

N60508.AR.000691  
NAS WHITING FIELD  
5090.3a

MONTHLY PROGRESS REPORT FOR PHASE 2A REMEDIAL INVESTIGATIONS DURING  
JULY 1993 WITH TRANSMITTAL NAS WHITING FIELD FL  
8/6/1993  
ABB ENVIRONMENTAL



03.04.00.0017  
ID-00197

August 6, 1993

Commanding Officer  
ATTN: Kim Queen, Code 1859  
Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
Charleston SC 29411-0068

**SUBJECT:                    Monthly Progress Report  
                             Remedial Investigation - Phase IIA  
                             Naval Air Station Whiting Field, Milton, Florida  
                             Contract Task Order 050  
                             Contract N62467-89-D-0317**

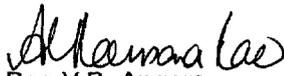
Dear Kim:

Enclosed please find the monthly progress report for the Remedial Investigation (Phase IIA) work conducted at NAS Whiting Field during July 1993.

If you have any questions, please call me at 904-656-1293 (ext. 314). We look forward to working with you on the completion of this project.

Very truly yours,

ABB ENVIRONMENTAL SERVICES INC.

  
Rao V.R. Angara  
Task Order Manager

cc:     File: 7560-- (11.2.1)  
         Eric Blomberg, ABB-ES (w/o attachments)  
         Jim Holland, NASWF (w/o attachments)  
         Robert Pope, USEPA (w/o attachments)  
         John Bleiler, ABB-ES (w/o attachments)  
         Field Trailer (w/o attachments)  
         Charlie Manos, ABB-ES (w/o attachments)

ABB Environmental Services, Inc.

**MONTHLY PROGRESS REPORT**  
**Naval Air Station Whiting Field**  
**July 1993**

**A. TECHNICAL DESCRIPTION OF TASKS CONDUCTED DURING THIS REPORTING PERIOD**

**I. Technical Memorandum Preparation:** Response to FDER and USEPA comments for Technical Memorandum No. 1 (Surface Water and Sediment Assessment) were reviewed and finalized during this reporting period. The document was finalized and submitted to the appropriate agencies on July 30, 1993.

**II. Data Validation:** All analytical data submitted to C.C. Johnson and Malhotra, for NEESA Level C and Level D validation per USEPA and NEESA validation guidelines, has been received. All data is being added to the NAS Whiting Field database being maintained by ABB-ES.

**III. Elevation and Location Survey:** Northwest Florida Engineering is conducting the elevation and location survey at NAS Whiting Field. In May 1993, ABB-ES received a CAD file containing the test pitting and soil boring locations from the subcontractor. During this reporting period, this data was added to the existing database and draft site maps were generated to assist the project team in preparing data releases for analytical data assessment.

**IV. Monitoring Well Installation Program:** The monitoring well program was initiated in January/February 1993. To date, about 70 monitoring wells have been installed. The protective casing, concrete pads, and protective posts are being completed at the end of each shift. Attachment A presents the shift reports submitted by the FOL for all work completed in July 1993.

**V. Wash Rack Investigation:** Per contract modification No. 6, three soil borings were drilled at the Wash Rack located in the Northfield Hangar Maintenance Area. The soil borings were located by the NAS Whiting Field Environmental Coordinator. Samples were collected for TCL VOC, TCL SVOC, and total chromium analysis.

**B. STATUS OF WORK TO DATE**

- Geophysical survey field program has been completed. The final technical report was submitted to the regulatory agencies on February 17, 1993. Response to comments were prepared and presented to the TRC members on 20 May 1993.
  
- The soil gas survey field program has also been completed. The final

technical report was submitted to the regulatory agencies on 10 March 1993.

- The surface water and sediment sampling task has been completed. The draft Technical Memorandum was submitted to SDIV on 18 March 1993 and the Final Draft Technical Memorandum was submitted to the regulatory agencies on 14 April 1993.
- The final record search document was submitted to SDIV in September 1992.
- Test pitting operations (field work), as proposed in RI Phase I Technical Memorandum No. 6, have been completed.
- PCPT/BAT activities were completed on November 4, 1992. Seven PCPT soundings and 14 BAT samples were collected as planned. The Level E data was presented in the January 1993 monthly progress report.

