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CNC CHARLESTON  
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INFORMAL PROGRESS REPORT LETTER OF BIOREMEDIATION SYSTEM AT DEFENSE  
FUEL SUPPLY POINT (DFSP) CNC CHARLESTON SC  
02/06/1992  
U S GEOLOGICAL SURVEY



# United States Department of the Interior

## GEOLOGICAL SURVEY

Water Resources Division  
Stephenson Center, Suite 129  
720 Gracern Road  
Columbia, SC 29210-7651  
February 6, 1992

TO: 1823

FROM: 18231

F41

Daryl Fontenot  
Southern Division Naval  
Facilities Engineering Command  
2155 Eagle Drive  
P.O. Box 10068  
Charleston, South Carolina 29411-0068

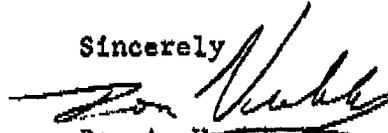
Dear Mr. Fontenot:

This is an informal progress report of the bioremediation system startup at Defense Fuel Supply Point, Hanahan, SC. I will attempt to supply reports on a more or less weekly basis during startup and revert to the normal quarterly reports after system startup.

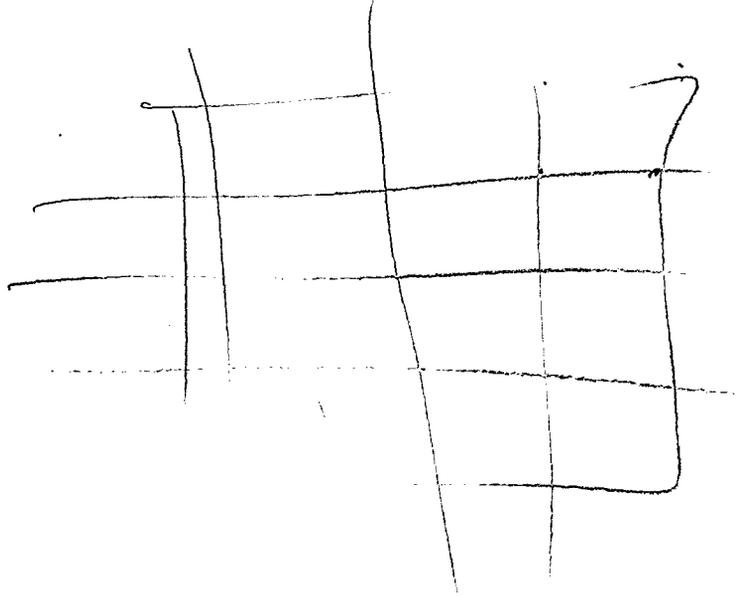
1. Started up wells EW-9, EW-10, and EW-11 at 3.4 gpm (gallons per minute) at Tank 2 and well EW-18 in the neighborhood at 6.8 gpm on 1/27/92. Started pumping Santee Limestone water to infiltration gallery 2 at a rate of 7 gpm. Began measuring specific conductance at wells EW-9, EW-10, and EW-11. Trident Labs was told to begin their daily site inspections.
2. On 1/29/92, a check of the system showed that initial pumping rates had declined to about 2 gpm in wells EW-9, EW-10, and EW-11 and 3 gpm were being pumped to infiltration gallery 2. The pumping rates were adjusted to the original values.
3. On 2/4/92, a check of the system showed that EW-10 had not been operating for about a day. Don Matthews was informed, and he scheduled an electrical contractor to check out the well switch. Repairs are expected on 2/6/92. Because we are required to capture our recharge water, and because well EW-10 is at the center of gallery 2, I turned off the water flow to gallery 2 until well EW-10 is repaired. Wells EW-9, EW-11, and EW-18 continue to operate.
4. The average pumping rates of wells EW-9 and EW-11, calculated from totalizer readings was about 2 gpm. The measured drawdowns in the wells on 2/4/92 was 8 to 10 ft. The drawdown is excessive, so I decreased the pumping rate.
5. Started wells EW-13 and EW-14 (at tank 3) on 2/4/92. Pumping rates were set at about 1.5 gpm because the drawdowns at wells EW-9 and EW-10 implied that a pumping rate of 3.4 gpm is excessive. Specific conductance (as a tracer of Santee Limestone water) is being measured

electronically every half hour in observation wells near the pumping wells. This week we are collecting background readings. Next week we plan to start pumping Santee Limestone water to the mini-infiltration galleries at tank 3.

Sincerely



Don A. Probesky



PHONE MEMO

DATE CALL MADE: \_\_\_\_\_

DATE CALL RECEIVED: 31 JAN 92

TIME: \_\_\_\_\_

TIME: 1340-1430

PHONE NO.: \_\_\_\_\_

ACTIVITY/FIRM: \_\_\_\_\_

PERSON SPOKE WITH: \_\_\_\_\_

SUBJECT: DFSP Remediation System SITE VISIT

REFERENCE: \_\_\_\_\_

SUMMARY: Visited DFSP to look over the remediation system in operation. 4 wells are online (9, 10, 11 + 18). Talked to Larry Verhosek at DFSP. Don Matthews was out. Trident comes out every weekday ~~morning~~ between ~~8-11A~~ 0600-0700. On weekends they are scheduled for between 0900-1000. System appears to be operating OK. Well 10 was not on during my visit.

NAME: D. L. FONTENOT

CODE: 18231