

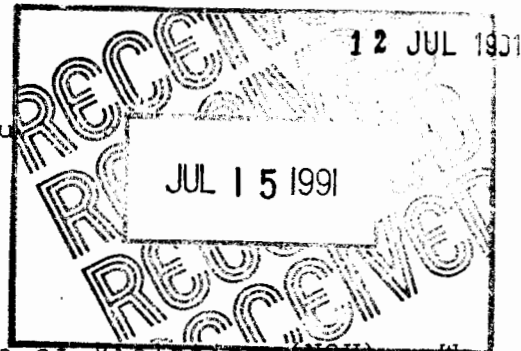


DEPARTMENT OF THE AIR FORCE

RECEIVED

HEADQUARTERS 1606TH AIR BASE WING (MAC)
KIRTLAND AIR FORCE BASE, NEW MEXICO 87117-5000

Mr Benito Garcia, Chief
Hazardous and Radioactive Waste Bureau
New Mexico Environment Department
1190 St Francis Drive
Santa Fe NM 87502



Dear Mr Garcia

We have reviewed your 13 Jun 91 Notice of Violation (NOV). We want to take this opportunity to inform you of actions taken to date, and present a schedule for uncompleted ones:

1. We met with one of our environmental consultants, Geosciences Limited (GCL), on 24 Jun 91 to review discrepancies noted in your letter and plan for a second revision of these plans.
2. We met with members of your staff on 25 Jun 91 to clarify issues in the NOV. A copy of our minutes from that meeting are provided as Atch 1.
3. On 28 Jun 91, we requested that specific alternate groundwater monitoring systems be approved for the sewage lagoons and golf course pond (Atch 2).
4. On 3 Jul 91 your organization approved our proposed alternate groundwater monitoring system (Atch 3).
5. On 11 Jul 91 GCL delivered revised closure plans correcting the typographical errors noted in your letter along with some additional ones (Atchs 4-7).

However, additional time will be required to perform the risk assessments, contingency plan, and data compilation. Contingency plans prepared by GCL in the past have been in depth documents over two inches thick. Mr Mike Silva, a GCL employee, estimated that 10 weeks of effort is required to revise the closure plans based on his understanding on NMED comments at the 25 Jun 90 meeting. Some time in our proposed schedule shown in Atch 8 might be eliminated by further clarification on the extent of data tabulation and amount of detail required in the contingency plan.

GCL employees have expressed concern to us that a misconception of their firm's professional competence may be created if it prepares another closure plan revision which is then deemed inadequate. We therefore wish to meet with your technical staff on 22 Jul 91 to discuss, in greater depth, the level of detail on the contingency plan and data compilation requirements to ensure you receive the level of detail required. The level of detail summarized in Mr Kennedy's notes (included as an enclosure to Atch 3) suggests GCL may be anticipating more detail than would be required for a use in a public hearing.



Kirtland shall request locally or through higher headquarters within the Department of Air Force and the Department of Defense, all funds and/or authorizations necessary to meet the conditions of this NOV, to include clean closure or other options as determined necessary. With regard to funding, the timetables, schedules and courses of action reached in resolving this NOV and implementation of its conditions are considered fixed and definite except to the extent that the Congress of the United States may fail to approve authorization and/or appropriations necessary to execute them. If sufficient funds are not appropriated by the Congress or allocated to Kirtland by the Department of Defense (DOD), the Department of the Air Force, or Headquarters Military Airlift Command (HQ MAC) as requested and existing funds are not available to achieve compliance with the schedules in the agreement, Kirtland shall report the lack of funds immediately to NMED.

We would appreciate confirmation by 16 Jul 91 if our settlement schedule provides an adequate timetable for correcting the NOV discrepancies described in your 13 Jun 91 letter. If you have any questions on the proposed schedule please contact Mr John Gould at (505) 846-2773.

Sincerely


JACK A. MARTINEZ, Colonel, USAF
Director
Environmental Management Division

- 8 Atch
1. Our Ltr, 10 Jul 91
2. Our Ltr, 28 Jun 91
3. NMED Ltr, 3 Jul 91
4. Base-wide Closure Plan for Units Req. Closure at KAFB
5. Unit Closure for Sewage Lagoons at KAFB
6. Unit Closure For Golf Course Main Pond at KAFB
7. Closure Plan for Golf Course at KAFB
8. Proposed Schedule

cc: NMED (Ms T. Hughes)
wo Atch 4-7
HQ MAC/LEEV/JAM
wo Atch 4-7



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 1606TH AIR BASE WING (MAC)
KIRTLAND AIR FORCE BASE, NEW MEXICO 87117-5000

AR Doc # 562

10 Jul 91

REPLY TO
ATTN OF: EM

SUBJECT: Minutes of Kirtland Air Force Base (KAFB)/New Mexico Environment
Department (NMED) Meeting, 25 June 91

TO: Hazardous and Radioactive Waste Bureau (HRWB), NMED (Mr Kennedy)

1. Purpose: We met with NMED officials to clarify technical aspects of a Notice of Violation (NOV) issued by NMED on 13 Jun 91 (Atch 1).