A data release presenting the PCPT/BAT analytical data was submitted to the Navy on June 26, 1993. The data release presents a summary of the findings of this task.

- Data validation for surface soil, subsurface soil, surface water, and sediment sample data has been completed by C.C. Johnson and Malhotra.
- Elevation and location survey of geophysical survey, soil gas survey, soil sampling locations, test pit locations, PCPT/BAT locations, and soil boring locations has been completed.
- The soil boring program, as proposed in Technical Memorandum No. 6 (Phase I), was completed on 27 January 1993.
- The monitoring well installation program, as proposed in Technical Memorandum No. 6 (Phase I), was initiated in January/February 1993.
- The second TRC meeting was held on 20 May 1993 at NAS Whiting Field. The purpose of the meeting was to discuss the status of the field program and discuss the results and findings presented in the Technical Reports

and the Technical Memorandum No. 1. The status of the Clear Creek Floodplain investigation was also discussed during this meeting.

### **C. PROBLEMS ENCOUNTERED DURING REPORTING PERIOD**

- Several procedural difficulties were encountered during the well installation program for the month of July 1993. These are presented in the shift reports submitted by the FOL (see Attachment A).

### **D. ACTIVITIES PLANNED FOR NEXT MONTH**

- TFMR and Monthly Progress Report.
- Preparation of Technical Memorandum #2.
- Prepare for groundwater sampling.
- Continue Monitoring Well Installation Program.
- Data Management and Evaluation.
- Photography/Video Documentation.
- Elevation Location Survey.
- Prepare Data Releases.

### **E. SCHEDULED DELIVERABLES FOR JULY 1993**

- TFMR
- Monthly Progress Report.

### **F. CORRESPONDENCE AND DOCUMENTS RECEIVED**

- FDER comments for Technical Memorandum No. 1.

### **G. COST IMPACTS**

- None

### **H. SAMPLING AND ANALYSIS RESULTS**

- None

## **I. LABORATORY MONTHLY PROGRESS REPORTS**

- None

## **J. PLANNED CHANGES IN PERSONNEL AND THEIR QUALIFICATIONS**

- The project team comprises of the following personnel.

Rao Angara, Task Order Manager  
Eric Blomberg, Technical Leader  
Dr. Willard Murray, Technical Director  
Salvatore Consalvi, Field Operations Leader  
Kathleen Hodak, Project Assistant  
Gopi Kanchibhatla, Associate Engineer  
John Bleiler, Senior Scientist (Ecologist)  
Keith Peterson, Graphics and Photography  
David Daniel, Public Health Specialist

Mr. Roger Protzman (Associate Engineer) and Mr. Felix Rizk (Geologist) have joined the existing NAS Whiting Field team. Mr. Rizk has previously participated in the field programs at NAS Cecil Field and NAS Jacksonville. Mr. Roger Protzman has recently graduated from the University of Missouri, Rolla with a B.S. in Geological Engineering.

## K. PERCENT COMPLETION

Task	Title	% Complete
1	Project Management	41
2	Field Preparation	58
3	Geophysical Survey	100
4	Soil Gas Survey	100
5	Surface Water and Sediment Sampling	100
6	Test Pitting	90
7	Soil Sampling	75 (Subsurface & Surface Soil Sampling Completed, Data Assessment is ongoing)
8	PCPT/BAT	100
9	Soil Boring and Monitoring Well Installation	75
10	Groundwater Sampling	0
11	Water Level Measurement	0
12	Elevation and Location Survey	58
13	Ecological Survey	55
14	Data Validation	68
15	Photography Support	70
16	Technical Memoranda Preparation	14
17	Contamination Assessment Report	0
18	Groundwater Modeling	0

Note: Photography support effort includes videotaping and photographing geophysical survey, soil gas survey, and surface water and sediment sampling events.

