

**RCRA Final Permit Required
Quarterly Progress Report
Period August 1, 2000 - October 31, 2000
RCRA/HSWA Permit No. PR2170027203**

**Naval Station Roosevelt Roads
RCRA/HSWA Permit No. PR2170027203
Ceiba, Puerto Rico**



Prepared For
Department of the Navy
Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia

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LIST OF ATTACHMENTS

- 1 Tow Way Fuel Farm - Quarterly Summary Progress Report No. 15
(August 1, 2000 - October 31, 2000), Naval Station Roosevelt Roads

- 2 U.S. Custom Boat House Project Description and Site Plan
SWMU 7, Naval Station Roosevelt Roads

INTRODUCTION

This quarterly report is comprised of the following separate sections:

1. Work Completed - A description of activities conducted, pursuant to the provisions of the Corrective Action portion of the Final Permit, during the reporting period.
2. Summary of Findings - A brief summary of corrective action related findings developed during the reporting period.
3. Summary of Changes - A brief summary of any changes made in the corrective action program.
4. Community Relations Summary - A brief summary of any contacts made with the local community or interested groups during the reporting period.
5. Problems Encountered/Response Taken - A brief summary of problems or conditions that caused a response to be made in the corrective action program.
6. Personnel Changes - Personnel changes made during the period.
7. Planned Work - A list of tasks planned for the next period.

Each section includes a separate list of contents and separate attachments as necessary and appropriate.

SECTION 1
WORK COMPLETED

Work was performed on a number of tasks related to the corrective action portion of Roosevelt Road's RCRA operating permit. Tasks which were commenced, worked on, or completed this period, August 1, 2000 - October 31, 2000 include:

- ! Work continued on the updating of Roosevelt Roads RCRA Corrective Action Program website.
- ! The Corrective Measures Study for Operable Unit (OU) 2 continued.
- ! Submitted Draft Sampling and Analysis Plan for SWMUs 53 and 54 on August 4, 2000.
- ! Submitted Revised Final II Corrective Measures Study (CMS) Final Report for SWMU 13 and SWMU 46/AOC C on August 4, 2000.
- ! Joint Interest Group (JIG) meeting was held August 8 and 9, 2000 in Tampa, Florida at CH2M Hill's office.
- ! Submitted Draft Corrective Measures Investigation (CMI) Work Plan for SWMU 31/32 on August 14, 2000.
- ! Submitted on August 22, 2000 responses to EPA comments of July 5, 2000 dealing with the Draft Human Health Risk Assessment for SWMU 14, and the Draft CMS Final Report for SWMU 6/AOC B.
- ! The TWFF Quarterly Summary Progress Report No. 14 (May 1, 2000 - July 31, 2000) on free product recovery was submitted on August 31, 2000 and the next one was started.
- ! Submitted the Roosevelt Roads RCRA Final Permit Required Quarterly Progress Report for the period May 1, 2000 - July 31, 2000 on August 31, 2000.

- ! Received EPA comments dated September 15, 2000 on September 19, 2000 from the USEPA Region II, in regards to the Revised Final CMS Final Report for SWMU 13 and SWMU 46/AOC C transmitted on August 4, 2000, by Baker Environmental, Inc. The Revised Final CMS Final Report for SWMU 13, 46/AOC C was approved by the EPA. The EPA also provided comments on the Draft Remedial Design Package for SWMU 13 and SWMU 46/AOC C, dated July 10, 2000; the Revised CMS Work Plan for SWMUs 1, 2, and 45, dated July 14, 2000, and the Draft CMS Work Plan for SWMU 9, dated July 14, 2000.

- ! A JIG monthly conference call was held on September 19, 2000 at 2:00 PM EST.

- ! A conference call was conducted on September 27, 2000 at 1:30 PM EST to discuss the EPA and BAH comments (dated September 15, 2000) on the Draft CMS Work Plan for SWMU 9.

- ! Submitted the final meeting minutes from the JIG monthly conference call held on September 19, 2000, on September 28, 2000.

- ! On October 10, 2000 the Navy provided Draft Responses to the EPA comments dated 9/15/00 on the Draft CMS Work Plan for SWMU 9. These responses reflected the decision made during the 9/27/00 conference call.

- ! Received EPA comments dated October 10, 2000 on October 16, 2000 from the USEPA Region II, in regards to the Sampling and Analysis Plan for new SWMUs 53 and 54 transmitted on August 4, 2000, by Baker Environmental, Inc. which the EPA approved. The EPA also provided comments on the Navy's response to EPA's comments on the CMS Task 1 Report for TWFF dated June 29, 2000.

- ! A conference call was conducted on October 16, 2000 at 1:30 PM EST to discuss the Navy draft responses to EPA comments (dated 9/15/00) submitted October 10, 2000.

- ! A JIG monthly conference call was held on October 16, 2000 at 2:00 PM EST.

- ! Submitted on October 19, 2000 responses to EPA comments of September 15, 2000 dealing with the Revised Final II CMS Work Plans for SWMUs 1 and 2, and SWMU 45.
- ! Submitted the final meeting minutes from the JIG monthly conference call held on October 16, 2000, on October 25, 2000.
- ! On October 20, 2000 the Navy provided the EPA a listing of chemicals to be evaluated for SWMU 9 as discussed during the October 16, 2000 conference call.
- ! On October 24, 2000 the EPA commented on the site related chemicals for SWMU 9.
- ! On October 27, 2000 the Navy provided responses to the EPA comments dated October 24, 2000 on the site related chemicals for SWMU 9.
- ! On October 31, 2000 the EPA commented on the Navy responses dated October 27, 2000 on the site related chemicals for SWMU 9.
- ! Submitted Draft Pilot Test to Evaluate Enhancement of Product Recovery Report for TWFF SWMU 7/8 on October 31, 2000.

Each of these items is discussed in detail in the numbered sections which follow.

1. Corrective Action Activities Status

Table 1-1 (provided at the end of this section) provides a brief update of Corrective Action activities for each SWMU or AOC. This table was first used as part of a presentation made at the October 1997 JIG meeting. The group decided that the table would be a valuable addition to the quarterly report. The table has been updated and included in this report as a result of the JIG decision.

2. Reporting Activities

Baker provided response to EPA's comments pertaining to the Draft Human Health Risk Assessment for SWMU 14, as well as the Draft CMS Final Report for SWMU 6/AOC B. Baker also provided response to EPA's comments pertaining to the Revised Final CMS Work Plans for SWMUs 1 and 2, and SWMU 45.

3. Tow Way Fuel Farm

There were efforts undertaken at the Tow Way in three general areas. Each of these areas is discussed below.

Free Product Recovery Program

The free product recovery system continued to be off-line this quarter due to the current pneumatic fracturing pilot study. The measurement reports for this period are provided in the quarterly Tow Way report.

The fifteenth quarterly ICM progress report for the Tow Way free product recovery system is provided as Attachment 1 to this RCRA quarterly report. This report contains a table listing all product and groundwater levels and groundwater elevation and product thickness contours. This change in reporting was agreed to by all members of the JIG during the August 2000 meeting.

Tow Way Fuel Farm Pilot Studies

The PF pilot study was completed on August 28, 2000. The Draft Pilot Test to Evaluate Enhancement of Product Recovery Report for the Tow Way Fuel Farm was submitted on October 31, 2000.

Corrective Measures Study

The initial CMS Task I report for the Tow Way was submitted November 30, 1998. EPA comments were received March 15, 1999 (March 8 letter). Based on the comments, an addendum report was provided April 21, 1999 which significantly revised the clean up levels. Comments on the revised

Section 3.0 (the clean-up goal development section) were transmitted in an EPA letter of June 30, 1999. The clean-up goals were revised and the Revised Draft CMS Task I Report for the TWFF was submitted January 21, 2000. Comments on the Revised Draft CMS Task I Report for the TWFF were issued on May 4, 2000. A response to these comments were submitted on June 29, 2000. Comments on the Navy's response to EPA's comments dealing with the CMS Task 1 Report for the TWFF were issued October 10, 2000.

4. Joint Interest Group

A JIG meeting was held on August 8 and 9, 2000, in Tampa, Florida.

5. Site Management Plan (SMP)/Website Development

Work continued on updating the Roosevelt Roads RCRA Corrective Action Program website. This internet available resource contains program reports, schedules, and other project information. The website is password protected to limit access to the JIG members. The website is currently up and running, and is continuing to be updated.

6. Corrective Measure Studies (other than the Tow Way)

Comments on the streamlined CMS for SWMU 13 and SWMU 46/AOC C were received in an EPA letter dated July 27, 1999. Response to these comments along with the Final CMS Report was submitted on September 30, 1999. Comments on the Draft Final CMS Final Report for SWMU 13 and SWMU 46/AOC C were received in an EPA letter dated December 10, 1999. A response to EPA comments was submitted January 13, 2000. The Revised Final CMS Final Report for SWMU 13 and SWMU 46/AOC C was submitted on January 26, 2000. Comments on this report were received in an EPA letter dated March 15, 2000. Response to these comments were submitted in a Navy letter on May 30, 2000. The Draft CMI Design Package for SWMUs 13 and 46/AOC C were submitted on July 10, 2000. The Revised Final II CMS Final Report for SWMU 13 and SWMU 46/AOC C was submitted on August 4, 2000. Comments on this report and the Draft Remedial Design Package, were received in an EPA letter dated September 15, 2000. The CMS stage of the investigation has now been approved.

Draft CMS Work Plans for SWMUs 1 and 2 and SWMU 45 were submitted on April 1, 1999. Comments on the work plans were received in an EPA letter dated August 11, 1999. The Final CMS Work Plans for SWMUs 1 and 2, and SWMU 45 were submitted on October 29, 1999. Comments on these work plans were received in an EPA letter dated January 20, 2000. A conference call discussing these comments was conducted on February 10, 2000. Response to these comments were submitted in a Navy letter on February 23, 2000. The Revised Final CMS Work Plans for SWMUs 1 and 2, and SWMU 45 were submitted on March 10, 2000. Comments on the work plans were received in an EPA letter dated May 4, 2000. Response to these comments were submitted in a Navy letter on July 13, 2000. The Revised Final II CMS Work Plans for SWMUs 1 and 2, and SWMU 45 were submitted on July 14, 2000. Comments on this report were received in an EPA letter dated September 15, 2000. Response to these comments were submitted in a Navy letter on October 19, 2000.

A Draft CMS Work Plan for SWMU 6/AOC B was submitted on January 7, 2000 in response to the EPA comment letter dated November 5, 1999. The Draft CMS Work Plan for SWMU 6/AOC B was approved in an EPA letter dated March 15, 2000. Response to these comments were submitted in a Navy letter on May 30, 2000. The Draft CMS Final Report for SWMU 6/AOC B was submitted on May 30, 2000. Comments on the report were received in an EPA letter dated July 5, 2000. Response to these comments were submitted in a Navy letter on August 22, 2000.

A Draft CMS Work Plan for SWMU 9 was submitted on July 14, 2000 in response to the EPA comment letter dated May 4, 2000. Comments on this work plan were received in an EPA letter dated September 15, 2000. A conference call was conducted on September 27, 2000 at 1:30 PM EST to discuss the EPA and BAH comments (dated September 15, 2000) on the Draft CMS Work Plan for SWMU 9. A conference call was conducted on October 16, 2000 at 1:30 PM EST to discuss the Navy draft responses to EPA comments (dated 9/15/00) submitted October 10, 2000. On October 20, 2000 the Navy provided the EPA a listing of chemicals to be evaluated for SWMU 9 as discussed during the October 16, 2000 conference call. On October 24, 2000 the EPA commented on the site related chemicals for SWMU 9. On October 27, 2000 the Navy provided responses to the EPA comments dated October 24, 2000 on the site related chemicals for SWMU 9. On October 31, 2000 the EPA commented on the Navy responses dated October 27, 2000 on the site related chemicals for SWMU 9.

A Draft CMS Final Report for SWMU 31/32 was submitted on January 28, 2000. Comments on the report were received in an EPA letter dated March 15, 2000. Response to these comments were submitted in a Navy letter on May 30, 2000. The Final CMS Final Report for SWMU 31/32 was submitted on April 17, 2000. Comments and approval of the report were received in an EPA letter dated May 4, 2000. A Draft CMI Work Plan for SWMU 31/32 was submitted on August 14, 2000.

7. Investigations

No investigations were conducted during the reporting period.

TABLE 1-1

**ROOSEVELT ROADS CORRECTIVE ACTION PROGRAM
SWMU/AOC STATUS
NOVEMBER 30, 2000**

SWMU or Area of Concern	RFI Type	Status
#1 Former Cremator Disposal Site	Full ⁽¹⁾	Investigations complete. Report submitted 3/20/98. Comments received. Revision of the RFI report was submitted 4/1/99. CMS outline submitted 4/1/99. Final CMS Work Plan submitted 10/29/99. Comments received. Response to comments submitted 2/23/00. Revised Final CMS Work Plan submitted 3/10/00. Comments received. Response to comments submitted 7/13/00. Revised Final II CMS Work Plan submitted 7/14/00. Comments received. Response to comments submitted 10/19/00.
#2 Langley Drive Disposal Site	Full	Investigations complete. Report submitted 3/20/98. Comments received. Revision of the RFI report was submitted 4/1/99. CMS outline submitted 4/1/99. Final CMS Work Plan submitted 10/29/99. Comments received. Response to comments submitted 2/23/00. Revised Final CMS Work Plan submitted 3/10/00. Comments received. Response to comments submitted 7/13/00. Revised Final II CMS Work Plan submitted 7/14/00. Comments received. Response to comments submitted 10/19/00.
#3 Base Landfill	Full	Investigations need to be done. Schedule to be negotiated based on Navy funding. Two wells installed and sampled to meet solid waste requirements. Analytical work and validation complete. Geophysics portion of SWMU 3 RFI was completed in June 1999. Work Plan being developed.
#6 Building 145	First Phase ⁽²⁾	RFI complete - Report of additional investigations submitted 5/6/98. Comments received 9/15/98 and revised risk assessment submitted 11/24/98. Comments received 11/9/99. Draft CMS Work Plan submitted January 7, 2000. Comments received 3/15/00. Responses and Draft CMS Final Report submitted 5/30/00. Comments received. Response to comments submitted 8/22/00.
#7 Tow Way Fuel Farm	Full	RFI complete. Revised draft report submitted and approved; additional investigations required as part of CMS work plan; CMS underway. CMS field investigations performed April 1998. CleanOX® pilot study performed January 1999. ICM was postponed, but associated monitoring continued. Draft TCE Investigation Report submitted 12/10/99. Comments received on the Draft TCE Investigation Report. Addressed comments on the Draft CMS Task I Report. Revised Draft CMS Task I Report submitted January 21, 2000. Final TCE Investigation Report submitted 2/15/00. PF pilot study underway. Comments received in regards to the Revised Draft CMS Task I Report. Response to comments submitted 6/29/00. Comments received 10/10/00 in regards to the Navy's response to EPA comment letter 6/29/00. Draft Pilot Test to Evaluate Enhancement of Product Recovery Report for TWFF SWMU 7/8 submitted 10/31/00.
#8 Tow Way Fuel Farm - Disposal Pits	Full	Now combined with SWMU 7.
#9 Tank 212-217 Sludge Burial Pits	Full	Additional investigations performed. RFI report submitted 3/6/98. Comments received. Work plan for an additional field effort submitted and approved. Investigations performed in June 1999. Revised Draft RFI Report submitted March 10, 2000. Comments received. Response to comments submitted 7/13/00. Draft CMS Work Plan submitted 7/14/00. Comments received.
#10 Substation 2/Building 90	First Phase	Groundwater sampling performed. Report submitted 5/6/98. No comments. No further action anticipated. March 7, 2000 EPA requested CMS to be included in Part B permit renewal application for no further action.

TABLE 1-1 (Continued)

**ROOSEVELT ROADS CORRECTIVE ACTION PROGRAM
SWMU/AOC STATUS
NOVEMBER 30, 2000**

SWMU or Area of Concern	RFI Type	Status
#11 Old Power Plant/Building 38	Full	RFI complete; investigations for tunnel soils performed. Report submitted 3/20/98. ICM for PCB-contaminated soil complete. Bldg. interior additional characterization depends on result of EPA review of data and recharacterization work plan submitted 3/31/98.
#12 Fire Training Pit Oil/Water Separator	First Phase	RFI complete. No further action to be proposed in Part B permit renewal application.
#13 Old Pest Control Shop/Building 258	First Phase	Additional characterization performed. Report submitted 5/6/98. CMS outline submitted 12/98. Streamlined CMS submitted 4/1/99. Comments received in July 27, 1999 letter. Responses and Final CMS submitted 10/8/99. Comments received and addressed. Revised Final CMS submitted January 26, 2000. Revised Final CMS approved 3/15/00. Response to comments submitted May 30, 2000. Draft CMI Design Package submitted 7/10/00. Revised Final II CMS Final Report submitted 8/4/00. Comments received on the Revised Final II CMS, as well as the Draft CMI Design Package.
#14 Fire Training Pit Area	First Phase	RFI complete. Human Health Risk Assessment Report was submitted February 4, 2000. Comments received. Response to comments submitted 8/22/00.
#19 Building 121 - Discarded Pesticide Storage Area	Contingent	RCRA closure approved by EPA - no further action.
#23 Oil Spill Separator Tanks	First Phase	RFI complete. No comments. No further action proposed in Part B permit renewal application.
#24 Oil Spill Oil/Water Separator & Adjoining Pad	First Phase	RFI complete. No comments. No further action proposed in Part B permit renewal application.
#25 DRMO Storage Yard	First Phase	Further action deferred to permitted unit site closure.
#26 Building 544 Area	First Phase	RFI complete. No further action to be proposed in Part B permit renewal application.
#30 Former Incinerator	First Phase	RFI complete. Based on recent EPA comments, additional characterization was required. A work plan for this was submitted and approved. Investigatory work performed in June 1999. Draft Phase II RFI Report submitted December 10, 1999. Comments received. Responses and Final Phase II RFI Report submitted February 15, 2000.
#31 Waste Oil Collection Area/Building 31 and 2022	First Phase	Additional investigation performed. Report submitted 5/6/98. EPA comments indicate the need for a CMS. CMS outline submitted 12/98. CMS was started; however, additional investigatory work was required. Work plan was submitted in June 1999 and was approved by EPA. Field investigations were performed in June 1999. Draft CMS Final Report submitted January 28, 2000. Comments received Final CMS Final Report submitted April 17, 2000. Comments received. Response to comments submitted May 30, 2000. Draft CMI Work Plan submitted 8/14/00.
#32 PWD Storage Yard/Battery Collection Area	First Phase	[See SWMU 31]
#37 Waste Oil Storage Area/Building 200	First Phase	RFI complete. No further action was recommended by the Navy in the RCRA permit renewal application.
#39 Building 3158/Former Battery Drain Area	First Phase	RFI complete. No comments. No further action was recommended by the Navy in the RCRA permit renewal application.