2. Attendees:

Col Tom Norris, 1606th Air Base Wing (ABW)/Environmental Management Division (EM), KAFB
Lt Col George K. Pratt, 1606 ABW/EM, KAFB
Mr John Gould, 1606 ABW/EM, KAFB
Mr Mike Silva, Geoscience Consultants Ltd [GCL] (Contract Consultant for 1606 ABW/EM, KAFB)
Mr Edward Horst, Program Manager, HRWB, NMED
Dr Bruce Swanton, Compliance Supervisor, HRWB, NMED
Mr Joe Kennedy, Water Resource Specialist, HRWB, NMED
Mr Steve Alexander, HRWB, NMED

3. Discussion:

a. The meeting began shortly after 1400 with each of the attendees introducing himself.

b. Although higher ranking individuals were present, Dr Swanton indicated that KAFB should interface with Mr Kennedy as the lead NMED official on resolving this NOV.

c. Mr Kennedy stated that this meeting was not a decision making forum, but rather an opportunity to clarify any aspects in the NOV which were unclear. He highlighted two of NMED's key issues included in the NOV:

(1) The inclusion of a contingency plan if clean closure is not possible.

(2) Risk assessments will be the determining factor on whether any material needs to be removed from the sites.

d. Lt Col Pratt stated that KAFB's review had divided NOV discrepancies into 3 general areas: (1) typographical and/or stylistic errors; (2) additional documents or data to be incorporated into the base-wide closure plan; and (3) technical issues.

The third category was noted to include the risk assessments, the contingency plan, and the additional tabulation of data.

e. The group then conducted an item by item review of the NOV starting with the "Base-wide Closure Plan" and reached the following clarifications:

(1) Section 5.2.2: The US Geological Survey (USGS) quality control (QC) procedures will be incorporated into the base-wide closure plan.

(2) Section 5.2.4: The QA/QC outline from Chapter 1 of SW 846 will be added to the base-wide closure plan.

(3) Section 5.2.7: (a) Lt Col Pratt and Mr Gould stated that KAFB would include a commitment to groundwater monitoring pursuant to 40 CFR Part 265.90 through 265.93, but noted this may be done via an alternate groundwater monitoring system described in a recently submitted USGS report.

(b) Dr Swanton stated that a formal request must be submitted to NMED for approval of this specific alternate groundwater monitoring system at the sewage lagoons and the golf course pond.

(c) Dr Swanton stated that NMED was placing considerable emphasis on ensuring completeness of these KAFB closure plans since a public hearing would have been conducted if requested. Lt Col Pratt inquired into the number of "closure plan" related public hearings conducted by NMED in the past and Dr Swanton could not recall any, briefly confusing the Los Alamos RCRA Part B permit public hearing with a closure plan hearing.

(4) Section 6.2.2: (a) Correction of a typographical error is required to correct the full description for TCLP.

(b) Dr Swanton noted that he had discussed the requirement for performing risk assessments (RA's) in a previous meeting with Mr Gould and Mr Silva. He suggested that GCL could perform this in less than a day using spreadsheet software. NOTE: Mr Gould later stated that his recollection of that conversation was that an eventual requirement existed for preparing RA's, but that they did not have to be included in the closure plans. Mr Silva later stated that even with software, Dr Swanton's estimate was very optimistic.

(c) Dr Swanton stated the source for his risk assessment requirement was the Superfund Public Health Manual.

(5) Sections 8.2 & 8.3: Same issue as discussed for Sect. 5.2.7 above.

(6) Appendix F: addresses a typographical error.

f. The following comments were made, and clarifications reached, on the "Unit Closure Plan for the Golf Course":

(1) Sections 5.2.2, 5.2.8, 5.4: Same issue as discussed in similar sections of the "Base-wide Closure Plan."

(2) Appendix A: the risk assessment requirement was reiterated and a requirement to add a description of Enseco's standards, etc in the base-wide closure plan.

(3) Section 5.3.4: Mr Gould noted that the missing letter referenced to be found in Appendix D, was actually included in the plans, but at the end of Appendix A.

(4) Section 6.1: (a) The need to specify if any contaminants are present above the TCLP level in 40 CFR Part 261.24 was discussed; and (b) obtaining verification that a treatment storage or disposal facility could receive any hazardous waste removed from KAFB closure sites.

