



UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

4B/RDB/mkc
5100
14 Mar 1973

MEMORANDUM FOR THE ASSISTANT CHIEF OF STAFF, MANPOWER (BASE SAFETY MANAGER)

Subj: Safe disposal of contaminants, pesticides, or hazardous waste

Ref: (a) BSafetyMgr memo 48/DWT/gdr 5930 of 12 Oct 1972

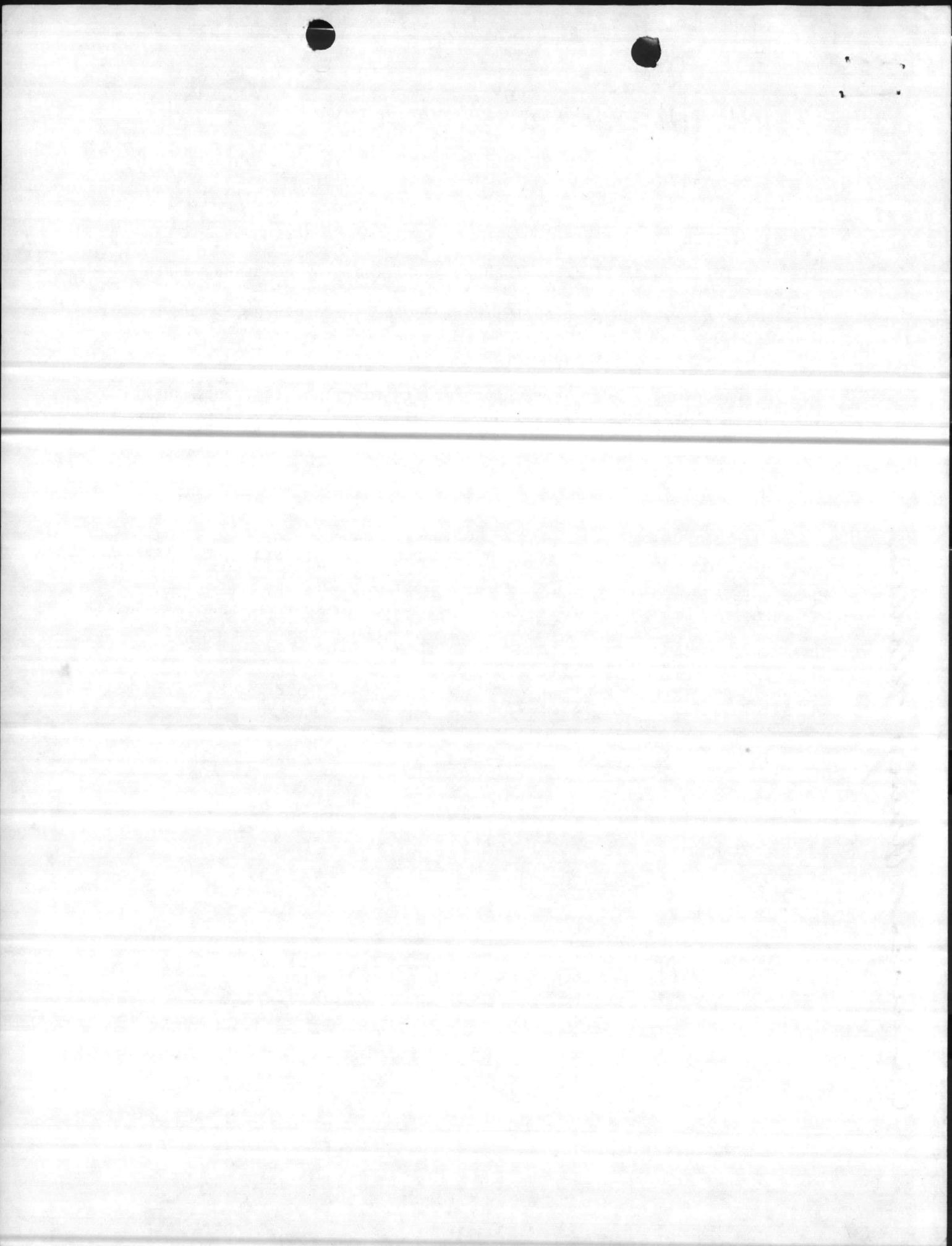
Encl: (1) BMaintO memo 15G/CFR/1p 11000 of 8 Mar 1973

1. In response to the request contained in reference (a), enclosure (1) is forwarded for consideration and inclusion in a revision of Base Order 5100.13A.