**L. TARGET/ACTUAL COMPLETION DATES (by task)**

Task	Title	Scheduled	Actual
1	Project Management	3-30-92 to 4-30-94	Started 3-30-92
2	Field Preparation	4-23-92 to 4-30-94	Started 4-23-92
3	Geophysical Survey	5-28-92 to 5-31-93	5-28-92 to 2-26-93
4	Soil Gas Survey	6-26-92 to 6-30-93	6-26-92 to 3-10-93
5	Surface Water and Sediment Sampling	7-6-92 to 8-1-92	7-6-92 to 8-1-92
6	Test Pitting	9-14-92 to 10-9-92	9-14-92 to 10-9-92
7	Surface Soil Sampling	8-3-92 to 11-10-92	8-3-92 to 10-31-92
8	PCPT/BAT	11-5-92 to 12-28-92	10-12-92 to 11-4-92
9	Soil Boring & Well Installation	1-4-93 to 2-4-94	Started 12-1-92
10	Groundwater Sampling	2-7-94 to 6-30-94	Not Started
11	Water Level Measurement	5-2-94 to 5-13-94	Not Started
12	Locational Survey	2-7-94 to 3-30-94	Started 6-30-92
13	Ecological Survey	2-5-94 to 3-13-94	Started 12-1-92
14	Data Validation	6-15-94 to 10-16-94	Started 9-15-92
15	Photography Support	5-4-92 to 6-30-94	Started 5-4-92
16	Technical Memoranda Preparation	9-1-94 to 4-4-95	Started 12-1-92
17	CA Reports	11-16-94 to 11-29-94	Not Started
18	Groundwater Modelling	-----	-----

- Notes:
1. Task 1 includes project management tasks. Therefore it is for the duration of the project.
  2. Task 2 includes the FOL effort for the complete project.

**ATTACHMENT A**



## Inter-Office Correspondence

---

**TO:** Rao Angara  
cc. Eric Blomberg

**FROM:** Salvatore Consalvi (FOL)

**DATE:** 07/08/93

**SUBJECT:** Monitoring Well Installation Shift XIII Report

**DURATION:** 06/22/93 - 07/01/93

**WEATHER:** Sunny and hot, 80-90 degrees, at times, overcast and rainy.  
Lightning and severe thunderstorms caused several hours (approximately 4 hours per day for a duration of three days) weather delay.

ABB Personnel:

Gopi Kanchibhatla (HSO): 06/22/93 - 07/01/93  
Aaron Cohen (Team Member): 06/22/93 - 07/01/93  
Salvatore Consalvi (FOL): 06/22/93 - 07/01/93  
Donald Wong (Team Member): 06/22/93 - 07/01/93  
Eric Blomberg (Technical Leader): 06/22/93 - 07/01/93  
Tony Allen (Program Manager): 06/23/93  
Rao Angara (Task Order Manager): 06/23/93

Florida Department of Environmental Protection:

David Clowes (Project Manager): 06/23/93 - 06/24/93

Groundwater Protection, Inc. (GPI) Personnel:

Team 1:

Donald H. Steverson (Driller): 06/26/93 - 06/09/93  
Craig Labrosse (Driller/Helper): 06/22/93 - 07/01/93  
Kevin Veillon (Helper): 06/22/93 - 07/01/93  
Eric J. Bard (Runner/Developer): 06/22/93 - 07/01/93  
Eugene Patterson (Runner/Developer): 06/22/93 - 07/01/93

Team 2:

Richard Reed (Driller): 06/22/93 - 07/01/93  
Eric Hull (Helper): 06/22/93 - 07/01/93  
Darrin Dent (Helper): 06/22/93 - 07/01/93

**PURPOSE:** To continue the installation and development of monitoring wells for the Phase II-A RI.

## 1.0 Executive Summary

The thirteenth shift of the boring and monitoring well installation portion of the Phase II-A RI was conducted between 06/22/93 and 07/01/93. A total of 10 monitoring wells were projected to be installed during this shift. The field crews installed 12 monitoring wells during the shift (see Table 1-1) including 0 surface casing. GPI developed 11 wells during the shift (Table 1-2).

