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DESCRIPTION ON TAB:

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General environ'L

Affairs

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1 JANUARY 1978

31 DECEMBER 1978

JAN 1981 - Destroy
SecNavInst 5212.5B, Part II, Chap VI
Par 6240(1)

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
4 Dec 1978

From: Base Maintenance Officer
To: Public Works Officer

Subj: Industrial Waste Collection and Treatment MILCON Project P-996

Ref: (a) FoneCon btwn Mr. R. Kerley, Public Works Dept, and Mr. J. Wooten, BMaintDept, on 4 Dec 78

1. As discussed during reference (a), it is requested that the MAG-26 Ground Support Equipment Facility washrack and equipment storage area Building AS-4146 and AS-4147 be included in the subject project.

J. KOVACH

1010-1100 8 8 MMO 1 17 6 Military 2 Temp.

BRIEFING FOR MR. BILL CONE AND MR. TOM BASIL

ENVIRONMENTAL ISSUES

A. Toxic Substance Control Act
   Asbestos
   1. PCB Inventory
   2. Base is Developing PCB Plan
   3. Disposal at Cherry Point (Some hazardous material)
   4. Liaison/Regional EPA & State

B. Resource Conservation and Recovery Act

   1. Sanitary Landfill
   2. Landfill Operational Plan
   3. EPA & State Inspections
   4. Test Wells
   5. Recycling (~~Aluminum~~) News Paper computer cards, Comp paper

C. Safe Drinking Water Act

   1. State has Primacy
   2. Implementation
   3. Violations and Public Notification (Courthouse Bay)

D. Clean Air Act

   1. Survey
   2. Central Heating Plant

      a. Electrostatic Precipitators
      b. Consent Order

   3. Classified Material Incinerator

      a. Overlooked by State
      b. Mulcher on Order

   4. Hydrocarbons

E. Clean Water Act

   1. Seven Wastewater Treatment Plants
   2. NPDES Permits - Monitoring & Reporting

      a. Oil & Grease 27 Violations since Jan 78
      b. Suspended Solids (Sedimentation)

   3. Abatement

a. MILCON Project P-996 - $9 million
(Industrial Waste Collection & Treatment)
b. Oil Spill Prevention Control & Countermeasures Plan
c. Sedimentation Control at Construction Sites

F. Endangered Species Act

1. Red-cockaded Woodpecker
2. Atlantic Loggerhead Sea Turtle
3. American Alligator

MAIN/HOF/th
6240
14 Nov 1978

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

Subj: Resource Recovery Report

Ref: (a) FoneCon btwn Mr. Foil (CCSC) and Mr. Kearns (HQMC) on 25 Oct 78

Encl: (1) Source Separation Implementation Report

1. Enclosure (1) is forwarded as requested by reference (a).

J. KOVACH
By direction

ENCLOSURE ( )

Source Separation Implementation Report (Report Symbol DD 6240-09)

1. Solid Waste Generation Rate: 139.3 TPD

2. Office Wastes: (less computer wastes) See Narrative	Included Bldgs: _____ Personnel: _____	Excluded Bldgs: 7 Personnel: _____	Tons Recovered - - - _____ TPY
3. Computer Wastes: See Narrative	Generation Points: Included 2		Tons Recovered 17.1 TPY 1 Apr - 30 Sept
*4. Used Newspapers:	Family Housing Units: Included 4020 Excluded 560		Tons Recovered 19.6 TPY 1 Apr - 30 Sept
5. Corrugated Wastes:	Generation Points: Included 48		Tons Recovered 579.22 TPY 1 Apr - 30 Sept

6. Proceeds of Sale Returned to Activity Per Year: $ 1,793.96
1 Apr - 30 Sept 78

7. Narrative: (Attach pages as required)

8. *Feasibility: Attach "Cost Analysis Supplement to Non-Implementation Report" to justify "0" tons recovered in right-hand columns of items 2, 4, and 5, only where the qualifying factors of 100 office workers, 500 families, and 10 tons/months corrugated waste have been met.

139.3

See Narrative

See Narrative

7. Narrative

a. Office Wastes - No program has been establish to separate and collect office wastes. However, the solid waste management master plan prepared by Stearns, Conrad and Schmidt (SCS) Engineers and the Federal Register have been reviewed and a cost analysis supplement prepared. The following information is provided:

(1) Seven locations at Camp Lejeune have been identified as meeting the requirements for source separation of high-grade paper. Estimates of waste generation, percentage of recyclable high-grade paper and associated costs are based on the findings of the SCS study.

(2) Estimates of revenue are based on the latest quote by Defense Property Disposal Region Office, Memphis, Tennessee and taking into account the terms of Defense Property Disposal Services contract number 31-6422-010 with the Onslow County Workshop.

(3) As shown by the cost analysis supplement, a program to recover high-grade office paper is not cost effective at this time.

b. Computer Waste

(1) Tab cards are delivered to the Defense Property Disposal Office for disposal at the surplus auction. Of the 17.1 TPY listed in paragraph 3, 10 tons are tab cards auctioned off by DPDO. The remaining 7.1 tons are computer paper recovered by the Resource Recovery Plant. There is at present 5 tons of tab cards ready at DPDO for sale.

(2) The money from tab card sales is not included in paragraph 6. These funds are not returned to this activity. The amount involved at the last sale was $90/ton.

(3) Computer paper is being delivered to the Onslow County Workshop Resourse Recovery Plant by the producer/user when sufficient quantities are built up to warrant delivery or by deposit in the containers placed outside the data processing centers.

RIN 8700.041A

ENCLOSURE ( )

COST ANALYSIS SUPPLEMENT TO NON-IMPLEMENTATION REPORT

(0150-EPA-AN)

(Read instructions on reverse before completing form)

AGENCY NAME (Include Bureau, Office, etc)

Department of the Navy
Headquarters, U.S. Marine Corps
Washington, D.C. 20380

FACILITY NAME AND ADDRESS

	PART A (High-grade Paper)		PART B (Newspapers)		PART C (Waste Corrugated)	
1. Factor which requires compliance	NO. OF EMPLOYEES:		NO. OF FAMILIES:		TONS CORRUGATED:	
	COLUMN 1	COLUMN 2	COLUMN 1	COLUMN 2	COLUMN 1	COLUMN 2
Number of Employees	PRIOR TO IMPLEMENTATION	PROJECTED AFTER IMPLEMENTATION	PRIOR TO IMPLEMENTATION	PROJECTED AFTER IMPLEMENTATION	PRIOR TO IMPLEMENTATION	PROJECTED AFTER IMPLEMENTATION
2. Estimated Waste Generation (tons/mo.)						
A. Total mixed	19.5	11.1				
B. Recyclable	N/A	8.4	N/A		N/A	
3. Estimated Costs ($/mo.)						
A. Collection Labor	376.94	564.06				
B. Collection Equipment	84.24	239.19				
C. Storage	5	5				
D. Administration	0	68.31				
E. Disposal	61.82	35.19				
TOTAL	528.00	911.75				
4. Revenues ($/mo.)	N/A	60.05	N/A		N/A	
5. Net Costs ($/mo.)	528.00	851.70				
6. Savings ($/mo. – if loss, indicate by minus sign)	N/A	-323.70	N/A		N/A	

EPA Hq Form 8700-8 (6-77)

BMAINTO

VZCZCBRA580
PTTUZYUW RUCLBRA0067 2491951-UUUU--RULSSUU.
ZNR UUUUU
P 061951Z SEP 78
FM CG MCB CAMP LEJEUNE NC
TO CMC WASHINGTON DC
BT
UNCLAS//N11000//
NATURAL RESOURCES MANAGEMENT REVIEW (CMC CODE LFF-2)
A. CMC MSG 291429Z AUG 78
1. AS REQUESTED BY REF A, PERIOD 18-22 SEP 78 FOR SUBJECT REVIEW IS CONFIRMED.
BT
#0067

PRIORITY

305

TOD: 062132Z AUG 78
REL: T. R. BAISLEY
DIST: BMAINTO, FAC

AUG 3 1978

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	[illegible]
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF	✓		
SECRETARY			
F&A BRANCH			
UMACS			
MME			

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 8-30-78

TO:

[BASE MAINT O]

PUBLIC WORKS O

COMM-ELECT O

MOTOR TRANSPORT O

DIR, QUARTERS & HOUSING

DIR, BOQ/BSQ

BASE FIRE CHIEF

ATTN: _____

1. Attached is forwarded for ~~info~~/action.

Prepare confirmation reply

2. Please initial, or comment, and return all papers to this office.

3. Your file copy.

John Langfitt

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"

AUG 29 22 11 78

VZCZCRBA537
RTTUZYUW RUEACMC2488 2412159-UUUU--RUQLBRA.
ZNR UUUUU
R 291429Z AUG 78
FM CMC WASHINGTON DC
TO RUQLBRA/CG MCB CAMP LEJEUNE NC
BT
UNCLAS //N11000//
NATURAL RESOURCES MANAGEMENT REVIEW (CMC CODE LFF-2)
A. MCO P11000.8A
1. NATURAL RESOURCES MGMT REVIEW, TO BE CONDUCTED BY MR. CHARLES GOODMAN (NATURAL RESOURCES MGMT OFF, GS-13, SECRET CLEARANCE) IS SCHEDULED FOR MCB CLNC DURING PERIOD 18-22 SEP 78.
2. PURPOSE OF REVIEW IS TO ASSESS ACTIVITY PROGRESS IN IMPLEMENTING PROVISIONS OF THE REF, AND OTHER HQMC DIRECTIVES IN THE 11015 SERIES, RELATING TO NATURAL RESOURCES MANAGEMENT.
3. REQ CONFIRMATION OF ABOVE BY 8 SEP 78.
BT
#2488

TOR: 29 22 11Z AUG 78
ACT: FAC

ORIGINAL

ACTION

NNNN

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	BWR
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF		✓	KH.
SECRETARY			
F&A BRANCH			
UMACS			
MME			

Copy provided for info. Just a sample of possibly what we could get involved with. BWR

VZCZCRBA916
PTTUZYUW RUEACMC0932 2560202-UUUU--RUCLBRA.
ZNR UUUUU
P 122346Z SEP 78
FM CMC WASHINGTON DC
TO RUECLFA/CG FMFLANT
RUEBJMA/CG MCDEC QUANTICO VA
RUEOAIB/COMCABEAST CHERRY POINT NC
RUCLBRA/CG MCB CAMP LEJEUNE NC
INFO RUEBDOD/CG SECOND MARDIV
RUEOAIJ/CG SECOND MAW
BT
UNCLAS //N06100// SECTION 1 OF 2
ENVIRONMENTAL SUIT PERTAINING TO THE ISLAND OF VIEQUES, PR (CODE OTTU)

PRIORITY

C/S

Maint

SEP 14 1978

DISTRIBUTION
BMO
ABMO
NREAD
Admin D.
Oper D.
M&R D.
Tele D.
Util O.
F&A O.
Prop O.
MME
Maint NCO
Secretary

SEP 13 02 36 78

A. DON LTR JAG:140:GPL:EVB 14/16027 OF 5 SEP 1973 (NOTAL)
1. AS A RESULT OF A RECENT RULING IN THE U.S. DISTRICT COURT FOR THE DISTRICT OF PUERTO RICO, DOD MUST ANSWER 186 QUESTIONS AND SUPPLY VARIOUS DOCUMENTS, MEMORANDA, REPORTS, ETC., IN THE CASE OF THE PENDING ENVIRONMENTAL SUIT PERTAINING TO THE ISLAND OF VIEQUES.
2. THOSE REQUIREMENTS CONTAINED IN THE REFERENCE WHICH ARE PERTINENT TO ADDRESSEES ARE PROVIDED VERBATIM IN THIS MESSAGE. ADDRESSEES ARE REQUESTED TO SUPPLY INFORMATION FOR INCORPORATION INTO THE RESPONSE

PAGE 2 RUEACMC0932 UNCLAS //N06100//
BY THIS HEADQUARTERS.
3. IN ORDER THAT THIS HEADQUARTERS CAN RESPOND WITHIN THE TIME FRAME AND IN THE MANNER DIRECTED BY THE COURT IT IS NECESSARY THAT INFORMATION FROM ACTION ADDRESSEES REACH THE COMMANDANT OF THE MARINE CORPS (CODE OTTU) BY 21 SEP 1973. THERE CANNOT BE ANY DELAYS OR EXTENSIONS GRANTED. ALL REPLIES MUST BE AS COMPLETE AS POSSIBLE AND MUST BE IDENTIFIED BY THE SAME NUMBERS AND LETTERS AS THOSE IN THE QUESTIONS/DOCUMENT REQUIREMENTS. IN CASES WHERE THE INFORMATION OR DOCUMENTS ARE NOT AVAILABLE OR ARE INCOMPLETE, SO INDICATE AND GIVE THE REASONS WHY.
4. SUBMIT INFORMATION ON FOLLOWING REQUIREMENTS:
A. REQUEST TO PRODUCE DOCUMENTS
QUOTE 43. ALL MEMORANDA, REPORTS, ANALYSES OR OTHER DOCUMENTS OF WHICH YOU ARE AWARE THAT HAVE BEEN PREPARED SUBSEQUENT TO MARCH 6, 1973 AND WHICH EVALUATE, DISCUSS OR HAVE AS THEIR SUBJECT THE QUESTION OF WHETHER A TRANSFER OF MILITARY OPERATIONS FROM CULEBRA TO VIEQUES HAS OCCURRED.
44. THE FOLLOWING DOCUMENTS:
G. U.S. DEPARTMENT OF THE NAVY, MEMORANDUM FOR THE ASSISTANT SECRETARY OF THE NAVY (INSTALLATIONS AND LOGISTICS), FILE

12 2346 Sep

ABLE, MARINE CORPS REQUIREMENTS FOR VIEQUES TRAINING AREA.
WASHINGTON, DC: HEADQUARTERS, U.S. MARINE CORPS, 1 FEBRUARY 1971.

