

49th Civil Engineer Squadron 550 Tabosa Avenue Holloman AFB, NM 88330-8458 Fax No. DSN 867-7015 Comm. 505-475-7015



DATE:	30 June	94

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TO: <u>NMED</u>, Santa Fa, NM Fax Number: 827 - 4361

Telephone Number. 827 - 43

Telephone Number. 827 -4308

ATTENTION: Barbara Hodifschek

FROM: Tier O'Donnell CEV Telephone Number (5°5) 475-3931

SUBJECT: Regulatory Status & Investigation Schedule

COMMENTS:

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DEPARTMENT OF THE AIR FORCE

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MEMORANDUM FOR New Mexico Environment Department (NMED)

Hazardous and Radioactive Materials Bureau

RCRA Permits Program

Attn: Ms Barbara Hoditschek, Program Manager

525 Camino de Los Marquez Santa Fe, NM 87502-6610

FROM: 49 CES/CD

550 Tabosa Ave

Holloman AFB, NM 88001-8458

SUBJECT: Regulatory Status and Investigation Schedule of Holloman AFB (HAFB)

Lagoons (ref 22 Feb 94 conf call)

- 1. As discussed in the referenced conference call between NMED, Omaha Corps of Engineers, Radian Corp, and HAFB, it is necessary to determine if the sludge in the HAFB lagoons is considered a listed hazardous waste or if it is considered hazardous only if it possesses one or more hazardous characteristics (toxic, corrosive, reactive, and ignitable). HAFB believes the sludge is not a listed hazardous waste and would like your concurrence before researching remedial alternatives. Supporting documentation is found in the Project Assessment Report (Radian Corp, August 1990) and is summarized below.
- 2. A February 1987 Notice of Noncompliance alleged the following listed wastes may have entered the lagoons prior to August 1984: F001 (halogenated degreasing solvents), F003 (non-halogenated solvents), U228 (trichloroethene), U161 (methyl isobutyl ketone), U227 (1,1,2-trichloroethane), U188 (phenol), U154 (methanol), U002 (acetone), U122 (formaldehyde), U165 (naphthalene), U220 (toluene), U239 (xylene), U003 (acetonitrile), U233 (?), P095 (phosgene), P012 (arsenic trioxide), and P106 (sodium cyanide). The estimated quantities suspected to have been discharged (Atch 1) are very small compared to the volume of wastewater processed (1.2 million gallons per day), and are considerably less than de minimis losses of hazardous constituents allowed under 40 CFR 261.3(a)(2)(iv)(A), (B) and (D). Extensive investigation of surface water, sludge, and underlying soils in the lagoons has, in most cases, failed to detect the above listed wastes. Of those detected, the amounts found were well below levels of concern. These investigations did identify other contaminants of concern, including polychlorinated biphenyls (PCBs), organochlorine pesticides, and metals.
- 3. Several alternatives to closure are being evaluated, including both in situ and ex situ treatment. The regulatory status of the sludge will determine the treatment technologies required to meet land disposal treatment standards for sludge treated ex situ and returned to the lagoons or disposed of off site.
- 4. As requested during the referenced conference call, a list of submittals with estimated dates (Atch 2) and a revised project schedule (Atch 3) are provided. Note the final revision of the Post Closure Care Permit (PCCP) is not scheduled for submission until July 1996. This reflects our discussion that the PCCP be as detailed and accurate as possible. The July 1996 submittal date allows the PCCP to include final results of the treatability and

corrective measures studies. Also, note that some activities depend upon the status of the new wastewater treatment plant, which has experienced some delays.

5. Please direct questions to Dr Fred Fisher or Mr Tim O'Donnell of the Environmental Flight at 475-3931.

Deputy Base Civil Engineer

Attachments:

- 1. Estimated Discharge to Sewage Lagoons
- 2. Submittals with Estimated Dates
- 3. Revised Project Schedule

cc: w/Atchs

Mr Larry Isaacs HQ ACC/CEVC

Ms Kathleen Alsup Radian Corp 8501 Mo-Pac Blvd. Austin, TX 78720-1008

Mr Barry Feldman
US Environmental Protection Agency, Region VI, 6H-CS
First Interstate Bank Tower
1445 Ross Avenue
Dallas, TX 75202-2733

Mr Ron Stirling U.S. Army Corp of Engineers Omaha District/CEMRO-ED-EA 215 N. 17th Street Omaha, NE 68102-4978

TABLE 4-1. HAZARDOUS WASTES SUSPECTED TO BE DISCHARGED TO THE SEWAGE LAGOONS

Substance	Quantity	Date of Discharge
Trichloroethylene	225 gal	One time, prior to 1980
Carbon tetrachloride	200 gal	One time, prior to 1980
Freon 113	6 oz/day	Unknown to May 1984
Methyl isobutyl ketone	2 oz/mo	1980 - 1983
Trichloroethane	15 gal	One time, 1983, plus addi- tional unknown amounts through September 1984
Methylene chloride	unknown	1980 - 1984
Phenol	unknown	1984
Acetone	75 gal/yr	1960 - Aug. 1984
Napthalene	22 lbs	One time, 1981
Toluene	10 gal	One time, 1981
Xylene	1 gal	One time, 1981
Acetonitrile	35 gal/yr	1982 - Aug. 1984
Arsenic trioxide	1,000 lbs	One time, 1977 - 1978
Sodium cyanide .	900 lbs	One time, 1980

Source: Delisting Proposal, Holloman Air Force Base Sewage Treatment Lagoons, Computrac, Inc., 28 August 1986.

Document	Estimated Submittal Date
Project Plans (CDAP and SSHP)	16 May 1994
Project Assessment Report	13 June 1994
Delay-of-Closure Plan	15 June 1994
Groundwater Monitoring Plan	15 July 1994
A-E SQCSR	03 October 1994
Biological Assessment Report	17 October 1994
Site Characterization Report	17 October 1994
Updated Risk Assessment	19 December 1994
CMS Work Plan	01 June 1995
Treatability Study Work Plan	01 August 1995
Corrective Measures Studies Reports	01 May 1996
Decision Documents	15 June 1996
Final Draft Closure Plan	15 June 1996
Post Closure Care Permit Application	05 July 1996