DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 542D CREW TRAINING WING (MAC)
KIRTLAND AIR FORCE BASE, NEW MEXICO 87117 - 5000

ENTERED

4 FEB 1992

REPLY TO ATTN OF: EM

SUBJECT: Minutes of Kirtland Air Force Base (KAFB)/New Mexico Environment Department (NMED) Meeting, 21 January 1992

TO: New Mexico Environment Department
Hazardous and Radioactive Materials Bureau (HRMB)
ATTN: Mr Joe Kennedy
1190 St Francis Drive - Harold Runnels Building
Santa Fe New Mexico 87502

1. Purpose: KAFB met with NMED to discuss the disapproval of the Battery Shop closure plan and the additional steps required to obtain NMED approval.

2. Attendees: Lt Colonel George K. Pratt, KAFB
Dr Bruce Swanton, NMED
Mr Danny Katzman, NMED
Mr Joe Kennedy, NMED
Mr Ed Horst, NMED
Mr Claude Schleyer, Geoscience Consultants, Ltd
Mr John Gould, KAFB

3. Discussion:

a. Mr Joe Kennedy opened the meeting.

b. Dr Bruce Swanton stated that this meeting was for discussion only and that no decisions would be made.

(1) Dr Bruce Swanton stated that the sewage lagoons were a technical issue that would provide a basis for further work at KAFB.

(2) Dr Bruce Swanton stated that NMED considered the Battery Shop issue significant due to the detection of solvents in the soil.

(3) Lt Colonel Pratt indicated that KAFB was apprising its higher headquarters on the additional work required and the estimated funding involved.

c. Lt Colonel Pratt indicated that KAFB wished to follow the format of a June 1991 meeting which clarified the inadequacies of three other closure plans and expedited their completion.

d. Mr Joe Kennedy pointed out that solvents were found at the bottom of several bore holes indicating that the depth of contamination has not yet been determined.

e. Mr John Gould stated that KAFB recognizes that the submitted closure plan indicated the need for additional work (as a result of solvent detection) and that KAFB considers the work performed thus far as Phase 1 of the investigation.

(1) Mr John Gould proposed that KAFB submit a work plan listing our proposal for additional work and refer to it as Phase 2 of the investigation.

(2) Mr John Gould stated that this proposal does not rule out the possibility of a Phase 3.

(3) Mr John Gould stated that KAFB cannot at this time say that the solvents did not originate from the drain.

f. Dr Bruce Swanton requested that the submittal state that it was a Phase 2 and that, if supported by the data, there may not be a Phase 3.

g. Mr Joe Kennedy stated that the lead and the solvents were separate issues.

(1) Mr Joe Kennedy stated that risk assessment for both the lead and solvents will need to be done.

(2) KAFB agreed that risk assessment was required and that it could also be in KAFB's benefit.

h. Dr Bruce Swanton requested that the transmittal letter be included in the final closure plan to assist later employees of NMED who may have no knowledge of events preceding submittal of the plan. KAFB concurred.

i. Discussion of soil gas survey and borings:

(1) KAFB proposed a maximum of 8 borings (for Phase 2) with using a headspace "sniffing" technique.

(2) NMED stated that to show horizontal and vertical extent of contamination, 10 feet of clean soil in the bottom of borings and total clean in margin borings will be necessary - KAFB agreed.

(3) Mr John Gould explained the problems with both soil gas and borings in the congested, extensively paved, building-covered Battery Shop area (see attached map).

(4) Mr Claude Schleyer proposed the use of either an Hnu meter or a portable gas chromatograph for field screening.

(5) NMED stated, and KAFB concurred, that field screening can only be used to determine when to stop boring and that only laboratory analysis can be used to demonstrate that the limits of contamination has been found.

(6) Dr Bruce Swanton stressed the need for stratigraphic data to adequately do a soil gas survey.

(7) Mr Claude Schleyer discussed the depth limits of a soil gas survey.

(8) Mr Ed Horst mentioned the problem with cobbles.

(9) Mr Joe Kennedy questioned the proposed number of borings.

(10) Mr Ed Horst asked about the depth to groundwater (4-500 feet).

(11) Mr Claude Schleyer explained the need for flexibility in performing the soil gas survey.

(12) Dr Bruce Swanton stated that RCRA does not regulate soil gas and that the survey is only a tool to be used in determining locations for borings.

j. KAFB proposed modifying the closure plan as a supplement to the Base-Wide plan, if it is determined to be equivalent to correcting and resubmitting the present closure plan.

k. Mr Joe Kennedy stated that, based on the detection of solvents in the bottom of previous boreholes, additional borings would definitely be necessary.

(1) Mr Joe Kennedy also stated that NMED would like to review the bore hole locations prior to drilling to make sure that they are adequate.

(2) Mr John Gould concurred.

l. Method Detection Limit (MDL) was discussed as the appropriate method of determining with a 99% confidence that a constituent exists in a sample.

(1) KAFB agreed to use this method.

(2) Mr Claude Schleyer stated that the laboratory would be familiar with this procedure.

m. Dr Bruce Swanton stated that we have several possible options, including:

(1) Remediation through soil venting.

(2) Groundwater monitoring - post closure.

(3) Groundwater monitoring waiver (Dr Bruce Swanton stated that receipt of a waiver was highly unlikely. Mr John Gould found it difficult to believe that, if contamination levels are found to be no greater than indicated by the currently available data, a waiver was not justified considering our annual rainfall/evaporation rates and the extreme depth to groundwater).

n. Mr Joe Kennedy stated that he would like to visit the site.

o. Determination of the horizontal margin of contamination was discussed.