1. U.S. DEPARTMENT OF THE NAVY. MEMORANDUM FOR THE SPECIAL ASSISTANT TO THE SECRETARY OF THE NAVY, EFFECTS ON MARINE CORPS TRAINING ON VIEQUES ISLAND WHICH WOULD RESULT IF ALL ATLANTIC FLEET NAVAL GUNFIRE BOMBARDMENT WERE SHIFTED FROM CULEBRA TO THE EAST END OF VIEQUES ISLAND. WASHINGTON, DC: HEADQUARTERS, U.S. MARINE CORPS, 1 JUNE 1970.

47. DIRECTING YOUR ATTENTION TO A NAVY MEMORANDUM WRITTEN BY A E BENTON, CDR, USN, DATED OCTOBER 5, 1974, ENTITLED "MEMORANDUM FOR THE COMMANDING OFFICER, ATLANTIC FLEET WEAPONS RANGE," SUBJECT: TRIP REPORT 2-5 OCTOBER 1974, CONCERNING NAVAL TRAINING AREA AND VC-8 FORCE LEVELS. PLEASE SUBMIT THE FOLLOWING:

A. A COPY OF ANY AGREEMENT REACHED SUBSEQUENT TO SAID MEETING ON OCTOBER 4, 1974, BETWEEN THE NAVY AND THE MARINE CORPS, WITH RESPECT TO THE USE OF THE VIEQUES TARGET AREA;

B. A COPY OF THE AFWR RANGE MANUAL THAT WAS IN EFFECT AT THE TIME OF SAID MEETING OF OCTOBER 4, 1974;

C. A COPY OF ALL CHANGES IN THE AFWR RANGE MANUAL MADE SUBSEQUENT TO THE DATE OF SAID MEETING OF OCTOBER 4, 1974.

PRIORITY

59. THE FOLLOWING NAVY DOCUMENTS:

A. CNO 101805Z SEP 74 (NOTAL)

B. CG FMFLANT 261750Z SEP 74 (NOTAL) UNQUOTE

B. SPECIFIC QUESTIONS. QUESTIONS 15 AND 16 WILL BE ANSWERED BY USN. HOWEVER, THEY PROVIDE LEAD-IN TO QUESTION 17 WHICH MUST BE ANSWERED BY USMC.

QUOTE 15. DO YOU CONTEND THAT A REDUCTION IN THE LEVEL OF ATLANTIC FLEET NAVY TRAINING REQUIREMENTS OCCURRED IN ANY YEAR 1963 TO PRESENT? IF SO, SPECIFY:

A. THE DATE ON WHICH SUCH REDUCTION OCCURRED;

B. THE DURATION OF SUCH REDUCTION;

C. THE MAGNITUDE OF THE REDUCTION IN TRAINING REQUIREMENTS; AND

D. EACH KIND OF MILITARY TARGET PRACTICE THAT WAS REDUCED AS A RESULT OF THE REDUCTION IN THE LEVELS OF NAVY TRAINING (I.E., AIR-TO-GROUND, NGFS, ARTILLERY, COMMAND CONTROL) AND THE MAGNITUDE OF REDUCTION IN EACH;

E. EACH TARGET RANGE IN THE ATLANTIC FLEET WHERE SUCH A REDUCTION IN MILITARY TARGET PRACTICE OCCURRED AND THE PERCENTAGE OF REDUCTION IN EACH.

16. SPECIFY WHETHER THE REDUCTION IN MILITARY TARGET PRACTICE, IF ANY, DISCUSSED IN THE ANSWER TO INTERROGATORY NO. 15 IS REFLECTED IN REDUCED BUDGET EXPENDITURES. IDENTIFY AND SUBMIT ALL DOCUMENTS THAT REFLECT SUCH REDUCED BUDGET-EXPENDITURES.

17. SPECIFY WHETHER THE REDUCTION IN MILITARY TRAINING WAS ORDERED OR REFLECTED IN ANY DIRECTIVE OR OTHER DOCUMENT FROM ANY ENTITY OF THE UNITED STATES GOVERNMENT, INCLUDING BUT NOT LIMITED TO THE EXECUTIVE BRANCH OF THE UNITED STATES, THE SECRETARY OF DEFENSE, THE SECRETARY OF THE NAVY OR THE CHIEF OF NAVAL OPERATIONS. IDENTIFY AND SUBMIT A COPY OF ANY SUCH DIRECTIVE OR OTHER SUCH DOCUMENT.

30. BESIDES VIEQUES, LIST ALL MILITARY TRAINING AREAS USED BY THE DEPARTMENT OF DEFENSE, INCLUDING BUT NOT LIMITED TO ALL SITES ON THE ATLANTIC AND PACIFIC COAST OF THE UNITED STATES, IN THE GULF COAST AND IN THE CARIBBEAN, THAT USE LIVE ROUNDS. AS TO EACH STATE:

A. ITS LOCATION;

B. THE PROXIMITY OF CIVILIAN POPULATION TO THE TARGET AREA. IF HOWITZERS ARE USED, ALSO STATE THE DISTANCE OF CIVILIAN POPULATION FROM THE LOCATION OF THE HOWITZERS;

C. THE SIZE OF EACH SUCH CIVILIAN POPULATION;

PRIORITY

D. THE TOTAL NUMBER OF RDS FIRED AND LIVE RDS FIRED FOR EACH YEAR FROM 1968 THROUGH THE CURRENT MONTH AT EACH SITE;

E. THE TYPES OF LIVE ORDNANCE USED;

F. FOR EACH YEAR 1968 THROUGH THE CURRENT MONTH THE TOTAL NUMBER OF LIVE ORDNANCE FIRED CONSISTING OF HOWITZER SHELLS, NGFS SHELLS, MISSILES AND BOMBS, STATED SEPARATELY.

93. STATE WHETHER U.S. NAVY, MARINE OR AIR FORCE AIRCRAFT EVER FLY OVER 90 MILES EACH WAY IN ORDER TO ENGAGE IN TARGET PRACTICE. IF SO STATE:

A. THE LOCATION OF EACH SUCH TARGET AND EACH PLACE FROM WHICH SUCH FLIGHTS COMMENCE; AND

B. THE ROUND-TRIP DISTANCE FLOWN BY SUCH AIRCRAFT IN ORDER TO UTILIZE SUCH TARGET.

148. STATE WHETHER MARINE AIR UNIT TRAINING WAS EVER CONDUCTED ON CULEBRA. IF SO, STATE THE DATE ON WHICH SUCH TRAINING ON CULBERA CEASED.

150. STATE FOR EACH YEAR FROM 1968 THROUGH THE CURRENT MONTH:

A. THE APPROXIMATE NUMBER OF TANKS AND OTHER HEAVY-TRACK VEHICLES USED ON VIEQUES;

BT

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ZNR UUUUU
P 122346Z SEP 78
FM CMC WASHINGTON DC
TO RUECLFA/CG FMFLANT
RUEBJNA/CG MCDEC QUANTICO VA
RUEDAIB/COMCABEAST CHERRY POINT NC
RUCLBRA/CG MCB CAMP LEJEUNE NC
INFO RUEBDOD/CG SECOND MARDIV
RUEDAIJ/CG SECOND MAW
BT
UNCLAS //N06100// FINAL SECTION OF 2

PRIORITY

SEP 13 02 21 78

B. THE APPROXIMATE NUMBER OF AMPHIBIOUS LANDING CRAFT USED ON VIEQUES;

C. THE APPROXIMATE NUMBER OF MILES TRAVELED BY TANKS AND OTHER HEAVY-TRACK VEHICLES ON VIEQUES DURING MILITARY OPERATIONS;

D. THE APPROXIMATE NUMBER OF TANKS AND OTHER HEAVY-TRACK VEHICLES THAT TRAVELED OVER BEACHES ON VIEQUES;

E. THE APPROXIMATE NUMBER OF MILITARY PERSONNEL INVOLVED IN MARINE FILED MANEUVERS ON VIEQUES.

154. DO YOU CONTEND THAT NO MILITARY TRAINING OPERATION OR ACTIVITY THAT WAS CONDUCTED ON CULEBRA PRIOR TO 1975 IS NOW CON-

PAGE 2 RUEACMC0933 UNCLAS //N06100//
DUCTED ON OR WAS OTHERWISE BEEN TRANSFERRED TO VIEQUES? IF SO, DESCRIBE IN DETAIL THE BASIS FOR YOUR ANSWER. PLEASE IDENTIFY AND SUBMIT ALL DOCUMENTS THAT YOU CONTEND CORROBORATE YOUR ANSWER.

156. STATE WHETHER ALL DOCUMENTS WITHIN DEFENDANTS' POSSISSION THAT WOULD REASONABLE INDICATE OR SUGGEST A TRANSFER OF MILITARY TRAINING OPERATIONS OR ACTIVITIES FROM CULEBRA TO VIEQUES HAVE BEEN PRODUCED FOR PLAINTIFFS' INSPECTION. IF NOT, PLEASE IDENTIFY AND SUBMIT ALL SUCH DOCUMENTS THAT HAVE NOT BEEN PRODUCED. UNQUOTE

5. EVEN THOUGH SOME OF THESE DOCUMENTS MAY BE LOCALLY HELD IN THE WASHINGTON AREA, REQUEST YOU PROVIDE ALL SPECIFIED DOCUMENTS IN ORDER TO INSURE THEIR AVAILABILITY IN ONE PACKAGE. THIS HEADQUARTERS WILL COORDINATE WITH NAVY TO INSURE APPROPRIATE SECURITY REQUIREMENTS FOR CLASSIFIED INFORMATION ARE COMPLIED WITH AND TO AVOID DUPLICATION OF EFFORT.

6. HQMC POC IS COL F. RINEY (OTTU), ATVN 224-2032.

BT
#0933

TOR:130221Z SEP 78 ACT:TRNG INFO:CBC

Facilities
SJA

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/WAN/th
6240

AUG 2 9 1978

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

Subj: Environmental Review; comments concerning

Ref: (a) CMC Trip Report, Environmental Review, MCB, CLNC

1. This Department's response to reference (a) is as follows:

a. Item 1. Sanitary Landfill. Concur. Maintenance personnel are aware of the situation and have undertaken appropriate liaison with state officials that ultimately will lead to submission of operational plans to the state for review/approval and issuance of a landfill permit.

b. Item 2. Sewage Treatment. Concur. The Camp Geiger plant in several recent instances failed to achieve full capability in treatment of wastewater. The Environmental Engineering Staff at LantDiv has this situation under review and will provide findings/recommendations to base.

c. Item 3. Waste/Wastewater Laboratory. Concur. Appropriate action has been taken.

d. Item 4. Sediment. Concur. Base has reviewed procedures and it is agreed that attention to this problem area should be emphasized at the Headquarters and LantDiv levels to insure consideration of erosion control is made in the early stages of design on construction projects that significantly alter the land surface. The Public Works Officer has specificially addressed this problem to Naval Facilities Engineering Command. Monitoring of this environmental area by the Environmental Staff will continue.

e. Item 5. Oil Pollution. Subparagraphs (a) and (b). Concur. Programmed MILCON projects will provide facilities that are designed to reduce oily waste discharges to levels acceptable by EPA. The existence of abatement facilities, however appropriately placed or designed, will not ensure the elimination of oily waste discharges that violate the Clean Water Act. BO 11090.1A assigns a definite responsibility to using units that if properly adhered to would greatly minimize the impact in this problem area. As using units and operators ultimately determine the success of pollution abatement through proper operations, the Maintenance Department will draft a bulletin that will reemphasize this responsibility. Additional follow through and education programs are considered to be user responsibilities. The Environmental Staff will continue routine monitoring of oil pollution problem areas.

