1-1: ...

From: Commanding General

To: Commandant of the Marine Corps (Code LFF-2)

Subj: Pollution Abatement Related to Past Hazardous Material Disposal Aboard Marine Corps Base, Camp Lejeune

Ref: (a) FONECOM btwn Mr. Paul Mubbell, CMC (Code LFF-2), and Mr. Danny Sharpe, BMainD, on 8 Dec 1981
(b) OIC, NEESA, ltr 112N/WSE/pn 11100/1:273A Ser 1754 of 18 Dec 1981

Encl: (1) CG, MCB, 1tr MAIN/DDS/th 6240 of 27 Aug 1981

(2) Input for Pollution Control Report

- 1. The purpose of this letter is to identify an environmental concern having potential for adverse public reaction/controversy. Enclosures (1) and (2) provide background on recent actions involving an abandoned chemical landfill located aboard Marine Corps Base, Camp Lejeune where the subject disposal was accomplished. The subject situation was discussed with Headquarters Marine Corps Environmental personnel during reference (a).
- 2. This command is concerned that the NACIP, discussed in reference (b) and enclosure (1), will not address the subject issue in a timely manner.
- 3. Enclosure (2) outlines a proposed course of action to accelerate assessment and corrective action related to the chemical landfill site.
- 4. It is requested that guidance be provided regarding this matter. The point of contact is Mr. Danny Sharpe, Base Maintenance Division, (AUTOVON) 484-5003.

CLW

MAIN/DDS/th 6240

AUG 2 7 1981

Mr. Charles E. Rundgren
Water Supply Branch
Sanitary Engineering Section
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27502

Dear Mr. Rundgren:

The purpose of this letter is to provide follow-up information to telephone calls made to your agency on 25 August 1981 concerning the Camp Lejeune Chemical Landfill and the potable water system at the Rifle Range. Attached are results of laboratory analyses of water samples collected in the vicinity of the landfill and from the Rifle Range potable water system. Also attached is a map showing the locations of the landfill, the Rifle Range and the sample collection points.

Although use of the landfill was discontinued several years ago, concern regarding potential discharges from the landfill arose recently as a result of the implementation of federal and state hazardous waste regulations promulgated under the Resource Conservation and Recovery Act. At that time, this Command requested technical assistance from the Atlantic Division of the Naval Facilities Engineering Command, Horfolk, Virginia (LAMTHAVFACENGCOM).

Dased on the laboratory analyses mentioned above and on-site inspections of the landfill and the Rifle Range water system, LANTHAVFACENGEOM officials have concluded that the Rifle Range drinking water meets current drinking water standards, however, they recommended that careful monitoring continue. The Camp Lejeune Rifle Range water system has been included in a monthly trihalomethanes monitoring program. Since test well and surface water data from samples near the landfill, especially test well 15 and sample point number 5, indicate significant levels of contamination, this Command made a decision to notify both the general public and appropriate state agencies of this potential problem.

LANTHAVFACENGCOM has advised that Marine Corps Base Camp Lejeune is scheduled for FY-82 Initial Assessment Study (IAS) in the Havy Assessment and Control of Installation Pollutants (HACIP) Program. The IAS is the first phase in a program to identify, assess and control the contamination of the environment from past hazardous waste disposal operations at Havy and Marine Corps activities.

Questions regarding this matter should be directed to the Base Maintenance Officer, Marine Corps Base, Camp Lejeune, North Carolina, telephone (919) 451-2511.

Sincerely,

CLW

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C. G. COOPER Major General, U. S. Marine Corps Commanding