(1) Mr Joe Kennedy stated that, if risk assessment numbers were satisfactory, additional borings would probably not be required as long as the numbers were decreasing in a direction away from the drain.

(1) Mr Joe Kennedy stated that, if risk assessment numbers were satisfactory, additional borings would probably not be required as long as the numbers were decreasing in a direction away from the drain.

(2) Mr Joe Kennedy stated that, regardless of whether or not the risk assessment numbers were acceptable, if they were found to be increasing in a direction away from the drain, more borings would be required.

(3) KAFB agreed.

4. Summary:

a. Kirtland Air Force Base.

(1) Submit a workplan that will determine the horizontal and vertical extent of both lead and solvent contamination in the area of the Battery Shop French drain.

(2) Coordinate as much as possible with NMED on the content of the workplan prior to its submittal.

(3) Perform a soil gas survey at the site as a guide for soil borings.

(4) Conduct boring and sample analysis to determine the margin of contamination.

(5) Submit an approvable closure plan for the site in, if feasible, the format of a supplement to the Base-Wide closure plan.

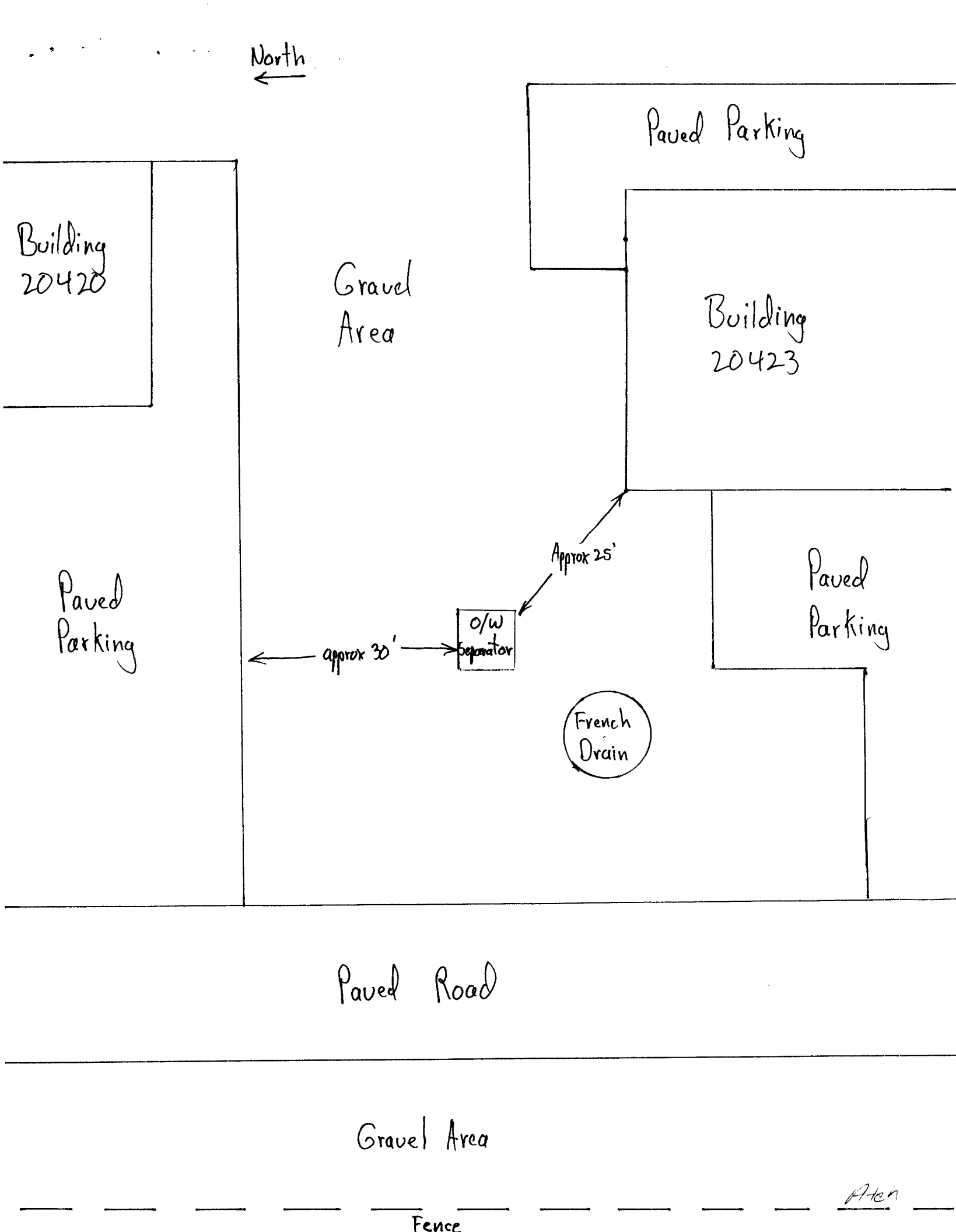
b. NMED.

Review the submitted workplan in as timely a manner as possible.

John E. Gould

JOHN E. GOULD
Supervisor
Installation Restoration Program

1 Atch
Battery Shop Site Map


North
Paved Parking
Building 20420
Gravel Area
Building 20423
Approx 25'
Paved Parking
Paved Parking
O/W Separator
approx 30'
French Drain
Paved Road
Gravel Area
Fence