DEPT MAINTENANCE DEPARTMENT
Albemarle Corps Base
Camp Lejeune, North Carolina 28542

MAINTENANCE
CDAO

AUG 30 1978

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

Subj: Environmental Review comments concerning

Ref: (a) CMC Trip Report, Environmental Review, MCB, CLNC

1. This Department's response to reference (a) is as follows:

a. Item 1. Sanitary Landfill. Concur. Maintenance personnel are aware of the situation and have undertaken appropriate liaison with state officials that ultimately will lead to submission of appropriate plans to the state for review/approval and issuance of a landfill permit.

b. Item 2. Sewage Treatment. Concur. The Camp Geiger plant in several recent instances failed to achieve full capability in treatment of wastewater. The Environmental Engineering Shop at Facility 44 has this situation under review and will provide findings/recommendations to Base.

c. Item 3. Base Wastewater Laboratory. Concur. Appropriate action has been taken.

d. Item 4. Sediment. Concur. Base has reviewed procedures and this agreed that attention to this problem area should be emphasized at the headquarters and facility levels to insure consideration of erosion control is made in the early stages of design on construction projects that significantly alter the land surface. The Public Works Officer has specifically addressed this problem to Naval Facilities Engineering Command. Monitoring of this environmental area by the Environmental Staff will continue.

e. Item 5. Oil Pollution. Subparagraphs (a) and (b). Concur. Programmed MILCON projects will provide facilities that are designed to reduce oily waste discharges to levels acceptable by EPA. The existence of a number of utilities, however, inappropriately placed or designed, will not ensure the elimination of oily waste discharges that violate the Clean Water Act. 20 USC 1251 assigns a definite responsibility to using units that if properly adhered to would greatly minimize the impact in this problem area. Assuring units and operators ultimately determine the success of pollution abatement through proper operations. The Maintenance Department will draft a bulletin that will reemphasize this responsibility. Additional follow through and education programs are considered to be user responsibilities. The Environmental Staff will continue routine monitoring of oil pollution problem areas.

The Environmental Staff will compile a list of organizational units that have been the most persistent violators in this area and propose a letter for CG signature emphasizing operator-using unit responsibility. Using units will be directed to procure absorbent and other cleanup materials for placement at the unit level as an incentive for a clean operation.

The statement that "Base clearly had major oil pollution problems" seemingly needs amplification. Base does have oil pollution problems that may be described as major in terms of facilities abatement measures and the widespread nature of miscellaneous pollution sources. Base does not have a "major" oil pollution problem in terms of one specific spill site and its immediate impact on one specific locale.

f. Item 5. Oil Pollution. Subparagraph (c). Concur.

g. Item 5. Oil Pollution. Subparagraph (d). Concur. The Environmental Staff will review waste oil handling procedures for identification and correction of deficiencies that may exist.

h. Item 6. Organization. Subparagraph (a). The Natural Resources and Environmental Affairs Office is considered properly located for many reasons, only one being that the Base Maintenance Officer is a Colonel. The more important reasons for the organizational location of the Natural Resources and Environmental Affairs Office are:

(1) Interrelationship with other functions in the Department; i.e., grounds maintenance, utilities operations, sanitary landfill operations, etc.

(2) Direct support from Base Maintenance shops such as Heavy Equipment in reforestation work, maintenance of forest access roads, firefighting, etc.

(3) Relocation would increase the manpower requirements at the Assistant Chief of Staff, Facilities level with no concurrent reduction in the Natural Resources and Environmental Affairs Division at Base Maintenance, i.e., layering.

(4) Most importantly, is the fact that the organization has functioned extremely well in its present location, as evidenced by past accomplishment.

i. Item 6. Staffing of Environmental Affairs. Subparagraph (b). Concur. Present staffing in the Environmental Branch of this Division is inadequate to support the function. Examples of additional functions include amendments to the Clean Water Act, the addition of the Safe Drinking Water Act, the Solid Waste Management Act and recent amendments to the Clean Air Act coupled with increased emphasis on oily waste abatement,

The Environmental Staff will compile a list of organizational units that have been the most persistent violators in this area and propose an interservice signature endorsing operation using unit responsibility. Using units will be directed to produce absorbent and other cleaning materials for placement at the unit level as an incentive for a clean condition.

It is stringent that these only deal major oil pollution problems specifically needs mitigation. These does have oil pollution problems that may be described as major in terms of facilities abatement measures and the widespread nature of miscellaneous pollution sources. These does not have a "major" oil pollution problem in terms of one specific site and its immediate impact on one specific locale.

Item 5. Oil Pollution. Subparagraph (4). Concur.

Item 5. Oil Pollution. Subparagraph (5). Concur. The Environmental Staff will review waste oil handling procedures for identification and correction of deficiencies that may exist.

Item 6. Organization. Subparagraph (a). The Natural Resources and Environmental Affairs Office is considered properly located for many reasons, only one being that the Base Maintenance Officer is a colonel. The more important reasons for the organizational location of the Natural Resources and Environmental Affairs Office are:

(1) Interdisciplinary with other functions in the Department i.e., grounds maintenance, utilities operations, sanitary landfill operations, etc.

(2) Direct support from Base Maintenance shops such as heavy equipment, interpretation work, maintenance of local access roads, flightline, etc.

(3) Relocation would increase the manpower requirements at the Assistant Chief of Staff, Facilities level with no concurrent reduction in the Natural Resources and Environmental Affairs Division at Base Maintenance i.e., layering.

(4) But importantly, is the fact that the organization is functioning extremely well in its present location, as evidenced by past accomplishments.

Item 6. Staffing of Environmental Affairs. Subparagraph (1). Concur. Present staffing in the Environmental Branch of this Division is inadequate to support the function. Examples of additional functions include amendments to the Clean Water Act, the addition of the Safe Drinking Water Act, the Solid Waste Management Act and recent amendments to the Clean Air Act coupled with increased emphasis on oily waste abatement.

contingency and associated reporting procedures. Additionally, most of the above mentioned environmental requirements have already been turned over to the state for procedural and administrative control. The necessary liaison for obtaining permits, variances, etc. and other reporting procedures is increasing. This aspect of the environmental function alone is almost a full-time function. A manpower review will confirm the above.

j. Item 6. Solid Waste Management. Subparagraph (c). Concur. The Clean Community System Coordinator was established at the Assistant Chief of Staff, Facilities level because the former CG wanted to develop programs similar to those at the city and county government levels. The close association with Headquarters was believed to represent a command emphasis on this new environmental endeavor.

It is suggested that location of this function within the Natural Resources and Environmental Affairs Division will provide an increased means of accomplishment of the intended use of this billet and can provide for a more effective billet utilization while reducing current environmental workloads. The relocation of the billet should result in continuous supervision and coordination by personnel experienced in similar environmental endeavors and result in a more complete utilization of the billet through assignment of additional duties in the area of pollution abatement and resource recovery.

k. Item 7. Polychlorinated Biphenyls. Concur. Deadline has been met.

B. W. ELSTON
Acting

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

IN REPLY REFER TO

LFF-2:JMK/jn

27 JUL 1978

From: Commandant of the Marine Corps
To: Commanding General, Fleet Marine Force Atlantic, U.S. Naval Base, Norfolk, Virginia 23511

Subj: Environmental Review, Marine Corps Base, Camp Lejeune

Encl: (1) Trip Report, Environmental Review, MCB Camp Lejeune
(2) Trip Report, Environmental Review, MCAS(H), New River
(3) Trip Report, Environmental Review, MCAS, Cherry Point
(4) Trip Report, Environmental Review, MCALF, Bogue

1. During the period 22-26 May 1978, a representative of this Headquarters conducted a review of the environmental programs at Marine Corps Base (MCB) Camp Lejeune, Marine Corps Air Station (Helicopter) New River, Marine Corps Air Station, Cherry Point including Marine Corps Auxiliary Landing Field, Bogue.

2. This Headquarters is forwarding a copy of the subsequent trip reports to respective activities for review and possible corrective action.

3. Since many of the environmental matters discussed involve operational as well as facility implications, this Headquarters provides a copy of the trip reports as enclosures (1) through (4), for your information and coordination of any necessary actions with the host commands.

E. C. CHEATHAM, JR.
By direction

Copy to:
CG MCB, Camp Lejeune (w/o encl)
CO MCAS(H), New River
CG MCAS, Cherry Point
CG 3rd MAW
COMCABEAST

ENVIRONMENTAL REVIEW

MCAS (H), NEW RIVER, N. C.

24 MAY 1978

J. M. KEARNS, JR., ENVIRONMENTAL ENGINEER, HQMC

I contacted the following personnel:

Major ANGLE	Station Facilities Officer
CWO C. S. ROLLE	Station Fuel Officer

Matters discussed and/or field inspections performed are summarized as follows:

1. OIL POLLUTION

a. The Station has had a number of accidental oil spills which have been reported via Marine Corps Base Camp Lejeune.

b. During a tour of the Station Fuel Farm, I saw evidence of:

(1) recently installed facilities without spill prevention provisions,

(2) soil/vegetation previously destroyed by spills not replaced,

(3) a recent spill that had not been reported, and

(4) possible soil contamination just outside the fuel farm fence along rail line.

c. OIL/WATER SEPARATOR at the rapid refuel facility appeared to be overloaded and/or in need of cleaning.

RECOMMENDATION: Station work with Marine Corps Base, Camp Lejeune to:

1. reduce number of accidental spills through operational changes,

2. restore soil/vegetation destroyed by spills,

3. investigate possible contamination along rail line,

4. ensure oil/water separators are maintained.

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

IN REPLY REFER TO
LFF-2-JMK:jn
27 JUL 1978

From: Commandant of the Marine Corps
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542

Subj: Environmental Review

Encl: (1) Trip Report, Environmental Review, Marine Corps Base, Camp Lejeune
(2) Trip Report, Environmental Review, Marine Corps Air Station (Helicopter), New River

1. During the period of 22-24 May 1978, a representative of this Headquarters conducted a review of the environmental program at Marine Corps Base, Camp Lejeune and Marine Corps Air Station (Helicopter), New River.

2. This Headquarters forwards the subsequent trip report as enclosures (1) and (2), for your information and review for possible corrective action.

3. The assistance provided by your command in the conduct of the review is appreciated.

E. C. CHEATHAM, JR.
By direction

ENVIRONMENTAL REVIEW

MCB, CAMP LEJEUNE, N. C.

22-24 MAY 1978

J. M. KEARNS, JR., ENVIRONMENTAL ENGINEER, HQMC

I contacted the following personnel:

Col. J. KOVAC	AC/S of Facilities
Col. D. WOOD	Maintenance Officer (by telecon only)
LTCOL BAISLEY	Assistant to Assistant Chief of Staff of Facilities
Mr. Al AUSTIN	Construction Program Coordinator
Mr. Wendell NEAL	Nat. Resources and Environ. Affaiirs Off.
Mr. Julian WOOTEN	Base Ecologist
Mr. Billy ELSTON	Assistant Maintenance Officer
Mr. Wallace EAKES	Chemist
Capt. TWEED	Base Procurement Officer

Matters discussed and/or field inspections performed are summarized as follows:

1. SANITARY LANDFILL: The landfill was active at the time of on-site visit. Some litter was blowing near the operation, but had not accumulated. Some water was visible in open cell, could have been ground water or surface runoff from rain. Camp Lejeune is applying to state for permit. State will advise concerning acceptability. May be some problem with high water table.

RECOMMENDATION: None at this time pending review and inspection by state officials.

2. SEWAGE TREATMENT: On-site visit to Court House Bay plant did not reveal any unusual conditions. Base had normally met NPDES permit limitations except for Camp Geiger plant which apparently is affected by an industrial waste discharge to the plant from the air station aircraft washing operations. The Base has requested NAVFAC assistance.

RECOMMENDATION: Base should identify necessary corrective actions for Camp Geiger plant as soon as possible.

ENCLOSURE (1)

3. Waste/Wastewater Laboratory: Base has recently occupied excess Navy space and was installing atomic absorption and total carbon analyzer equipment. Laboratory appeared to need improved ventilation and air conditioning to remove toxic vapors from lab tests and to provide suitable humidity/temperature control for sensitive equipment.