TABLE 1-1 (Continued)

ROOSEVELT ROADS CORRECTIVE ACTION PROGRAM
SWMU/AOC STATUS
NOVEMBER 30, 2000

SWMU or Area of Concern	RFI Type	Status
#45 PCB Spill Area/Old Power Plant	Full	Additional investigation (on tunnel soils) performed. Report submitted 3/20/98. ICM which included cleaning and backfilling of USTs and filling the tunnels with concrete is complete. CMS for Puerca Bay sediments is planned. CMS Outline submitted 4/1/99. Final CMS Work Plan submitted 10/29/99. Comments received. Response to comments submitted 2/23/00. Revised Final CMS Work Plan submitted 3/10/00. Comments received. Response to comments submitted 7/13/00. Revised Final II CMS Work Plan submitted 7/14/00. Comments received. Response to comments submitted 10/19/00.
#46 Pole Storage Yard Covered Pad	First Phase	Additional investigation performed. Report submitted 5/6/98. Combined with AOC C for CMS. CMS outline submitted 12/98. Streamlined CMS submitted 5/99. Comments were received in July 27, 1999 EPA letter. Responses and Final CMS submitted 10/8/99. Comments received and addressed. Revised Final CMS submitted January 26, 2000. CMS approved 3/15/00. Response to comments submitted May 30, 2000. Draft CMI Design Package submitted 7/10/00. Revised Final II CMS Final Report submitted 8/4/00. Comments received on the Revised Final II CMS, as well as the Draft CMI Design Package.
#51 New AIMD Storage Pad/Building 379	First Phase	RFI complete. No comments. no further action was recommended by the Navy in the RCRA permit renewal application.
#53 Malaria Control Building/Building 64	First Phase	Sampling and Analysis Plan submitted 8/4/00. Work Plan approved.
#54 Former NEX Repair/Maintenance Shop/Building 1914	First Phase	Sampling and Analysis Plan submitted 8/4/00. Work Plan approved.
AOC B/Building 25	Full	RFI complete. Additional investigations performed. Report submitted 5/6/98. Comments received 9/15/98. Responses and revised risk assessment submitted 11/24/98. Comment received 11/9/99. Draft CMS Work Plan submitted January 7, 2000. Comments received 3/15/00. Responses and Draft CMS Final Report submitted 5/30/00. Comments received. Response to comments submitted 8/22/00.
AOC C/Transformer Storage Pad	First Phase	Additional investigations performed to recharacterize site after inadvertent soil removal activity. Report submitted 5/6/98. Comments received. CMS to be performed. CMS outline submitted 12/98. Streamlined CMS submitted 5/99. Comments were received in July 27, 1999 EPA letter. Responses and Final CMS submitted 10/8/99. Comments received and addressed. Revised Final CMS submitted January 26, 2000. CMS approved 3/15/00. Response to comments submitted May 30, 2000. Draft CMI Design Package submitted 7/10/00. Revised Final II CMS Final Report submitted 8/4/00. Comments received on the Revised Final II CMS, as well as the Draft CMI Design Package.
AOC D/Ensenada Honda Sediments	First Phase	Additional investigations (consisting of one sediment sample) performed. Report submitted 5/6/98. Comments received. Responses submitted 12/1/98. EPA approved responses. AOC D proposed for no further action in the RCRA Part B permit renewal application.

Notes:

- (1) Full RFIs are conducted where releases were established during previous investigations. The purpose of the full RFI is to determine the nature, rate, direction, and extent of hazardous waste or hazardous constituents.
- (2) The purpose of the first phase RFI is to confirm any releases from these SWMUs and/or AOCs.

SECTION 2
SUMMARY OF FINDINGS

The following reports were submitted during this period:

- ! Draft Sampling and Analysis Plan for SWMUs 53 and 54, Naval Station Roosevelt Roads, PR (August 4, 2000).

- ! Revised Final II CMS Final Report for SWMU 13 and SWMU 46/AOC C, Naval Station Roosevelt Roads, PR (August 4, 2000).

- ! Draft CMI Work Plan for SWMU 31/32, Naval Station Roosevelt Roads, PR (August 14, 2000).

- ! TWFF Quarterly Summary Progress Report No. 14 for the Product Recovery System (August 31, 2000).

- ! RCRA Final Permit Required Quarterly Progress Report for the period May 1, 2000 - July 31, 2000 (August 31, 2000).

- ! Draft Pilot Test to Evaluate Enhancement of Product Recovery Report for TWFF SWMU 7/8, Naval Station Roosevelt Roads, PR (October 31, 2000).

SECTION 3
SUMMARY OF CHANGES

No significant changes were made to the Corrective Action Program at Roosevelt Roads during this reporting period.

SECTION 4
COMMUNITY RELATIONS SUMMARY

No formal community relations activities were undertaken during this period by the Navy.

SECTION 5
PROBLEMS ENCOUNTERED/RESPONSE TAKEN

There were no significant problems encountered and no responses taken during this period related to the corrective action program.

SECTION 6
PERSONNEL CHANGES

There was one significant change related to program personnel during this period. Captain John R. Warnecke became the new Commanding Officer at NSRR effective October 12, 2000.

SECTION 7
PLANNED WORK

The following work items associated with the RCRA Corrective Action Program at NSRR are planned for the upcoming reporting period:

- ! Revisions to reports and response to comment letters as needs dictate.
- ! Maintain schedule currentness through ongoing revision.
- ! Continue analysis of engineering alternatives for the TWFF as part of the CMS effort.
- ! Continue updating the program website.
- ! Continue updating the NSRR GIS system.
- ! Conduct monthly conference calls.
- ! Execute contractual items for future work.
- ! Next JIG meeting is tentatively scheduled for February 2001.
- ! Submittal of the Final CMI Design Package for SWMUs 13 and 46/AOC C.
- ! Submittal of the Draft Final CMS Work Plan for SWMU 9.
- ! Submittal of the Draft Interim decision Document for SWMU 14.
- ! Submittal of the Revised Draft CMS Final Report for SWMU 6/AOC B.
- ! Initiate the field work at SWMUs 53, 54, 9, and 3.
- ! U.S. Custom Service will construct a building at the lower TWFF (SWMU 7). The Project Description and Site Plan are presented in Attachment 2.

ATTACHMENT 1
TOW WAY FUEL FARM - QUARTERLY SUMMARY
PROGRESS REPORT NO. 15 (August 1, 2000 - October 31, 2000)
NAVAL STATION ROOSEVELT ROADS

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	Ground Elevation	WELL RISER	Reference Point	01/28/97		02/25/97		04/21/97		05/22/97		06/17/97	
	ft NGVD + 100 ft	HEIGHT IN FT	Elevation	Product	Water								
UGW-1	114.81	1.76	116.57	12.55	14.91	12.9	15.3	12.5	14.9	13.66	16.22	13.73	16.35
UGW-2	160.53	1.58	162.11	54.73	54.73	54.73	54.73	54.74	54.74	56	56.18	56.15	56.42
UGW-3	123.24	1.97	125.21	19.61	25.71	19.8	25.76	19.63	25.79	20.94	20.94	21.37	21.37
UGW-4	119.24	1.42	120.66	14.69	26	14.71	26.02	14.7	26.02	16	25.82	16.18	25.89
UGW-5	114.54	2.01	116.55	10.48	12.83	8.2	8.5	12.41	12.82	13.82	14.17	13.88	14.25
UGW-6	109.75	1.75	111.50			8.11	8.24	10.23	10.23	10.4	10.4	10.47	10.47
UGW-7	108.38	1.66	110.04	7.65	7.65	7.55	7.55	8.33	8.33	8.7	8.7	8.78	8.78
UGW-8	108.59	1.65	110.24	7.56	7.56	7.54	7.54	9.04	9.04	9.14	9.14	9.26	9.26
UGW-9	109.69	-0.24	109.45	7.65	7.65	7.64	7.64	9.7	9.7				
UGW-10	109.13	1.60	110.73	9.35	9.35	9.34	9.34	9.75	9.75			10.09	10.09
UGW-11	108.03	1.61	109.64	8.85	8.85	8.86	8.86	9.1	9.1			9.18	9.18
UGW-12	112.67	1.55	114.22	9.61	18.8	9.6	18.6	10.36	18.95	10.8	19.29	11	19.37
UGW-13	112.11	1.47	113.58	10.23	17.9	10.23	17.8	10.3	18	11.64	17.8	11.62	18.2
UGW-14	118.18	1.41	119.59	15.9	15.9	15.88	15.88	15.85	15.85	16.9	16.9	17.04	17.04
UGW-15	110.83	1.69	112.52	11.73	11.73	11.7	11.7	11.92	11.92	11.45	14.37	11.58	13.99
UGW-16	112.25	1.58	113.83	12.38	12.38	12.37	12.37	12.62	12.62	12.93	12.93	12.96	12.96
UGW-17	110.93	1.69	112.62	9.94	14.74	9.92	14.74	10	14.7	11	15.05	11.16	15.34
UGW-18	113.02	1.53	114.55	12.77	12.77	12.5	12.5	12.7	12.7	13.38	13.38	13.44	13.44
UGW-19	111.02	1.45	112.47	10.25	14	10.19	13.93	10.32	14.02			12.12	12.12
UGW-20	109.73	2.41	112.14	11.61	11.61	11.57	11.57	11.82	11.82	11.96	11.96	11.97	11.97
UGW-20R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UGW-21	111.15	2.26	113.41	11.74	13.89	11.69	13.83	12.28	14.28	12.53	14.27	12.59	14.37
UGW-22	113.10	-2.80	110.30	5.34	5.34	5.6	5.6	6.64	6.64	6.68	6.68	7.91	7.91
UGW-23	166.97	2.41	169.38	64.57	64.57	64.5	64.5	64.6	64.6	65.79	65.79	66.03	66.03
UGW-24	176.96	2.04	179.00	74.95	74.95	74.95	74.95	74.97	74.97	75.25	75.25	75.67	75.67
UGW-25	151.65	2.52	154.17	49.38	50.96	49.38	50.49	49.4	50.96	50.58	52.4	50.92	52.9
UGW-26	111.09	-0.30	110.79	8.3	8.3	8.27	8.27	8.73	8.73				
PW-1	113.78	1.60	115.38	9.1	9.1	9	9	9.07	9.07	12.44	12.56	12.55	12.69
PW-2	113.46	2.23	115.69	11.24	12.1	11.3	12	11.2	12.08	12.21	13.42	12.46	13.83
PW-3	115.14	2.19	117.33	13.28	16.95	13.33	17.55	13.3	17	13.79	19.75	13.81	20.2
PW-4	113.51	2.14	115.65	11.84	13.58	11.84	13.58	11.87	13.62	12.8	15.18	12.76	15.74
PW-5	114.90	2.52	117.42	13.03	18.13	12.96	18.75	13.01	18.1	13.57	20.6	13.63	20.88
PW-6	115.48	2.21	117.69	12.28	23	12.33	23.26	12.3	22.97	13.44	23.45	13.53	23.45
MW-1	113.69	2.25	115.94	11.2	11.2	11	11	11.18	11.18	11.25	11.25	11.3	11.3
MW-2	113.56	2.00	115.56	10.85	10.85	10.5	10.5	10.9	10.9	11.96	12.13	12.65	12.94

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	Ground Elevation	WELL RISER	Reference Point	01/28/97		02/25/97		04/21/97		05/22/97		06/17/97	
	ft NGVD + 100 ft	HEIGHT IN FT	Elevation	Product	Water								
MW-3	115.21	2.01	117.22	13.46	15.73	13.6	16.1	13.5	15.75	14.34	17.5	14.37	17.68
MW-4	114.35	2.21	116.56	9.8	12.1	10.9	13.2	9.85	12.17	11.55	13.68	12.72	15.12
RW-1	121.25	-0.70	120.55	15.22	23.32	16.65	19.63	16.36	22.35	16.53	23.94	16.72	24.15
RW-2	118.85	-0.84	118.01	12.03	12.93	14.3	14.75	14.8	15.19	12.58	14.01	15.27	15.36
RW-3	(see UGW-22)			5.34	5.34	5.6	5.6	6.64	6.64	6.68	6.68	7.91	7.91
RW-4	111.96	-0.87	111.09	8.6	9.17	8.8	8.8	9.94	10.7	8.97	12.07	9.65	9.75
RW-5	111.87	-1.52	110.35	8.29	8.55	8.7	9.25	8.87	11.1	8.47	14.11	9.4	10.55
RW-6	111.45	-1.63	109.82	8.09	8.26	8.5	8.67	8.9	9.1	9.22	9.44	9.23	9.44
RW-7	111.22	-2.63	108.59	6.6	9.12	7.35	7.72	7.46	10.13	7.62	10.24	8.07	8.76
RW-8	111.50	-1.61	109.89	8.49	8.8	8.8	9.05	9.22	9.24	9.41	9.64	9.35	10.18
GW-01	108.94	2.58	111.52										
GW-02	112.06	1.88	113.94										
GW-03	111.39	2.01	113.40										
GW-04	111.00	2.06	113.06										
GW-05	108.75	(clogged)		Debris in well		Debris in well		Debris in well		Debris in well		Debris in well	
GW-06	108.90	2.05	110.95										
470-MW1	130.13	3.01	133.14										
470-MW3	120.63	2.52	123.15										
7MW-01A	125.78	2.63	128.41										
7MW-02A	145.59	2.91	148.50										
7MW-03	176.98	2.33	179.31										
7MW-04	180.62	1.94	182.56										
7MW-05	112.14	1.99	114.13										
7MW-06	108.45	-0.20	108.25										
7MW-07	113.32	2.03	115.35										
7MW-08	111.58	-0.25	111.33										
7MW-09	159.16	2.18	161.34										
Trench MW			109.82										

TABLE 1
MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO

Well Number	06/30/97		07/30/97		09/03/97		09/26/97		10/30/97		11/25/97	
	Product	Water										
UGW-1	13.65	16.24	13.25	15.8	13.31	16.24	13.44	16.13	10.35	13.06	11.45	14.22
UGW-2	56.32	56.63	56.14	56.41	56.18	56.8	56.7	57.05	54.9	55.02	54.35	54.35
UGW-3	21.5	21.5	21.8	26.83	21.57	26.87	22	27.05	19.9	23.95	18.84	23.85
UGW-4	16.2	25.92	16.2	25.61	15.43	25.53	16.14	25.52	11.83	21.58	13.63	23.29
UGW-5	13.91	14.27	13.59	13.78	12.8	13.8	13.17	13.41	10.64	10.69	11.67	11.77
UGW-6	10.38	10.38	10.09	10.09	10	10	10.15	10.15	9	9	9.53	9.53
UGW-7	8.73	8.73	8.52	8.52	8.29	8.29	8.45	8.45	7	7	7.6	7.6
UGW-8	9.25	9.25	9.15	9.15	8.98	8.98	8.96	8.96	7.75	7.75	8.23	8.23
UGW-9	NA	NA			8.18	8.18	8.15	8.15	6.8	6.8	7.51	7.51
UGW-10	9.98	9.98	9.74	9.74	9.74	9.74	9.75	9.75	9.27	9.27	9.71	9.71
UGW-11	9.1	9.1	8.91	8.91	8.85	8.85	8.9	8.9	8.61	8.61	8.83	8.83
UGW-12	10.88	19.23	10.84	19.06	10.49	19.1	10.55	18.5	7.8	18.18	9	18.25
UGW-13	11.58	17.92	11	18.4	10.54	18.5	10.55	16.91	9.19	19.31	10.41	17.71
UGW-14	17.05	17.05	16.94	16.94	16.97	16.97	16.95	16.95	12.96	12.96	14.61	14.61
UGW-15	11.43	13.97	11.87	11.87	14.74	14.74	11.85	11.85	10.69	10.69	11.25	11.25
UGW-16	12.9	12.9	12.72	12.72	12.65	12.65	12.62	12.62	11.84	11.84	11.28	11.28
UGW-17	11.02	15.05	10.54	15.24	10.53	15.53	10.35	14.84	8.94	15.45	9.51	16.3
UGW-18	13.43	13.43	13.25	13.25	13.18	13.18	13.13	13.13	11.93	11.93	12.54	12.54
UGW-19	12.1	12.1	11.15	13.57	8.75	13.7	11.06	13.73	10.1	10.43	10.7	12.63
UGW-20	11.92	11.92	11.56	11.56	14.6	14.6	11.6	11.6	10.78	10.78	11.33	11.33
UGW-20R	NA	NA										
UGW-21	12.46	14.39	12.16	14.2	11.3	14.4	12.21	14.38	11.4	13.52	11.87	13.95
UGW-22	7.14	7.14	6.56	6.56	5.58	5.59			4.8	4.8	4.62	4.62
UGW-23	66.1	66.1	66.04	66.04	66.11	66.11	66.2	66.2	59.45	59.45	62.4	62.4
UGW-24	75.82	75.82	76.1	76.1	75.82	75.82	76.31	76.31	74.97	74.97	74.35	74.35
UGW-25	51.1	53.12	51.25	53.19	51.2	54.1	51.45	53.62	49.24	51.06	49.2	50.97
UGW-26	9.14	9.14	8.92	8.92	8.88	8.88	8.85	8.85	7.28	7.28	7.98	7.98
PW-1	12.58	12.65	12.6	12.67	9.9	10.25	12.55	12.62	9.29	10.06	9.39	9.5
PW-2	12.37	13.7	12.08	13.17	11.82	13.3	10.36	11.38	9.64	10.27	9.3	9.9
PW-3	13.83	20.4	13.46	20.44	13.27	21.25	13.41	21.03	10.15	18.9	11.25	20.37
PW-4	12.71	15.35	12.47	15.14	12.31	15.79	12.4	15.52	9.57	12.93	10.63	14
PW-5	13.58	20.93	13.34	20.74	12.17	20.12	13.32	21.1	10.18	18.35	11.35	19.75
PW-6	13.61	23.39	13.33	23.16	13.29	23.4	13.39	23.18	9.67	22.85	11.95	23.81
MW-1	10.72	10.72	10.24	10.24	11.82	12.92	9.84	9.84	8.47	8.47	8.75	8.75
MW-2	12.12	12.42	11.79	11.82	11.41	12.01	12.4	13.21	9.3	9.3	8.75	8.75

