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NAS WHITING FIELD
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MONTHLY PROGRESS REPORT FOR PHASE 2A REMEDIAL INVESTIGATIONS DURING
JUNE 1993 WITH TRANSMITTAL NAS WHITING FIELD FL
7/7/1993
ABB ENVIRONMENTAL



03.04.00.0016

1D-00196

July 7, 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 June 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)

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MONTHLY PROGRESS REPORT
Naval Air Station Whiting Field
June 1993

A. TECHNICAL DESCRIPTION OF TASKS CONDUCTED DURING THIS REPORTING PERIOD

I. Soil Gas Survey: Draft Response to Comments were submitted to the Navy during this reporting period. The responses will be finalized and submitted to the agencies during the next reporting period.

II. Technical Memorandum Preparation: The USEPA comments for the Final Draft Technical Memorandum No. 1 (Surface Water and Sediment Assessment) were received on June 25, 1993. Upon receipt of comments from FDER, responses will be prepared and the Technical Memorandum will be finalized.

III. Data Validation: Analytical data was submitted to C.C. Johnson and Malhotra for NEESA Level C and Level D validation per USEPA and NEESA validation guidelines. Data validation reports are being received on a regular basis. All new data is being added to the NAS Whiting Field database being maintained by ABB-ES.

IV. 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.

V. Monitoring Well Installation Program: The monitoring well program was initiated in January/February 1993. To date, about 65 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 June 1993.

VI. PCPT/BAT Sampling: 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. This information will be incorporated into the appropriate Technical Memorandum to be prepared later.

VII. Water Level Measurement: To determine the location of monitoring wells at the Northfield, Midfield and Southfield hangar areas, ABB-ES completed an elevation survey to determine the groundwater flow direction. The well locations at these sites were determined based on the data obtained from this survey.

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 on 18 March 1993 and the Final Draft Technical Memorandum was submitted on 14 April 1993.
- The final record search document was submitted to SDIV in September 1992.
- ABB-ES and SDIV met with the U.S. Environmental Protection Agency (USEPA), National Oceanic and Atmospheric Administration (NOAA), and Florida Department of Environmental Regulation (FDER) on 13 November 1993 to discuss Navy response to agency comments for the Phase I Final Technical Memoranda. Several items involving project scope change were recommended by the agencies. These were presented in a scope change memorandum to SDIV.
- 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.
- Data packages (surface soil, subsurface soil, surface water, and sediment sampling) are being submitted to C.C. Johnson and Malhotra for validation.
- 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

- None

D. ACTIVITIES PLANNED FOR NEXT MONTH

- TFMR and Monthly Progress Report.
- Preparation of Response to Comments - Technical Memorandum #1.
- Preparation of Final Technical Memorandum #1 (upon receipt of agency comments).
- 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

- None

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
Matt Alvarez, Associate Engineer
Gopi Kanchibhatla, Associate Engineer
John Bleiler, Senior Scientist (Ecologist)
Keith Peterson, Graphics and Photography
David Daniel, Public Health Specialist

K. PERCENT COMPLETION

Task	Title	% Complete
1	Project Management	39
2	Field Preparation	55
3	Geophysical Survey	100
4	Soil Gas Survey	100
5	Surface Water and Sediment Sampling	100
6	Test Pitting	90
7	Soil Sampling	65 (Subsurface & Surface Soil Sampling Completed, Data Assessment is ongoing)
8	PCPT/BAT	100
9	Soil Boring and Monitoring Well Installation	60
10	Groundwater Sampling	0
11	Water Level Measurement	0
12	Elevation and Location Survey	50
13	Ecological Survey	55
14	Data Validation	60
15	Photography Support	65
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.
 3. Shaded area indicate modifications to schedule.
 4. The soil boring program was initiated ahead of schedule because the PCPT/BAT operations were completed ahead of schedule.
 5. The PCPT/BAT operations were completed ahead of schedule because the cone soundings could not be conducted to the proposed depths. Also the drill rig and the cone truck were operated simultaneously.
 6. Tasks 3 and 4 identify a change in completion dates because the preparation of technical reports has been added to these tasks.

ATTACHMENT A



Inter-Office Correspondence

TO: Rao Angara
cc. Eric Blomberg

FROM: Salvatore Consalvi (FOL)

DATE: 06/17/93

SUBJECT: Monitoring Well Installation Shift XII Report

DURATION: 06/08/93 - 06/17/93

WEATHER: Sunny and hot, 80-90 degrees, at times, overcast and rainy.
Lightning and severe thunderstorms caused 4 hour weather delay.