RECOMMENDATION: Base should also ensure that fire/safety requirements are met and ensure that humidity/temperature control is satisfactory.

4. SEDIMENT: Sediment from new facility construction and some operational areas was visible and may violate state regulations.

RECOMMENDATION: Headquarters Marine Corps should specifically include sediment control as a possible pollution source. Base should review procedures to ensure that adequate sediment control is provided in accordance with state regulations.

5. OIL POLLUTION: On-site visit to various locations revealed extensive violations of oil pollution regulations as described below:

a. Amtrac Maintenance Facility. is located 50 feet from Court House Bay. Waste oil tank was full. Tubs of oil were around waste oil tank. Soil was saturated with oil.

Amtracs were being maintained on concrete apron. Various petroleum products were clearly visible flowing from maintenance work toward Bay.

b. Tank Maintenance Facility. Petroleum products visible in effluent from tank washing leading toward creek which had evidence of oil on shores. Oil/water separator had been partially disabled. Waste oil tank was full and oil had contaminated soil.

RECOMMENDATION:

Base clearly had major oil pollution problems. Currently, programmed MILCON projects totaling $10,000,000 will go a long way to help. However, it was apparent that:

1. Some operational changes should be attempted to reduce pollution until projects are completed.

2. Even with new facilities, operators will need to show greatly increased concern for pollution prevention. An educational program must be instituted for those involved.

3. New arrangements for waste oil tank collection must be instituted.

4. Expendable clean-up materials should be provided to operators for clean-up work and indirectly as an incentive not to spill.

c. Oil Spills.

(1) The Base directly and indirectly through the Marine Corps Air Station (H), New River, has had a number of accidental oil spills. The Base has satisfactorily reported these spills to Headquarters Marine Corps, Environmental Protection Agency, and the Coast Guard.

RECOMMENDATION: Base should continue to ensure prompt identification, reporting, and clean-up of accidental oil spills.

(2) At the request of Mr. TATE, Deputy Counsel for the Commandant of the Marine Corps, I discussed inclusion of spill clean-up and reporting in a family housing fuel delivery contract. The Procurement Office objected to requiring the contractor to report to the Base Fire Department all spills, even "two drips". I had no objection to incorporating the wording of a Draft spill prevention plan, allowing a one gallon preporting cutoff, provided the EPA approved the plan.

RECOMMENDATION: Subsequent to my visit, EPA apparently rejected the one gallon cutoff. As passed to the Procurement Officer by Mr. TATE, on 1 June 1978, I recommended that the Base require the contractor to report all spills. As a practical matter, the contractor will only report those spills he thinks will be visible and/or he cannot clean-up quickly.

d. Waste Oil Handling. Base has a number of oil tanks for receipt of waste oils. I noted that some of these tanks were full with additional oil improperly stored in the vicinity and with nearby soil comtaminated with the excess oil Base also has a number of oil/water separators. Some of these separators apparently are not functioning properly due to a number of reasons including possible deterioration from age, user abuse, or lack of maintenance. Many of these separators will be replaced in upcoming military construction projects.

RECOMMENDATION: Base should ensure coordination of user requirements and maintenance capabilities to provide adequate waste oil handling. Base should also ensure that oil/water separators are used and maintained to obtain maximum benefit from these facilities.

6. ORGANIZATION:

a. Location of Natural Resources and Environmental Affairs Office. I discussed with the Director of Facilities, the Assistant Maintenance Officer, and subsequently with the Maintenance Officer, the fact that the Natural Resource and Environmental Affairs Office (NREAO) is assigned to the Maintenance Office rather than the Director of Facilities as recommended in MCO P11000.7A and MCO P11000.8A. Location of the facilities' level is intended to provide the NREAO with a broad responsibility for, and visibility of, environmental problems and aspects of Base operations as well as to avoid any conflict between the NREAO which reviews operation of such facilities as water and sewage treatment facilities and the Maintenance Office which operates those facilities.

The Base prefers the present organization and believes that the fact that the Maintenance Officer billet is a full Colonel provides thenecessary support to the NREAO.

RECOMMENDATION: As discussed with the Director of Facilities, Base should monitor future operation of NREAO and, if necessary, and/or prudent, consider assignment of NREAO to Director of Facilities.

b. Staffing of Environmental Affairs with NREAO. Recent environmental laws and regulations have added a considerable workload to the Base Ecologist. Requirements of implementation of Clean Water Acts, Clean Air Act, Safe Drinking Water Act, including state procedural requirements has detracted from the ability of the ecologist to implement and monitor environmental programs. The large size of Camp Lejeune, necessitating extensive travel between camps, contributes to the situation. Based on my limited review, I believe a Manpower review would confirm the above.

RECOMMENDATION: Base should review environmental workload and consider providing assistance to the ecologist.

c. Solid Waste Management. A Clean Community System Coordinator has been established at the Director of Facilities level. Although all the responsibilities of this new billet may not be fully identified at this point, this billet apparently will be involved in resource recovery/solid waste efforts.

RECOMMENDATION: Base should consider consolidating the above billet into the NREAO for overall coordination of this environmentally related effort.

7. Polychlorinated Biphenyls (PCBs). Base had received recent message bulletin on identification of PCBs and had completed part of the initial inventory. Medical Office would also be involved.

RECOMMNEDATION: NREAO monitor/coordinate Base Effort in order to meet July 1978 inventory deadline.

1978

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	OWC
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF		✓	
SECRETARY			
F&A BRANCH			
UMACS			
MME			

FAC ROUTING

	ACTION	DATE	INIT
FAO			
AA			Jm
AB			
AC			
AD			
AE			
AF			

Send to Base Maint!

UNITED STATES MARINE CORPS
HEADQUARTERS
FLEET MARINE FORCE ATLANTIC
NORFOLK, VIRGINIA 23511

15/RES/jcf
3144

10 AUG 1978

From: Commanding General
To: Commanding General, Second Marine Division, Fleet Marine Force, Atlantic, Camp Lejeune, North Carolina 28542
Commanding General, Second Marine Aircraft Wing, Fleet Marine Force, Atlantic, Marine Corps Air Station, Cherry Point, N.C. 28533
Commanding General, Second FSSG, Fleet Marine Force, Atlantic, Camp Lejeune, North Carolina 28542

Subj: Environmental Review

Ref: (a) Force Order 11000.1

Encl: (1) CMC ltr LFF-2:JMK/jn dtd 27 Jul 78

1. Enclosure (1) is forwarded for information.

2. It is recommended that those environmental matters identified in the enclosure, which involve operational units be reviewed and corrective actions be coordinated with the host activity.

3. Continual protection of the environment in accordance with reference (a) is requested.

R. M. MARES
By direction

Copy to: (w/o encl)
CMC (Code LFF) (w/o encl)
CG, MCB CLNC (w/o encl)
COMCABEAST

7/27/78

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	BWR
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF	✓		
SECRETARY			
F&A BRANCH			
UMACS			
MME			

NKEA,
Coordinate w/ Util & Opns. Ask for more time if we need.
BWR

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/WAN/nah
6240
1 Aug 1978

From: Base Maintenance Officer
To: Public Works Officer (Attn: Code 43-280)

Subj: FY 1980 MCON Project P-996; comments concerning

Ref: (a) PWO ltr PWO:CWB:sh P-996 of 26 Jul 78
(b) Liaison this Dept and CMC (Code LFF-2) on 31 Jul 78

1. In response to reference (a), there is one area of concern as discussed in reference (b) that will be the subject of a forthcoming letter from CMC (Code LFF-2). The Preliminary Engineering Report, Industrial Pollution Abatement, indicates an intent for treating pollution (mostly oily waste) at more than 90 sites consisting of grease racks, wash racks and steam cleaning areas. Some of these facilities are in close proximity and therefore candidates for some consolidated form of treatment. This Department prefers consolidation of treatment particularly in view of past experiences with operation and maintenance of oil/water separation devices.

B. W. ELSTON

Copy to:
AC/S Fac

PUBLIC WORKS DEPARTMENT
Building 1005, Marine Corps Base
Camp Lejeune, North Carolina 28542

In reply refer to

PWO:CWB:sh
P-996
26 JUL 1978

From: Public Works Officer
To: Base Maintenance Officer

Subj: FY 1980 MCON Project P-996, Industrial Waste Collection and Treatment Facilities; Project Engineering Documentation (PED) for

Encl: (1) Subject PED

1. Enclosure (1) is forwarded for your review and comments.

2. It is requested that comments be provided directly to the Public Works Officer (Attn: Code 43-280). If no comments are submitted by August 7, 1978, concurrence will be assumed.

R. H. Kerley

R. H. KERLEY, P. E.
By direction

DEPARTMENT OF THE NAVY
PROJECT ENGINEERING DOCUMENTATION

FOR OFFICIAL USE ONLY
1 JULY, 1978

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES (P-996)

FY 1980 MCON

MARINE CORPS BASE, CAMP LEJEUNE
JACKSONVILLE, NORTH CAROLINA

PREPARED BY:

AUSTIN BROCKENBROUGH & ASSOCIATES
CONSULTING ENGINEERS
RICHMOND, VIRGINIA
CONTRACT NO. N 62470-78-B-3839

ADMINISTERED BY:

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

MILITARY CONSTRUCTION PROJECT DATA

1. DATE	1 July 1978
2. FISCAL YEAR	1980
3. DEPARTMENT	NAVY
4. INSTALLATION	MARINE CORPS BASE, CAMP LEJEUNE
5. PROPOSED AUTHORIZATION	$ 9,000,000
6. PRIOR AUTHORIZATION	P.L.
7. CATEGORY CODE NUMBER	832-40
8. PROGRAM ELEMENT NUMBER	
9. STATE/COUNTRY	JACKSONVILLE, NORTH CAROLINA
10. PROPOSED APPROPRIATION	$ 9,000,000
11. BUDGET ACCOUNT NUMBER	
12. PROJECT NUMBER	P-996
13. PROJECT TITLE	INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES
NH	
CM	X
RM	

SECTION A - DESCRIPTION OF PROJECT

14. TYPE OF CONSTRUCTION	
a. PERMANENT	X
b. SEMI-PERMANENT	
c. TEMPORARY	
15. TYPE OF WORK	
a. NEW FACILITY	X
b. ADDITION	X
c. ALTERATION	X
d. CONVERSION	
e. OTHER (Specify) Pollution Abatement	
16. REPLACEMENT	X
17. TYPE OF DESIGN	
a. STANDARD DESIGN	
b. SPECIAL DESIGN	X
c. DRAWING NO.	

18. PHYSICAL CHARACTERISTICS OF PRIMARY FACILITY

a. NO. OF BLDGS | b. NO. OF STORIES | c. LENGTH | d. WIDTH

e. DESIGN CAPACITY | f. GROSS AREA

g. COOLING CAP. COST ($)

19. DESCRIPTION OF WORK TO BE DONE

Construction of collection and treatment facilities and modification of existing treatment system for industrial wastewater generated by industrial operations, vehicular and aircraft maintenance areas, fuel storage and distribution locations, boiler plants, swimming pools, cooling towers, water treatment plants and other locations where potential discharges of petroleum products to surface waters may occur.

CONTIGENCY 10% | ESCALATION 11%

SECTION B - COST ESTIMATES

20. PRIMARY FACILITY	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES			$	$9,031
a. Hadnot Point	SYS	(59)	59,355	(3,502)
b. Air Station	SYS	(18)	111,167	(2,001)
c. Amphibian Troops	SYS	(6)	144,500	(867)
d. Space Heaters - All Areas	SYS	(1561)	240	(375)
21. SUPPORTING FACILITIES				$
a. Rifle Range	SYS	6	63,333	(380)
b. Camp Geiger	SYS	7	47,714	(334)
c. Montford Point	SYS	10	33,300	(333)
d. French Creek	SYS	4	65,000	(260)
e. Midway	SYS	11	22,727	(250)
f. Tarawa Terrace	SYS	10	24,400	(244)
g. Beach	SYS	6	33,000	(198)
h. Courthouse Bay	SYS	12	14,167	(170)
i. Paradise Point	SYS	8	13,750	(110)
j. Berkeley Manor	SYS	2	3,500	(7)
22. TOTAL PROJECT COST				$9,031
			ROUNDED	$9,000

ESCLATION FY78 - 8% FY79 - 7%; FY80 - 6.5%

Bid January 1, 1980

SECTION C - BASIS OF REQUIREMENT

23. QUANTITATIVE DATA (U/M N.A.)

a. TOTAL REQUIREMENT		
b. EXISTING SUBSTANDARD	( )	
c. EXISTING ADEQUATE		
d. FUNDED, NOT IN INVENTORY		
e. ADEQUATE ASSETS (c + d)		
	AUTHORIZED	FUNDED
f. UNFUNDED PRIOR AUTHORIZATION		
g. INCLUDED IN FY ____ PROGRAM		
h. DEFICIENCY (a - e - f - g)		

24. RELATED PROJECTS

25. REQUIREMENT FOR PROJECT

MISSION AND PROJECT: Provide facilities, logistical support and administrative support for tenant Fleet Marine Force and other commands assigned. This project will provide facilities to collect and treat sources of oil and industrial pollution generated by all tenants.