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	06/30/97		07/30/97		09/03/97		09/26/97		10/30/97		11/25/97	
	Product	Water										
MW-3	14.33	17.69	14.2	17.89	13.8	18.1	13.92	18.13	10.98	15.2	12.04	16.53
MW-4	11.84	14.26	11.49	13.43	11.01	13.41	9.24	11.71	6.6	9.92	7.82	10.78
RW-1	16.75	24.13	16.7	23.88	16.42	24.2	16.63	24.18	13.37	14.2	14.72	17.6
RW-2	14.255	14.72	13	13	12.94	12.94			10.85	10.85		
RW-3	7.14	7.14	6.56	6.56	5.58	5.59			4.8	4.8	4.62	4.62
RW-4	9.42	9.95	9.3	9.31	9.19	9.4			7.7	7.7	8.1	8.1
RW-5	8.69	13.11	9.1	9.22	9.15	10.1			7.78	7.98	8.43	8.5
RW-6	9.19	9.42	8.82	8.82	8.2	9.29	7.7	7.7	7.56	7.56	8.28	8.28
RW-7	7.7	9.69	7.69	7.69	7.4	9.5	7.51	8.45	6.56	6.82	7.2	7.2
RW-8	8.93	11.42	9.06	9.19	9.2	11.45	9.06	9.25	8.32	8.36	8.7	8.7
GW-01					12.31	12.31	11.97	11.97	9.83	9.83	9.99	9.99
GW-02	11.92	11.92	11.8	11.8	11.7	11.7	11.68	11.68	9.51	9.51	10.32	10.32
GW-03	11.59	11.59	11.58	11.58	11.32	11.32	11.27	11.27	9.51	9.51	10.23	10.23
GW-04	9.42	9.72	9.07	9.13	8.73	9.28	9.42	9.71	8.14	8.44	8.27	8.45
GW-05	Debris in well											
GW-06	9.87	9.87	9.79	9.79	9.61	9.61	9.69	9.69	8.86	8.86	9.27	9.27
470-MW1												
470-MW3												
7MW-01A					26.35	26.35	26.33	26.33	24.11	24.11	24.95	24.95
7MW-02A	45.45	45.45	45.4	45.4	45.5	45.5	45.45	45.45	38.05	38.05	41.65	41.65
7MW-03	74.07	74.07	74.25	74.25	74.56	74.56	74.42	74.42	70.66	70.66	71.4	71.4
7MW-04	79.82	79.82	80.05	80.05	80.03	80.03	80.29	80.29	78.5	78.5	78.12	78.12
7MW-05									13.73	13.73		
7MW-06									7.1	7.1	7.53	7.53
7MW-07									13.73	13.73	14.06	14.06
7MW-08									9.97	9.97	10.47	10.47
7MW-09									52	52	54.82	54.82
Trench MW												

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	12/23/97		01/26/98		02/25/98		03/24/98		04/29/98		06/03/98		07/07/98	
	Product	Water	Product	Water	Product	Water								
UGW-1	10.97	13.69	11.45	14.25	12.00	14.80	12.80	15.59	12.56	15.31	12.83	15.60	12.97	15.75
UGW-2	53.44	53.45	53.61	53.61	53.93	53.93	54.45	54.49	55.32	55.48	55.70	56.12	56.10	56.62
UGW-3	19.3	23.6	19.25	23.30	19.47	23.44	19.95	23.90	20.48	22.52	20.51	22.53	20.33	22.33
UGW-4	13.01	22.6	13.66	23.89	14.39	24.60	15.04	25.25	17.25	17.30	17.32	17.33	17.43	17.46
UGW-5	11.52	11.74	12.00	12.20	12.59	12.80	13.09	13.15	13.17	13.17	13.24	13.40	13.53	13.74
UGW-6	9.38	9.38	9.50	9.50	9.74	9.74	9.98	9.98	9.98	9.98	9.96	9.96	9.96	9.96
UGW-7	7.39	7.39	7.37	7.37	7.81	7.81	8.23	8.23	8.11	8.11	8.17	8.17	8.16	8.16
UGW-8	8.13	8.13	8.10	8.10	8.34	8.34	8.71	8.71	8.65	8.65	8.68	8.68	8.68	8.68
UGW-9	7.4	7.4	7.50	7.50	7.72	7.72	8.05	8.05	8.11	8.11	8.15	8.15	8.23	8.23
UGW-10	9.63	9.63	9.54	9.54	9.74	9.74	10.01	10.01	8.99	8.99	9.84	9.84	9.84	9.84
UGW-11	8.74	8.74	8.75	8.75	8.85	8.85	9.03	9.03			8.94	8.94	8.97	8.97
UGW-12	8.68	17.86	9.17	18.03	9.71	18.18	10.21	18.40	10.28	18.40	10.43	18.17	10.58	18.33
UGW-13	10.06	17.49	10.37	17.85	10.88	12.75	11.25	17.70	10.98	17.92	11.03	13.29	11.53	18.28
UGW-14	13.98	13.98	14.70	14.70	15.40	15.40	15.43	15.43	16.30	16.30	16.48	16.48	16.49	16.49
UGW-15	11.22	11.22	11.29	11.29	11.48	11.48	11.70	11.70	11.76	11.76	11.72	11.72	11.75	11.75
UGW-16	12.13	12.13	12.27	12.27	12.43	12.43	12.67	12.67	12.65	12.65	12.16	12.16	12.72	12.72
UGW-17	9.11	16.42	9.40	17.10	9.78	17.30	10.33	16.33	10.93	13.01	10.98	13.26	11.03	13.56
UGW-18	12.4	12.4	12.55	12.55	12.82	12.82	13.07	13.07	13.09	13.09	13.11	13.11	13.15	13.15
UGW-19	10.23	11.31	10.83	12.47	11.00	13.12	11.20	13.45	11.09	12.72	11.10	13.57	11.21	13.53
UGW-20	11.27	11.27	11.29	11.29	11.46	11.46	11.67	11.67	11.72	11.72	Well destroyed		Well destroyed	
UGW-20R	NA	NA	NA	NA	NA	NA								
UGW-21	11.5	13.7	11.76	14.78	11.95	14.32	11.97	14.36	12.09	14.30	12.04	14.30	12.12	14.26
UGW-22	4.16	4.16	5.95	5.95	6.45	6.45	6.95	6.95	7.80	7.80	7.13	7.13	7.40	7.40
UGW-23	61.1	61.1	62.55	62.55	63.62	63.62	64.48	64.48	65.08	65.08	65.30	65.30	65.50	65.50
UGW-24	73.78	73.78	73.60	73.60	73.65	73.65	74.00	74.00	74.12	74.14	74.20	74.20	74.19	74.19
UGW-25	48.68	50.3	48.63	50.14	48.86	50.42	49.25	50.91	49.48	51.52	49.49	51.23	49.30	51.05
UGW-26	7.8	7.8	8.00	8.00	8.30	8.30	8.65	8.65	8.78	8.78	8.78	8.78	8.83	8.83
PW-1	9.86	10.65	9.41	9.52	9.37	9.53	9.35	9.54	10.41	10.41	10.72	10.72	11.20	11.20
PW-2	9.64	10.36	10.77	11.50	11.30	12.05	11.76	12.56	11.84	12.70	12.00	12.87	12.17	13.14
PW-3	10.69	20.45	11.20	21.15	11.73	21.53	12.32	22.09	12.42	22.27	12.48	22.33	12.58	22.42
PW-4	10.12	13.59	10.64	14.19	11.14	14.76	11.65	15.31	11.75	15.52	11.88	15.61	11.86	15.75
PW-5	10.75	19.6	11.25	20.22	11.80	20.75	12.42	21.27	12.60	21.48	12.66	21.58	12.78	21.70
PW-6	10.5	23.7	11.16	23.60	11.83	23.50	12.50	23.42	12.70	23.38	12.78	23.35	12.93	22.32
MW-1	8.75	8.75	19.71	19.71	9.63	9.63	10.34	10.34	11.70	12.56	11.88	12.00	12.03	13.17
MW-2	9.13	9.13	10.50	10.50	11.00	11.00	11.53	11.53	11.45	11.52	11.70	11.78	11.98	12.10

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	12/23/97		01/26/98		02/25/98		03/24/98		04/29/98		06/03/98		07/07/98	
	Product	Water												
MW-3	11.53	16.16	12.00	17.03	12.45	17.87	13.05	18.40	13.05	18.91	13.14	19.15	13.21	19.41
MW-4	5.62	8.86	7.52	10.44	8.48	10.93	11.17	13.14	10.52	11.03	10.61	11.14	11.16	11.88
RW-1	14.4	15.42	14.97	18.10	15.51	20.14	15.78	21.67	15.84	22.32	15.88	22.45	16.08	23.24
RW-2			12.30	12.30	13.05	13.05	13.80	13.90	13.71	13.93	13.60	13.60	14.32	14.69
RW-3	4.16	4.16	5.95	5.95	6.45	6.45	6.95	6.95	7.80	7.80	7.13	7.13	7.40	7.40
RW-4	7.58	7.58	8.09	8.09	8.50	8.50	8.30	8.30	8.90	8.90	7.70	7.70	9.03	9.05
RW-5	8.03	8.14	8.40	8.60	8.80	9.18	8.68	11.23	8.40	10.82	8.41	10.81	8.57	10.98
RW-6	7.9	7.9	8.23	8.23	8.52	8.52	8.85	8.85	9.56	9.56	8.91	8.91	8.90	8.90
RW-7	6.65	6.65	7.10	7.12	7.50	7.50	7.65	7.65	7.38	7.41	7.52	7.52	7.71	7.71
RW-8	8.34	8.34	8.70	8.70	8.90	9.02	8.91	10.98	8.24	11.65	8.40	11.77	9.32	12.86
GW-01											10.1	10.11	10.10	10.12
GW-02	10	10							11.24	11.24	11.25	11.25	11.37	11.37
GW-03	9.98	9.98							11.09	11.09	11.08	11.08	11.21	11.21
GW-04	8.4	8.68							8.94	8.94	8.8	8.82	9.19	9.21
GW-05	Debris in well													
GW-06	9.17	9.17							9.69	9.69	9.65	9.65	9.72	9.72
470-MW1									29.89	29.98	29.81	29.92	30.90	31.13
470-MW3									20.64	20.64	20.66	20.66	20.73	20.73
7MW-01A	20.31	20.31			25.36	25.36	25.76	25.76	25.90	25.90	27.92	27.92	25.99	25.99
7MW-02A	40.37	40.37			42.95	42.95	43.87	43.87	44.39	44.39	44.61	44.61	44.14	44.14
7MW-03									72.99	72.99	73.44	73.44	73.82	73.82
7MW-04											78.26	78.26	78.18	78.18
7MW-05											12.4	12.4	12.53	12.53
7MW-06	7.48	7.48			7.57	7.57	7.77	7.77			7.71	7.71	7.75	7.75
7MW-07	13.73	13.73			14.23	14.23			14.06	14.06				
7MW-08	10.15	10.15			10.75	10.75	10.69	10.69			10.92	10.92	10.88	10.88
7MW-09	53.63	53.63					56.75	56.75	57.32	57.32	57.79	57.79	57.67	57.67
Trench MW														

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	08/12/98		11/16/98		12/09/98		01/25/99		02/23/99		03/29/99	
	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water
UGW-1	13.80	14.41	8.75	10.15	7.50	8.89	9.65	11.35	11.43	13.11	12.13	13.87
UGW-2	56.48	57.10	51.85	51.85	49.88	49.88	49.28	49.28	50.17	50.17	51.27	51.28
UGW-3	20.9	21.47	18.25	18.80	16.84	17.40			blocked			
UGW-4	17.8	17.82	12.66	12.67	10.22	10.23	11.95	11.95	15.47	15.47	16.32	16.32
UGW-5	14.00	14.34	10.20	10.45	9.21	9.45	11.40	11.70	12.25	12.45	12.80	12.99
UGW-6	10.10	10.10	6.90	6.90	8.60	8.60	9.25	9.25	9.76	9.76	9.99	9.99
UGW-7	8.37	8.40	6.20	6.20	6.35	6.35	8.70	8.70	7.10	7.10	8.98	8.98
UGW-8	9.75	9.76	6.90	6.90	6.80	6.80	7.46	7.46	8.05	8.05	8.42	8.43
UGW-9	8.30	8.32	6.40	6.40	5.85	5.85	7.10	7.11	0.00	0.00	7.97	7.98
UGW-10	10.00	10.00	9.00	9.00	9.87	9.87	9.65	9.65	9.02	9.02	10.06	10.07
UGW-11	9.00	9.00	8.65	8.65	8.55	8.55	8.82	8.82	9.97	9.97	9.14	9.15
UGW-12	10.92	18.50	7.20	16.90	5.60	16.85	8.24	16.90	9.40	17.41	9.94	17.60
UGW-13	11.46	18.25	8.25	19.20	7.40	19.70	9.70	18.50	10.64	18.06	10.80	17.85
UGW-14	16.85	16.86	11.95	11.95	9.58	9.59	11.17	11.17	14.85	14.85	15.44	15.44
UGW-15	11.82	11.84	8.10	8.10	10.34	10.34	11.12	11.12	11.47	11.47	11.75	11.75
UGW-16	11.25	11.25	10.45	10.45	11.23	11.23	12.00	12.00	12.42	12.42	12.56	12.57
UGW-17	11.46	12.85	8.25	12.10	7.38	14.20	9.11	18.80	9.92	16.08	10.20	15.40
UGW-18	13.33	13.33	11.60	11.60	10.96	10.96	12.08	12.08	12.62	12.62	12.92	12.92
UGW-19	11.45	13.65	8.45	9.81	8.60	9.97	10.15	11.32	11.00	12.25	11.00	11.50
UGW-20	Well destroyed		Well destroyed		Well destroyed				Replaced w/ UGW-20R			
UGW-20R	NA	NA	NA	NA	NA	NA	NA	NA	8.52	8.52	8.69	8.70
UGW-21	12.27	14.30	10.10	13.00	10.07	12.70	11.38	14.28	12.11	14.25	11.94	14.31
UGW-22	8.17	8.17	3.30	3.30	2.21	2.21	4.40	4.40	6.15	6.15	6.88	6.88
UGW-23	65.90	65.90	57.25	57.25	51.76	51.76	59.51	59.51	61.90	61.90	63.25	63.26
UGW-24	74.56	74.56	72.30	72.30	71.05	71.05	70.35	70.35	70.94	70.94	71.24	71.24
UGW-25	49.58	51.40	6.70	6.70	6.35	6.35			blocked			
UGW-26	9.00	9.00					7.75	7.75	8.10	8.10	8.53	8.53
PW-1	12.35	13.50			7.46	7.46			9.52	9.52	10.12	10.12
PW-2	12.42	13.50	8.40	9.70	7.46	9.05	9.50	11.15	10.74	12.45	10.30	12.96
PW-3	13.50	21.21	8.82	18.35	7.30	17.18	11.50	12.35	12.65	13.55	13.40	14.30
PW-4	10.33	10.51	flooded		4.27	4.27	overflow		pump		clogged	
PW-5	13.55	20.25	9.23	16.60	7.83	15.20	11.28	12.40	12.63	13.92	13.35	14.64
PW-6	12.10	13.23	9.75	9.75	9.83	9.83	9.20	9.30	pump		11.16	11.21
MW-1	11.75	11.76	8.00	8.00	7.16	8.45	9.60	11.05	10.51	10.85	10.10	12.40
MW-2	12.25	12.42	8.30	8.30	7.68	7.68	9.50	9.50	10.66	10.66	11.11	11.11

