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NAS WHITING FIELD  
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LETTER REGARDING FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
ACCEPTANCE OF HYDROGEOLOGIC GROUNDWATER MONITORING PLAN AS  
CONTAMINATION DETECTION PLAN WITH CONDITIONAL MODIFICATIONS NAS WHITING  
FIELD FL  
5/2/1985  
FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL RE

18.01.00.0010

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THWEST DISTRICT  
160 GOVERNMENTAL CENTER  
PENSACOLA, FLORIDA 32501-5794



GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

ROBERT V. KRIEDEL  
DISTRICT MANAGER

May 2, 1985

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11422 <sup>ac</sup>

Mr. D. R. Spell, P.E.  
Environmental Branch  
Department of Navy  
Southern Division  
P. O. Box 10068  
Charleston, South Carolina 29411

Dear Mr. Spell:

The Department has completed its review of the proposed detection and monitoring plan which was submitted during March 1985 by Geraghty & Miller for the battery shop at Whiting Field NAS.

This report is essentially a compilation of segments of Geraghty & Miller's previous assessment submitted to the Department in 1984. No additional or site specific hydrogeologic data has been provided to assess the adequacy and/or location of the proposed monitoring wells.

This plan can be accepted as a contamination detection plan provided the following measures are taken:

1. The original bore hole situated adjacent to the dry well be developed into a permanent monitoring well rather than a temporary monitoring well.
2. All monitoring wells and/or core borings be utilized to obtain the site specific lithologic information referenced in the Department's September 18, 1984 letter to C. L. Lavinder of the U.S. Navy (attached).
3. In the event the proposed monitoring wells reveal a ground water flow direction other than that inferred then the Navy may need to install additional well(s) downgradient to detect contaminants, if any.
4. Following completion of monitor well installation, water levels should be measured daily in all four monitor wells for a minimum of seven days prior to the proposed yield (pump-out) test. During this

same seven-day period; operation of the supply well, W-S2, should be documented with respect to flow rate, number of hours in operation and "on and off" status of the supply well at the time monitor well water levels are measured. Water level measurements observed during a seven-day period will provide a reasonable determination of the ground water flow direction in the probable discharge zone for the dry well.

5. Prior to the proposed yield test, W-S2 should be shut <sup>in</sup> for a period of time sufficient to allow full recovery of hydraulic head to "background" levels. Measurement of this static water level is procedural for any pump test but in this case will also be useful in reference to potential for vertical fluid movement across the confining bed separating the monitor and supply wells. Good background data will enhance the utility of the pump test results with respect to evaluation of hydraulic separation between the two zones.

6. Page 24 of the report references EP toxicity tests for zinc and nickel. There are no toxicity tests for zinc and nickel. It is requested; however, that the Navy analyze the soil samples by EP Toxicity for arsenic, mercury and selenium in addition to the cadmium and lead. These metals have been reported in the literature to be constituents found in lead-acid batteries.

7. The report states on pages 24 & 45 that the monitoring wells will be analyzed for EPA priority pollutants and the DER's primary drinking water standards. Paragraph 7 of the Consent Order specifies that additional secondary drinking water standards shall be performed. Additionally, it is requested that the Navy sample for aluminum which can be leached out of the natural soils by acids.

8. Some of the parameters sampled initially may need to be added to the quarterly list depending on the soil and ground water sampling results.

In the event you should have any questions or would like to discuss this matter further, please feel free to contact Mr. Charles Goddard of this office at (904) 436-8320.

Sincerely,

  
George E. Hoffman, Jr.  
District Enforcement Officer

GEH:cgd

Attach: Ltr dtd 9/18/84

cc: Ralph Moon, Geraghty & Miller  
Sonny Chesnut  
Jim Crane  
Brad Thomas, Esq.