REQUIREMENTS: To provide collection and treatment facilities for oil and untreated industrial wastes to conform to the limitations of pollutants established by the National Pollutant Dischange Elimination System (NPDES) Permit.

CURRENT SITUATIONS: Industrial waste waters are polluting public waters without collection or treatment in violation of the NPDES permit. EPA has publically criticized the Base for failure to eliminate this pollution.

IMPACT IS NOT PROVIDED: Base will continue to violate the limitations of the NPDES permit and the Federal Water Pollution Control Act.

U.S. Government Printing Office: 1974—603-610/2215 3-1

1. DATE	2. FISCAL YEAR	MILITARY CONSTRUCTION PROJECT DATA (Continued)	3. DEPARTMENT	4. INSTALLATION
1 July 1978	1980		NAVY	MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, N.C.

8. PROJECT NUMBER	9. PROJECT TITLE
P-996	INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

POLLUTION PREVENTION ABATEMENT AND CONTROL:

The existing conditions are in violation of Federal Water Pollution Control Act and NPDES Permit No. NC 0003239. This project will provide the necessary corrective measures to meet the established control standards quoted in the NPDES permit of 10 mg/l daily average and 15 mg/l daily maximum for oil and grease concentrations.

ENVIRONMENTAL IMPACT:

The project Environmental Impact Assessment / Candidate Environmental Impact Statement was not available for review.

PRESERVATION OF HISTORICAL SITES AND STRUCTURES:

The project facilities do not directly or indirectly affect a district, site, building, structure, object or setting which is listed in the National Register or otherwise possesses a significant quality of American history.

FALLOUT SHELTER CONSTRUCTION:

Fallout shelter excluded. Project not susceptible for shelter incorporation.

FLOOD HAZARDS EVALUATION:

Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL:

Provisions for physically handicapped personnel are not required in these facilities.

DESIGN CONCEPTS

Activity and Location: MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, N.C.

Project Title: INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES (P-996)

Date: 1 July 1978

USE OF DEFINITIVES AND PREVIOUS DESIGNS:

Facilities included in this project are non-repetitive type structures or utilities.

SPECIAL DESIGN CHARACTERISTICS:

This project provides collection and treatment facilities to separate or treat petroleum products and other industrial wastes from storm or potable water systems that discharge into public waters. The following special design concepts shall be incorporated:

(1) Storm water runoff shall be based on 10-year frequency for all collection systems.
(2) Aircraft and vehicle maintenance areas with a potential for spillage of petroleum products shall be contained by paving, dikes, or curbing. Rainfall runoff shall be directed through a collection system that will have sufficient capacity to treat the first 15 minutes of storm runoff with the remaining runoff discharged to the receiving waters without further treatment.
(3) Fuel storage areas shall be provided with high level alarms on each tank to provide audible and visual alarm indications at fuel transfer or loading stations.
(4) Individual fuel storage tanks shall be diked and local tank level indicators shall be installed to prevent overfilling.
(5) Filter backwash discharges from water treatment plants shall be collected and treated prior to discharge or shall be recycled to the treatment plant.
(6) All of the small unit space heaters located throughout Camp Lejeune shall be directly connected to the exterior fuel tanks to eliminate the numerous fuel spills which presently occur during the manual filling operations.

ENERGY CONSERVATION AND SOLAR ENERGY:

Energy utilization by this project is minimal because gravity collection and separating equipment have been provided. Energy savings are not calculable, however, oil removed by separation equipment will be collected for resale with other waste oil products generated throughout the Base. Likewise, solar energy applications are not feasible.

POLLUTION ABATEMENT ASPECTS OF DESIGN:

This is a pollution abatement project specifically designed to eliminate the discharge of oily waste products or other industrial wastes into surface waters. Industrial wastes are collected separately for transporting and treating at a separate waste treatment facility at another Marine Corps facility. Other wastes are separated, collected, or pumped into the sanitary waste treatment system for final treatment. Separated petroleum products are to be collected and sold for reuse or reclamation by private enterprise.

SITE APPROVAL:

Installations required for this project are generally buried utilities or equipment installed at ground level adjacent to existing buildings. All installations do not change the building operations nor create explosive, hazards, electromagnetic hazards, or air safety hazards. Specific site approvals will be initiated prior to the commencement of the design in accordance with applicable regulations.

ECONOMIC ANALYSIS:

The collection systems permit the use of materials recognized and accepted for industrial and storm runoff waters. The final selection of pipe materials will be determined by the competitive bidding process and the successful low qualified bidder.

Design alternatives were prepared for methods to collect and treat wastes produced by the potable water treatment p The alternatives included recycle of water or discharge into the sanitary system.

SPECIAL ENGINEERING SERVICES:

Soil borings shall be made prior to the final design to determine if special foundations are required. Percolation tests shall be made to determine ultimate drainfield requirements. Field surveying of each specific site shall be conducted to establish control data and reference to known datum elevations.

CONTINGENCY ALLOWANCE:

A 10 percent contingency allowance has been included because the construction is non-repetitive, includes rehabilitation or modification of existing utilities, and includes a wide range of construction sites with varying conditions which may be encountered in underground work.

STATE AND LOCAL GOVERNMENT-INTER COOPERATION WITH:

This project will improve the Marine Corps Base ability to comply with the requirements of the NPDES permit, and shall be in accordance with Environmental Impact Assessment, the Environmental Protection Agency, and the State of North Caroline Department of Natural and Economic Resources, Division of Environmental Management.

PROGRAM COST ESTIMATES
ECONOMIC ANALYSIS OF SHORE FACILITY
NAVFAC 11010/18 (1-73)

DATE: 1 July 1978

1. ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, N.C.

2. PROJECT TITLE
INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P NO. P-996

3. DESCRIPTION OF ALTERNATIVES
There are two methods of handling the backwash and sludge discharge from water treatment plants.
(1) Lagoon wastewater plan for settling and recycle of clear water to treatment plant.
(2) Discharge all waste discharges to sanitary sewerage system

4. PROJECT COST PROJECTIONS BY ALTERNATIVES
Inflation Rates: Elec. 6%/YR: Maint. 2%/YR: 10% Discount

ALTERNATIVE A Lagoon and Recycle - Bldg. 670 — ECONOMIC LIFE 25 YRS.

DESCRIPTION AND YEAR	COSTS ($) ONE TIME	COSTS ($) RECURRING	DISCOUNT FACTOR	PRESENT VALUE ($)
INVESTMENT	271,000	--	--	271,000
OPERATIONS Elec.	--	350.00	16.303	5,706
MAINTENANCE	--	4,590.00	11.238	51,580
PERSONNEL				
TERMINAL VALUE				
OTHER:				

TOTAL PRESENT VALUE ALTERNATIVE A - $ 328,286 ÷ 9.524

ALTERNATIVE B Discharge to Sanitary System - Bldg 670 — ECONOMIC LIFE 25 YRS.

DESCRIPTION AND YEAR	COSTS ($) ONE TIME	COSTS ($) RECURRING	DISCOUNT FACTOR	PRESENT VALUE ($)
INVESTMENT	85,000	--	--	85,000
OPERATIONS Elec.	--	350.00	16.303	5,706
MAINTENANCE	--	3,150.00	11.238	35,400
PERSONNEL				
TERMINAL VALUE				
OTHER:				

TOTAL PRESENT VALUE ALTERNATIVE B - $ 126,106 ÷ 9.524

5. UNIFORM ANNUAL COST

ALTERNATIVE A $ 34,469

ALTERNATIVE B $ 13,241

6. REMARKS
The best alternative for other water treatment plants was chosen on factors other than cost. The lack of sufficient excess capacity in the sewerage system dictated the selection of the lagoon/recycle option in some cases. Likewise, space limitation and other functional requirements precluded the use of the lagoon/recycle system at some other water treatment plants.

(Attach separate sheet showing derivation of cost entries)

D-12861

COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting)
SND LANTDIV 4-11010/6 (9/73)

DATE 1 July 1978

1 ACTIVITY (Name and Location)
MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, N.C.

2 PROJECT TITLE
INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P. NO. P-996

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	NO COLLATERAL EQUIPMENT REQUIRED				

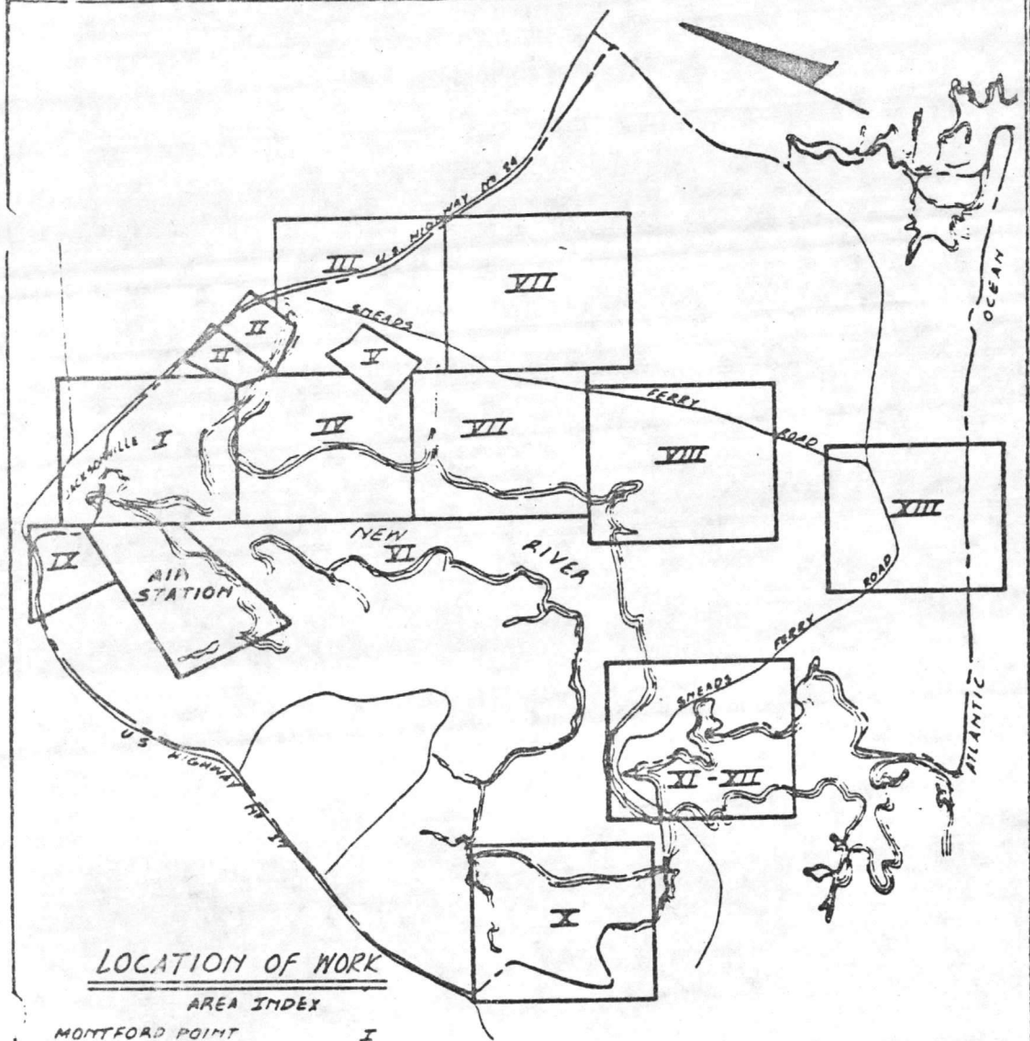
NAVFAC 11010/13 (Rev. 10-75).

