



KAFB 05
DEPARTMENT OF THE AIR FORCE
377th Civil Engineer Division (AFMC)
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RETURN RECEIPT REQUESTED

05 May 05

MEMORANDUM FOR MR. MICHAEL KLEIMAN, OFFICER
PUBLIC AFFAIRS OFFICE
NMVAHCS (MS 00)
1501 SAN PEDRO SE
ALBUQUERQUE, NM 87108

FROM: 377 MSG/CEVR
2050 Wyoming Blvd S.E., Suite 118
Kirtland AFB, NM 87117-5270

SUBJECT: Notification of Groundwater Contamination, Bulk Fuels Facility, Kirtland AFB

1. The Environmental Management (EM) Branch at Kirtland AFB is submitting this memorandum to notify you that detections fuel related constituents (minimal concentrations) have been reported in the groundwater between the subject site and the Veterans Administration (VA) Hospital. Our proposed corrective action is outlined in Section 4.
2. Fuel related hydrocarbon constituents in the form of Total Petroleum Hydrocarbon (TPH) as Gasoline Range Organics (GRO) has been detected in groundwater monitor well KAFB-1062, which is located on KAFB, half way between the subject site and your facility. The monitor well serves as a "sentry well" to monitor for the potential downgradient migration of any contamination from our site towards your facility.
3. GRO has been detected during the Apr, Jul and Oct 04 and Jan 05 sampling events at 0.04J mg/l, 0.05J/0.03J (duplicate) mg/l, <0.05/0.03J (duplicate) mg/l, and 0.04J/0.04J mg/l, respectively. The "J" designation represents an "estimated" value; the detected concentrations are above the method detection limit but below the reporting limit, indicating that the compound has been identified, but not in quantifiable concentrations. Concentrations of constituents detected in the groundwater are compared to the New Mexico Water Quality Control Commission (WQCC) regulations. TPH as GRO in groundwater does not have a WQCC or Environmental Protection Agency (EPA) Maximum Concentration Limit (MCL). Individual analytes that comprise TPH-GRO, such as benzene, toluene, ethyl benzene and xylene, which do have regulatory MCLs for groundwater have not been detected in KAFB-1062.
4. Because of this detection, we are proposing to install another groundwater monitor well halfway between KAFB-1062 and the VA Hospital. This well would also serve as an additional "sentry well" to monitor for further migration of fuel related constituents toward your facility. This monitor well is scheduled to be installed this summer. Groundwater monitoring at this well will be initiated at the following quarterly monitoring event (Jul or Sep 05) and continue on a

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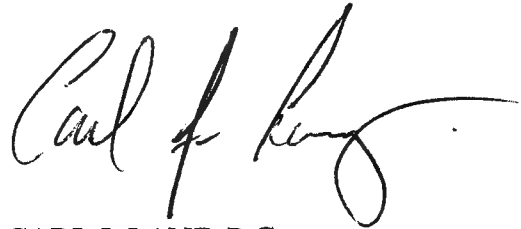


quarterly basis in conjunction with quarterly monitoring of the other three existing groundwater monitoring wells.

5. As reported in EM's 16 Sep 04 memo to you, a Soil Vapor Extraction (SVE) system has been installed at the site to remediate the soil and groundwater contamination beneath the site. The SVE system was designed to prevent further migration of vapor contamination from the soil to the groundwater, the source of the groundwater contamination. Removal of the source will initiate degradation of the groundwater plume beneath and downgradient from the site by natural attenuation. To date, approximately 60,000 gallons of fuel have been removed from the subsurface soils beneath the site, substantiating removal of the fuel contamination.

6. This information was discussed with Mr. Ron Riechter and Mr. Mark Plumley of your Engineering staff on 31 Mar and 11 Apr 05 respectively.

7. Please contact Mr. Mark Holmes at (505) 846-9005, if you have any questions or comments on this matter.



CARL J. LANZ, P.G.
Chief, Restoration Section

Attachment:
Analytical Results for monitor well KAFB 1062

cc:
VA Hospital, Mr. Riechter, w atch
VA Hospital, Mr. Plumley, w atch
NMED HWB-GWQB, Mr. Olson, wo Atch
NMED HWB-GWQB, Mr. Swanson, wo Atch
NMED HWB-KAFB, Mr. Kieling, wo Atch
NMED HWB-KAFB, Mr. McDonald, wo Atch
USEPA-Region 6 (6PD-N), Ms. King, wo Atch
HQ AFMC/CEVC, Mr. Fort, wo Atch
AFCEE, Mr. Hatfield, wo Atch
377 MSG/CEVC, Mr. Montano, wo Atch
CH2M, Mr. Minchak, wo Atch
Admin. Record, TVI, Montoya Campus
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