected tank life within the industry.

Multiplying the SAV score by the tank age gives the T/S index. At least one major integrated oil company in Canada has based its tank upgrading programme on the following decision criteria using the T/S index. If the index is greater than 180, then underground storage tanks are recommended for replacement. For T/S values between 69 and 180, tanks are leak tested and either replaced or cathodically protected with an impressed current system. Below the 69 level, and below a SAV reading of 4, soil is considered 'benign' and tanks will not experience significant corrosion before reaching a T/S index of 69. Above an SAV of 4 and below a T/S index of 69, tanks should be cathodically protected with an impressed current system. This tank evaluation procedure is shown in the attached graph (Figure A-1).

While a close fit between a high versus a low probability of tank failure may be found using SAV scores for a large sample of sites, the T/S index does not give a complete correlation. Evaluation of the environmental risk (i.e. the possible consequential damage that could be caused by a leak) is recommended in all cases to supplement the decision making process. A simple subjective classification can be found in Environment Canada Report EE-14 (A-2), but this can become more sophisticated depending on the need.

Rogers' Regression Analysis

This statistical analysis undertaken by Warren Rogers for API, aims at establishing whether the ages at which tank leaks occur are related to measureable characteristics of the tank environment. Sample data obtained from industry from which the formula was developed indicated leaks at tank ages from a low of 5 years to a high of 45. The analysis using soil data of resistivity, moisture, pH and sulphides, together with tank size, has resulted in a mathematical formula which explains approximately 75% of the variability in the actual tank life experienced from the industry data.

In addition, it is claimed that the statistical properties of the remaining 25% unexplained variability are such that reliable estimates of the probability of leak at any given time can now be made.

The equation can be stated as:

$$\text{Mean Age to Leak} = 5.75 \times R^{.05} \times S^{-.017} \times \exp(-.12\text{ph} - .42\text{M} - .26\text{Su})$$

where R = resistivity (ohm-cm.) pH = acidity/alkalinity Su = sulphides
S = tank size (Imperial Gallons) M = moisture

This means that within a standard deviation range of ± 2.5 years of the 'mean' tank life, the probability of a tank leak is 68%. The probability of a leak at any given time is the actual age minus the mean age to leak divided by 2.5 with the resulting ratio used with a standard normal distribution table of probabilities.