MILITARY CONSTRUCTION PROJECT WITNESS DATA

FY PROGRAM: 1980

INSTALLATION	PROJECT TITLE		
MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, NC	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	P- 996	JULY 1978

A&E/OF	PLANS AND SPECIFICATIONS			CONST	REMARKS
NAME AND LOCATION	Austin Brockenbrough & Associates 114 E. Cary Street Richmond, Virginia 23219			AWARD DATE: JAN 1980 MONTHS: 18	
DATES	AWARD: JUNE 78	30% COMPLETION: DEC 78	100% COMPLETION: JULY 1979	BOD: JULY 1981	



LOCATION OF WORK

AREA INDEX

MONTFORD POINT	I
TARAWA TERRACE 1-2	II
MIDWAY PARK	III
PARADISE POINT	IV
BERKELEY MANOR	V
NAVAL HOSPITAL	VI
HADNOT POINT	VII
FRENCH CREEK	VIII
GEIGER	IX
RIFLE RANGE	X
AMPHIBIAN TROOPS	XI-XII (COURTHOUSE BAY)
BEACH	XIII
AIR STATION	

0 8,000 16,000 24,000

SCALE: 1" = 16,000'

COMPARATIVE COST DATA

H OR L	AREA FACTOR	UNIT COST ($)
UNIT COST FOR THIS PROJECT ON DD 1391		
DOD COST REVIEW GUIDE (ADJUSTED)		
OTHER PROJECTS IN THIS PROGRAM (ADJUSTED)		

ENGINEERING DATA

DD 1391 COST PROJECTION DATA

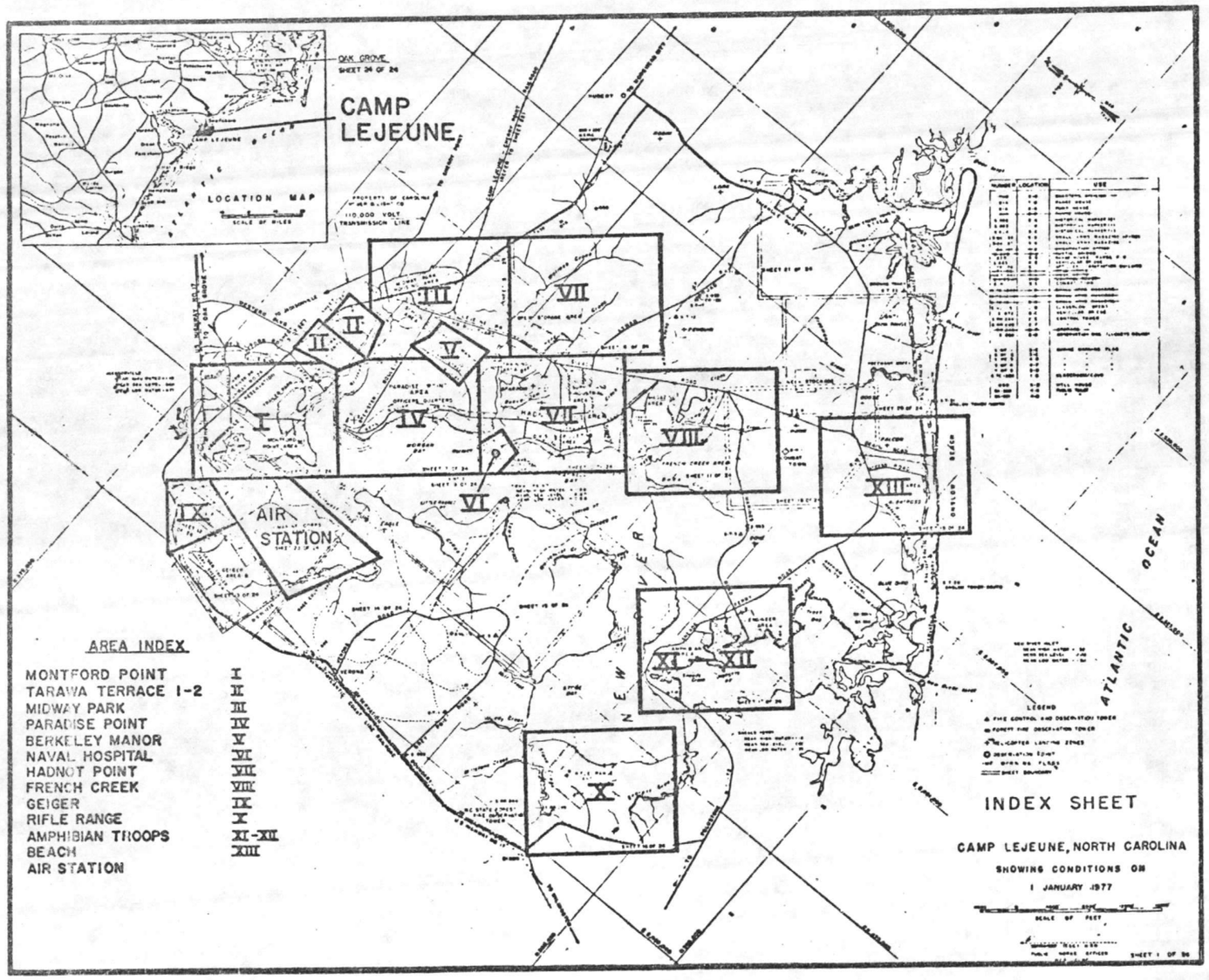
INCREASE-TOTAL	PROJECTION DATES (From-To)
11 %	JUNE 78 TO JAN 80
INCREASE/MONTH	**INDEX SOURCE**
0.6 %	NAVFAC

SITE CONDITION, SPECIAL DESIGN CONSIDERATIONS, TECHNICAL PROBLEMS, ETC. OTHER THAN SHOWN ON DD 1391

PRIOR DENIAL OF PROJECT

COMMITTEE	FISCAL YEAR	SCOPE	COST ESTIMATE

BUILT-IN EQUIPMENT; FEC DATA; SPECIAL OVERSEAS OVERHEAD COSTS; EXPLANATION OF DEMOLITION: COST AND FY FOR ALL INCREMENTS; COLLATERAL EQUIPMENT (FOR HOSPITALS, COMMISSARIES, AND EXCHANGES ONLY)



LEGEND

VII — D

ROMAN NUMERAL REPRESENTS GENERAL AREA LOCATION WITHIN CAMP LEJEUNE (HADNOT POINT, MIDWAY, ETC.)

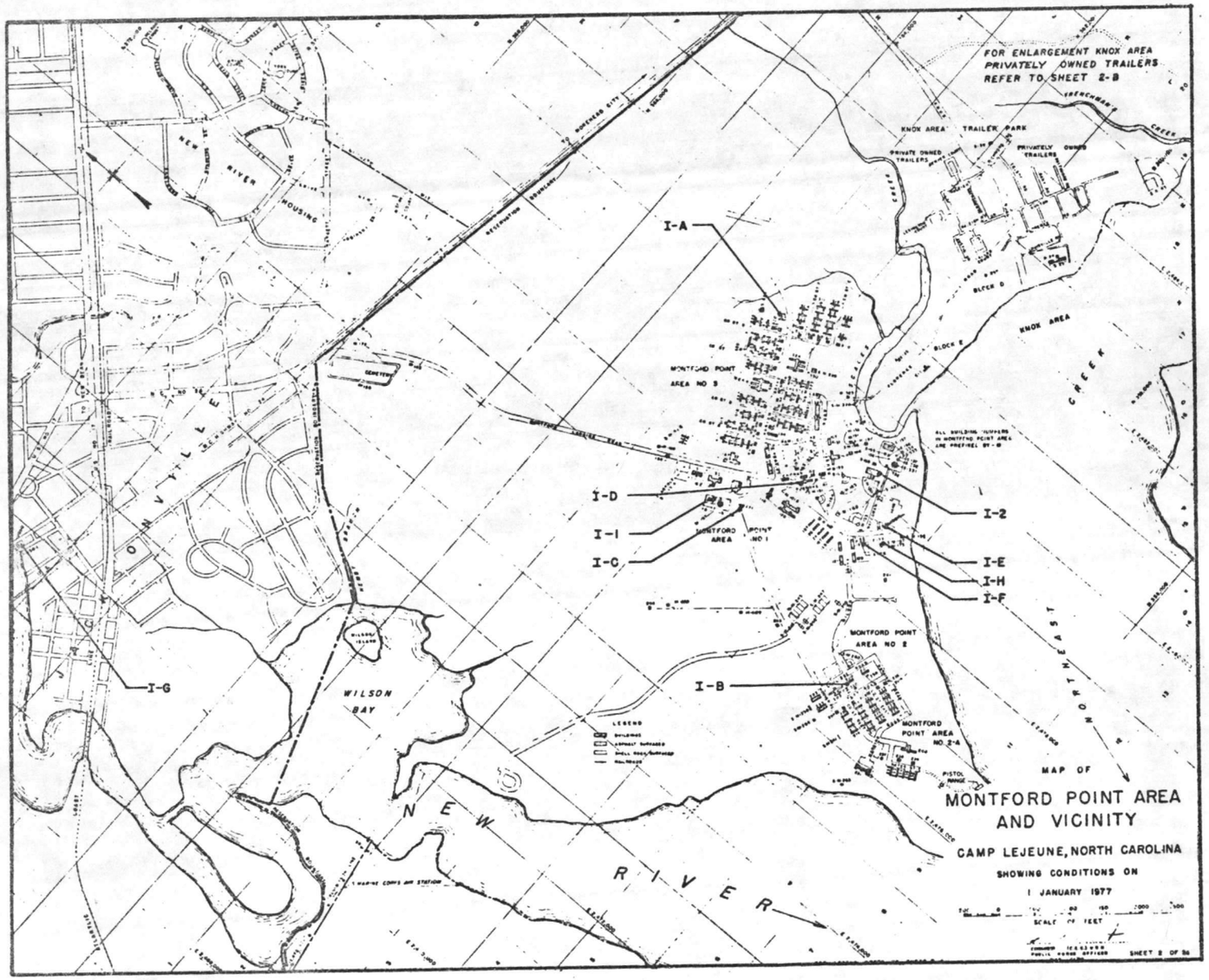
SPECIFIC SITE IDENTIFICATION LOCATED IN RESPECTIVE AREA. (EITHER A LETTER OR NUMBER)

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

INDEX—CAMP LEJEUNE



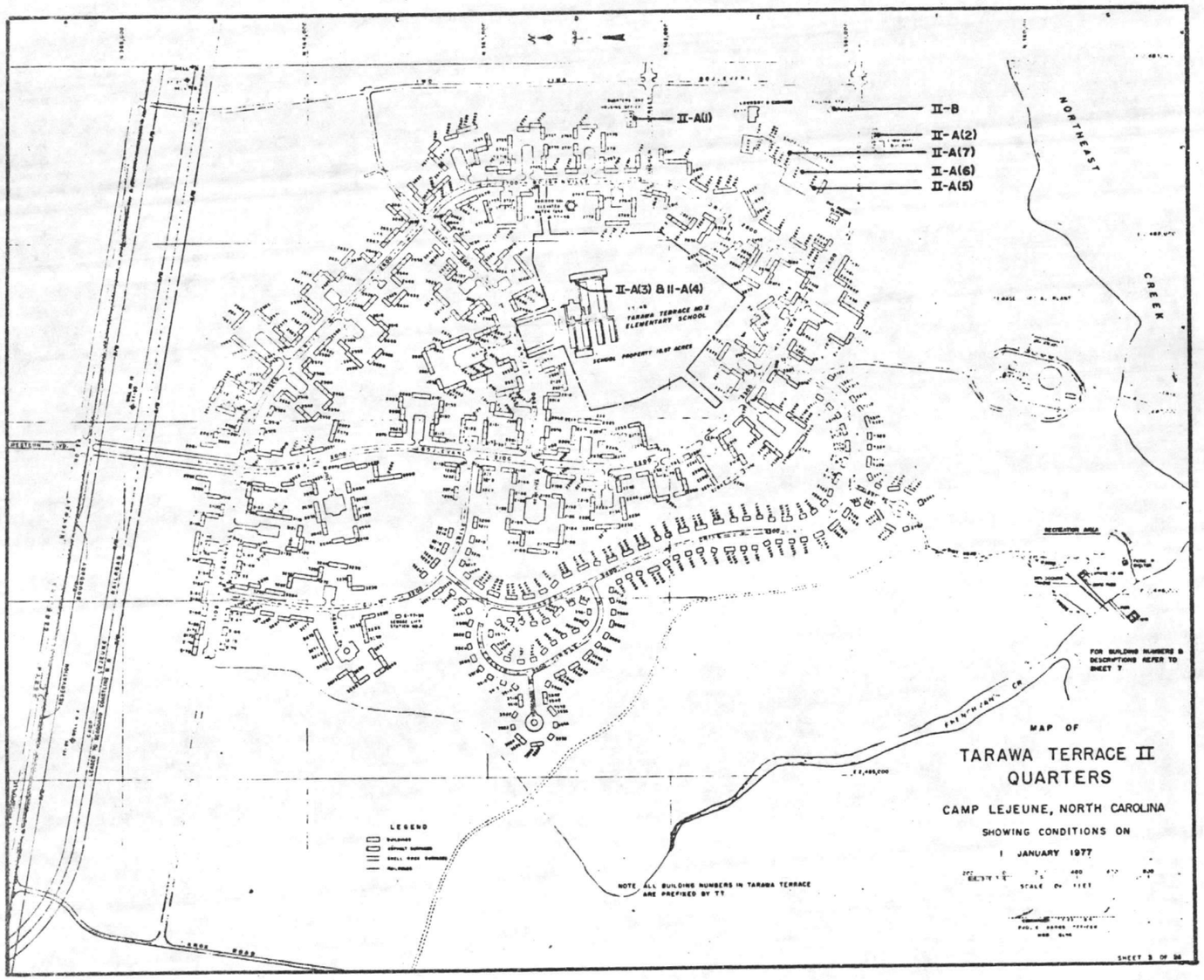
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