J. F. MADER
Colonel, USMC
Assistant Chief of Staff, Facilities

Copy to:
BMaintO

Chemical Dump material



DEPARTMENT OF THE NAVY

Memorandum

15G/CFR/1p

11000

DATE: 8 Mar 1973

FROM: Base Maintenance Officer

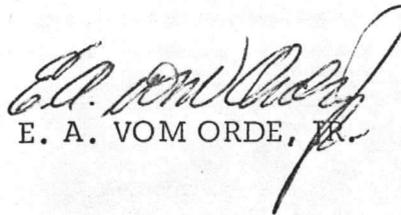
TO: Base Safety Director
Via: Assistant Chief of Staff, Facilities

SUBJ: Safe disposal of contaminants, pesticides, or hazardous waste

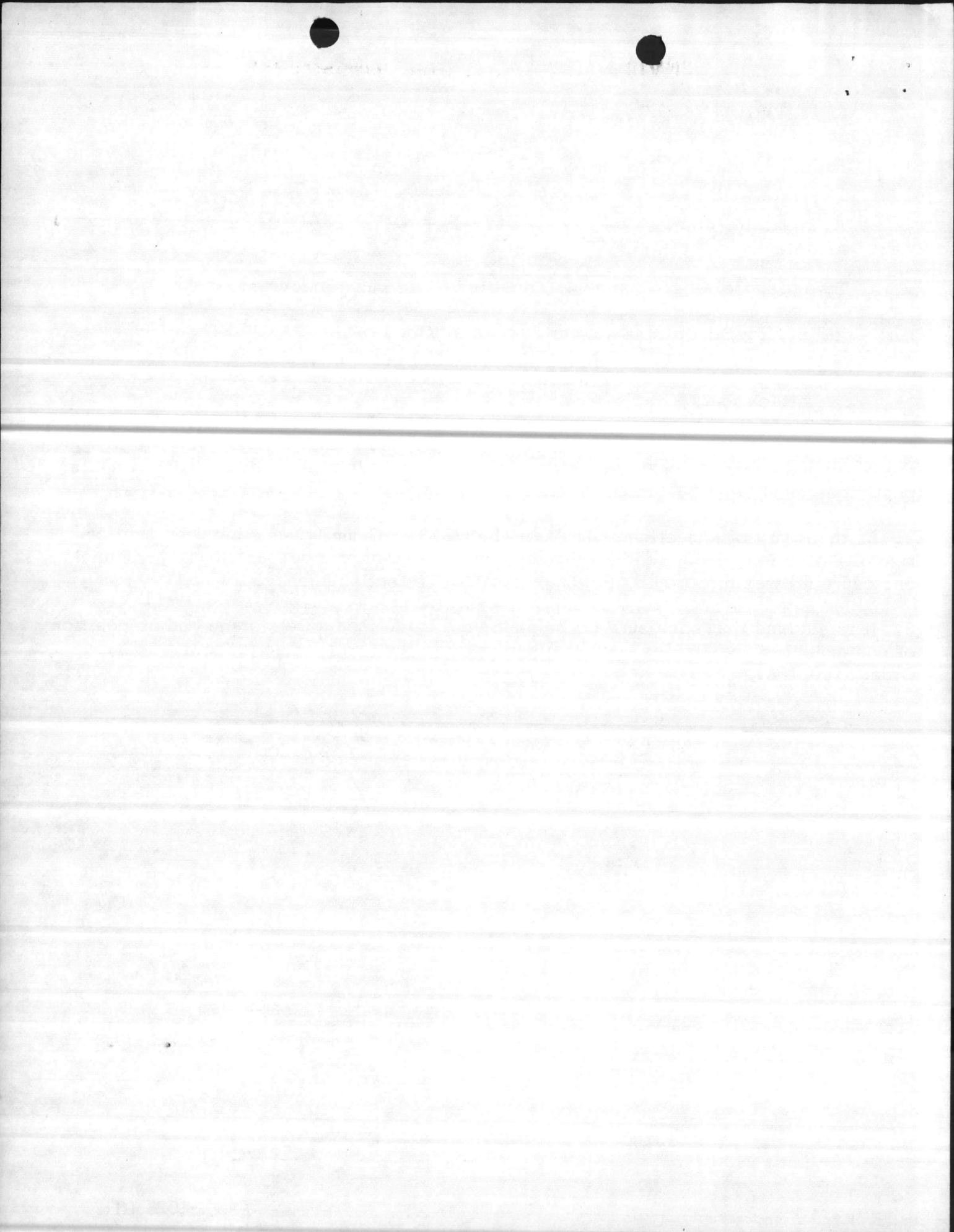
Ref: (a) BSafetyDir ltr 48/DWT/gdr 5930 of 12 Oct 1972

Encl: (1) Copy Environmental Protection Agency ltr of 13 Feb 1973, with attachments

1. Reference (a) requested review of Base Order 5100.13A and to be advised as to the continued operation or the revision of present methods of disposal of contaminants, pesticides, and other hazardous waste.
2. As the result of a meeting of 19 December 1972 at Camp Lejeune between Environmental Protection Agency representatives and Base Maintenance Department personnel, enclosure (1) was prepared by the Environmental Protection Agency.
3. It is advised that enclosure (1) be used as a guide for future storage and disposition of contaminants, pesticides, or hazardous material and as a guide for rewriting Base Order 5100.13A.