(5) Lt Col Pratt asked if one could assume that a contingency plan would not be required if the alternate groundwater monitoring system was approved. Dr Swanton and Mr Kennedy after some consideration said yes, though noting that the system in being had not yet been approved.

(6) Mr Gould stated that a contingency plan had not been included in the Nov 90 set of closure plans due to KAFB's intent to clean close the sites. Dr Swanton countered that some citizens might inquire about what type of contingency plan would be used if closure in place was required and that some discussion would be required to adequately address this issue.

(7) Section 7.1.2: KAFB needs to explain how a decision would be determined if decontamination of the piping between the sewage lagoons and golf course pond is required. A flowchart decision tree was deemed acceptable.

(8) Appendix A: Further data compilation must be performed to meet NMED requirements. NOTE: A follow-up meeting may be warranted with NMED due to differing interpretations between GCL and us on the extent of data tabulation involved.

g. The following comments were made, and clarifications reached, on the "Unit Closure Plan for the Sewage Lagoons":

(1) Section 2.2.7: Issue previously addressed.

(2) Section 6.1: (a) Discussion fluctuated on how much detail would be required dependent on the following variables: (a) approval of the alternate groundwater monitoring system; (b) level of contaminants detected. It was again agreed that if the alternate groundwater monitoring system is approved, then a contingency plan would not be required. Depending on the level of contamination found NMED comments varied on the amount of detail required. This is an issue to research carefully before preparing the KAFB response.

(b) The level and location of the 1,1,2-trichloro-1,2,2-trifluoroethane (a Freon) was agreed to be critical. If it is at a trace level in the sludge, the need for a contingency plan was deemed unnecessary. If it was found in the soil below the sludge, then a contingency plan was deemed necessary by NMED officials.

(3) Section 6.6: a self-explanatory typographical error.

(4) Appendix A: Table 4 contains a self-explanatory numerical error.

4. Summary:

a. Kirtland Air Force Base:

(1) Submit letter formally requesting approval of the alternate groundwater monitoring program. NOTE: This was accomplished via a 28 Jun 91 EM letter (Atch 2).

(2) Submit by 16 Jul 91 (30 days from receipt) the KAFB response to the NOV.

(3) Verify ability to fund the clean closure cost.

(4) Investigate with a civilian laboratory the ability to convert EPTox data to TCLP equivalent.

b. NMED:

(1) Review ITIR for freon location (e.g. - present in soil versus sludge).

(2) Review USGS data supporting alternate groundwater monitoring system.

(3) Provide a response to KAFB's pending request for approval of this system by 5 Jul 91 (Atch 3).

(4) Determine what information, if any, is required from a disposal facility indicating its ability to receive any hazardous waste removed from the sewage lagoon, golf course pond, or golf course at Kirtland AFB.

5. The meeting adjourned at approximately 1600.



GEORGE K. PRATT, Lt Col, USAF, BSC
Deputy Director
Environmental Management Division

3 Atchs

1. NMED Ltr, 13 Jun 91
2. 1606 ABW/EM Ltr, 28 Jun 91
3. NMED Ltr, 3 Jul 91



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 1606TH AIR BASE WING (MAC)
KIRTLAND AIR FORCE BASE, NEW MEXICO 87117-5000

AR Doc # 550

28 JUN 1991

Mr. Joe Kennedy
Water Resource Specialist
New Mexico Environment Department
1190 St Francis Drive
Santa Fe NM 87502

Dear Mr Kennedy

The Groundwater Quality Data report prepared for the Air Force by the US Geological Survey constitutes our request for approval of alternate groundwater monitoring systems for the Kirtland Air Base sewage lagoons and golf course pond. It was hand-delivered to you by our Mr John Gould on 25 Jun 91.

These alternate groundwater monitoring systems represent a major component of closure plans for these sites. Therefore your decision is required to ensure we submit our plans in an acceptable format.

Please contact Mr Gould at (505) 846-2774 if you have any questions. We would appreciate your faxing a copy of your reply to us at (505) 846-0403 as we attempt to respond in an a timely manner to your department's 13 Jun 91 notice of violation.

Sincerely


JACK A. MARTINES, Colonel, USAF
Director
Environmental Management Division

550

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Atch 2

AR Doc# 551



BRUCE KING
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Harold Runnels Bulding
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-2850

JUDITH M. ESPINOSA
SECRETARY
RON CURRY
DEPUTY SECRETARY

Rec'd 8 Jul 91

July 3, 1991

Col. Jack Martinez
Director, Environmental Management
Headquarters 1606 ABW/EM
Kirtland Air Force Base, NM 87117-5000

RE: RESPONSE TO REQUEST FOR ALTERNATE GROUNDWATER MONITORING SYSTEM AT SEWAGE LAGOONS AND GOLF COURSE MAIN POND - NM9570024423

Dear Col. Martinez:

The New Mexico Hazardous and Radioactive Waste Bureau (HRWB) received a letter of request from the Office of Environmental Management at Kirtland Air Force Base (KAFB) on July 2, 1991.