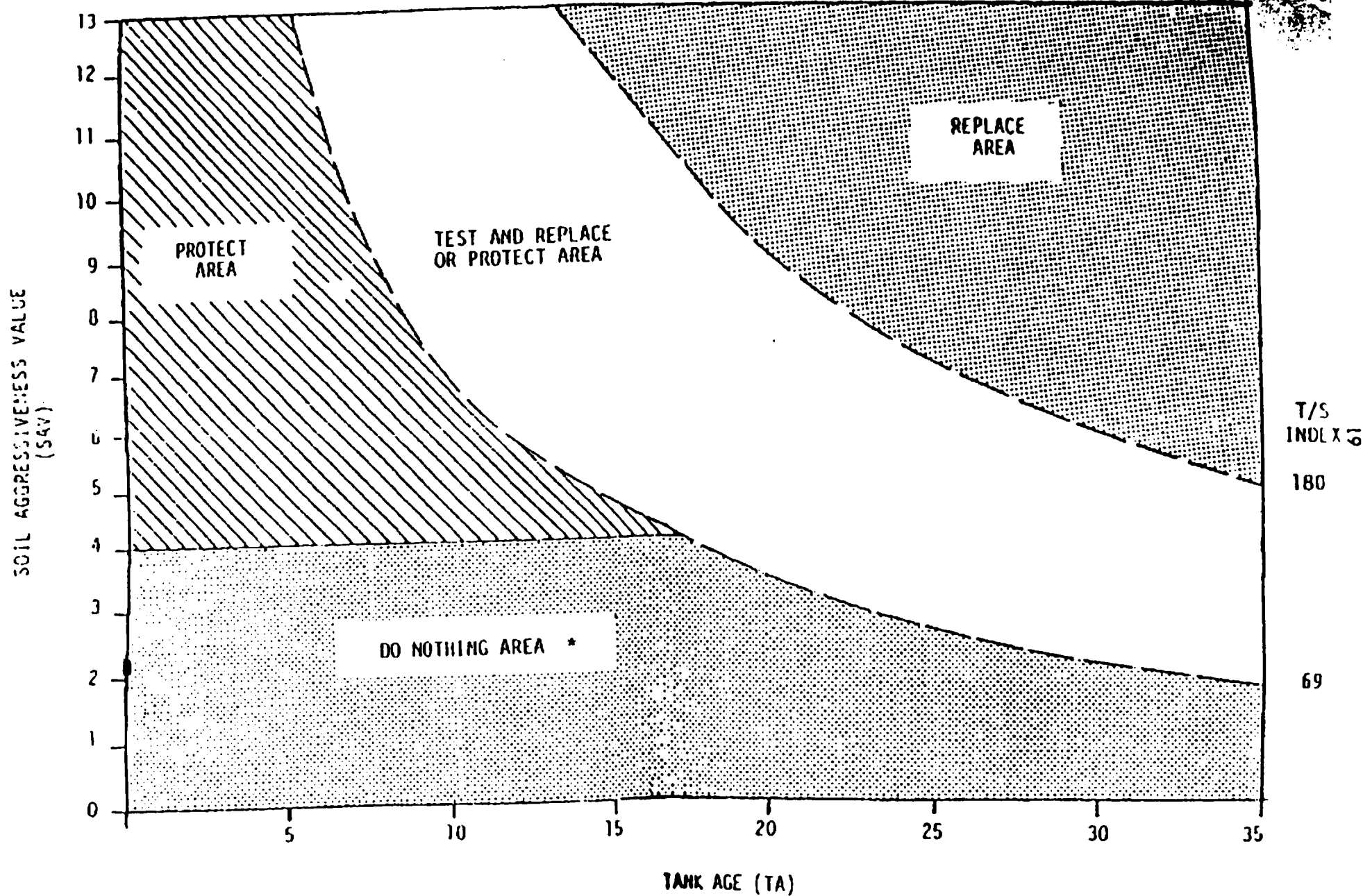
The equation is most sensitive to changes in moisture, followed by sulphides, pH and resistivity, as shown in the attached chart. Originally, values recommended in the Rogers' report were for moisture: either 1 if saturated, or 0; and for sulphides either 1 if present or 0. However, in recent (November 1981) unpublished work completed by BP Canada, a three point rating system was used. The rating system for moisture was saturated 1, damp 0.5, dry 0 and for sulphides was strongly present 1, trace 0.5 and no presence 0. This helped reduce the generally low estimated tank life predictions previously obtained (usually maximum life of 12 years) and further separate different sites in terms of expected life and therefore risk of leak. A summary of the unpublished BP Canada findings (attached) shows that the average estimated life of underground tanks at 227 sites in Quebec and Ontario soil sampled in 1981 was 14.9 years, with a low of 9.4 and a high of 23.8 years. This compares with variously quoted industry averages of tank life of 17-19 years.

As the Rogers' equation is further used, its reliability is likely to be improved with quantification of variables and comparison with actual leaking tanks. Additional work is also being carried out by Rogers to develop a predictive model for internal corrosion and incorporate all data analysis into a decision tree model to optimize management decision making required for any comprehensive upgrading programme. This is expected to be particularly valuable in allocating capital totalling many millions of dollars over a likely time-span of up to ten years.

References:

1. Environment Canada Report EE-14 'Evaluation & Prevention of Corrosion Leaks on Buried Storage Tanks'
2. 'Statistical Analysis of Time to Leak of Buried Gasoline Storage Tanks'
prepared by Warren Rogers Associates Incorporated for the American Petroleum Institute
3. Unpublished 1981 data on use of Rogers' equation by BP Canada

FIGURE A-1 - TANK EVALUATION GRAPH



* environmental risk evaluation must be done.

SENSITIVITY OF ROGERS' EQUATION

$$\text{Mean Age to Leak} = 5.75 \times R^{.03} \times S^{.017} \times \text{EXP}(-.12PH - .42M - 26.3U)$$

DATA

RESISTIVITY (R)	10,000 OHM-CM	MOISTURE (M) .5
TANK SIZE (S)	5000 IG	SULPHIDES (SU).5
PH	8	

MEAN AGE TO LEAK 14.66 YRS

IF	YEARS	CHANGE (Years)
PH 9	MEAN AGE TO LEAK 16.53	+ 1.87
PH 7	MEAN AGE TO LEAK 13.00	- 1.66
MOISTURE 0	MEAN AGE TO LEAK 18.08	+ 3.42
MOISTURE 1	MEAN AGE TO LEAK 11.88	- 2.78
SULPHIDE 0	MEAN AGE TO LEAK 16.69	+ 2.03
SULPHIDE 1	MEAN AGE TO LEAK 12.87	- 1.79
RESISTIVITY 60K OHM-CM	MEAN AGE TO LEAK 16.03	+ 1.37
RESISTIVITY 20K OHM-CM	MEAN AGE TO LEAK 15.17	+ .51
RESISTIVITY 5K OHM-CM	MEAN AGE TO LEAK 14.16	- .5

