

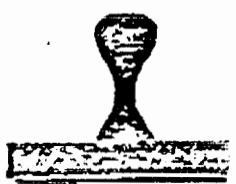
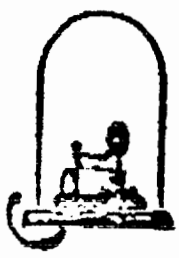


**HOLLOMAN AFB
NEW MEXICO**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 52

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVE DALLAS, TX 75202



FACSIMILE REQUEST

and cover sheet

FROM THE **HAZARDOUS WASTE
MANAGEMENT DIVISION**

PLEASE PRINT IN BLACK INK ONLY

TO: Sharon Moore

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DRAFT

COMMENTS ON THE GROUND WATER ASSESSMENT
MONITORING PLAN FOR THE SEWAGE TREATMENT LAGOONS
HOLLOMAN AIR FORCE BASE (HAFB), NM

1. Solute transport calculations which include sorption/desorption phenomena require data on the organic carbon content of soils and aquifer materials. This critical data is not currently available, and plans should be made to obtain it.
2. Continuous core should be recovered and logged by a geologist for all boring operations.
3. According to our files, neither Table 7-1, Analytes Detected in Soil or Sludge Samples Collected from Ponds A, B, and C, nor Table 7-2, Analytes Detected in Surface Water Samples Collected From the Sewage Treatment Lagoons, is complete. Tables 7-1 and 7-2 must be revised to accurately reflect all constituents currently and historically detected in the soils, sludges, and waters of the sewage treatment lagoons, Lake Holloman, and Lake Stinky.
4. Total Cyanide (9012) and Total Sulfides (9030) should be added to the parameter list.
5. Concentration levels should be reported to method detection limits (MDLs) rather than practical quantification limits (PQLs).
6. Additional wells, if required, should be constructed from PVC rather than stainless steel due to the high salinity of the ground water. However, in areas where the salinity of the ground water does not justify the use of PVC, stainless steel wells will be required.
7. The sampling and analytical activities to be undertaken if any hazardous constituents are detected in the ground water should be clarified. The regulations require quarterly re-sampling of the wells. Will only those parameters detected, or will all Appendix IX parameters, be analyzed for during the immediate re-sampling?

Detection Limits of GC are a lot lower

EPA Contract No. 68-W9-0041
Work Assignment No. R3635

Revision 0
July, 1991

TABLE 2
PROPOSED SAMPLE LOCATIONS AND ANALYTICAL METHODS
HOLLOMAN AIR FORCE BASE

<u>Sample Location</u>	<u>Number of Samples</u>	<u>EPA Methods</u>	<u>Compound Class</u>	<u>Method Technique</u>
MW-1	1	9060 9060 ^b Field Parameters	Total Organic Carbon Dissolved Organic Carbon (filtered) Specific Conductance, pH, Temperature	IR or FID IR or FID
MW-2	3	8240 ^a 8270 ^a 8010 8015 8080 ^a 8140 ^a 8150 ^a 8280 ^a 9012 ^a 9030 ^a 9060	Volatile Organic Compounds (VOC) Semivolatile Organic Compounds (SVOC) Halogenated VOCs Non-halogenated VOCs Organochlorine Pesticides/PCB Organophosphorous Pesticides Chlorinated Herbicides Dioxins/Furans Cyanide Sulfide Total Organic Carbon	GC/MS GC/MS Capillary Column GC-HECD GC-FID GC-ECD GC-PPD or NPD GC-ECD or HECD GC/MS Colorimetric/UV Titration IR or FID
MW-3	1	8240 ^a 8270 ^a 8010 8015 8080 ^a 8140 ^a 8150 ^a 8280 ^a 9012 ^a 9030 ^a 9060 9060 ^b Field Parameters	VOCs SVOCs Halogenated VOCs Non-halogenated VOCs Organochlorine Pesticides/PCBs Organophosphorous Pesticides Chlorinated Herbicides Dioxins/Furans Cyanide Sulfide Total Organic Carbon Dissolved Organic Carbon (filtered) Specific Conductance, pH, Temperature	GC/MS GC/MS Capillary Column GC-HECD GC-FID GC-ECD GC-PPD or NPD GC-ECD or HECD GC/MS Colorimetric/UV Titration IR or FID IR or FID
MW-4	1	Same as MW-3		
MW-5	1	Same as MW-3		

Notes:

SW-846 Methods (EPA, 1986)

Two samples will be collected - one from 5-micron filtration and one from 0.45-micron filtration
includes Matrix Spike/Matrix Spike Duplicate (MS/MSD); sample location for MS/MSD is tentative
includes 40 CFR 264 Appendix IX Parameters (Method 6010 for metals will not be performed)

Abbreviations:

ECD = Electron Capture Detection
FPD = Flame Photometric Detection
HECD = Hall Electrolytic Conductivity Detection
MS = Mass Spectroscopy

FID = Flame Ionization Detection
GC = Gas Chromatography
IR = Infrared Detection
NPD = Nitrogen Phosphorous Detection

MS/MSD = Matrix Spike/Matrix Spike Duplicate
PCB = Polychlorinated biphenyls
UV = ultraviolet light

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