**Table 1-1. Monitoring Wells Installed During Shift XII**

WELLS INSTALLED	TOTAL DEPTH (FEET BLS)	Screen Length	SURFACE CASING (FEET BLS)
RIG 1			
WHF-30-4	135	15	NONE
WHF-18-3	110	15	NONE
WHF-1-1 S	72	15	NONE
WHF-1-3	85	15	NONE
WHF-30-5	159	15	NONE
RIG 2			
WHF-33-3	128	15	NONE
WHF-33-2	128	15	NONE
WHF-32-3	110	15	NONE
WHF-32-2	110	15	NONE
WHF-32-4	110	15	NONE

## 2.0 Site Reconnaissance/Utility Clearance

Utility clearance for well locations at Sites 29 and 33 was conducted during the shift. Utility clearance for the locations of all monitoring wells and mud pits completed at Site 3 was conducted during the shifts VIII and IX of the well installation program.

As of 05/13/93, GPI has provided copies of permits for 32 monitoring wells installed in the North Field and the Midfield Areas and the remote area sites. The FOL received additional material specifications during the shift, however, the list is not complete.

**Table 1-2. Monitoring Wells Developed**

Well Number	Time (hours)
WHF-BKG-3	2
WHF-3-7 I	4.5
WHF-3-1 D	6
WHF-3-1 S	6.5
WHF-3-7 D	4.5
WHF-3-7 S	17.5
	WELL IS SLOW TO RECHARGE

### **3.0 Health and Safety**

An initial health and safety meeting was conducted by Gopi Kanchibhatla (H&S Officer) prior to the commencement of drilling. Among the topics presented were emergency procedures, locations of the base and local hospitals, avoidance of accidents around the drill rigs and H&S equipment use. Daily H&S meetings were conducted each morning prior to drilling. The meetings covered various subjects including the previous days compliance with H&S procedures and first aid reviews (heat stress, bleeding, proper exclusion zones, and PPE). The entire list of subjects covered throughout the project along with signatures of attendees is located in the H&S field book.

A procedural change was made during the shift concerning PPE. Due to excessive heat and risk of heat exhaustion, shorts were allowed to be worn under Tyveks. The decision was confirmed by Meg Macleod (ABB Portland).

### **4.0 Surveying**

No surveying conducted or contact with the surveyor made during the shift.

### **5.0 Field Analysis**

GC field analysis has been performed on the soil samples collected from the screen intervals of several monitoring wells. Compilation of the analytical results is not complete at this time. An OVA and/or Porta-Fid regularly used to analyze soil samples and monitor the breathing zone.

### **6.0 Procedural Difficulties**

The following procedural difficulties were encountered during the Shift XIII.

#### **6.1 Monitoring Well Installation**

1. Well WHF-30-4 had an unknown obstruction at approximately 102 feet. Upon further investigation, it was found that the well was deformed/melted at approximately 75 feet. The well was grouted and abandoned. A replacement well was installed approximately 40 feet north of the previous location.

2. Water from the DI trailer has again exhibited signs of contamination when run through the GC. Further study indicated the levels were reduced after the carbon filter. Additional samples will be run to delineate the source.

3. The development crew lost a PVC ball valve with a stainless steel pin attachment in WHF-3-7 I. The FOL and Technical lead do not feel the equipment will effect the integrity of ground water samples. The parts remains in the well.

4. The BK and grundfos pumps need routine repair and replacement of spare parts. Maintenance delays are common.

5. WHF-3-7 S was slow to recharge and the water never completely cleared. The Technical Lead suggested pumping a maximum of 2 hours under these conditions and completing development prior to the purging process.

### 6.2 Mechanical Delays

The following mechanical failures were experienced during the drilling operations in shift XII:

1. The clutch on Rig 1 needed repair at the end of the shift. Approximately 4 hours of down time may be attributed to the malfunction.