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	08/12/98		11/16/98		12/09/98		01/25/99		02/23/99		03/29/99	
	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water
MW-3							11.60	12.35			9.75	10.47
MW-4	12.35	12.90	4.00	5.20	4.44	5.68	4.40	5.70	8.25	9.15	8.83	9.49
RW-1			12.00	12.05	8.74	8.74			blocked		blocked	
RW-2	14.82	15.25	1.00	1.00	1.15	1.15	7.20	7.20	12.01	12.01	13.54	13.54
RW-3	8.17	8.17	3.30	3.30	2.21	2.21	4.40	4.40	6.15	6.15	6.68	6.68
RW-4	8.62	8.62	4.95	4.95	2.35	2.35	5.10	5.10	7.77	7.77	7.95	7.95
RW-5	8.60	13.20	6.60	6.65	5.06	5.07	7.90	8.00	8.80	9.10	9.00	9.38
RW-6	9.08	9.10	3.55	3.97	2.33	2.35	6.85	6.85	8.75	8.75	8.69	8.69
RW-7	7.63	9.00	5.00	5.40	3.30	3.45	6.30	6.65	7.10	7.20	6.95	7.03
RW-8			7.20	7.30	6.40	6.40	8.25	8.27	8.90	8.90	9.15	9.23
GW-01									not found			
GW-02	11.67	11.67	8.88	8.88	7.99	7.99	9.60	9.60	10.33	10.33	10.85	10.85
GW-03	11.47	11.47			8.17	8.18	9.65	9.65	10.50	10.50	10.76	10.77
GW-04	9.15	9.37	8.12	8.20	7.53	7.59	8.87	8.87	7.99	8.05	8.33	8.39
GW-05	Debris in well		Debris in well		Debris in well							
GW-06			8.60	8.60	8.34	8.34	8.98	8.98	9.36	9.36	9.59	9.60
470-MW1	30.90	31.13			24.84	25.04	27.62	27.81	28.59	28.89		
470-MW3	20.73	20.73			17.20	17.20	18.92	18.92	19.70	19.70	20.20	20.20
7MW-01A	26.27	26.30	23.45	23.45	22.40	22.40					24.49	24.49
7MW-02A	45.21	45.21	37.10	37.10	31.99	31.99			41.47	41.47	42.80	42.80
7MW-03	74.25	74.25	68.05	68.05	65.47	65.47	66.51	66.51	67.87	67.87	69.18	69.18
7MW-04	78.48	78.48	75.95	75.95	74.76	74.76	74.87	74.87	74.98	74.98	75.87	75.87
7MW-05	12.75	12.75			9.87	9.87	11.21	11.21	11.80	11.80	12.15	12.16
7MW-06	7.75	7.75	6.90	6.90	6.72	6.72	7.43	7.43	7.70	7.70	7.84	7.85
7MW-07			12.85	12.85					14.29	14.29	14.25	14.25
7MW-08									10.80	10.80	10.90	10.90
7MW-09			50.61	50.61	46.37	46.37	52.35	52.35	54.53	54.53	55.75	55.75
Trench MW												

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	04/27/99		05/21/99		06/29/99		07/29/99		08/30/99		09/29/99		10/27/99	
	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water
UGW-1	12.39	14.12	12.49	14.20	12.66	14.43	12.65	14.45	13.28	13.29	9.55	9.60	4.80	5.10
UGW-2	52.18	52.19	53.66	53.66	54.30	54.30	55.00	55.20	55.44	55.95	54.20	54.85	52.85	52.85
UGW-3			20.54	20.54			19.50	25.40	20.51	21.15	19.20	19.92	19.03	19.60
UGW-4	16.60	16.61	14.10	14.10	17.05	17.05	17.13	17.13	17.30	17.30	14.00	14.00	12.90	12.90
UGW-5	12.88	13.08	12.47	12.55	12.68	12.74	12.77	12.95	11.11	11.11			10.20	10.35
UGW-6	10.10	10.10	10.07	10.07	10.05	10.05	8.86	8.86	9.15	9.15	8.15	8.15	8.70	8.70
UGW-7	8.30	8.30	8.44	8.44	8.30	8.30	7.94	7.94	7.00	7.00	6.85	6.85	6.17	6.17
UGW-8	8.48	8.49	8.65	8.65	8.45	8.45	8.15	8.15	7.30	7.30	6.92	6.92	8.50	8.50
UGW-9	8.06	8.06	8.15	8.15	7.98	7.98	8.00	8.00	7.32	7.32	6.60	6.60	5.00	5.00
UGW-10	10.11	10.11	10.00	10.00	9.92	9.92	7.94	7.94	8.94	8.94	6.68	6.68	8.25	8.25
UGW-11	9.16	9.16	9.07	9.07	9.06	9.06	8.95	8.95	8.57	8.57	7.15	7.15	8.70	8.70
UGW-12	10.10	17.88	10.09	17.90	10.81	16.67	10.98	16.96	11.62	12.36	8.00	16.85	7.55	17.30
UGW-13	10.97	17.92	9.92	20.19	10.90	17.10	10.87	17.87	10.30	10.35	8.00	19.38	8.45	8.95
UGW-14	15.73	15.73	16.05	16.05	16.16	16.16	16.20	16.20	9.46	9.46	14.45	14.45	12.18	12.18
UGW-15	11.81	11.81	11.86	11.86	11.75	11.75	11.70	11.70	11.23	11.23	9.90	9.90	10.82	10.82
UGW-16	12.65	12.65	12.58	12.58	12.64	12.64	12.50	12.50	11.68	11.68	10.15	10.15	11.60	11.60
UGW-17	10.33	15.50	9.46	16.81	10.01	18.92	9.87	17.10	9.27	9.27	8.55	11.05	8.77	11.85
UGW-18	12.99	12.99	12.98	12.98	13.01	13.01	12.90	12.90	damaged		10.24	10.24	11.60	11.60
UGW-19	10.85	11.34	10.87	11.76	10.82	12.02	11.10	12.55	9.80	9.80	8.00	8.20	9.40	9.72
UGW-20	Replaced w/ UGW-20R													
UGW-20R	8.78	8.78	8.63	8.63	8.62	8.62	8.23	8.23	7.90	7.90	8.05	8.05	10.30	10.30
UGW-21	12.07	14.30	11.60	14.27	9.51	17.20	11.91	14.28	10.15	10.55	10.02	11.30	10.80	12.16
UGW-22	7.10	7.11	7.56	7.56	5.43	5.43	5.94	5.94	1.34	1.34			3.45	3.45
UGW-23	62.24	62.24	64.64	64.64	64.77	64.77	65.02	65.02	64.98	64.98	58.30	58.30	57.65	57.65
UGW-24	72.41	72.41	73.39	73.39	73.76	73.76	74.10	74.10	74.38	74.38	73.15	73.15	72.14	72.15
UGW-25					49.00	50.35	49.23	50.75	49.25	50.70	48.90	50.40	46.85	48.05
UGW-26	8.53	8.53	10.05	10.05	8.65	8.65	8.45	8.45	8.05	8.05	8.10	8.10	6.25	6.25
PW-1	10.35	10.35	8.98	8.98	9.56	9.56	9.66	9.66	6.70	6.70	6.65	6.65	7.70	7.70
PW-2	11.94	11.94	11.20	12.82	11.51	13.30	11.60	13.42	10.62	10.65	8.54	9.25	8.60	9.35
PW-3	7.10	7.11	13.67	16.02	14.00	14.16	13.92	14.12	13.27	13.29	10.45	10.55	6.70	6.80
PW-4	clogged		clogged		clogged		clogged		damaged		damaged		damaged	
PW-5	13.83	14.13	14.15	14.43	13.95	14.25	13.92	14.25	13.45	13.50	10.36	10.45	10.22	10.30
PW-6	11.45	11.51	11.28	11.48	11.60	11.76	11.55	11.70	11.05	11.15	8.20	8.80	7.70	8.50
MW-1	11.31	12.67	10.90	12.30	11.15	12.55	11.19	12.55	10.77	10.81	8.55	8.85	8.45	9.02
MW-2	11.94	11.94	10.90	10.90	11.27	11.28	11.45	11.45	7.54	7.64	6.45	6.45	8.10	8.10

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	04/27/99		05/21/99		06/29/99		07/29/99		08/30/99		09/29/99		10/27/99	
	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water
MW-3	10.08	10.85	10.35	10.97	10.04	10.58	10.10	10.70	9.80	9.80	7.30	7.32	10.13	10.16
MW-4	10.24	10.97	10.64	11.33	10.70	11.30	9.87	10.35	6.47	6.47	4.50	4.70	9.15	9.23
RW-1	blocked		blocked		blocked		16.15	19.35	15.90	18.33			12.20	12.43
RW-2	13.50	13.54	13.87	13.93	12.40	12.40	13.40	13.40	4.50	4.50			5.95	5.95
RW-3	7.10	7.11	7.56	7.56	5.43	5.43	5.94	5.94	1.34	1.34			3.45	3.45
RW-4	Well purged		8.97	9.25	8.66	8.68	8.63	8.64	0.10	0.19			5.93	5.93
RW-5	8.96	9.30	9.30	9.65	8.50	8.76	8.90	9.14	7.43	7.66			6.40	6.58
RW-6	8.62	8.63	8.75	8.75	7.94	7.94	8.45	8.45	2.37	2.37			2.65	2.65
RW-7	7.40	7.55	7.62	7.67	6.96	6.96	7.00	7.00	4.00	4.00			5.07	5.07
RW-8	9.06	9.21	9.25	9.75	8.70	8.91	8.96	9.35	6.80	7.20			7.32	7.53
GW-01														
GW-02	10.99	10.99	11.15	11.15	11.11	11.11	11.10	11.10	10.50	10.50	8.85	8.85	9.65	9.65
GW-03	10.89	10.90	10.92	10.92	11.00	11.00	10.90	10.90	10.30	10.30	8.42	8.42	9.61	9.61
GW-04			10.04	10.08	9.93	10.00	9.77	9.77	11.10	11.10	8.60	8.60	7.38	7.38
GW-05									damaged		clogged		clogged	
GW-06			8.60	8.60	9.62	9.62	8.46	8.46	9.00	9.00	7.45	7.45	8.45	8.45
470-MW1	29.57	29.85			29.85	30.07	29.86	30.04	27.52	27.71	26.86	27.06	27.65	28.06
470-MW3	20.34	20.34			20.51	20.51	20.70	20.70	19.91	19.91	18.30	18.30	19.77	19.77
7MW-01A	29.59	29.60	25.75	25.75	25.71	25.71	25.75	25.75	27.11	27.11	24.78	24.78	24.35	24.35
7MW-02A	43.28	43.29	44.05	44.05	44.17	44.17	44.36	44.36	44.23	44.23	39.60	39.60	37.14	37.14
7MW-03	70.06	70.06	71.53	71.53	73.20	73.20	72.75	72.75	73.20	73.20	70.45	70.45	68.54	68.54
7MW-04	76.46	76.47	72.41	72.41	73.96	73.96	78.00	78.00	78.70	78.70	77.00	77.00	75.98	75.98
7MW-05	12.26	12.26	12.36	12.36	12.27	12.27	12.26	12.26	11.21	11.21	8.65	8.65	12.11	12.11
7MW-06	7.90	7.90	7.76	7.77	7.77	7.77	7.70	7.70	7.27	7.27	6.35	6.35	7.54	7.54
7MW-07	14.40	14.40	14.14	14.14	14.36	14.36	14.22	14.22	12.60	12.60	12.73	12.73	13.14	13.14
7MW-08	10.85	10.85	10.65	10.65	10.90	10.90	10.82	10.82	6.62	6.62	8.65	8.65	9.15	9.15
7MW-09	56.21	56.21	56.93	56.93	57.05	57.05	57.23	57.23	64.10	64.10	57.60	57.60	50.70	50.70
Trench MW														

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	12/01/99		12/23/99		01/28/00		03/18/00		06/28/00		07/28/00		08/31/00	
	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water	Product	Water
UGW-1	6.10	6.20	10.00	10.10	10.18	10.30	13.25	14.10	11.84	15.15	12.58	15.82	10.66	12.55
UGW-2	not gauged		46.38	46.38	46.50	46.50	49.32	49.32	53.65	53.69	54.45	54.45	55.10	55.10
UGW-3	14.70	15.35	13.50	13.50	15.70	15.71	17.90	17.90	17.15	17.15	20.51	20.51	21.20	21.20
UGW-4	8.02	8.02	13.05	13.05	13.17	13.17	15.95	15.95	16.84	16.84	17.37	17.37	17.85	17.85
UGW-5	6.45	6.65	10.70	10.95	10.75	11.00	12.60	12.65	12.75	12.75	13.35	13.35	11.50	11.50
UGW-6	7.95	7.95	9.25	9.25	9.38	9.38	9.85	9.85	9.87	9.87	10.17	10.17	10.82	10.82
UGW-7	6.00	6.00	7.20	7.20	7.26	7.26	8.70	8.70	8.18	8.18	8.57	8.57	8.75	8.75
UGW-8	4.90	4.90	6.75	6.75	6.95	6.95	8.25	8.25	8.30	8.30	8.65	8.65	9.07	9.07
UGW-9	4.56	4.56	6.80	6.80	7.02	7.02	8.00	8.00	8.00	8.00	8.34	8.34	9.10	9.10
UGW-10	7.85	7.85	9.45	9.45	9.60	9.60	10.20	10.20	9.90	9.90	10.04	10.04	10.15	10.15
UGW-11	8.16	8.16	8.94	8.95	9.00	9.00	9.70	9.70	9.12	9.12	9.15	9.15	8.96	8.96
UGW-12	4.15	15.10	7.45	15.85	7.56	15.90	9.95	17.10	10.05	17.70	10.60	18.05	9.65	17.65
UGW-13	4.52	13.40	8.50	17.20	8.55	17.30	10.70	17.00	10.45	17.55	11.35	17.35	9.22	18.85
UGW-14	7.60	7.60	12.10	12.10	12.30	12.30	15.22	15.22	16.91	16.91	16.45	16.45	15.33	15.33
UGW-15	9.50	9.50	9.10	9.10	9.30	9.30	11.75	11.75	11.72	11.72	11.90	11.90	11.50	11.50
UGW-16	10.05	10.05	11.66	11.66	11.75	11.75	12.55	12.55	12.55	12.55	12.75	12.75	11.55	11.55
UGW-17	5.30	14.30	8.45	12.10	8.65	12.40	10.25	13.15	10.00	14.47	10.72	14.60	9.05	13.60
UGW-18	damaged		11.65	11.65	11.72	11.72	12.80	12.80	12.98	12.98	13.16	13.16	11.45	11.45
UGW-19	4.20	4.55	9.35	9.65	9.45	9.80	10.77	11.50	10.90	11.35	11.40	12.40	9.85	10.35
UGW-20	Replaced w/ UGW-20R													
UGW-20R	6.35	6.35	8.00	8.00	8.12	8.12	8.75	8.75	8.92	8.92	9.70	9.70	10.42	10.42
UGW-21	6.15	7.40	7.40	11.55	7.53	11.72	11.90	13.20	11.91	13.11	12.35	14.20	10.95	12.55
UGW-22	overflow		5.20	5.20	5.23	5.23					7.45	7.45	2.60	2.60
UGW-23	48.20	48.20	58.10	58.10	58.40	58.40	62.75	62.75	64.50	64.50	65.10	65.10	64.85	64.85
UGW-24	68.90	68.90	68.36	68.37	68.58	68.59	70.75	70.75	73.34	73.34	73.80	73.80	73.55	73.55
UGW-25	47.60	49.20	44.00	45.10	44.23	45.33	46.55	47.75	48.55	49.85	49.17	50.55	49.00	50.25
UGW-26	5.70	5.70	6.80	6.80	6.95	6.95	8.90	8.90	8.60	8.60	9.44	9.44	9.15	9.15
PW-1	5.20	5.80	9.10	9.10	9.25	9.25	10.25	10.25	9.45	9.45	10.40	10.40	9.70	9.70
PW-2	5.22	6.40	9.42	10.42	9.65	10.70	11.50	12.40	11.56	11.56	12.17	12.17	11.90	11.90
PW-3	6.10	6.10	10.55	10.59	10.62	10.67			13.45	13.54	not gauged		not gauged	
PW-4	damaged		damaged		damaged		damaged		10.45	11.50	damaged		damaged	
PW-5	7.10	7.15	10.60	10.65	10.70	10.77	14.60	14.60	12.78	13.42	13.65	14.35	13.22	13.75
PW-6	3.50	3.50	8.40	8.40	8.55	8.55	6.50	19.50	not gauged		11.00	11.89	11.15	11.80
MW-1	3.80	3.80	9.17	9.71	9.30	9.85	11.05	11.65	11.05	11.60	11.60	12.70	10.44	10.70
MW-2	4.95	4.95	9.50	9.50	9.60	9.60	11.25	11.25	11.35	11.35	11.93	11.93	10.60	10.60