HRWB assumes that there is the possibility of a statistically significant increase in indicator parameters from upgradient wells to downgradient wells at the sewage lagoons, and therefore is allowing, as per 40 CFR §265.90 (d), the alternate ground-water monitoring system requested at that unit.

HRWB also assumes that a downgradient well at the main golf course pond would detect a statistically significant increase of indicator parameters and therefore is allowing, as per 40 CFR §265.90 (d), the alternate ground-water monitoring system requested at that unit.

KAFB has already performed extensive ground-water sampling at both of these locations, and has detected no Appendix IX constituents.

This letter will constitute approval of the requested alternate ground-water monitoring systems at the sewage lagoons and the golf course pond.

Please contact me at (505) 827-2424 if you have any questions.

Sincerely,

Joe Kennedy, Hydrogeology Section
Hazardous and Radioactive Waste Bureau

cc: Tracy Hughes, OGC
Edward Horst, Program Manager
Bruce Swanton, Compliance Supervisor

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Atch 3

June 26, 1991

Memo to file from Joe Kennedy

HRWB staff met with representatives from Kirtland Air Force Base (KAFB) on June 25, 1991, in order to discuss requirements for approval of a closure plan for sewage lagoons and the golf course main pond and requirements for approval of an alternative groundwater monitoring system.

Present at the meeting were:

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE</u>
Mike Silva	GCL	842-0001
Lt. Col. George Pratt	KAFB	846-2774
Col. Tom Norris	KAFB	846-2751
Joe Kennedy	HRWB	827-2424
Steve Alexander	HRWB	827-2424
John Gould	KAFB	846-2773
Edward Horst	HRWB	827-2928
Bruce Swanton	HRWB	827-2211

Joe Kennedy opened the meeting by saying that there would not be any decisions made at this meeting. Any decisions to be made would be made through correspondence in writing.

John Gould stated that KAFB wishes to include wording that would say KAFB will cap either unit if they could not clean close. They felt that they did not need to include actual design of such cap. HRWB argued that if a public hearing is called for, there needs to be a commitment greater than just KAFB's word. This should be a committed design and explanation that the public can understand.

Col. Pratt suggested that we divide discussion into three categories:

- 1) Items that are typographical;
- 2) Items to be added to document such as tables;
- 3) Risk Assessment.

Bruce stated that the risk assessment analysis required was nothing new. He sent a copy of his notes shortly after the CME to Mike Silva saying that risk assessment calculations needed to be performed.

Joe stated that QA/QC procedures could be included in the BWCP only. However, site specific situations need to be addressed in the individual unit supplemental closure plans.

In discussing the alternative groundwater monitoring system, we all agreed that the U.S.G.S., "Groundwater Quality Data, Kirtland Air Force Base, New Mexico, November-December 1990" document, along with a letter of proposal, would be adequate as an application for Alternative Groundwater Monitoring Program.

John did not feel that freon was present in the soil beneath the sludge at the sewage lagoons. Joe mentioned that it was stated in Julie Wanslow's notes that freon was confirmed to be present at 230 ppb. Everyone agreed that we need to confirm these results. If freon is indeed present, they will have to sample at depth to determine if there is an increase or decrease in concentration of freon.

KAFB is trying to establish, with the NMED Groundwater Bureau, if the nitrates they have detected are of any concern and who will coordinate their regulation. Mike Space is the NMED Groundwater Bureau contact.

We discussed part 6.1 (c) of HRWB letter review and decided we need to find out if a commitment from a TSDF to take KAFB's sludge or soil is needed in the closure plan.

The meeting concluded with a review of what was needed from HRWB and KAFB.

HRWB

Need to review ITIR and their alternative groundwater monitoring proposal

Check regulations to see what sort of commitment needs to be included in the closure-plan as far as a TSDF receiving KAFB's contaminated sludges or soils

KAFB

Will provide flow chart or decision making processes for decontamination procedure for equipment

Will provide a cover letter proposal for alternative groundwater monitoring system to go with U.S.G.S groundwater quality data submitted 6/25/91

Will add language to closure plan that says TCLP analysis will be run for metals unless documentation is provided by a non-government lab saying it is not necessary to run TCLP since EP Toxicity was already run