E. A. VOM ORDE, JR.

ENCLOSURE (1)



ENVIRONMENTAL PROTECTION AGENCY

REGION IV

1421 Peachtree St., N.E., Atlanta, Georgia 30309

February 13, 1973

Commanding General
United States Marine Corps
Marine Corps Base
Camp Lejeune, North Carolina 28542

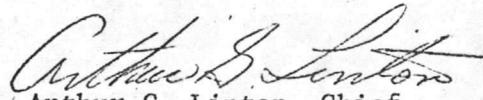
Attn: Mr. W. F. Miller
Assistant Base Maintenance Officer

Dear Sir:

In accordance with arrangements made at the meeting of December 19, 1972, at Camp Lejeune, between your Mr. Miller and Mr. Holdaway of my staff, I am attaching our recommendations on disposal of chemical wastes at the base.

By way of explanation, materials previously deposited in the landfill (a list was supplied by Mr. Miller) have been grouped by this office and specific recommendations made in order to provide controlled future use of the landfill. Also attached are recommendations from our Solid Waste Management Branch concerning overall management of the landfill including the placement of monitoring wells. If you should have any questions concerning these recommendations, please call us.

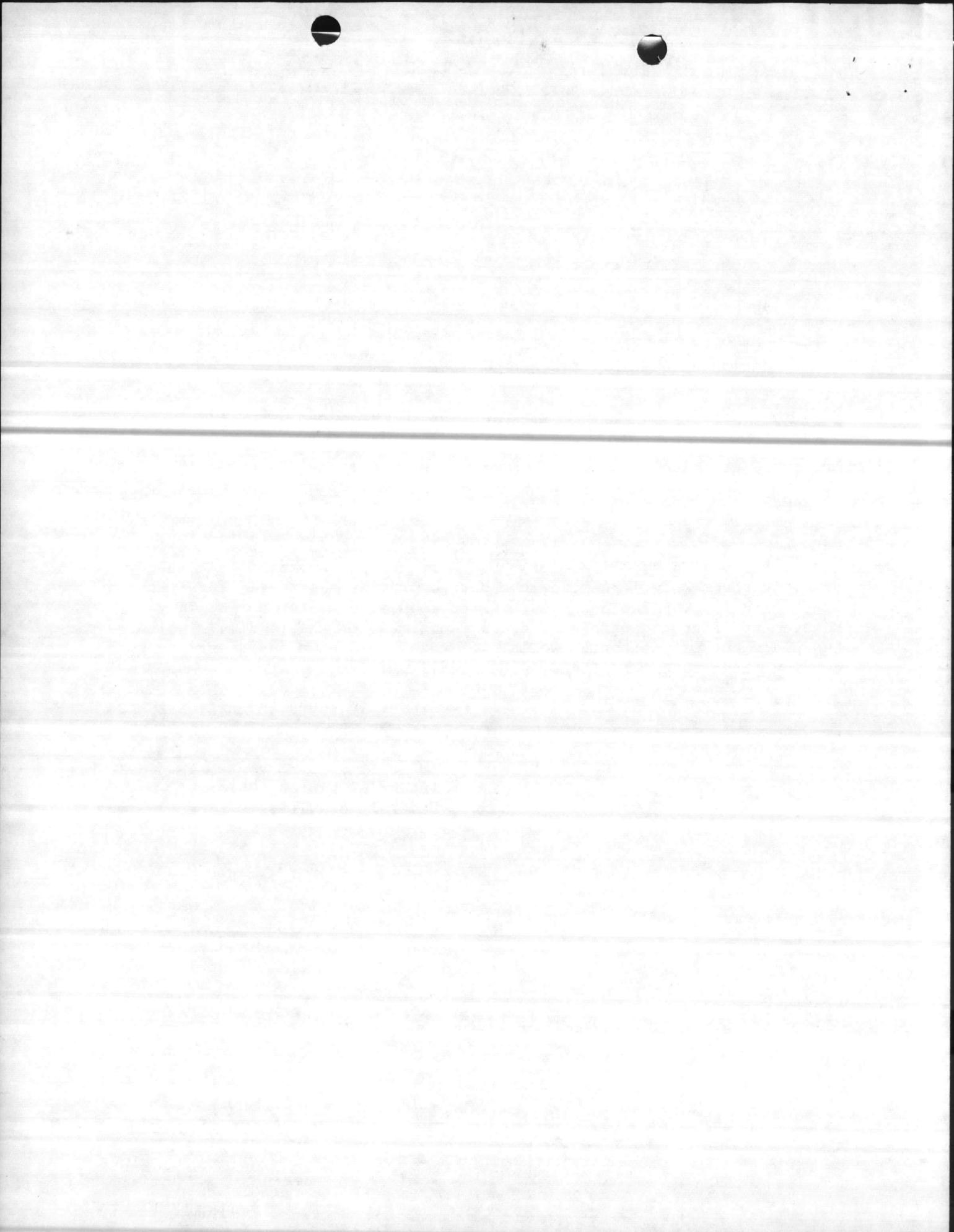
Sincerely yours,



Arthur G. Linton, Chief
Federal Activities Office

Attachment

ENCLOSURE (1)



ACTION

The recommendations described under SUMMARY are for inclusion in FAO's reply to above subject Federal installation.