TABLE 1

**MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	12/01/99		12/23/99		01/28/00		03/18/00		06/28/00		07/28/00		08/31/00	
	Product	Water												
MW-3	1.30	1.30	6.90	6.95	6.95	7.00	10.40	10.80	9.40	9.55	14.40	14.48	13.55	13.60
MW-4	3.35	3.60	10.40	10.42	10.55	10.60	11.92	12.62	damaged		7.46	8.10	7.55	8.10
RW-1	5.10	5.25	0.00	0.00	12.50	12.75	16.40	16.70	16.50	17.20	17.17	18.62	17.70	19.00
RW-2	overflow		9.55	9.55	9.60	9.60			13.05	13.05	14.22	14.22	14.10	14.10
RW-3	overflow		5.20	5.20	5.23	5.23					7.45	7.45	2.60	2.60
RW-4	overflow		6.75	6.76	6.82	6.83	8.60	8.60	8.74	8.74	9.05	9.06	2.45	2.45
RW-5	overflow		6.85	6.90	6.87	6.91	7.60	7.70	8.80	12.70	8.32	12.90	6.60	9.45
RW-6	overflow		6.53	6.53	6.55	6.55	8.15	8.15	8.27	8.27	8.80	8.80	6.95	6.95
RW-7	overflow		5.50	5.50	5.70	5.70	6.80	6.80	7.10	7.10	7.70	7.70	6.10	6.10
RW-8	overflow		7.00	7.05	7.15	7.20	8.50	8.70	8.50	8.53	9.10	9.25	7.74	7.79
GW-01	not gauged													
GW-02	6.60	6.60	9.10	9.10	9.22	9.22	10.75	10.75	11.02	11.02	11.45	11.45	11.86	11.86
GW-03	7.00	7.00	9.20	9.20	9.25	9.25	10.75	10.75	10.97	10.97	11.25	11.25	11.58	11.58
GW-04	7.10	7.10	8.46	8.46	8.55	8.55	9.10	9.10	9.80	9.80	9.93	9.93	9.70	9.70
GW-05	not gauged													
GW-06	7.95	7.95	8.48	8.48	8.55	8.55	8.50	8.50	8.60	8.60	8.95	8.95	9.10	9.10
470-MW1	21.80	22.10	24.30	25.32	24.60	25.65	28.85	29.20	29.55	29.87	30.00	30.45	29.45	29.77
470-MW3	15.30	15.30	16.31	16.31	16.45	16.45	20.10	20.10	20.52	20.52	20.80	20.80	21.30	21.30
7MW-01A	20.40	20.40	23.63	23.63	23.70	23.70	25.75	25.75	25.65	25.65	27.10	27.10	26.85	26.85
7MW-02A	10.70	10.70					42.31	42.31	43.88	43.88	44.50	44.50	44.20	44.20
7MW-03	73.30	73.30					67.50	67.50	71.42	71.42	72.95	72.95	72.70	72.70
7MW-04	not gauged		72.36	72.63	72.45	72.45	74.90	74.90	77.40	77.40	77.75	77.75	77.25	77.25
7MW-05	8.51	8.51							12.37	12.37	12.72	12.72	12.48	12.48
7MW-06	7.65	7.65	7.55	7.55	7.67	7.67	7.85	7.85	7.80	7.80	9.62	9.62	9.45	9.45
7MW-07	7.15	7.15	13.05	13.05	13.14	13.14	14.10	14.10	14.11	14.11	14.40	14.40	14.50	14.50
7MW-08	6.42	6.42	8.90	8.90	8.98	8.98	8.75	8.75	10.20	10.20	11.05	11.05	10.85	10.85
7MW-09	43.80	43.80	51.03	51.03	51.20	51.20	55.30	55.30	56.77	56.77	57.35	57.35	57.00	57.00
Trench MW											0.00	0.00	0.00	0.00

TABLE 1
MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO

Well Number	09/29/00		10/31/00	
	Product	Water	Product	Water
UGW-1	11.10	13.20	10.70	12.90
UGW-2	55.51	55.51	55.86	55.86
UGW-3	20.40	20.40	20.30	20.30
UGW-4	17.00	17.00	17.10	17.10
UGW-5	12.90	13.00	8.45	8.45
UGW-6	9.60	9.60	9.75	9.75
UGW-7	7.62	7.62	7.95	7.95
UGW-8	8.00	8.00	6.95	6.95
UGW-9	7.70	7.70	6.90	6.90
UGW-10	9.75	9.75	8.80	8.80
UGW-11	8.85	8.85	7.68	7.68
UGW-12	10.20	17.55	9.90	17.25
UGW-13	10.65	17.65	9.90	16.80
UGW-14	16.10	16.10	16.10	16.10
UGW-15	11.20	11.20	10.35	10.35
UGW-16	12.35	12.35	11.15	11.15
UGW-17	10.15	14.35	9.25	13.55
UGW-18	12.75	12.75	10.68	10.68
UGW-19	10.25	10.75	7.90	8.30
UGW-20	Replaced w/ UGW-20R			
UGW-20R	9.45	9.45	7.20	7.20
UGW-21	11.60	13.30	8.30	9.75
UGW-22	2.20	2.20	3.50	3.50
UGW-23	65.10	65.10	65.16	65.16
UGW-24	74.20	74.20	74.35	74.35
UGW-25	49.00	49.00	49.15	50.40
UGW-26	9.40	9.40	9.10	9.10
PW-1	9.15	9.15	12.20	12.20
PW-2	10.95	11.10	10.40	10.60
PW-3	13.50	13.50	8.00	8.00
PW-4	damaged		damaged	
PW-5	13.00	13.65	12.70	13.40
PW-6	12.15	12.85	10.90	11.80
MW-1	11.10	11.65	10.75	11.10
MW-2	10.50	10.50	9.70	9.70

TABLE 1
MONITORING WELL MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO

Well Number	09/29/00		10/31/00	
	Product	Water	Product	Water
MW-3	9.30	9.30	12.40	12.55
MW-4	13.00	13.00	6.20	7.04
RW-1	16.50	16.50	17.35	17.35
RW-2	9.00	9.00	7.75	7.75
RW-3	2.20	2.20	3.50	3.50
RW-4	2.25	2.25	6.10	6.10
RW-5	8.10	10.90	6.90	6.90
RW-6	7.60	7.60	2.65	2.65
RW-7	5.90	5.90	3.00	3.00
RW-8	8.20	8.35	4.90	5.00
GW-01	not gauged		not gauged	
GW-02	10.95	10.95	10.85	10.85
GW-03	10.70	10.70	10.60	10.60
GW-04	9.20	9.20	9.07	9.07
GW-05	not gauged		not gauged	
GW-06	9.25	9.25	9.10	9.10
470-MW1	29.70	29.70	29.65	29.95
470-MW3	20.40	20.40	20.30	20.30
7MW-01A	29.70	29.70	25.55	25.55
7MW-02A	44.40	44.40	44.20	44.20
7MW-03	73.22	73.22	73.10	73.10
7MW-04	74.00	74.00	74.06	74.06
7MW-05	12.40	12.40	57.30	57.30
7MW-06	9.30	9.30	8.55	8.55
7MW-07	13.65	13.65	12.20	12.20
7MW-08	10.00	10.00	7.60	7.60
7MW-09	56.25	56.25	73.50	73.50
Trench MW	8.02	8.03	2.20	2.20

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	1/28/97	2/25/97	4/21/97	5/22/97	6/17/97	6/30/97	7/30/97	9/3/97	9/26/97
UGW-1	2.36	2.40	2.40	2.56	2.62	2.59	2.55	2.93	2.69
UGW-2	0.00	0.00	0.00	0.18	0.27	0.31	0.27	0.62	0.35
UGW-3	6.10	5.96	6.16	0.00	0.00	0.00	5.03	5.30	5.05
UGW-4	11.31	11.31	11.32	9.82	9.71	9.72	9.41	10.10	9.38
UGW-5	2.35	0.30	0.41	0.35	0.37	0.36	0.19	1.00	0.24
UGW-6		0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-9	0.00	0.00	0.00					0.00	0.00
UGW-10	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
UGW-11	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
UGW-12	9.19	9.00	8.59	8.49	8.37	8.35	8.22	8.61	7.95
UGW-13	7.67	7.57	7.70	6.16	6.58	6.34	7.40	7.96	6.36
UGW-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-15	0.00	0.00	0.00	2.92	2.41	2.54	0.00	0.00	0.00
UGW-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-17	4.80	4.82	4.70	4.05	4.18	4.03	4.70	5.00	4.49
UGW-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-19	3.75	3.74	3.70		0.00	0.00	2.42	4.95	2.67
UGW-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-20R	NA	NA	NA						
UGW-21	2.15	2.14	2.00	1.74	1.78	1.93	2.04	3.10	2.17
UGW-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
UGW-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-25	1.58	1.11	1.56	1.82	1.98	2.02	1.94	2.90	2.17
UGW-26	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
PW-1	0.00	0.00	0.00	0.12	0.14	0.07	0.07	0.35	0.07
PW-2	0.86	0.70	0.88	1.21	1.37	1.33	1.09	1.48	1.02
PW-3	3.67	4.22	3.70	5.96	6.39	6.57	6.98	7.98	7.62
PW-4	1.74	1.74	1.75	2.38	2.98	2.64	2.67	3.48	3.12
PW-5	5.10	5.79	5.09	7.03	7.25	7.35	7.40	7.95	7.78
PW-6	10.72	10.93	10.67	10.01	9.92	9.78	9.83	10.11	9.79
MW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00
MW-2	0.00	0.00	0.00	0.17	0.29	0.30	0.03	0.60	0.81
MW-3	2.27	2.50	2.25	3.16	3.31	3.36	3.69	4.30	4.21
MW-4	2.30	2.30	2.32	2.13	2.40	2.42	1.94	2.40	2.47
RW-1	8.10	2.98	5.99	7.41	7.43	7.38	7.18	7.78	7.55
RW-2	0.90	0.45	0.39	1.43	0.09	0.47	0.00	0.00	
RW-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
RW-4	0.57	0.00	0.76	3.10	0.10	0.53	0.01	0.21	
RW-5	0.26	0.55	2.23	5.64	1.15	4.42	0.12	0.95	
RW-6	0.17	0.17	0.20	0.22	0.21	0.23	0.00	1.09	0.00

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	1/28/97	2/25/97	4/21/97	5/22/97	6/17/97	6/30/97	7/30/97	9/3/97	9/26/97
RW-7	2.52	0.37	2.67	2.62	0.69	1.99	0.00	2.10	0.94
RW-8	0.31	0.25	0.02	0.23	0.83	2.49	0.13	2.25	0.19
NW-1	0.00	0.00				0.00		0.00	
NW-2	0.00	0.00				0.00		0.00	
470-MW-1						0.30	0.20	1.10	0.29
470-MW-2									0.00
470-MW-3							0.00	0.00	0.00
1995-MW-4									
1995-MW-5						0.00	0.00	0.00	0.00
1995MW-9						0.00	0.00	0.00	0.00
GW-01								0.00	0.00
GW-02						0.00	0.00	0.00	0.00
GW-03						0.00	0.00	0.00	0.00
GW-04						0.30	0.06	0.55	0.29
GW-05									0.00
GW-06						0.00	0.00	0.00	0.00
470-MW1									
470-MW3									
7MW-01A								0.00	0.00
7MW-02A						0.00	0.00	0.00	0.00
7MW-03						0.00	0.00	0.00	0.00
7MW-04						0.00	0.00	0.00	0.00
7MW-05									
7MW-06									
7MW-07									
7MW-08									
7MW-09									
Trench MW									

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	10/30/97	11/25/97	12/23/97	1/26/98	2/25/98	3/24/98	4/29/98	6/3/98	7/7/98
UGW-1	2.71	2.77	2.72	2.80	2.80	2.79	2.75	2.77	2.78
UGW-2	0.12	0.00	0.01	0.00	0.00	0.04	0.16	0.42	0.52
UGW-3	4.05	5.01	4.30	4.05	3.97	3.95	2.04	2.02	2.00
UGW-4	9.75	9.66	9.59	10.23	10.21	10.21	0.05	0.01	0.03
UGW-5	0.05	0.10	0.22	0.20	0.21	0.06	0.00	0.16	0.21
UGW-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-11	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
UGW-12	10.38	9.25	9.18	8.86	8.47	8.19	8.12	7.74	7.75
UGW-13	10.12	7.30	7.43	7.48	1.87	6.45	6.94	2.26	6.75
UGW-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-17	6.51	6.79	7.31	7.70	7.52	6.00	2.08	2.28	2.53
UGW-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-19	0.33	1.93	1.08	1.64	2.12	2.25	1.63	2.47	2.32
UGW-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	destroyed	destroyed
UGW-20R	NA	NA	NA	NA	NA	NA	NA	NA	NA
UGW-21	2.12	2.08	2.20	3.02	2.37	2.39	2.21	2.26	2.14
UGW-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-24	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
UGW-25	1.82	1.77	1.62	1.51	1.56	1.66	2.04	1.74	1.75
UGW-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PW-1	0.77	0.11	0.79	0.11	0.16	0.19	0.00	0.00	0.00
PW-2	0.63	0.60	0.72	0.73	0.75	0.80	0.86	0.87	0.97
PW-3	8.75	9.12	9.76	9.95	9.80	9.77	9.85	9.85	9.84
PW-4	3.36	3.37	3.47	3.55	3.62	3.66	3.77	3.73	3.89
PW-5	8.17	8.40	8.85	8.97	8.95	8.85	8.88	8.92	8.92
PW-6	13.18	11.86	13.20	12.44	11.67	10.92	10.68	10.57	9.39
MW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.12	1.14
MW-2	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.12
MW-3	4.22	4.49	4.63	5.03	5.42	5.35	5.86	6.01	6.20
MW-4	3.32	2.96	3.24	2.92	2.45	1.97	0.51	0.53	0.72
RW-1	0.83	2.88	1.02	3.13	4.63	5.89	6.48	6.57	7.16
RW-2	0.00	0.00		0.00	0.00	0.10	0.22	0.00	0.37
RW-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RW-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
RW-5	0.20	0.07	0.11	0.20	0.38	2.55	2.42	2.40	2.41
RW-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	10/30/97	11/25/97	12/23/97	1/26/98	2/25/98	3/24/98	4/29/98	6/3/98	7/7/98
RW-7	0.26	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
RW-8	0.04	0.00	0.00	0.02	0.12	2.07	3.41	3.37	3.54
NW-1	0.00							0.00	0.00
NW-2	0.00							0.00	0.00
470-MW-1	0.08	0.29	0.28					0.00	0.00
470-MW-2	0.00	0.00						0.00	0.00
470-MW-3	0.00	0.00	0.00					0.00	0.00
1995-MW-4	0.00							0.00	0.00
1995-MW-5	0.00	0.00	0.00					0.00	0.00
1995MW-9	0.00	0.00	0.00					0.00	0.00
GW-01	0.00	0.00						0.01	0.02
GW-02	0.00	0.00	0.00				0.00	0.00	0.00
GW-03	0.00	0.00	0.00				0.00	0.00	0.00
GW-04	0.30	0.18	0.28				0.00	0.02	0.02
GW-05	0.00								
GW-06	0.00	0.00	0.00				0.00	0.00	0.00
470-MW1							0.09	0.11	0.23
470-MW3							0.00	0.00	0.00
7MW-01A	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
7MW-02A	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
7MW-03	0.00	0.00					0.00	0.00	0.00
7MW-04	0.00	0.00					0.00	0.00	0.00
7MW-05	0.00							0.00	0.00
7MW-06	0.00	0.00	0.00		0.00	0.00		0.00	0.00
7MW-07	0.00	0.00	0.00		0.00				
7MW-08	0.00	0.00	0.00		0.00	0.00		0.00	0.00
7MW-09	0.00	0.00	0.00			0.00	0.00	0.00	0.00
Trench MW									

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	8/12/98	11/16/98	12/9/98	1/25/99	2/23/99	3/29/99	4/27/99	5/21/99	6/29/99	7/29/99
UGW-1	0.61	1.40	1.39	1.70	1.68	1.74	1.73	1.71	1.77	1.80
UGW-2	0.62	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.20
UGW-3	0.57	0.55	0.56	0.00		0.00	0.00	0.00	0.00	5.90
UGW-4	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
UGW-5	0.34	0.25	0.24	0.30	0.20	0.19	0.20	0.08	0.06	0.18
UGW-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-7	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-8	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
UGW-9	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
UGW-10	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
UGW-11	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
UGW-12	7.58	9.70	11.25	8.66	8.01	7.66	7.78	7.81	5.86	5.98
UGW-13	6.79	10.95	12.30	8.80	7.42	7.05	6.95	10.27	6.20	7.00
UGW-14	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-16	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
UGW-17	1.39	3.85	6.82	9.69	6.16	5.20	5.17	7.35	8.91	7.23
UGW-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-19	2.20	1.36	1.37	1.17	1.25	0.50	0.49	0.89	1.20	1.45
UGW-20	destroyed	destroyed	destroyed	Monitoring Well Replaced with UGW-20R						
UGW-20R	NA	NA	NA	NA	0.00	0.01	0.00	0.00	0.00	0.00
UGW-21	2.03	2.90	2.63	2.90	2.14	2.37	2.23	2.67	7.69	2.37
UGW-22	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
UGW-23	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
UGW-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-25	1.82	0.00	0.00	0.00		0.00	0.00	0.00	1.35	1.52
UGW-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PW-1	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PW-2	1.08	1.30	1.59	1.65	1.71	2.66	0.00	1.62	1.79	1.82
PW-3	7.71	9.53	9.88	0.85	0.90	0.90	0.01	2.35	0.16	0.20
PW-4	0.18		0.00							
PW-5	6.70	7.37	7.37	1.12	1.29	1.29	0.30	0.28	0.30	0.33
PW-6	1.13	0.00	0.00	0.10		0.05	0.06	0.20	0.16	0.15
MW-1	0.01	0.00	1.29	1.45	0.34	2.30	1.36	1.40	1.40	1.36
MW-2	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
MW-3	0.00	0.00	0.00	0.75	0.00	0.72	0.77	0.62	0.54	0.60
MW-4	0.55	1.20	1.24	1.30	0.90	0.66	0.73	0.69	0.60	0.48
RW-1	0.00	0.05	0.00	0.00						3.20
RW-2	0.43	0.00	0.00	0.00	0.00	0.00	0.04	0.06	0.00	0.00
RW-3	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
RW-4	0.00	0.00	0.00	0.00	0.00	0.00		0.28	0.02	0.01
RW-5	4.60	0.05	0.01	0.10	0.30	0.38	0.34	0.35	0.26	0.24
RW-6	0.02	0.42	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	8/12/98	11/16/98	12/9/98	1/25/99	2/23/99	3/29/99	4/27/99	5/21/99	6/29/99	7/29/99
RW-7	1.37	0.40	0.15	0.35	0.10	0.08	0.15	0.05	0.00	0.00
RW-8	0.00	0.10	0.00	0.02	0.00	0.08	0.15	0.50	0.21	0.39
NW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470-MW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470-MW-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470-MW-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995-MW-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995-MW-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995MW-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GW-01	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
GW-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GW-03	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00
GW-04	0.22	0.08	0.06	0.00	0.06	0.06	0.00	0.04	0.07	0.00
GW-05										0.00
GW-06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
470-MW1	0.23	0.00	0.20	0.19	0.30	0.00	0.28	0.00	0.22	0.18
470-MW3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-01A	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
7MW-02A	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
7MW-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
7MW-05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7MW-06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
7MW-07				0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trench MW										