MCB CAMP LEJEUNE SAMPLE DATE 10 APRIL 1981

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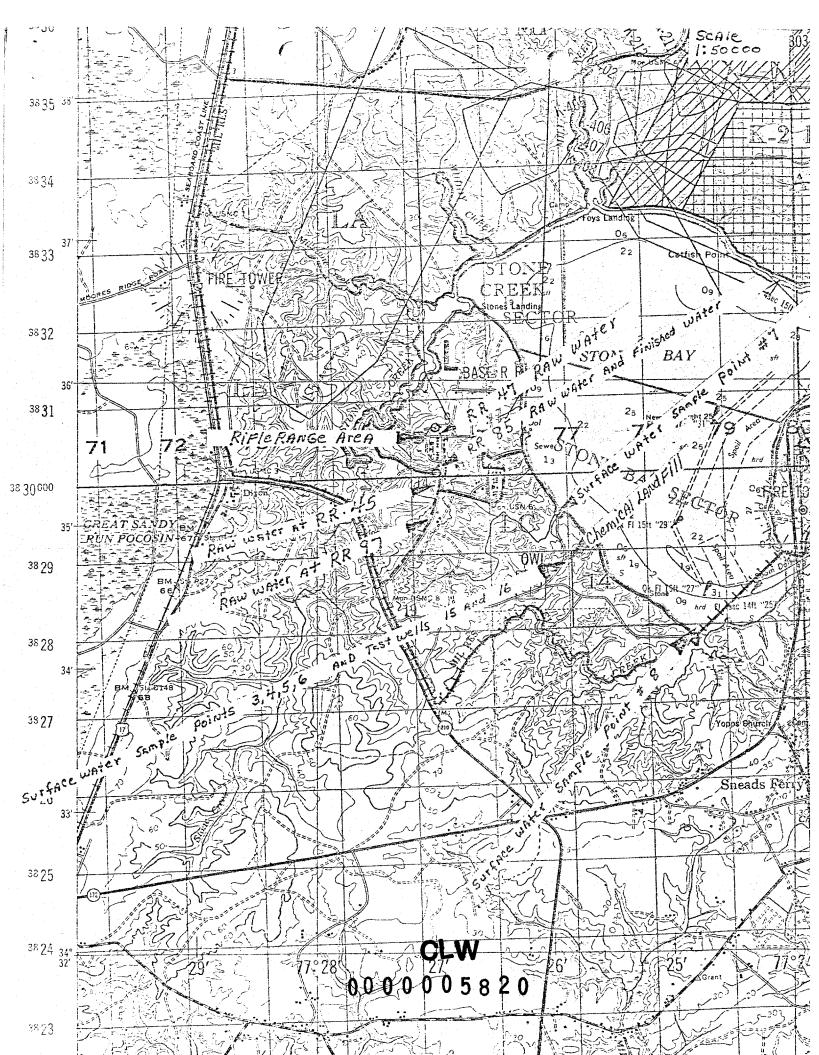
Box 854, Virginia Beach, Virginia 23451, phone (804) 425-1498.

MCB CAMP LEJEUNE SAMPLE DATE 19 APRIL 1981

ALL RESULTS IN PARTS PER BILLION (ppb)

			DO:				3 1 9
	TEST WELL NO. 15	TEST WELL NO. 16	Sample Point No.3 Pool of Water Below Well No.'16	Sample Poin Nap 4001	SAMPLE POINT NO. 5*	SAMPLE POINT NO. 6*	CLW 0 0 5 8
BENZENE					_		0 (
TOLUENE		52			101		00
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1, 1, 2 - TRICULOROETHANE					252		
CHLOROFORM					35		
MET LENE CHLORIDE	2	11 W	5	2	37	14	
TETRACHLOROETHYLENE						6	
TRICHLOROETHYLENE					141		
The above chart summarizes on page 4. Pages 5 and 6 those on pages 5 and 6 are 1118 Cypress Avenue, P. O.	data from outline to available Box 854,	run ters sam Beacl	n water samples c ested for and det ing point. Analy Virginia 23451,	at imit cor	Cations Analys Cted by 5-1498.	indicated on map shown sis sheets similar to Jennings Laboratory, l	shown r to ory, Inc.,
Oypress avenue, r.			Arginia 72421	phone (out)	.0441-074		

Page



JENNINGS LABORA

AN. LYTICAL AND CONSULTING CHESICAS

1118 CYPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

VA (EPA) CERTIFIED LABORATORY for Drinking Water Analysis - Microbiological, Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referer Chemists for: AMERICAN OIL CHEMISTS SOCIETY NATIONAL SOYBEAN PROCESSORS ASSOCIATION

Laboratory Certified by VA. STATE WATER CONTROL BOARD for Analysis of Effluents for NPDES PERMITS CERTIFIED OFFICIAL U.S.D.A. LABORATORY FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

Mr. Dave Goodwin Building N-23 Atlantic Division Naval Facilities Engineering Command Norfolk, Virginia 23511

FINISHED WATER #1

Laboratory

Analysis No.