MONTFORD POINT AREA AND VICINITY

I

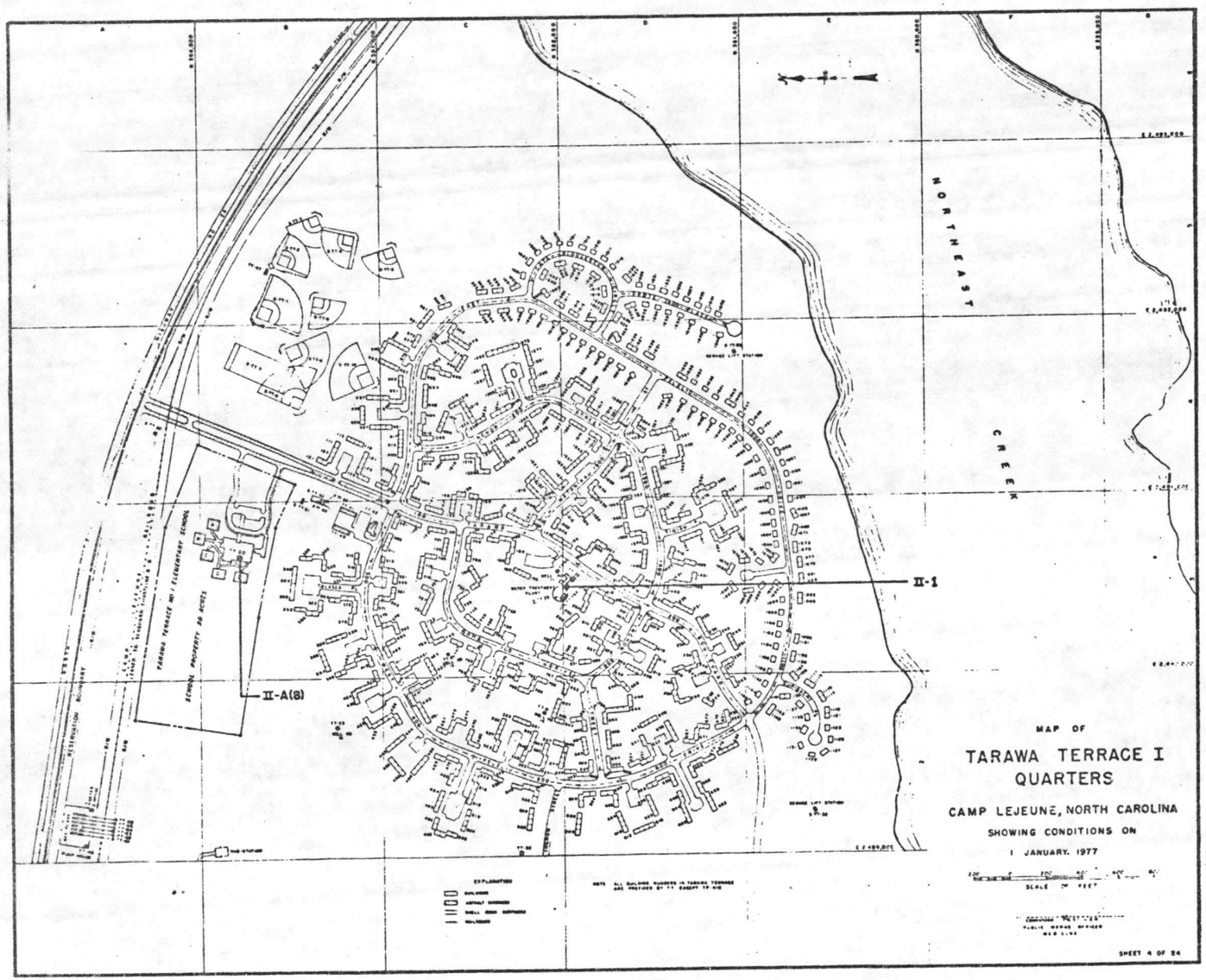


MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

TARAWA TERRACE II QUARTERS II

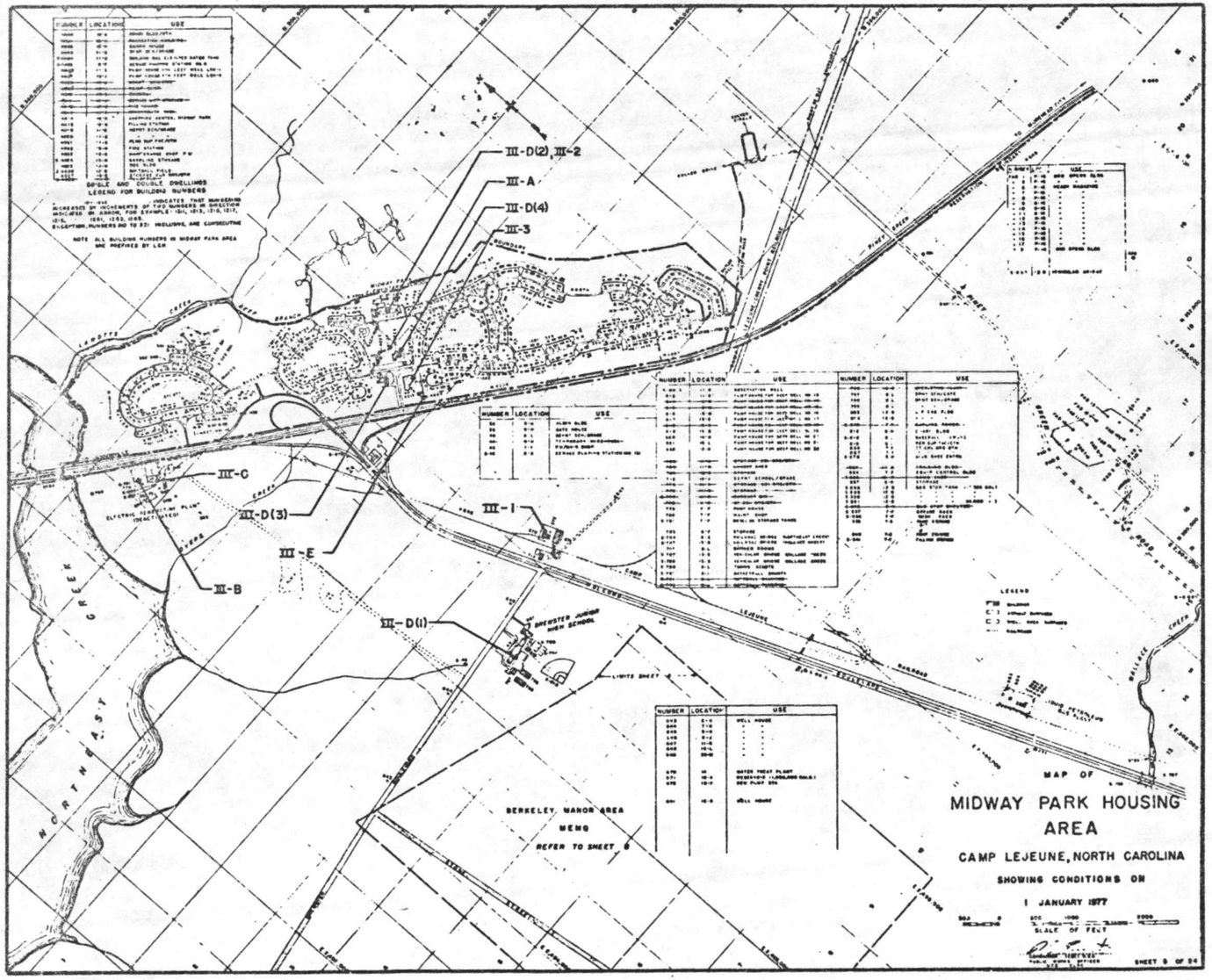


MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES

P-996

TARAWA TERRACE I
QUARTERS
II

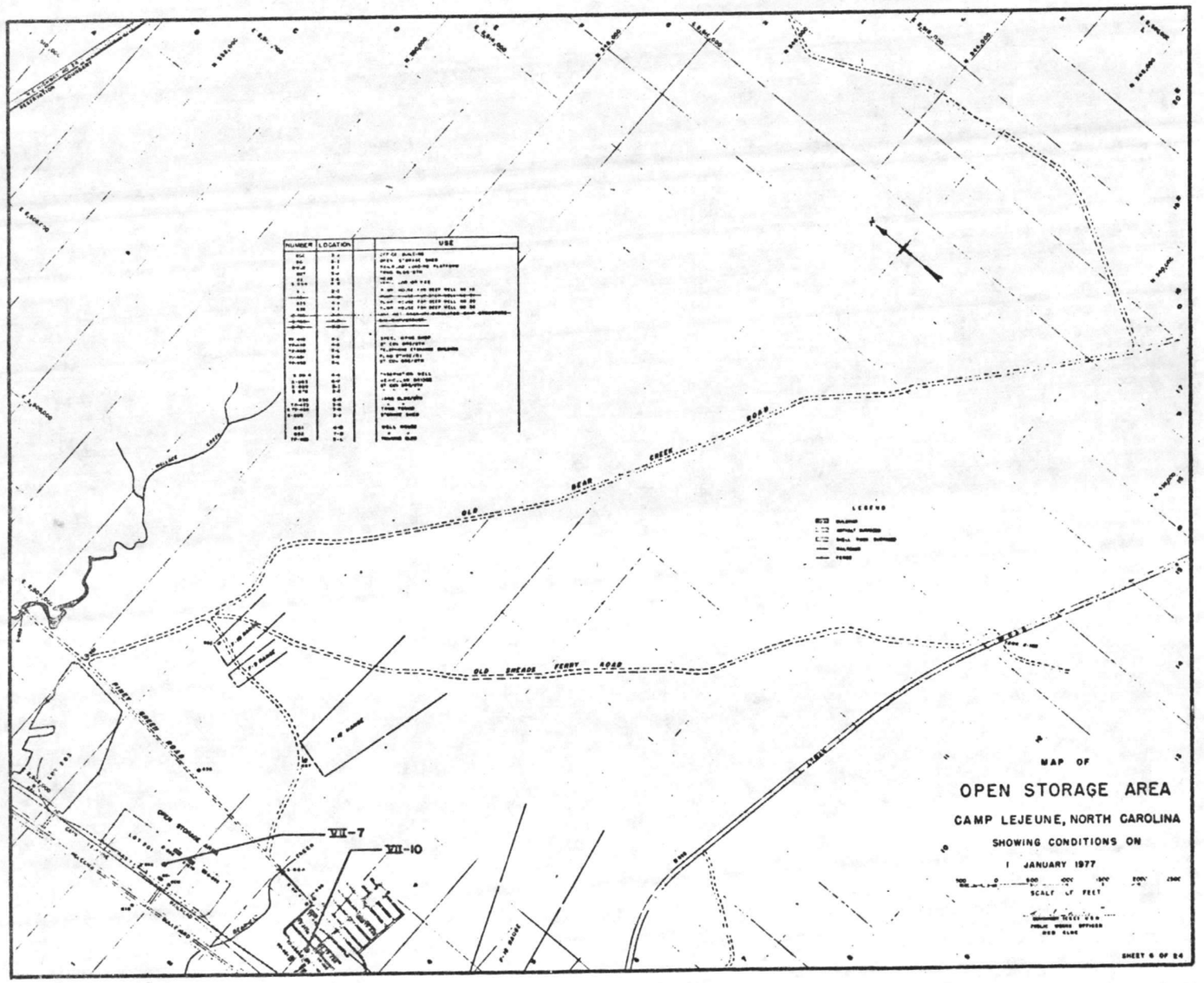


MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

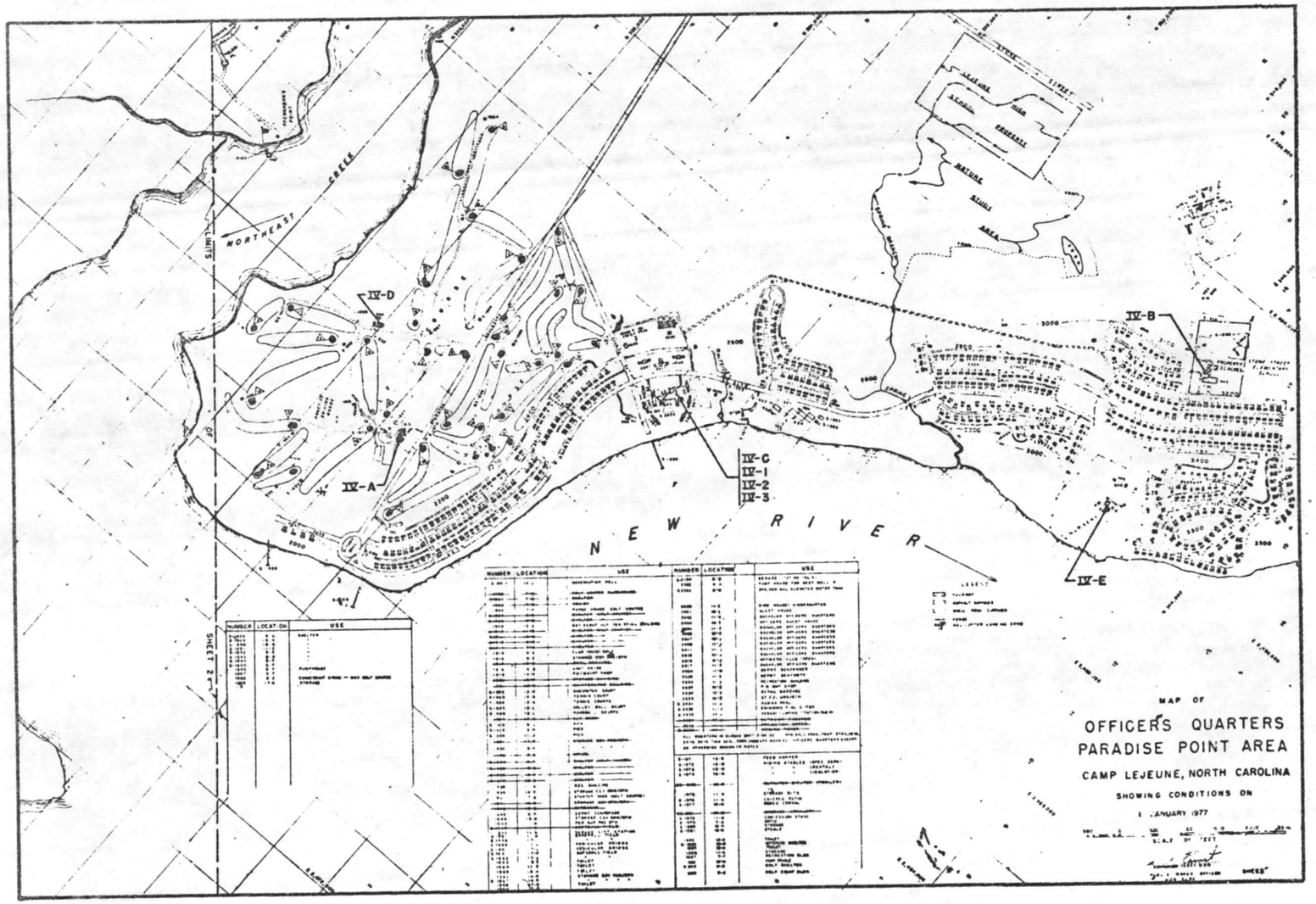
MIDWAY PARK HOUSING AREA
III



MARINE CORPS BASE
CAMP LEJEUNE , NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES
P-996

OPEN STORAGE AREA