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	8/30/99	9/29/99	10/27/99	12/1/99	12/23/99	1/28/00	3/18/00	6/28/00	7/28/00
UGW-1	0.01	0.05	0.30	0.10	0.10	0.12	0.85	3.31	3.24
UGW-2	0.51	0.65	0.00		0.00	0.00	0.00	0.04	0.00
UGW-3	0.64	0.72	0.57	0.65	0.00	0.01	0.00	0.00	0.00
UGW-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-5	0.00		0.15	0.20	0.25	0.25	0.05	0.00	0.00
UGW-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
UGW-12	0.74	8.85	9.75	10.95	8.40	8.34	7.15	7.65	7.45
UGW-13	0.05	11.38	0.50	8.88	8.70	8.75	6.30	7.10	6.00
UGW-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-17	0.00	2.50	3.08	9.00	3.65	3.75	2.90	4.47	3.88
UGW-18			0.00		0.00	0.00	0.00	0.00	0.00
UGW-19	0.00	0.20	0.32	0.35	0.30	0.35	0.73	0.45	1.00
UGW-20	Monitoring Well Replaced with UGW-20R								
UGW-20R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-21	0.40	1.28	1.36	1.25	4.15	4.19	1.30	1.20	1.85
UGW-22	0.00		0.00		0.00	0.00			0.00
UGW-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UGW-24	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00
UGW-25	1.45	1.50	1.20	1.60	1.10	1.10	1.20	1.30	1.38
UGW-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PW-1	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00
PW-2	0.03	0.71	0.75	1.18	1.00	1.05	0.90	0.00	0.00
PW-3	0.02	0.10	0.10	0.00	0.04	0.05		0.09	
PW-4	damaged	damaged	damaged	damaged	damaged	damaged	damaged	1.05	damaged
PW-5	0.05	0.09	0.08	0.05	0.05	0.07	0.00	0.64	0.70
PW-6	0.10	0.60	0.80	0.00	0.00	0.00	13.00		0.89
MW-1	0.04	0.30	0.57	0.00	0.54	0.55	0.60	0.55	1.10
MW-2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-3	0.00	0.02	0.03	0.00	0.05	0.05	0.40	0.15	0.08
MW-4	0.00	0.20	0.08	0.25	0.02	0.05	0.70		0.64
RW-1	2.43		0.23	0.15	0.00	0.25	0.30	0.70	1.45
RW-2	0.00		0.00		0.00	0.00		0.00	0.00
RW-3	0.00		0.00		0.00	0.00			0.00
RW-4	0.09		0.00		0.01	0.01	0.00	0.00	0.01
RW-5	0.23		0.18		0.05	0.04	0.10	3.90	4.58
RW-6	0.00		0.00		0.00	0.00	0.00	0.00	0.00

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	8/30/99	9/29/99	10/27/99	12/1/99	12/23/99	1/28/00	3/18/00	6/28/00	7/28/00
RW-7	0.00		0.00		0.00	0.00	0.00	0.00	0.00
RW-8	0.40		0.21		0.05	0.05	0.20	0.03	0.15
NW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470-MW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470-MW-2	0.00	0.00	0.00				0.00	0.00	0.00
470-MW-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995-MW-4	0.00	0.00	0.00				0.00	0.00	0.00
1995-MW-5	0.00	0.00	0.00				0.00	0.00	0.00
1995MW-9	0.00	0.00	0.00				0.00	0.00	0.00
GW-01	not gauged								
GW-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GW-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GW-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GW-05				not gauged					
GW-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470-MW1	0.19	0.20	0.41	0.30	1.02	1.05	0.35	0.32	0.45
470-MW3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-01A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-02A	0.00	0.00	0.00	0.00			0.00	0.00	0.00
7MW-03	0.00	0.00	0.00	0.00			0.00	0.00	0.00
7MW-04	0.00	0.00	0.00		0.27	0.00	0.00	0.00	0.00
7MW-05	0.00	0.00	0.00	0.00				0.00	0.00
7MW-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7MW-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trench MW									0.00

TABLE 2

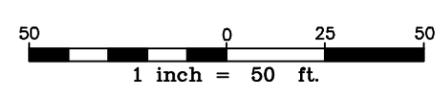
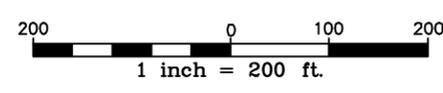
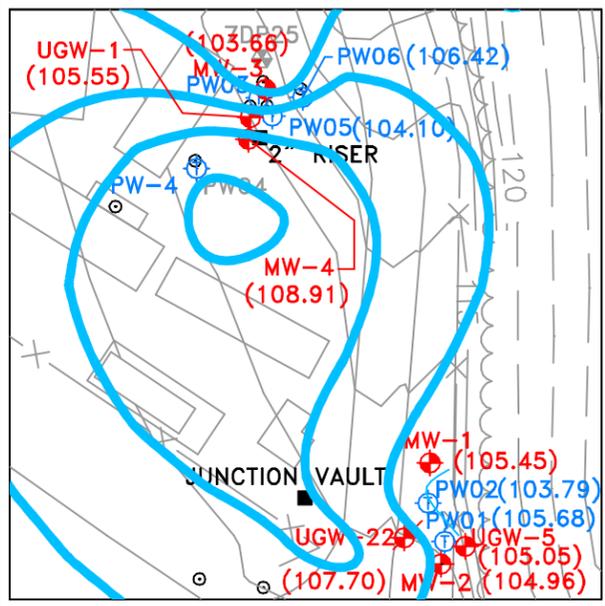
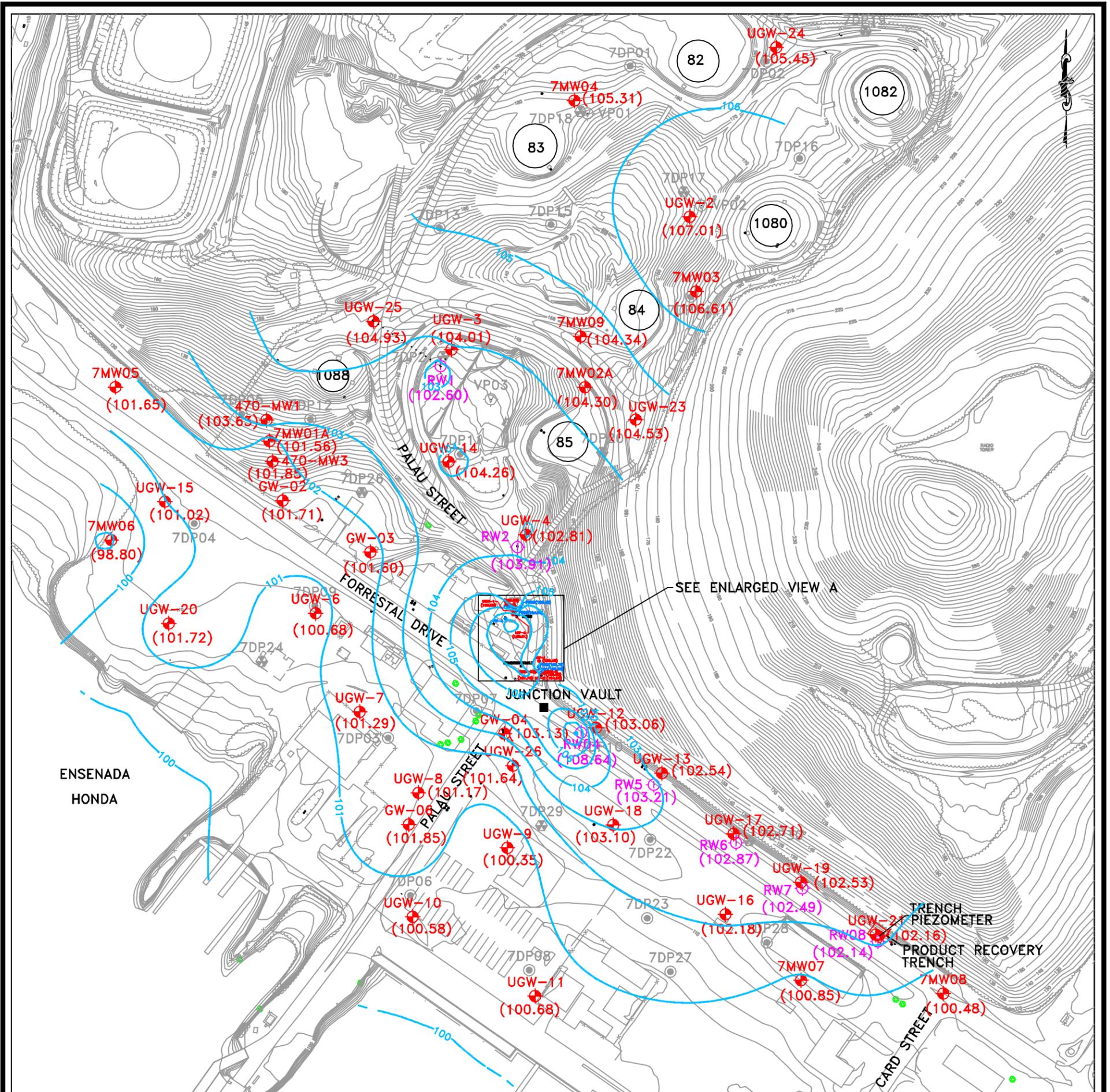
**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	8/31/00	9/29/00	10/31/00
UGW-1	1.89	2.10	2.20
UGW-2	0.00	0.00	0.00
UGW-3	0.00	0.00	0.00
UGW-4	0.00	0.00	0.00
UGW-5	0.00	0.10	0.00
UGW-6	0.00	0.00	0.00
UGW-7	0.00	0.00	0.00
UGW-8	0.00	0.00	0.00
UGW-9	0.00	0.00	0.00
UGW-10	0.00	0.00	0.00
UGW-11	0.00	0.00	0.00
UGW-12	8.00	7.35	7.35
UGW-13	9.63	7.00	6.90
UGW-14	0.00	0.00	0.00
UGW-15	0.00	0.00	0.00
UGW-16	0.00	0.00	0.00
UGW-17	4.55	4.20	4.30
UGW-18	0.00	0.00	0.00
UGW-19	0.50	0.50	0.40
UGW-20	Replaced with UGW-20R		
UGW-20R	0.00	0.00	0.00
UGW-21	1.60	1.70	1.45
UGW-22	0.00	0.00	0.00
UGW-23	0.00	0.00	0.00
UGW-24	0.00	0.00	0.00
UGW-25	1.25	0.00	1.25
UGW-26	0.00	0.00	0.00
PW-1	0.00	0.00	0.00
PW-2	0.00	0.15	0.20
PW-3		0.00	0.00
PW-4	damaged	damaged	damaged
PW-5	0.53	0.65	0.70
PW-6	0.65	0.70	0.90
MW-1	0.26	0.55	0.35
MW-2	0.00	0.00	0.00
MW-3	0.05	0.00	0.15
MW-4	0.55	0.00	0.84
RW-1	1.30	0.00	0.00
RW-2	0.00	0.00	0.00
RW-3	0.00	0.00	0.00
RW-4	0.00	0.00	0.00
RW-5	2.85	2.80	0.00
RW-6	0.00	0.00	0.00

TABLE 2

**PRODUCT THICKNESS MEASUREMENTS
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
CEIBA, PUERTO RICO**

Well Number	8/31/00	9/29/00	10/31/00
RW-7	0.00	0.00	0.00
RW-8	0.05	0.15	0.10
NW-1	0.00	0.00	0.00
NW-2	0.00	0.00	0.00
470-MW-1	0.00	0.00	0.00
470-MW-2	0.00	0.00	0.00
470-MW-3	0.00	0.00	0.00
1995-MW-4	0.00	0.00	0.00
1995-MW-5	0.00	0.00	0.00
1995MW-9	0.00	0.00	0.00
GW-01	not gauged	not gauged	not gauged
GW-02	0.00	0.00	0.00
GW-03	0.00	0.00	0.00
GW-04	0.00	0.00	0.00
GW-05	not gauged	not gauged	not gauged
GW-06	0.00	0.00	0.00
470-MW1	0.32	0.00	0.30
470-MW3	0.00	0.00	0.00
7MW-01A	0.00	0.00	0.00
7MW-02A	0.00	0.00	0.00
7MW-03	0.00	0.00	0.00
7MW-04	0.00	0.00	0.00
7MW-05	0.00	0.00	0.00
7MW-06	0.00	0.00	0.00
7MW-07	0.00	0.00	0.00
7MW-08	0.00	0.00	0.00
7MW-09	0.00	0.00	0.00
Trench MW	0.00	0.01	0.00



NOTE: DATUM PLAN USED IS MEAN LOW WATER = 100.00 FT. AS ESTABLISHED BY U.S. NAVY SURVEY SECTION AS OF NOVEMBER 1941.



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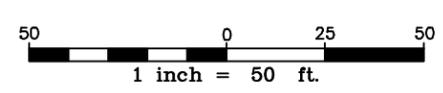
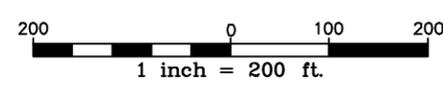
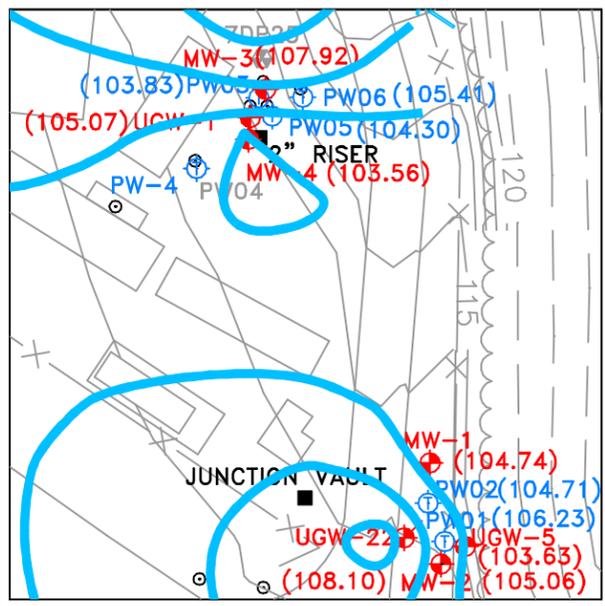
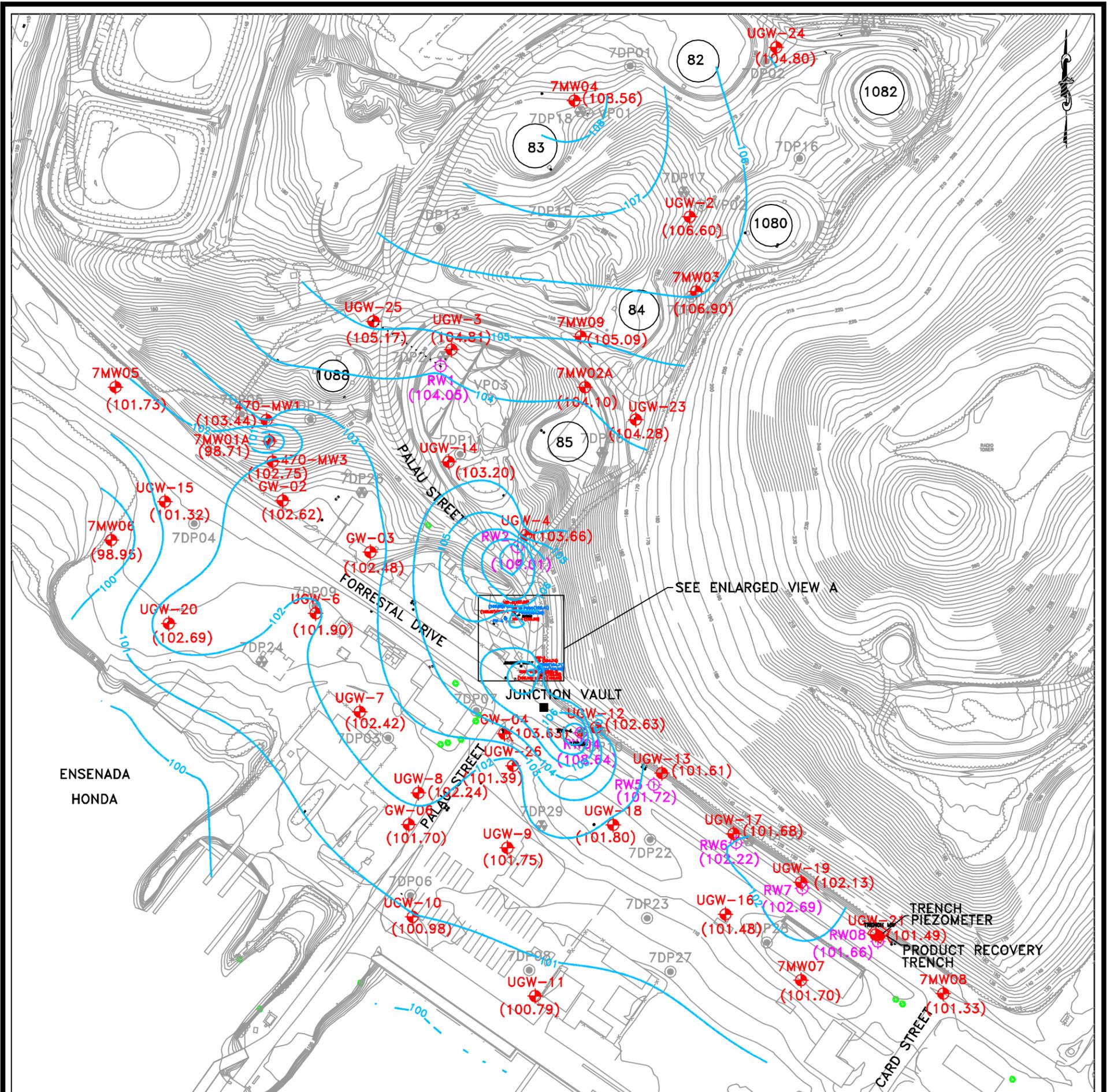
VIEW A

LEGEND

- ◆ - MONITORING WELL LOCATION
 - ⊙ - VERTICAL PERMEABILITY SAMPLE LOCATION
 - ⊙ - SOIL BORING LOCATION
 - ⊙ - SOIL BORING AND SOIL GAS SAMPLE LOCATION
 - ⊕ - TERRAVAC PRODUCT RECOVERY WELL LOCATION
 - ⊕ - ICHOR PRODUCT RECOVERY WELL LOCATION
 - (101.29) - CORRECTED GROUNDWATER ELEVATION (FT.)
 - 101 — ELEVATION (FT.)
- SOURCE: LANTRIV, FEB. 1992/1997

FIGURE 1
CORRECTED GROUNDWATER SURFACE
CONTOUR MAP (AUGUST, 2000)
TOW WAY FUEL FARM

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO



NOTE: DATUM PLAN USED IS MEAN LOW WATER = 100.00 FT. AS ESTABLISHED BY U.S. NAVY SURVEY SECTION AS OF NOVEMBER 1941.