243

May 29, 1981

SAMPLEOF					
MARKED	MCB CAMP LEJEUNE -	Rifle Range Water	Treatment Plan	nt taken 5/20/	81 Grab
	Sample picked up 5/	21/81 by JENNINGS	LABORATORIES,	INC. Total Cl	maa 8.1
OFFICIAL S	SAMPLE BY: P. A. I				
PRIORIT	Y POLLUTANTS	PURGEABLE OR	GANICS D	ETECTION LIMIT	īS μg/
Acrolei	n	None Detected		2.0	•
Acrylon	itrile	None Detected		2.0	
Benzene		None Detected		10.0	
Toluene		None Detected		10.0	
Ethylber	izene	None Detected .		10.0	
Carbon !	Tetrachloride	None Detected		.007	•
Chlorobe	enzene	None Detected	•	.03	
1,2-Dich	nloroethane	None Detected		.006	
1,1,1-T1	cichloroethane	None Detected		.005	
l,l-Dich	loroethane	3.40 ppb		.904	
l,l-Dich	loroethylene	None Detected		.006	
1,1,2-Tr	cichloroethane	None Detected		.006	
1,1,2,2-	Tetrachloroethane	None Detected		.006	
Chloroet	hane	None Detected		.01	
2-Chlore	etnyl vinyl ether	None Detected		.08	

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Respectfully submitted. TENNINGS LABORATORIES, INC.

JENNINGS LABORATORIES, INC.

	ULMATINGS DALORALORIES, INC.	
PRIOPITY POLLUTANTS .J.	CABLE ORGANICS (conting a	DETECTION LIMITS µg/1
Cnloroform	94.40 ppb	.010
1,2-Dichloropropane	None Detected	.004
1,3-Dichloropropane	None Detected	.006
Methylene Chloride	4 ppb	.010
Methyl Chloride	None Detected	.009
Methyl Bromide	None Detected	.03
Bromoform	None Detected	.02
Dichlorobromomethane	None Detected	.006
Trichlorofluoromethane	None Detected	
Dichlorodifluoromethane	None Detected	.01
Chlorodibromomethane	None Detected	.01
Tetrachloroethylene	None Detected	.007
Trichloroethylene	None Detected	.005
Viryl Chloride	None Detected	.01
1,2-trans-Dichloroethylene	- None Detected	.006
bis(chloromethyl)ether	None Detected	.003
BASE/NEUT	RAL EXTRACTABLE ORGANIC CO	MPOUNDS
1,2-Dichlorobenzene		.04
1,3-Dichlorobenzene		.04
1,4-Dichlorobenzene		.04
Hexachloroethane		.001
Hexachlorobutadiene		.001
Hexachlorobenzene		.002
1,2,4-Trichlorobenzene		.006
Bis (2-Chloroethoxy) methane		.40
Naohthalene		.04
2-Chloronaphthalene		.04
		FA

CLW

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IMBORATORY ANALYSIS NO. 243

2,4-Dinitrotoluene

Isophorone

Nitrobenzene

PAGE -2-

BY /// s/ mying)
Chemist

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1. Facility: Marine Corps Base

Address: Camp Lejeune, North Carolina

County: Onslow

- 2. Specific Type of Pollution: Miscellaneous types of hazardous materials/wastes.
- 3. Amount of Pollution: Undetermined at this time.
- 4. Pollution Source and Discharge, Emission or Deposit Site:

Leacheate from inactive chemical landfill located approximately 1800 meters north west of the confluence of Everetts Creek and New River and 300 meters west of New River shoreline.

5. Existing Treatment and Other Control Measures:

Three existing monitoring wells located at the site are periodically sampled and analysis performed. No remedial/abatement facilities/actions are in place or programmed.

6. Effectiveness of Existing Treatment and Control:

Adequacy of monitoring wells cannot be documented. Hydrological conditions at the site and hydrological relationships between the site and surrounding potable water wells/supplies are unknown.

7. Remedial Measures Proposed and Estimated Effect on Correcting Problem:

Provide the following: (a) Hydrological/engineering evaluation of the site; potentially affected ground/surface water supplies; and adequacy of existing monitoring program. (b) Design and construction of additional monitoring facilities/wells if required. (c) Develop baseline data for groundwater quality at the problem site.

- 8. Applicable Standards:
 - a. Comprehensive Environmental Response, Compensation and Liability Act of 1980.
 - b. Resource Conservational Recovery Act Regulations.
- 9. Project Schedule:

To be determined.

10. North Carolina Public Health Agency has been advised of the potential problem and supplied with available monitoring data. The general public was advised by a news release. The site was identified to the EPA as required by the Comprehensive Environmental Response Compensation and Liability Act of 1980.

CLW 0000005823