ABB Personnel:

Gopi Kanchibhatla (HSO): 06/08/93 - 06/17/93
Alan Workman (Team Member): 06/08/93 - 06/17/93
Salvatore Consalvi (FOL): 06/08/93 - 06/17/93
Mark Lieberman (Team Member): 06/08/93 - 06/17/93
Donald Wong (Team Member): 06/08/93 - 06/17/93
Rao Angara (Task Order Manager): N/A
Eric Blomberg (Technical Leader): N/A
Kathy Hodak (Project Assistant): N/A

Groundwater Protection, Inc. (GPI) Personnel:

Team 1:

Donald H. Stevison (Driller): 06/08/93 - 06/09/93
Creig Labrosse (Helper): 06/08/93 - 06/17/93
Kevin Veillon (Helper): 06/08/93 - 06/17/93
Eric J. Bard (Runner/Developer): 06/08/93 - 06/17/93
Eugene Patterson (Runner/Developer): 06/08/93 - 06/17/93

Team 2:

Richard Reed (Driller): 06/08/93 - 06/17/93
James Hinst (Helper): 06/08/93 - 06/17/93
Darrin Dent (Helper): 06/08/93 - 06/17/93

Standby Drillers:

Bill Nilles (DOM): 06/08/93 - 06/17/93

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

1.0 Executive Summary

The twelfth shift of the boring and monitoring well installation portion of the Phase II-A RI was conducted between 06/08/93 and 06/17/93. A total of 14 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 1 surface casing. GPI developed 11 wells during the shift.

Table 1-1.
Monitoring Wells Installed During Shift XII

WELLS INSTALLED	TOTAL DEPTH (FEET BLS)	Screen Length	SURFACE CASING (FEET BLS)
RIG 1			
WHF-3-1D	180	5	104
WHF-3-1 S	123	10	104
WHF-3-7 S	123	10	109
WHF-30-4 Melted*	138	15	none
WHF-30-3	135	15	none
RIG 2			
WHF-29-1	140	15	none
WHF-29-2	137	15	none
WHF-29-3	139	15	none
WHF-29-4	139	15	none
WHF-29-5	132	15	none
WHF-33-1	127	15	none
WHF-33-4	135	15	none

Note: Well WHF-30-4 will be reinstalled during the next shift.

Table 1-2
Monitoring Wells Developed

Well Number	Time (hours)
WHF-6-3 S	4
WHF-33-5	3.75
WHF-32-5	3
WHF-32-1	2.5
WHF-3-2 S	3 (men at well) 10.25 (recharge)
WHF-3-2 D	3
WHF-3-3 S	1
WHF-3-3 D	3.5
WHF-3-7 D	3
WHF-3-7- I	3
WHF-BKG-2	2.75

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 monitoring 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.

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, symptoms of exposure to contaminants of concern, eye injuries, 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).

There were no serious injuries reported during the shift. However, GPI Team-2 disregarded ABB instructions

concerning PPE during Level B work. The crew was allowed to wear shorts under their Tyveks as long as the integrity of the suit was maintained. They disregarded this and intentionally tore the suit for ventilation. They then disregarded the request of the ABB-ES engineer and continued drilling. The practice was stopped by the FOL and the crew became more cooperative during the remainder of the shift.

4.0 Audit/Meetings

Audits were not conducted during Shift XIII.

5.0 Surveying

An elevation survey of the monitoring wells was conducted by ABB-ES at the Midfield and Northfield Hangars. The survey included existing as well as Phase II-A wells. Water levels were taken and a preliminary estimation of groundwater flow direction was calculated. The flow directions were used to better locate the remaining monitoring wells.

Bill Stiffy (NWFE&S) was contacted to schedule the survey of the well elevations and locations. He scheduled the work for 07/12/93 and asked the FOL to call the preceding week for confirmation.

6.0 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 is being used to analyze soil samples and monitor the breathing zone.

7.0 Procedural Difficulties

The following procedural difficulties were encountered during the Shift XII.

7.1 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 will be replaced next shift at a location identified by the Technical Leader.
2. The development crew lost 80 feet of pvc and a retrieval spear down monitoring well WHF-3-3 S. The equipment was retrieved using another spear.
3. Water from the DI trailer has again exhibited signs of contamination when run through the GC. A new carbon filter may be required. The FOL will address this concern with Culligan Services.

7.2 Mechanical Delays

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

1. Hydraulic hose on Rig 1 break-out table ruptured on 6/13/93. No spill was reported and limited down time resulted.

2. Lost and retrieved tremie pipe in WHF-30-3 (minimal down time).
3. The BK handpump was not operable for a significant portion of the shift. At times, the grundfos was used to develop the wells and required maintenance as a result.

7.3 NASWF/Base Issues

On the first day of the shift GPI informed ABB-ES that the wash rack area contained piles of mud and grass. Mr. Jim Holland was informed of the condition of the area in order to avoid an unnecessary complaint. Because the problem persisted throughout the shift, Mr. Holland was provided an update on a regular basis.

Ms. Julie Catone (NASWF) inquired whether debris from Sites 17 and 18 could be removed. She was referred to Eric Blomberg for further information.

8.0 Deviation from Workplan

8.1 Monitoring Well Location

Monitoring wells were located using information gathered thus far during RI Phase II-A. Locations may differ from the maps in the RI Phase I Workplan and/or RI Phase I Technical Memorandum No. 6. The exact depths of wells and screen intervals are determined in the field based on site specific conditions. Rationale for such modifications are recorded in field log books and drilling summaries.