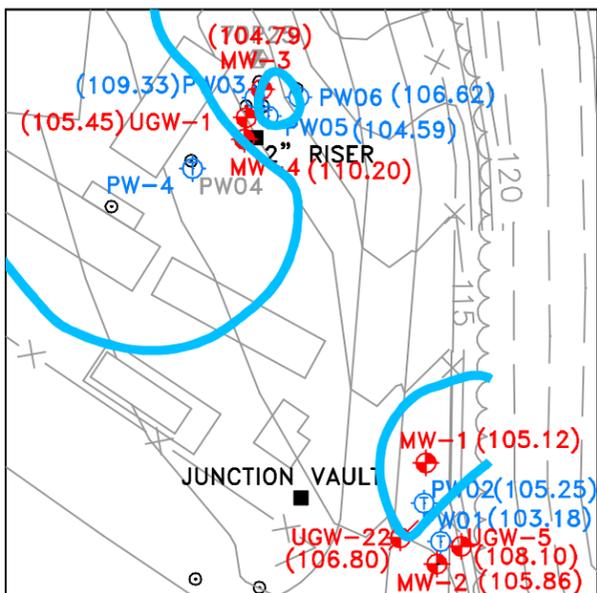
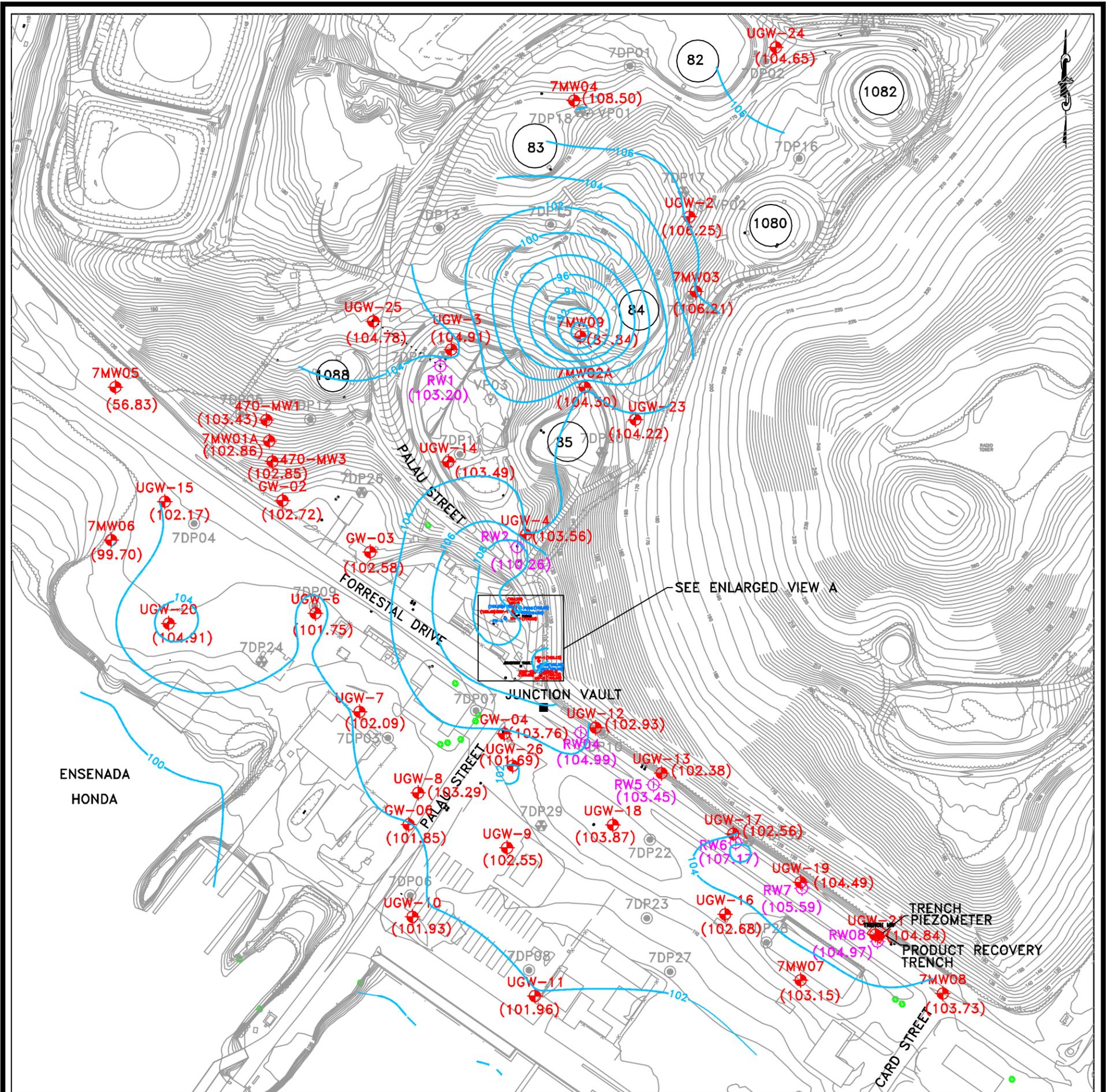
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VIEW A

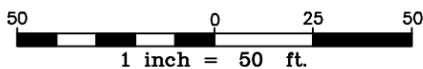
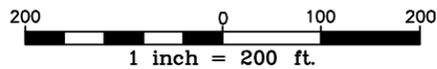
LEGEND

- ◆ - MONITORING WELL LOCATION
 - ⊙ - VERTICAL PERMEABILITY SAMPLE LOCATION
 - ⊙ - SOIL BORING LOCATION
 - ⊙ - SOIL BORING AND SOIL GAS SAMPLE LOCATION
 - ⊕ - TERRAVAC PRODUCT RECOVERY WELL LOCATION
 - ⊕ - ICHOR PRODUCT RECOVERY WELL LOCATION
 - (101.29) - CORRECTED GROUNDWATER ELEVATION (FT.)
 - 101 - ELEVATION (FT.)
- SOURCE: LANTRIV, FEB. 1992/1997

FIGURE 2
CORRECTED GROUNDWATER SURFACE
CONTOUR MAP (SEPTEMBER, 2000)
TOW WAY FUEL FARM
NAVAL STATION ROOSEVELT ROADS
PUERTO RICO



VIEW A



NOTE:
DATUM PLAN USED IS MEAN LOW WATER = 100.00 FT. AS ESTABLISHED BY
U.S. NAVY SURVEY SECTION AS OF NOVEMBER 1941.



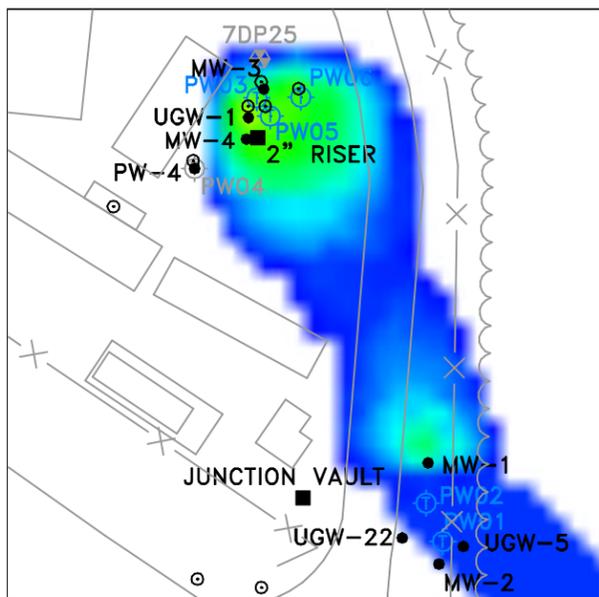
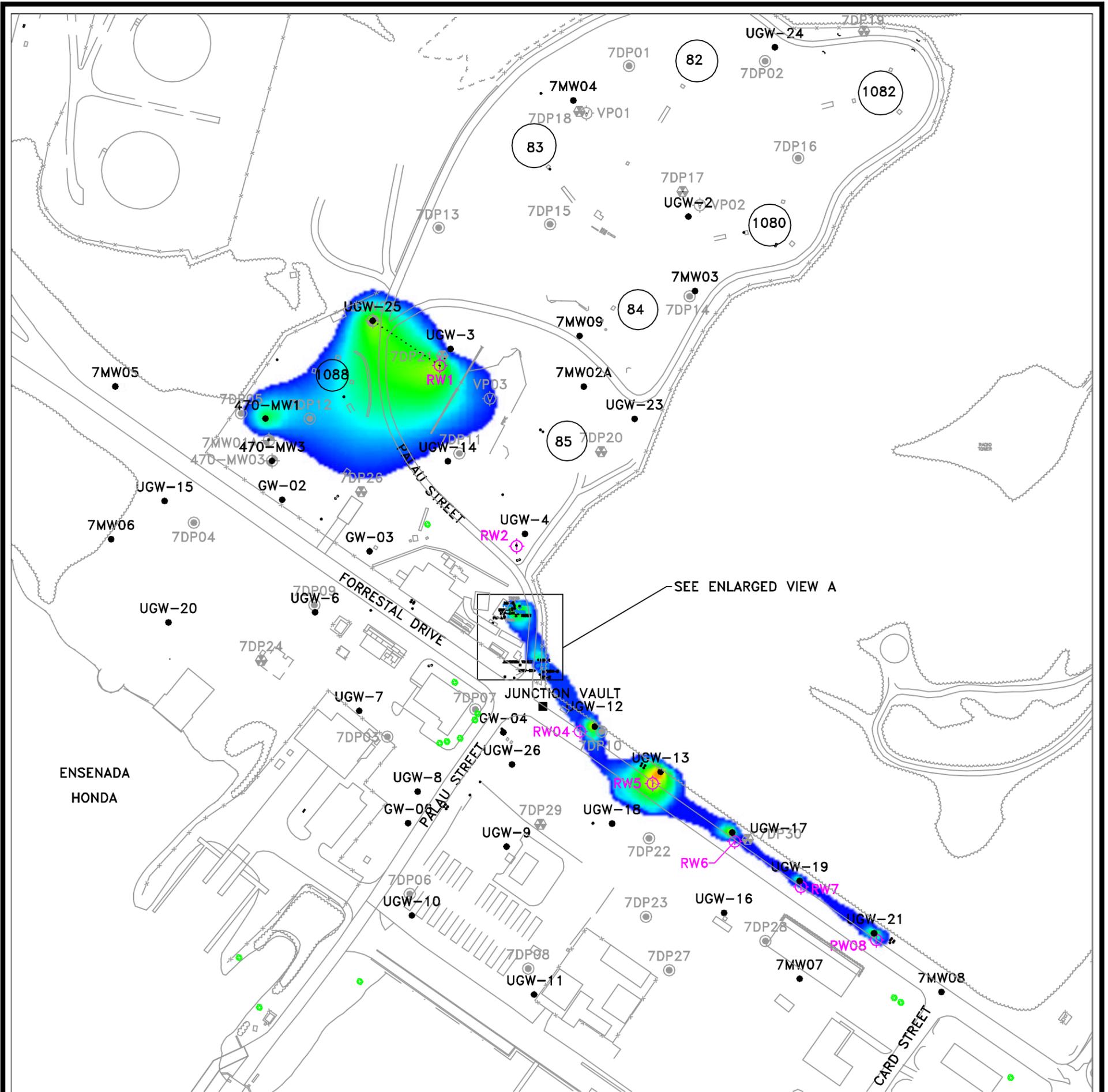
LEGEND

- ⊕ - MONITORING WELL LOCATION
- ⊙ - VERTICAL PERMEABILITY SAMPLE LOCATION
- ⊙ - SOIL BORING LOCATION
- ⊙ - SOIL BORING AND SOIL GAS SAMPLE LOCATION
- ⊕ - TERRAVAC PRODUCT RECOVERY WELL LOCATION
- ⊕ - ICHOR PRODUCT RECOVERY WELL LOCATION
- (101.29) - CORRECTED GROUNDWATER ELEVATION (FT.)
- 101 - ELEVATION (FT.)

SOURCE: LANTRIV, FEB. 1992/1997

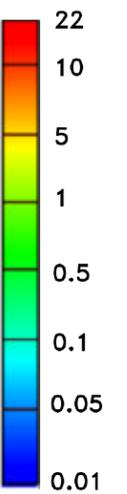
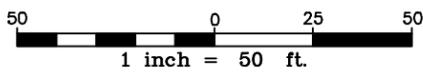
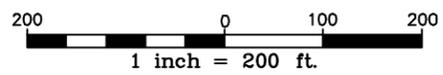
FIGURE 3
CORRECTED GROUNDWATER SURFACE
CONTOUR MAP (OCTOBER, 2000)
TOW WAY FUEL FARM

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO



VIEW A

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NOTE:
DATUM PLAN USED IS MEAN LOW WATER = 100.00 FT. AS ESTABLISHED BY
U.S. NAVY SURVEY SECTION AS OF NOVEMBER 1941.

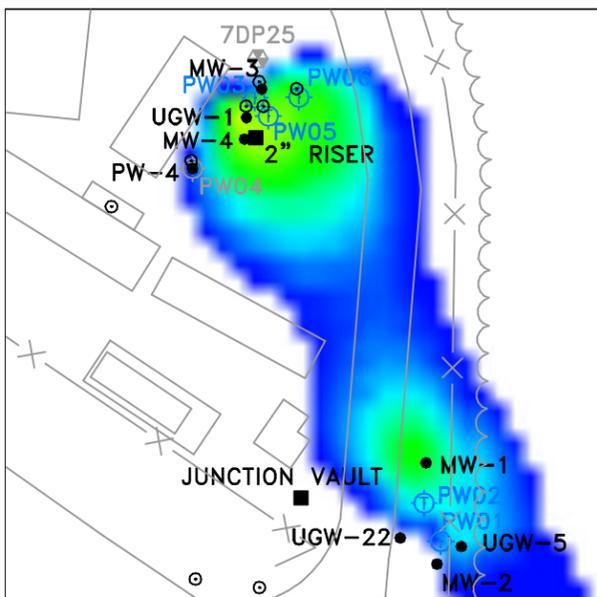
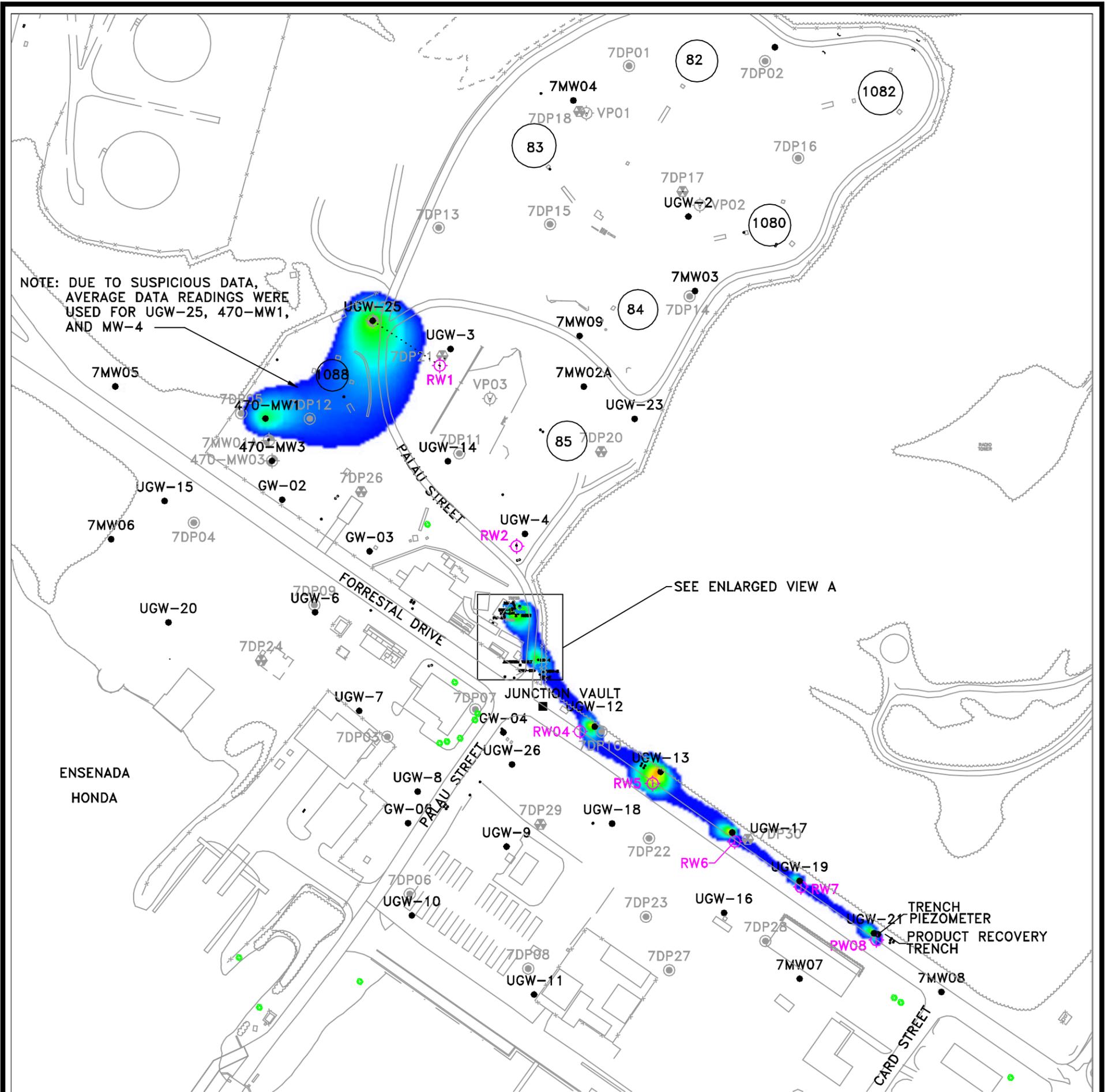