BACKGROUND

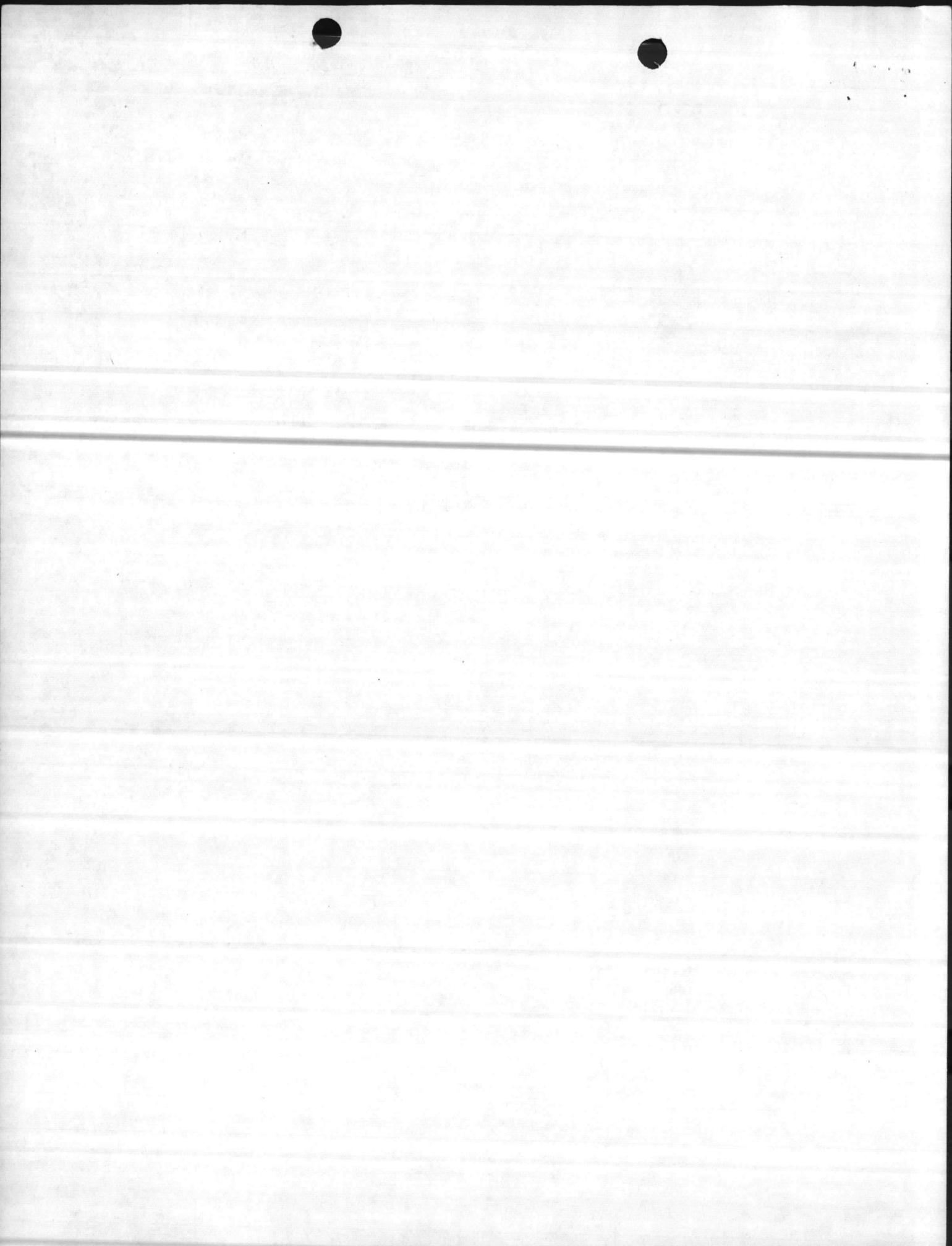
See SUMMARY



Ronald L. Ellis
Staff Engineer
Technical Assistance Section
Solid Waste Management Branch

RLE:ebc

Attachment



CAMP LEJEUNE, NORTH CAROLINA - CHEMICAL WASTE DISPOSAL RECOMMENDATIONS

Materials:

Disposal:

I. Miscellaneous Chemicals

- | | |
|----------------------|--|
| 1. Calcium Salts | Chemical Landfill |
| 2. Sodium Salts | Chemical Landfill |
| 3. Acids | Neutralization & addition to sanitary waste treatment plant |
| 4. Phenols | Tank &/or drum storage with subsequent removal to Cherry Point Marine Corps Air Station for treatment in the industrial waste treatment plant (plant now under construction) |
| 5. Arsenic Compounds | Same as "4" above |
| 6. Cyanide Salts | Same as "4" above |

II. Insecticides

- | | |
|---------------------|--|
| 1. DDT | Storage under controlled conditions - not to be placed in Chemical Landfill |
| 2. Malathion | Storage under controlled conditions - not to be placed in Chemical Landfill |
| 3. Parathion | Storage under controlled conditions - not to be placed in Chemical Landfill |
| 4. Dibrom | Placed in Chemical Landfill within intact metal containers - this material degrades rapidly (24 hours in water) |
| 5. Empty Containers | Placed in Chemical Landfill after cleaning - washwater from cleaning operation to be collected and channeled to a lined evaporation pond |

III. Foods

Sanitary Landfill (cans should be punctured prior to placement)

IV. Industrial Chemicals

- | | |
|---------------------------------|--|
| 1. Solvents | Mix with used oils |
| 2. Used Oils | Applied to unpaved areas for dust control and/or added to fuel oil storage tanks serving heating plants |
| 3. Corrosion Removing Compounds | Tank &/or drum storage with subsequent removal to Cherry Point Marine Corps Air Station for treatment in the industrial waste treatment plant (plant now under construction) |
| 4. Zinc Chromate Primers | Same as "3" above |
| 5. Epon Coatings | Same as "3" above |
| 6. Preservatives | Same as "3" above |



CAMP LEJEUNE, NORTH CAROLINA - CHEMICAL WASTE DISPOSAL RECOMMENDATIONS (CONT'D)

Miscellaneous
Materials:

Disposal:

V. Special Chemicals*

- | | |
|--|---|
| 1. DANC | Storage under controlled conditions - not to be placed in Chemical Landfill |
| 2. Impregnating Agents
(including sets) | Storage under controlled conditions - not to be placed in Chemical Landfill |
| 3. Decontaminating Agents
(excluding Calcium Salts) | Storage under controlled conditions - not to be placed in Chemical Landfill |
| 4. Protective Ointments | Chemical Landfill |
| 5. Gas Identification Sets | Chemical Landfill |
| 6. Gas Testing Kits | Chemical Landfill |

*Recommendations are based on information contained in "Military Chemistry and Chemical Agents"
Department of the Army Technical Manual TM 3-215, Departments of the Army and Air Force, Dec. 1963.

VI. Miscellaneous Materials

- | | |
|------------------------|-------------------|
| 1. Protective Clothing | Chemical Landfill |
| 2. Protective Curtains | Chemical Landfill |

6 810 664-0283



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT: Chemical Waste Disposal, U. S. Marine Corps Base
Camp LeJeune, North Carolina

DATE: February 9, 1973

FROM: 4ATS

TO: Arthur G. Linton, Chief
Federal Activities Office

SUMMARY

As requested, the recommendations concerning the disposal of chemical wastes at the above subject Federal installation were reviewed with regard to solid waste management.

In order for the above subject Federal installation to operate a chemical landfill, the following recommendations must be adhered to so as to comply with existing Federal standards:

1. Surface water courses and runoff shall be diverted from the chemical landfill by trenches and proper grading.
2. The chemical landfill shall be constructed and cover material graded so as to promote rapid surface water runoff without excessive erosion.
3. Re-grading of the chemical landfill shall be done as required during construction and after completion to avoid ponding of precipitation and to maintain cover integrity.
4. In no case shall chemical waste be allowed to contact ground water. At least 5 feet of undisturbed soil shall remain between the groundwater and waste.
- ✓ 5. An appropriate number of observation wells shall be constructed along the perimeter of the chemical landfill site so as to periodically monitor groundwater for possible contamination.
- ✓ 6. If the chemical landfill is located near a water course, sampling stations shall be established above and below the chemical landfill so as to periodically monitor the water course for possible contamination.
7. All chemical waste shall be immediately covered with three feet of compacted soil cover after placement in the disposal site.