### 6.3 Weather Delays

Drilling at the site had to be stopped due to storm and lightning watch during the following days and timings.

Date	Rig 1	Rig 2
06/22/93	1500 hrs.	1500 hrs.
06/24/93	1300 hrs.	1300 hrs.
06/25/93	did not break	1530 hrs.
06/26/93	did not break	1630 hrs.
06/27/93	stopped the work for an hour 1430 hrs. and continued to work till 1930 hrs.	1430 hrs.
06/28/93	1630 hrs.	stopped the work for two hours at 1430 hrs. and continued to work from 1630 to 1930 hrs.

### 6.4 NASWF/Base Issues

During Shift XIII, Mr. Jerrel Anderson informed the FOL of a rumor concerning the quality of the drinking water among the North Field Hangar personnel. The reported source of the rumor was a member of the GPI development crew. The members of the crew admitted that limited discussions had taken place between GPI and the hangar personnel but the most inflammatory remarks were denied. A later discussion between the FOL, Ms. Pat Durbin (PWO), and Jeff Massey (North Field) revealed that a great deal of mis-information was related from GPI to the employees of the hangar during an extensive conversation. A GPI

crew member was not directly identified, however a comparison of the remarks revealed that Eric Bard (GPI) was the most probable source. The discussions have appeared to quell unnecessary concerns at the base. The Task Order Manager contacted GPI management and was informed that a disciplinary action will be taken against Mr. Bard. The GPI management has also guaranteed that Mr. Bard will no longer participate in the field program at NAS Whiting Field.

#### **7.0 Deviation from Workplan**

Twelve additional monitoring wells were added to the Phase II-A list. The technical lead located all of the wells during the shift and 3 of the wells were installed. The wells are not located on maps in the workplan and/or Technical Memorandum No. 6. The exact depths of wells and screen intervals can be found in memorandum from the Technical lead.

Additional soil samples were added to Site 2 and 12 (Memorandum, Technical Leader 7/7/93).



## Inter-Office Correspondence

---

**TO:** Rao Angara  
cc. Eric Blomberg

**FROM:** Salvatore Consalvi (FOL)  
**DATE:** 07/23/93  
**SUBJECT:** Monitoring Well Installation Shift XIV Report  
**DURATION:** 07/13/93 - 07/22/93

**WEATHER:** Sunny and hot, 80-95 degrees, at times, overcast and rainy. Lightning and thunderstorms caused considerable weather delays.

### ABB-ES Personnel:

Salvatore Consalvi (FOL): 07/13/93 - 07/22/93  
Gopi Kanchibhatla (HSO): 07/13/93 - 07/22/93  
Nancy Roka (Team Member): 07/13/93 - 07/22/93  
Eric Blomberg (Technical Leader): 07/20/93 - 07/22/93  
Roger Protzman (Team Member): 07/20/93 - 07/22/93  
Kathy Hodak (Team Member): 07/20/93 - 07/22/93  
Rao Angara (Task Order Manager): 07/21/93

### Groundwater Protection, Inc. (GPI) Personnel:

Donald H. Stevison (Driller): 07/13/93 - 07/22/93  
Craig Labrosse (Lead Helper): 07/13/93 - 07/22/93  
Larry Davenport (Helper): 07/13/93 - 07/22/93  
Eric J. (Helper): 07/13/93 - 07/22/93  
Eugene Patterson (Runner/Developer): 07/13/93 - 07/22/93

### Southern Division

Kim Queen (Present EIC): 07/21/93 - 07/22/93  
Jeff Adams (Future EIC): 07/21/93 - 07/22/93

**PURPOSE:** To continue the installation and development of monitoring wells for the Phase II-A RI.

### **1.0 Executive Summary**

The fourteenth shift of the boring and monitoring well installation portion of the Phase II-A RI was conducted between 07/13/93 and 07/22/93. A total of nine monitoring wells were projected to be installed during this shift. The field crew installed five monitoring wells during the shift (see Table 1-1) including one surface casing. GPI developed three wells during the shift and partially developed a fourth. The first five days of the shift, GPI developed wells installed under the UST program.

