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MINUTES FROM 18 JANUARY 1996 RESTORATION ADVISORY BOARD MEETING NSB KINGS BAY GA
1/30/1996
ABB ENVIRONMENTAL

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ASEA BROWN BOVERI

January 30, 1996
(9601013.wp/KB008/8523.24)

Commanding Officer
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, SC 29418

Attention: Mr. Anthony Robinson
Code 18511

Subject: Meeting Summary
January 18, 1996 Restoration Advisory Board Meeting
St. Mary's, GA

Reference: NSB Kings Bay
Contract Task Order 094
Prime Contract Number N62467-89-D-0317

Dear Mr. Robinson:

This letter summarizes the topics discussed during the Restoration Advisory Board (RAB) meeting held at the Public Library in St. Mary's, Georgia on January 18, 1996.

Attendees: Attachment 1 provides a list of attendees. Agencies and interests represented include:

Georgia Environmental Protection Division (GEPD)
Naval Submarine Base (SUBASE), Kings Bay, Georgia
Southern Naval Facilities Engineering Command (SOUTHDIV)
Various private citizens
Various media representatives
U.S. Geological Survey (USGS)
ABB Environmental Services, Inc. (ABB-ES)

The meeting followed the agenda that is provided as Attachment 2.

Lt. Burbage made introductions and reviewed the minutes of the last RAB meeting. No questions or issues were raised during this review.

SITE 11 UPDATE

Sandi Mukherjee, Environmental Engineer, provided a Site 11 update. Sandi stated that since the last RAB meeting, most of the activity relative to Site 11 was performed in the office. Three major reports are expected to be released in the first quarter of 1996 and include:

- o the Phase II Corrective Action Plan (CAP) summarizing the proposed upgrades to the existing Interim Measure (IM) system,
- o an Addendum to the IM Evaluation and Recommendations Report which addresses GEPD comments, and
- o the Supplemental RCRA Facility Investigation (SRFI) Report.

Sandi also provided an update on the field activities being performed by the USGS at Site 11. The USGS completed a field task in December in support of their efforts to assess regional and local groundwater flow systems. They installed several observations wells, placed a continuous water level recorder in an existing monitoring well at the landfill, and installed a rain gauge in order to assess infiltration and recharge rates. Their efforts will be used in coordination with ABB-ES' information to develop a groundwater model to assess the effects of engineered solutions on groundwater cleanup.

Upcoming environmental activities at SUBASE include (1) a pulse-pumping test and (2) continued operation and maintenance of the system by SUBASE. A blower is scheduled to be replaced in mid-February. Once this is replaced, a pulse-pumping test will be performed to provide data for assessing the potential effectiveness this type of pumping may have of contaminant extraction. Pulse-pumping, a term used when groundwater extraction pumps are periodically turned on and off, can be an effective means of contaminant extraction under the right physical conditions of the aquifer. Because the system has been turned off due to the need to repair the blower, SUBASE will take advantage of this down-time and investigate the pulsing effect on the aquifer and contaminant levels as the pumps are turned back on.

IM SYSTEM UPGRADE POSSIBILITIES

SUBASE's environmental consultant, ABB-ES, presented the possibilities for IM system upgrades that are being incorporated into the Phase II CAP. Ted Taylor presented the information, and mentioned that the Phase II activities are in the planning stages at this time, and will receive review and comment by GEPD. When asked, Ted mentioned that the reason for the Phase II upgrades was to address GEPD comments to the IM Evaluation and Recommendations report. GEPD has requested that groundwater containment include all areas of the landfill, not just the more affected areas currently being captured.

The presentation began with a brief summary of the Phase I operations, and how five recovery wells currently exist which capture contaminated groundwater from the most affected portions of Site 11. The current interpretation of the capture zones (the areas around each recovery well from which groundwater is being drawn) was presented.

Phase II system upgrades will include the following four steps:

- o redevelopment of the existing recovery wells,
- o installation of up to three new recovery wells,
- o modifying the current groundwater treatment system, and
- o performance monitoring to assess the effectiveness of the upgrades.

Recovery well redevelopment includes a series of steps to remove sediment, biological, and mineral build-up from the well screen and filter material which surrounds the screen. Following this task, the new recovery wells will be precisely located based on a current set of groundwater and well efficiency data, and through the use of a computer model. After location is determined, the recovery wells will be designed and constructed. A performance monitoring plan will then be developed to monitor system effectiveness.

QUESTIONS/COMMENTS

The question was asked why SUBASE is spending the money to upgrade this system if it is not operational now? SUBASE explained that the current shut-down is only temporary, and the length of the shut-down is a result of the time needed to wait for a spare part. Once the blower is fixed, normal operation of the system will continue. SUBASE emphasized that the velocity at which groundwater flows through the aquifer is only on the order of a few tens of feet per year, and that the recent shut-down has not resulted in significant downgradient movement of contaminants.

The question of SRFI data was raised. SUBASE/ABB-ES mentioned that the SRFI report should be available in time to be discussed at the next RAB meeting.

NEXT RAB MEETING

Lt. Burbage closed with a brief wrap-up and a discussion concerning the next RAB meeting. Those present would like to see a presentation of data that will be presented in the SRFI report. To facilitate this discussion, the group agreed to hold the next meeting in May to provide one additional month for preparation and presentation of the data. May 9th, 1996 at 10:00 a.m. was selected as the next meeting time and date.

Lt. Burbage announced that Mr. John Linnehan will be resigning his position on the RAB committee because he is moving to the Jacksonville area. The group stated their appreciation for his involvement in the environmental activities over the years, and wished him well in his new location.

The meeting was adjourned.

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Respectfully submitted:

ABB ENVIRONMENTAL SERVICES, INC.

Theodore W. Taylor, P.G.
Task Order Manager

cc: Lt. Burbage