



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 377TH AIR BASE WING (AFMC)

1 Dec 97

MEMORANDUM FOR MS. MARCY LEAVITT, CHIEF  
GROUND WATER QUALITY BUREAU  
NEW MEXICO ENVIRONMENT DEPARTMENT  
PO BOX 26110  
SANTA FE NM 87502

FROM: 377 ABW/EM  
2000 Wyoming Blvd SE, Suite D4  
Kirtland AFB NM 87117-5659

SUBJECT: FY 98 Groundwater Monitoring at the Sewage Lagoons and Golf Course Main Pond

1. During FY 97, as part of KAFB's Long-Term Groundwater Monitoring Plan (LTM), monitoring was conducted for four quarters at the Golf Course Main Pond (GCMP), but was discontinued after the second quarter at the Sewage Lagoons (SL) due to the declining groundwater levels (KAFB letter dated 21 Apr 97). In FY 98, groundwater monitoring will continue at the GCMP and be reinitiated at the SL as part of the LTM.
2. Detection monitoring will be conducted at the GCMP, on a semi-annual basis, beginning in Mar 98, with two sampling events scheduled for FY 98. Analytical parameters will remain the same, Volatile Organic Compounds (VOC) and Nitrate as N. Detection monitoring will collect data for comparison to the baseline determinations. Baseline sampling was initiated in Dec 96 on a quarterly basis and completed in Sep 97. Baseline determinations will be summarized in the LTM annual report to be submitted to the New Mexico Environment Department in Mar 98.
3. To reinitiate monitoring at the SL, four monitor wells will be installed. Two replacement wells will be completed in the regional aquifer with two additional wells to be completed in the perched aquifer recently discovered beneath Sandia National Laboratory's Tech Area II, if it extends to the SL. Wells will be located upgradient and downgradient of the site for each aquifer. The analytical parameters for wells completed in the regional aquifer will include Nitrate as N and VOCs, continuing the previous sampling plan for this site. The analytical parameters for wells completed in the perched aquifer will include all of the LTM parameters because the perched aquifer has not been previously sampled in this area: Groundwater Quality Parameters (chloride, iron, manganese, phenols, sodium, sulfate, fluoride and nitrate-N), Contaminant Indicator Parameters (specific conductance, pH, TOC and TOX), VOCs (EPA 8260A), RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), herbicides (2,4-D, 2,4,5-TP Silvex), pesticides (endrin, lindane, methoxychlor and toxaphene) and radionuclides (gross alpha, gross beta, and radium 226/228). Baseline monitoring for the new wells will be conducted on a quarterly basis, beginning in Mar 98, with three sampling events scheduled for FY 98. Baseline monitoring will continue into FY 99 for one additional quarter


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prior to changing to semi-annual detection monitoring. Three of the four existing regional aquifer monitor wells will be abandoned in FY 98. The fourth will continue to be used for groundwater level measurements providing supplemental data for more accurate determinations of the groundwater gradient and flow-direction in the regional aquifer.

4. Reports for each sampling event will continue to be submitted to the New Mexico Environment Department.

5. If you have any questions, please call me at (505) 846-0053, or my point of contact, Mr. Mark D. Holmes at (505) 846-9005.

  
CHRISTOPHER B. DeWITT, R.P.G.  
Chief, Restoration Branch  
Environmental Management Division

cc:

~~XXXXXXXXXX (Mr. Pullen)~~  
NMED-GWQB (Ms. Jacobs)  
EPA Region 6 (Ms. Morlock)  
FWE (Mr. Tow)  
GTI (Ms. Liakos)  
DBSA (Mr. Meixner)  
AFMC/CEVR (Mr. Sims)