CAMP LEJEUNE,

rials:

ial Chemicals*

PANC

regnation Agent
(including assets)

Decontaminating
(excluding Calc)

Protective Liner

Gas Identification

Gas Testing Kits

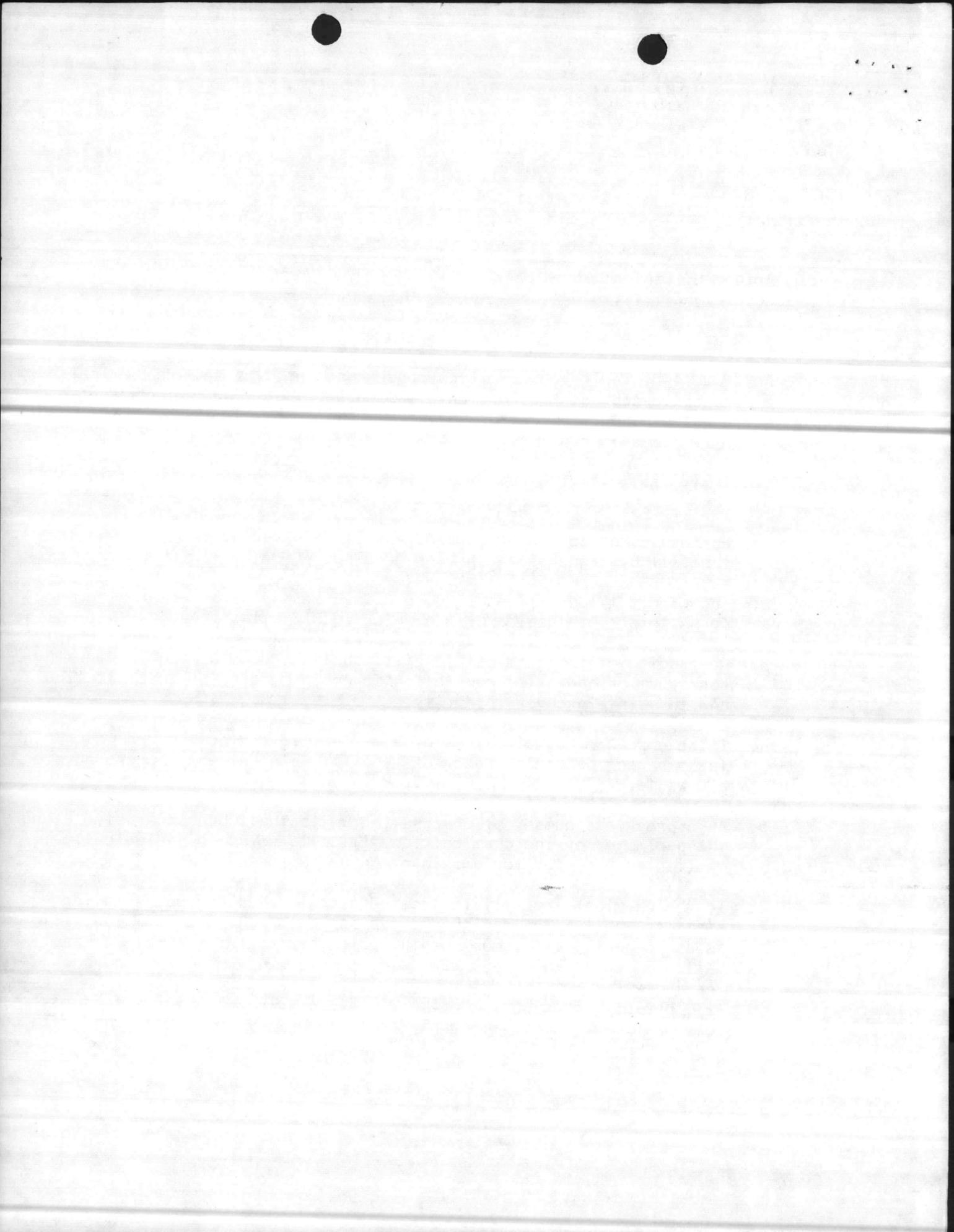
Recommendations

Department of

cellaneous water

Protective Cloth

Protective Surtis



DEPARTMENT OF THE NAVY

Memorandum

15G/CFR/lp
11000

DATE: 26 Dec 1972

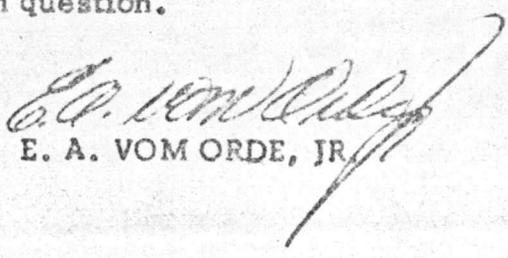
FROM: Base Maintenance Officer

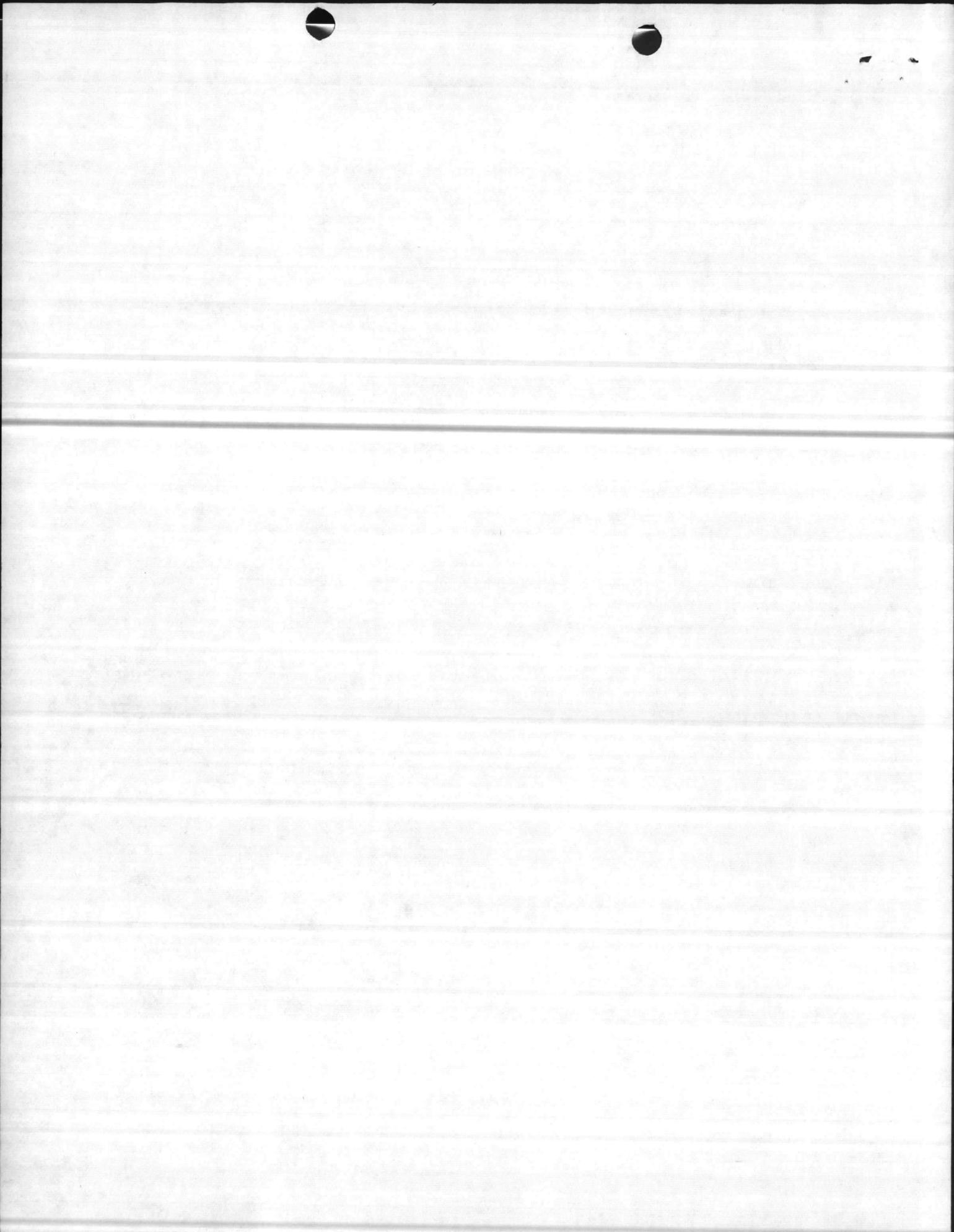
TO: Base Safety Manager
Via: Assistant Chief of Staff, Facilities _____

SUBJ: Safe disposal of contaminants, pesticides, or hazardous waste

Ref: (a) BSafetyMgr memo 48/DWT/gdr 5930 of 12 Oct 1972
(b) ACofS Pac End 4B/LD/mkc 5100 of 17 Oct 1972

1. Reference (a) requested advice on disposition of contaminants, pesticides, or hazardous waste. Reference (b) requested comments and clarification on same subject.
2. Response to references (a) and (b) has been withheld pending advice from the Environmental Protection Agency, Atlanta.
3. On 19 December 1972, Mr. Holdaway of the Environmental Protection Agency met with Base Maintenance personnel regarding disposition of pesticides and chemical waste. No specific information was given by Mr. Holdaway except that no more chlorinated hydrocarbon pesticides should be buried at any dump site. He was furnished a listing of all material that has been buried at the present chemical landfill. Mr. Holdaway will confer further with solid waste disposal experts and meet with this office again in January 1973, hopefully being able to give us definite recommendations for disposal of the various chemicals in question.