RESISTIVITY & PH MEASURED FINITELY

MOISTURE AND SULPHIDES PRESENCE DETECTED BUT NOT QUANTIFIED

OVERALL SOIL DATA & ROGERS' EST. TANK LIFE

RESISTIVITY OHM-CM	> 10,000	5,000- 10,000	3,000- 5,000	< 3,000	TOTAL
NO. OF SITES	98	49	51	29	227
PH (RANGE)	6.7-9.2	6.9-8.3	7.1-8.6	6.8-8.9	
MOISTURE (MOST COMMON)	.5	→			
SULPHIDES (MOST COMMON)	.5	→			
MEAN AGE TO LEAK ROGERS' ESTIMATED RANGE IN YEARS	10.9-23.8	11.7-17.1	10.5-17.5	9.4-17.3	
AVG. OF MEAN AGES	16.0	14.7	13.6	13.5	

AVERAGE OF ALL MEAN AGES 14.9 YEARS.

Unpublished 1981 data of BP Canada

**TABLE A-2
ENVIRONMENTAL RISK EVALUATION**

CLASSIFICATION	ENVIRONMENTAL RISK
A	High risk — Facilities at which tank leaks could cause the greatest hazard to life or to the environment. Locations in the vicinity of basements, subways or tunnels or those adjacent to navigable waterways or streams are examples.
B	Moderate — These are sites where any tank leaks would present a moderate potential of hazard to human life and property and no damage to the environment.
C	Low — These will generally be remote facilities where a tank leak would cause no particular hazard to life, property, or no damage to the environment.

References:

- Environment Canada Publication EE-14 "Evaluation and Prevention of Corrosion Leaks on Buried Storage Tanks"

TABLE A-1
BASIS FOR THE EVALUATION OF UNDERGROUND ENVIRONMENTS (S.A.V. Systems)

I BASIC CHARACTERISTICS		POINTS
• Soil Resistivity	< 300	12
	300 - 1,000	10
	1,000 - 2,000	8
	2,000 - 5,000	6
	5,000 - 10,000	3
	10,000 - 25,000	1
	> 25,000	0
• Soil pH	< 3	8
	3 - 5	6
	5 - 6.5	4
	6.5 - 7.5	2
	7.5 - 9	1
	> 9	0
• Soil Moisture	Saturated	3
	Damp	2
	Dry	0
II DIFFERENTIAL CHARACTERISTICS		
• Resistivity (ratio of extremes)	> 1:10	3
	> 1: 5	2
	> 1: 3	1
	< 1: 3	0
	3	2
Soil pH (Difference in pH Value)	1.5 - 3	1
	0 - 1.5	0
III SULFIDES		
	Positive	4
	Negative	0

TABLE A-3 **UNDERGROUND PREVENTIVE MAINTENANCE PROGRAM**

— FACILITY CORROSION SURVEY —

RISK GROUP CLASSIFICATION: FACILITY NUMBER:

SURVEY DATE: LOCATION:

PREPARED BY:

II.(A) — SOIL AGGRESSIVENESS EVALUATION:

MULTIMETER FUNCTION/RANGE	TEST		SAMPLE 1	SAMPLE 2	SAMPLE 3	AVERAGE	POINTS
KΩ	RESISTIVITY	INSTRUMENT READING:	KΩ	KΩ	KΩ	Ωcm	
		READING × 1000 =	Ω	Ω	Ω		
		OHMS × 10 =	Ωcm	Ωcm	Ωcm		
	PH (14-0)	INSTRUMENT READING:					
		PH					
	MOISTURE (SATURATED/MOIST/DRY)						
	SULFIDE (YES/NO)						
	DIFFERENTIAL CHARACTERISTICS	RESISTIVITY RATIO (HIGH ÷ LOW)					
		PH DIFFERENCE (HIGH - LOW)					
	SOIL AGGRESSIVENESS VALUE (SAV)						

* AGRA MARK II SOIL BOX

GENERAL

- TANKAGE

SIZE

NUMBER

AGE

- ANY KNOWN LEAK HISTORY? ☐ YES
☐ NO

- ARE PRESENT STEEL TANKS PROTECTED BY A CATHODIC PROTECTION SYSTEM ☐ YES
☐ NO

$$\text{SITE SCORE} = \boxed{} \times \boxed{} = \boxed{}$$

SAV AGE T/S INDEX