LEGEND

- - MONITORING WELL LOCATION
- ⊕ - VERTICAL PERMEABILITY SAMPLE LOCATION
- ⊙ - SOIL BORING LOCATION
- ⊗ - SOIL BORING AND SOIL GAS SAMPLE LOCATION
- ⊕ - TERRAVAC PRODUCT RECOVERY WELL LOCATION
- ⊗ - ICHOR PRODUCT RECOVERY WELL LOCATION

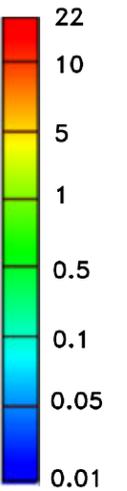
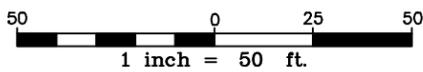
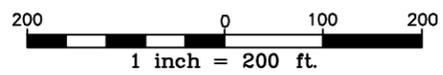
FIGURE 4
FREE PRODUCT THICKNESS AND
EXTENT MAP (AUGUST, 2000)
TOW WAY FUEL FARM

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO



VIEW A

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NOTE: DATUM PLAN USED IS MEAN LOW WATER = 100.00 FT. AS ESTABLISHED BY U.S. NAVY SURVEY SECTION AS OF NOVEMBER 1941.

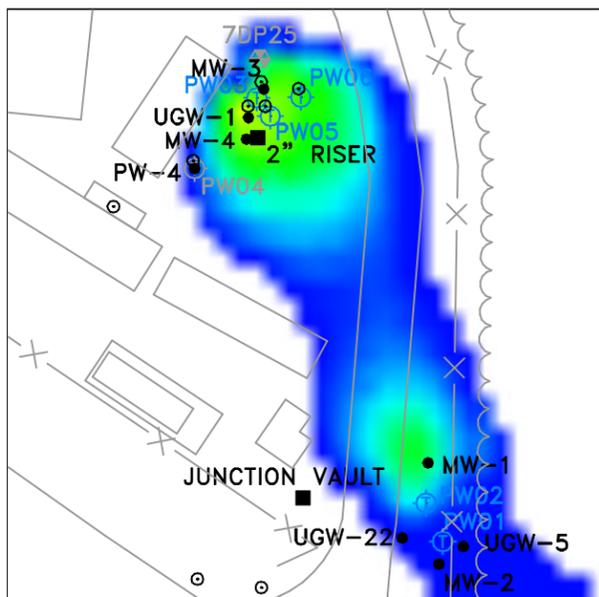
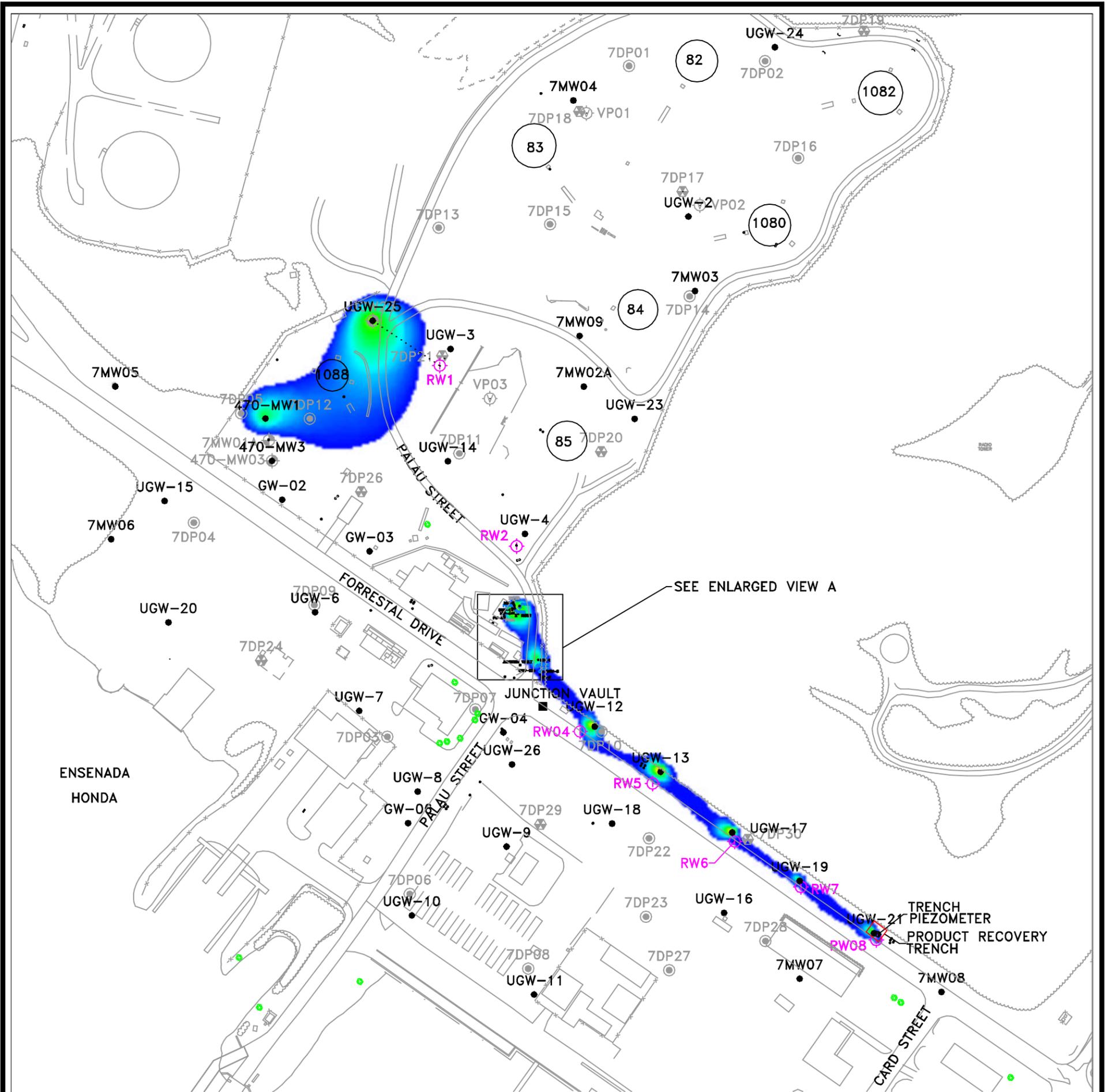


LEGEND

- - MONITORING WELL LOCATION
- ⊕ - VERTICAL PERMEABILITY SAMPLE LOCATION
- ⊙ - SOIL BORING LOCATION
- ⊗ - SOIL BORING AND SOIL GAS SAMPLE LOCATION
- ⊕ - TERRAVAC PRODUCT RECOVERY WELL LOCATION
- ⊗ - ICHOR PRODUCT RECOVERY WELL LOCATION

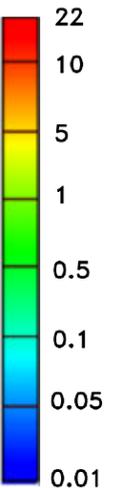
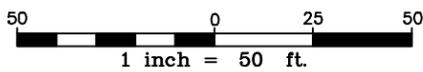
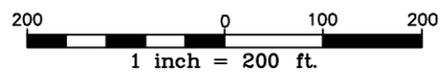
FIGURE 5
FREE PRODUCT THICKNESS AND
EXTENT MAP (SEPTEMBER, 2000)
TOW WAY FUEL FARM

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO



VIEW A

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NOTE:
DATUM PLAN USED IS MEAN LOW WATER = 100.00 FT. AS ESTABLISHED BY
U.S. NAVY SURVEY SECTION AS OF NOVEMBER 1941.

Baker

LEGEND

- - MONITORING WELL LOCATION
- ⊕ - VERTICAL PERMEABILITY SAMPLE LOCATION
- ⊙ - SOIL BORING LOCATION
- ⊗ - SOIL BORING AND SOIL GAS SAMPLE LOCATION
- ⊕ - TERRAVAC PRODUCT RECOVERY WELL LOCATION
- ⊗ - ICHOR PRODUCT RECOVERY WELL LOCATION

FIGURE 6
FREE PRODUCT THICKNESS AND
EXTENT MAP (OCTOBER, 2000)
TOW WAY FUEL FARM

NAVAL STATION ROOSEVELT ROADS
PUERTO RICO

ATTACHMENT 2
U.S. CUSTOM BOAT HOUSE PROJECT DESCRIPTION AND SITE PLAN
SWMU 7, NAVAL STATION ROOSEVELT ROADS

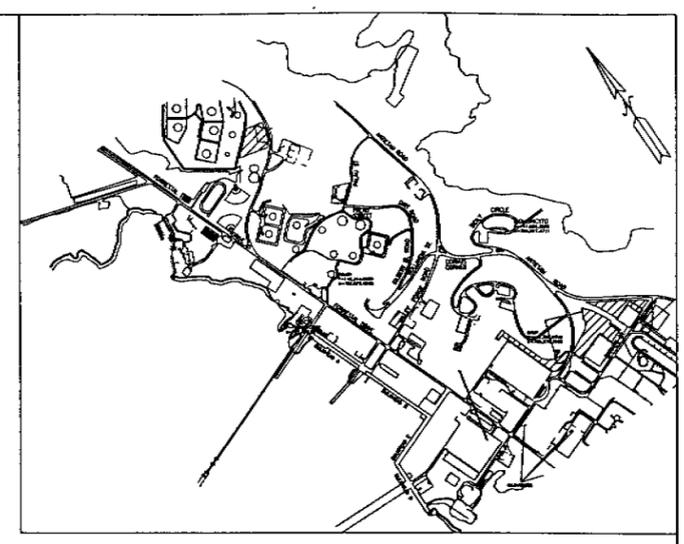
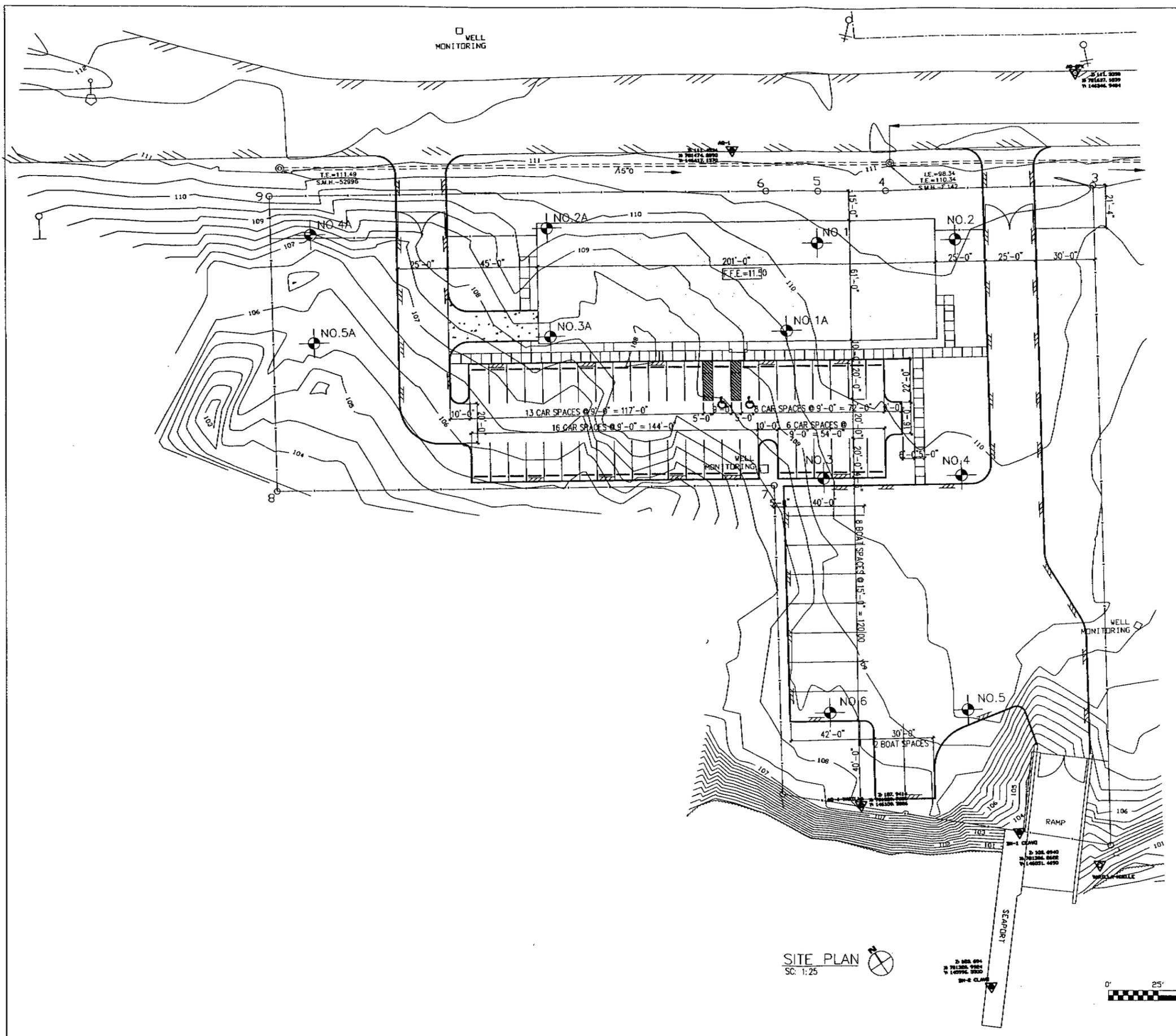
U.S. CUSTOM BOAT HOUSE
USNS ROOSEVELT ROADS CEIBA, P.R.

PROJECT DESCRIPTION

This project will include the construction of a reinforced concrete building (12,000 Sq.ft.) for administrative use with parking spaces for their vehicles and 10 spaces for their vessels. The area for the building will require some fill material and some minor grading on the rest of the area. This complex will have a security fence with access to their boat ramp and piers, which we hope will be completed by the time they start construction of this facility. The area has been cleared with the Natural Resources/Land Use Management Branch at NSRR and no wetland will be impacted in this construction.

The finish floor elevation of the building is 111.50 ft. and the ground elevation on the construction area varies from 108.0 ft. to 110.5 ft. This means that the maximum new ground fill elevation is about 3 ft from the original ground elevation in the southwest area and almost no fill in the northeast area. The maximum excavation depth for footings and underground utilities is between 1.5 ft. to 6 ft. aprox. The ground water depth of the building construction area in the original ground elevations varies from 7'-6" to 10 ft. approximately.

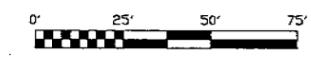
The monitoring wells located on this area will be replaced since they fall within the foot print of the new building or parking lot.



LEGEND

	EXISTING	NEW
BUILDING STRUCTURE	_____	
BITUMINOUS CONCRETE PAVEMENT	_____	
CONCRETE PAVEMENT	_____	
CONCRETE CURB	_____	
CHAIN LINK FENCE	_____	
CONTOUR	_____	
SANITARY MANHOLE		
SOIL BORING LOCATION		
HANDICAPPED PARKING SPACE		
WELL MONITORING		

SITE PLAN
SC: 1:25



no.	revision	date
 U.S. CUSTOMS SERVICE FIELD PROCUREMENT SERVICES GROUP 6026 LAKEVIEW BLVD. - INDIANAPOLIS, IN 46278		
approved	R.G.M.	date
drawn		date
checked	R.G.M.	date
project no.	98027	drawing no.
		C2
date	scale	AS SHOWN
sheet	* of *	