E. A. VOM ORDE, JR.



48/LD/mkc
5100
17 Oct 1972

FIRST ENDORSEMENT on BSafetyMgr memo 48/LWT/gdz 5930 of 12 Oct 1972

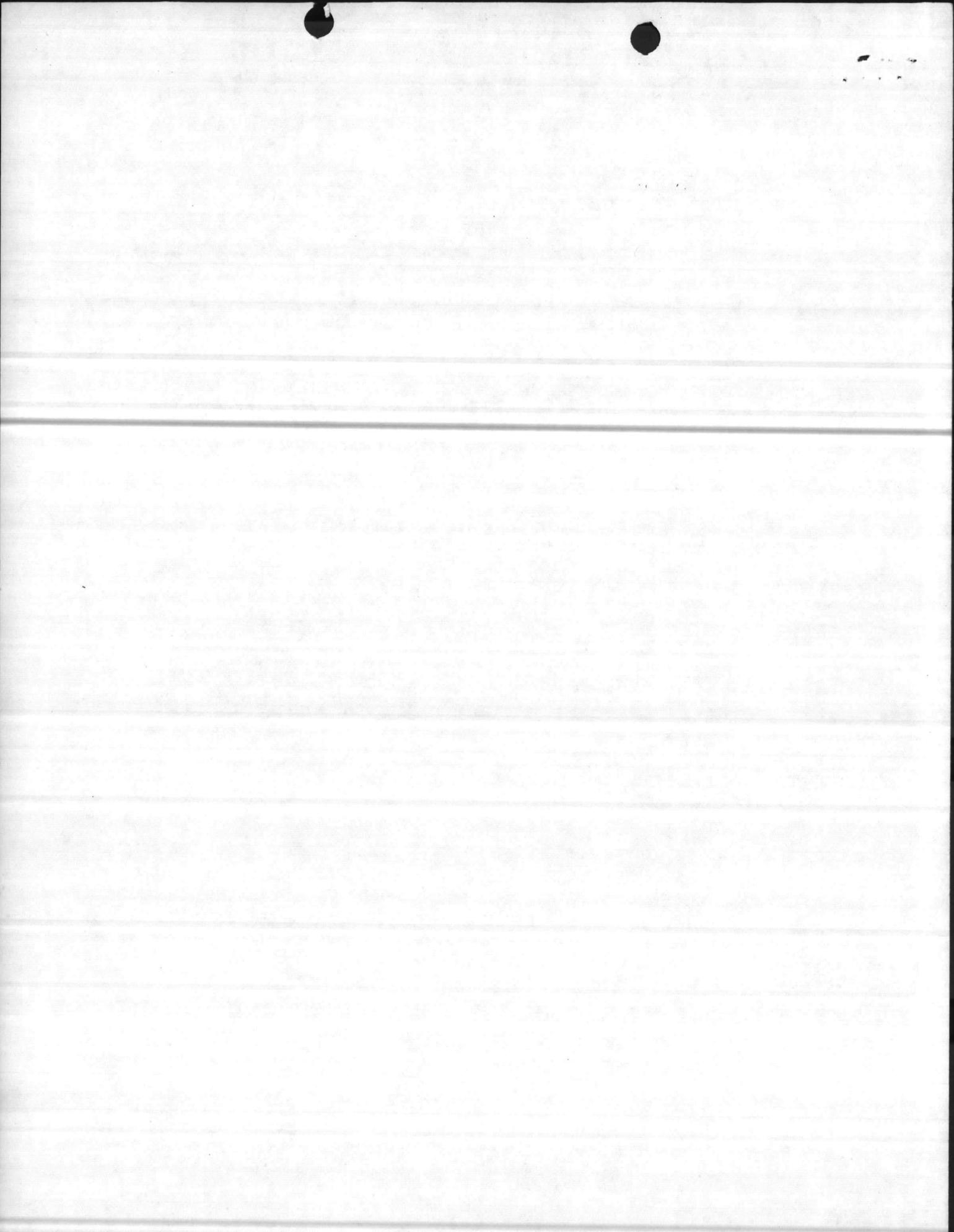
From: Assistant Chief of Staff, Facilities
To: Base Maintenance Officer

Subj: Safe disposal of contaminants, pesticides or hazardous waste;
comments regarding

1. Readdressed and forwarded for comments.
2. Clarification is requested within the basic memorandum as to the continuation of the policy to bury pesticides in the authorized area for contaminants or hazardous waste. For instance, DDT is emulsified in kerosene, therefore should this and like items still be disposed of in the area as outlined in enclosure (1).
3. It is requested that your comments be directed to the Base Safety Manager via this office.

J. F. MADER

Copy to:
BSafetyMgr



Memorandum

48/202/odr
6930

DATE: 18 Oct 1978

FROM: Base Safety Manager

TO: Assistant Chief of Staff, Facilities

SUBJ: Safe disposal of contaminants, pesticides or hazardous waste; comments regarding

Encl: (1) EO 5100.13A

1. Enclosure (1) sets forth regulations pertaining to the operation of the Base Chemical Disposal Area. The Base Safety Manager has been charged with the responsibility of operating the disposal area, which has been in operation approximately 30 years. After reviewing EO 11080.1, questions arise regarding the continued methods of disposal as they relate to water pollution, etc.
2. It is requested that enclosure (1) be reviewed and this office be advised as to the continued operation or the revision of present methods.
3. Any further information regarding this subject, please contact the Base Safety Manager, telephone 5725.

D. W. TALLON