### **2.0 Site Reconnaissance/Utility Clearance**

Utility clearance for well locations at Sites 2, 17, 11, 12, 13, and 15 was conducted during Shift XIV. As of 05/13/93, GPI has provided copies of permits for 32 monitoring wells installed in the North Field and the Midfield Areas and the remote area sites. The remainder permits have not been received.

**Table 1-1. Monitoring Wells Installed During Shift XII**

WELLS INSTALLED	TOTAL DEPTH (FEET BLS)	Screen Length	SURFACE CASING (FEET BLS)
WHF-17-3	124	15	NONE
WHF-17-1 S	cased	--	35
WHF-2-1	85	15	NONE
WHF-15-2 D	110	15	NONE
WHF-11-1 S	51	15	NONE
WHF-13-1 S	58	15	NONE

**Table 1-2. Monitoring Wells Developed**

Well Number	Time (hours)
WHF-13-2	3
WHF-11-2	4
WHF-10-2S	3
WHF-9-3S	2

### 3.0 Health and Safety

An initial health and safety meeting was conducted by Gopi Kanchibhatla (H&S Officer) prior to the commencement of drilling. Among the topics presented were emergency procedures, locations of the base and local hospitals, avoidance of accidents around the drill rigs and use of H&S equipment use. Daily H&S meetings were conducted each morning prior to drilling. The meetings covered various subjects including the previous days compliance with H&S procedures and first aid reviews (heat stress, moving an injured person, proper exclusion zones, and PPE). The entire list of subjects covered throughout the project along with signatures of attendees is located in the H&S field book.

A procedural change was made during the Shift XIII concerning PPE. Due to excessive heat and risk of heat exhaustion, shorts were allowed to be worn under Tyveks. The decision was approved by Ms. Meg Macleod (ABB-ES Portland).

### 4.0 Surveying

Surveying was not conducted during Shift XIV.

### 5.0 Procedural Difficulties

The following procedural difficulties were encountered during the Shift XIV.

### 5.1 Monitoring Well Installation

1. GPI brought the exact amount of augers for the deepest estimated depth. The water table was deeper and the additional augers requested were not available until the next day.
2. Water from the DI trailer has again exhibited signs of contamination when run through the GC. Further study indicated the levels were reduced after the carbon filter. Additional samples were not run this shift. The trailer will be returned to Tallahassee at the end of next shift to be thoroughly serviced.
3. WHF-3-3S has PVC pipe from Shift XII in the well. The pipe will be removed during the next shift.
4. It was determined that the well screen was wearing a hole in the ball valve and causing the hose to drain between strokes. There is a fear of permanent damage to the well screen and Donny Steverson suggested a solution that will be attempted next shift.
5. The development crew was planned to work for the UST group for the first two days of the shift and begin developing RI wells. Due to delays and malfunctions, they did not begin until the sixth day of the shift.

### 5.2 Mechanical Delays

The following mechanical failures were experienced during the drilling operations in shift XIV:

1. PVC tremie pipe was dropped while setting the sand pack at WHF-17-3. It was later removed but down time was recorded.

### 5.3 Weather Delays

Drilling at the site had to be stopped due to storm and lightning watch at approximately 1600 hrs. between 7/19/93 and 7/21/93.

### **6.0 Sampling and Analysis**

Per USEPA and FDER recommendation during the project managers meeting in Atlanta, subsurface soils from Site 12 collected during this shift. Eight samples were collected from the several mounds of tetraethyl lead contaminated were collected for NEESA Level C and Level D analysis.

### **7.0 Deviation from Workplan**

#### 7.1 Monitoring Well Location

All the wells installed this shift were among the twelve additional monitoring wells added to the Phase II-A list. Additional soil samples were added to Site 2 and 12 (Memorandum, Technical Leader 7/7/93). Soil samples at Site 12 were collected by Mr. Roger Protzman and Mr. Eric Blomberg. They will be collected next shift. Site 2 samples will be collected during the next shift.