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NCBC GULFPORT  
5090.3a

MONTHLY ASSESSMENT REPORT FOR FREE PHASE PRODUCT BETWEEN 1 JANUARY  
1994 AND 31 JANUARY 1994 SITE 6 WITH TRANSMITTAL NCBC GULFPORT MS  
1/14/1994  
ABB

39501-IRP  
18.03.06.0005



14 January 1994

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

Attention: Mr. Marshall Knight

Subject: NCBC Site 6 Free Phase Product Assessment  
Contract Task Order 096  
Progress Report - January 1994

Dear Marshall:

This progress report covers the period from 1 January 1994 through 31 January 1994. The status of major task activities conducted during this CTO, as well as projected activities, is summarized in Attachment 1. The photographs and descriptions are included in Attachment 2.

If you have any questions, please call me at (615) 531-1922.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.



Penny M. Baxter  
Senior Project Manager

attach

pc: SouthDiv  
file

[8505.013]

ABB Environmental Services Inc.

ATTACHMENT 1  
MONTHLY PROGRESS REPORT  
JANUARY 1994  
NCBC GULFPORT SITE 6  
CTO 96

#### A. WORK ACCOMPLISHED DURING REPORTING PERIOD

A copy of Technical Bulletin 06-02 was forwarded to Gordon Crane/NCBC and the USGS on 5 January 1994. This report described the activities completed during the second field shift - monitoring well installation and sampling. A copy of this report was forwarded to Marshall Knight/SouthDiv on 7 January 1994 as soon as it was known that he was responsible for this CTO.

The third and final field shift was completed during the week of 10 January 1994. During this effort the field team completed a pumping test to evaluate recovery of the free phase product. During this test groundwater depression caused a thickening of the free phase product suggesting that optimum product removal will occur during simultaneous groundwater extraction.

During the third field shift M. Knight/SouthDiv and P. Baxter/ABB-ES met in Gulfport to observe the pumping test and discuss future activities of this CTO.

Photographs taken during the third field shift are presented in Attachment 2.

After completion of the third field shift work began on writing the final technical bulletin, TB 06-03. The delivery of this technical bulletin was the first of February.

#### B. FUTURE PROJECT ACTIVITIES

No further field activities are planned for this CTO except as noted below in Section D. The forward focus of this CTO is in the reporting, evaluation of data, and design of the extraction system. The next deliverable is the data evaluation report due to SouthDiv on 4 April 1994.

On 24 January an inquiry was made by M. Knight about the possibility of expediting the design phase of this CTO. The original schedule for the engineering evaluation and interim design had a planned start date of 24 May 1994 and delivery date of 13 October 1994 for the 90% design. The team will make every effort to expedite the 13 October date to accommodate this request. A target date for 90% design of 15 August 1994 has been suggested.

#### C. FINANCIAL STATUS SUMMARY AND PROJECTION

This CTO is on track financially except as noted in previous monthly reports.

#### D. TECHNICAL STATUS SUMMARY AND PROJECTION

The project is on schedule and there are no outstanding technical issues. A field team will be at NCBC during the week of 14 February for a preliminary field activity at the Herbicide Orange site and will work with the base's waste handlers to remove the contents of the Baker tank.

Issuance of the fact sheet for the field activities is unresolved. ABB-ES is waiting for approval of the mock-up sheet.

ATTACHMENT 2  
PHOTOGRAPHS AND DESCRIPTION  
FIELD SHIFT # 3  
JANUARY 1994

Note: Photographs taken with site camera with printed date capacity.

<u>Photograph Number</u>	<u>Description</u>
5-1	Unexposed
5-2	View west prior to pumping test. K. Sichelstiel/ABB-ES filling in paper work near recovery well on right.
5-3	View west looking at GPT 6-4 on right and GPT 6-5 on left. Cables running into wells and secured by duck tape hold transducers installed in wells.
5-4	View south to recovery well to right of K. Sichelstiel. Groundwater pump is installed in recovery well, white hose is discharge line for groundwater, small brown box to right of well is peristaltic pump for free product, and small white hose leading into drum is for free product discharge.
5-5	Close up view of recovery well looking to east. Pumps are installed, peristaltic pump is small instrument in foreground.
5-6	View to north looking at Building 390. Blue instrument is the Hermit 2000 for collection of water level data. Six cable spools leading to the transducers are shown.
5-7	View of recovery well in foreground. K. Sichelstiel/ABB-ES on left and M. Knight/SouthDiv on right.
5-8	View of pumping discharge assembly associated with groundwater discharge. Valve to left is for in-line sampling, valve on left chair was used to regulate flow, totalizing flow meter on right chair monitored flow volume, and dark object to right is a y-strainer used to capture coarse-grained sediment.
5-9	View south of 6500 gallon Baker tank used to hold groundwater effluent collected during pumping test.
5-10	Close up view of recovery well with groundwater discharge line (large white tubing), free phase produce discharge line (small clear tubing containing dark free product) and colored cables (groundwater pump electrical supply lines).

Photograph  
Number

Description

5-11	Close up of Masterflex peristaltic pump used to collect free product from recovery well. Clear tubing leads from well, through pumping assembly, and out to drum for collection.
5-12	H. Faircloth/ABB-ES installing staff gauge on well point WP-1 in ditch on western edge of site.
5-13	Close up view of cable spool and pressure transducer.
5-14	View of Baker tank looking to the east. White riser pipe in foreground is reconfigured hydropunch location used for water level observations.
5-15	Companion printer to Hermit 2000 data logger printing collected data file.
5-16	Night time view of recovery well and pumping test assembly.
5-17	Over exposed. Did not print.
5-18	Night view of K. Sichelstiel/ABB-ES checking extracted groundwater level in Baker tank.
5-19	Close up view of totalizing flow meter showing final reading of total discharge volume of 4010 gallons.
5-20	B. Fisher/ABB-ES at Hermit 2000 data logger downloading data from pumping test.
5-21	Same as 5-20.
5-22	Close up of companion computer ready to download data from the Hermit data logger.
5-23	Same as 5-20.
5-24	H. Faircloth/ABB-ES dismantling the ball valve, flow meter, and y-strainer assembly after completion of the pumping test.