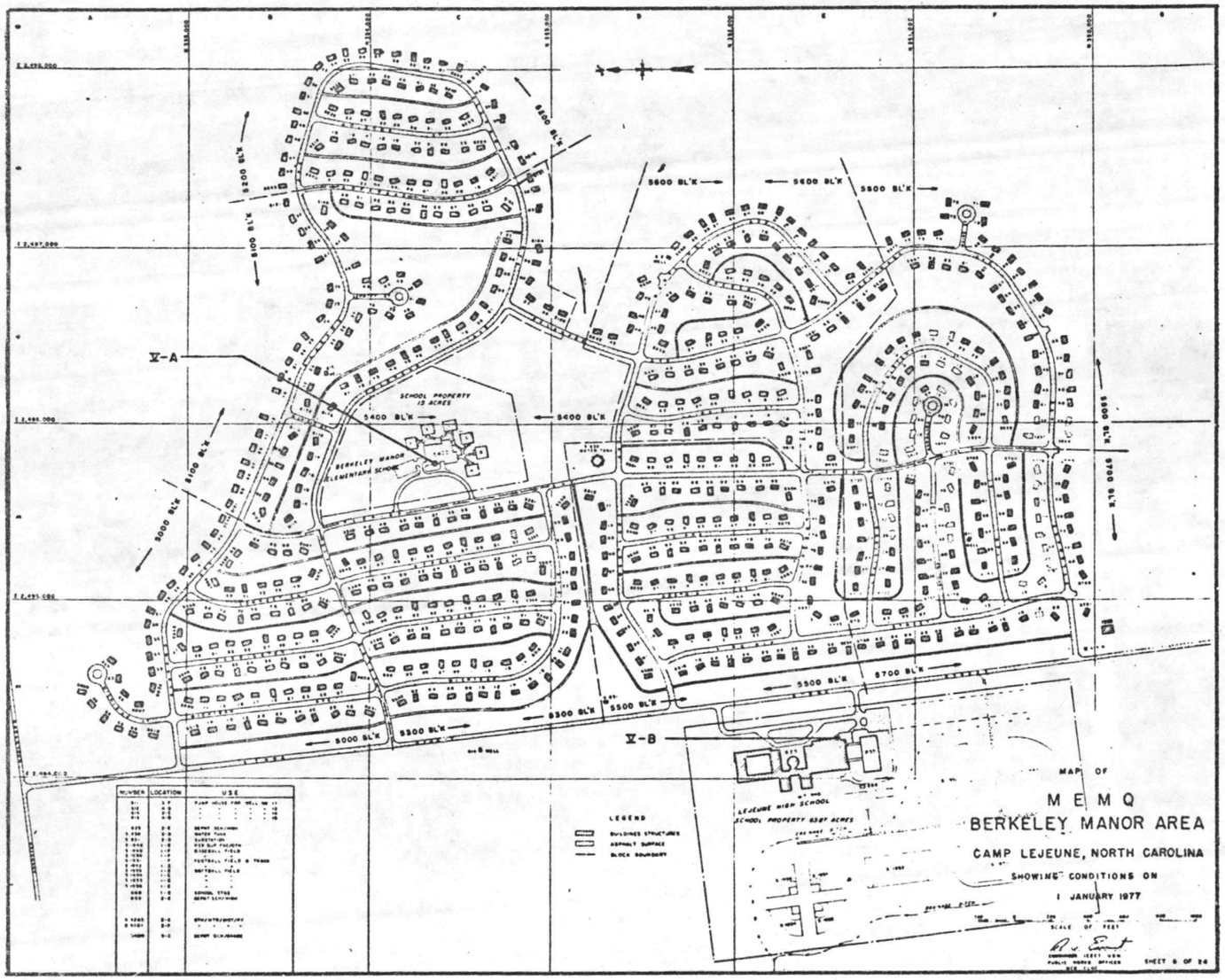


MARINE CORPS BASE
CAMP LEJEUNE , NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES

P-996

OFFICERS QUARTERS
PARADISE POINT AREA
IV



MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

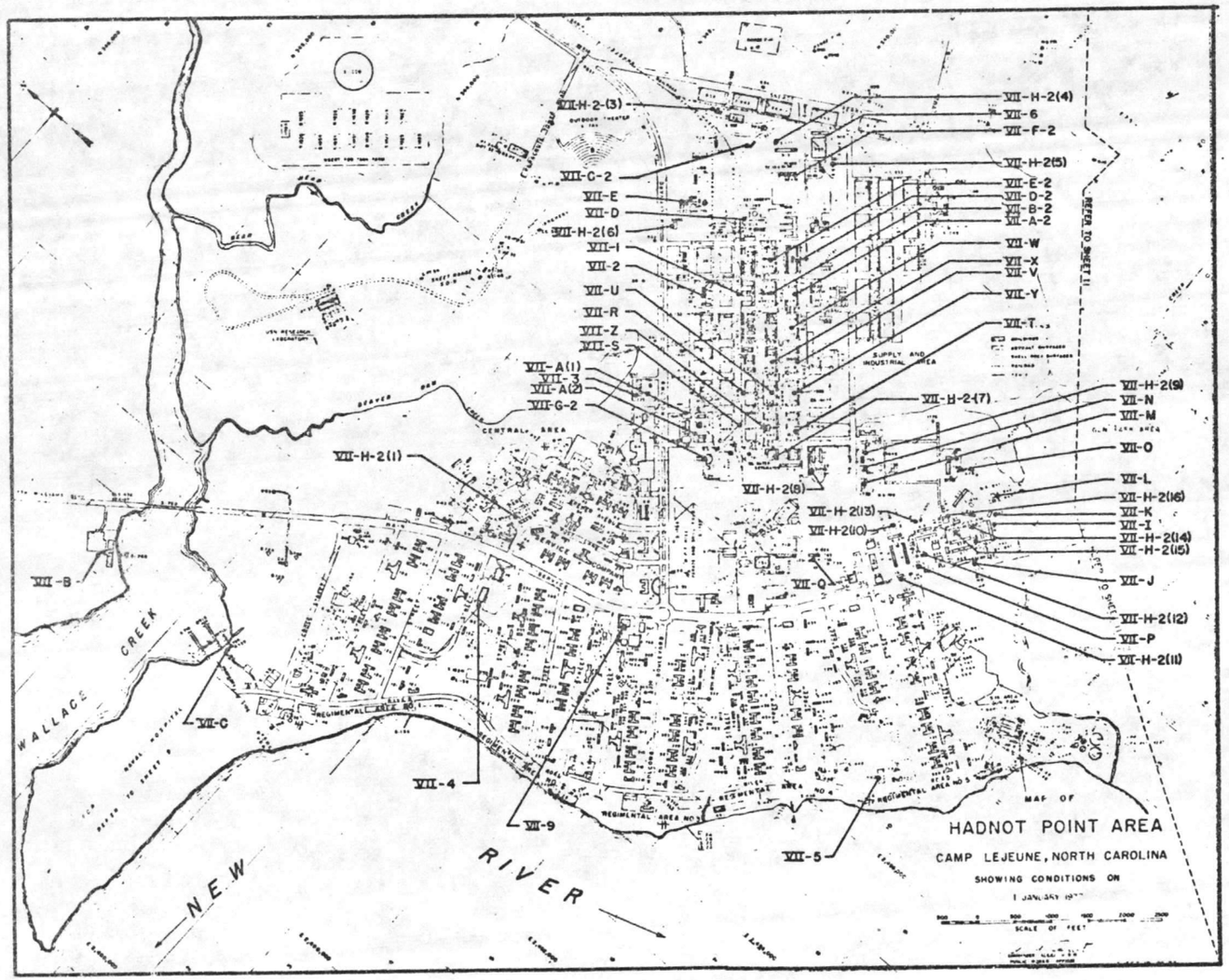
INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

M E M Q

BERKELEY MANOR AREA

V



NOTES

1.) FOR LOCATION OF VII-F, VII-H VII-G & V-H-2(2) SEE VICINITY MAP FOR FRENCH CREEK AREA.

2.) FOR LOCATION OF VII-7 SEE VICINITY MAP FOR OPEN STORAGE AREA.

3.) LOCATION OF VII-8 ARE NOT SHOWN.

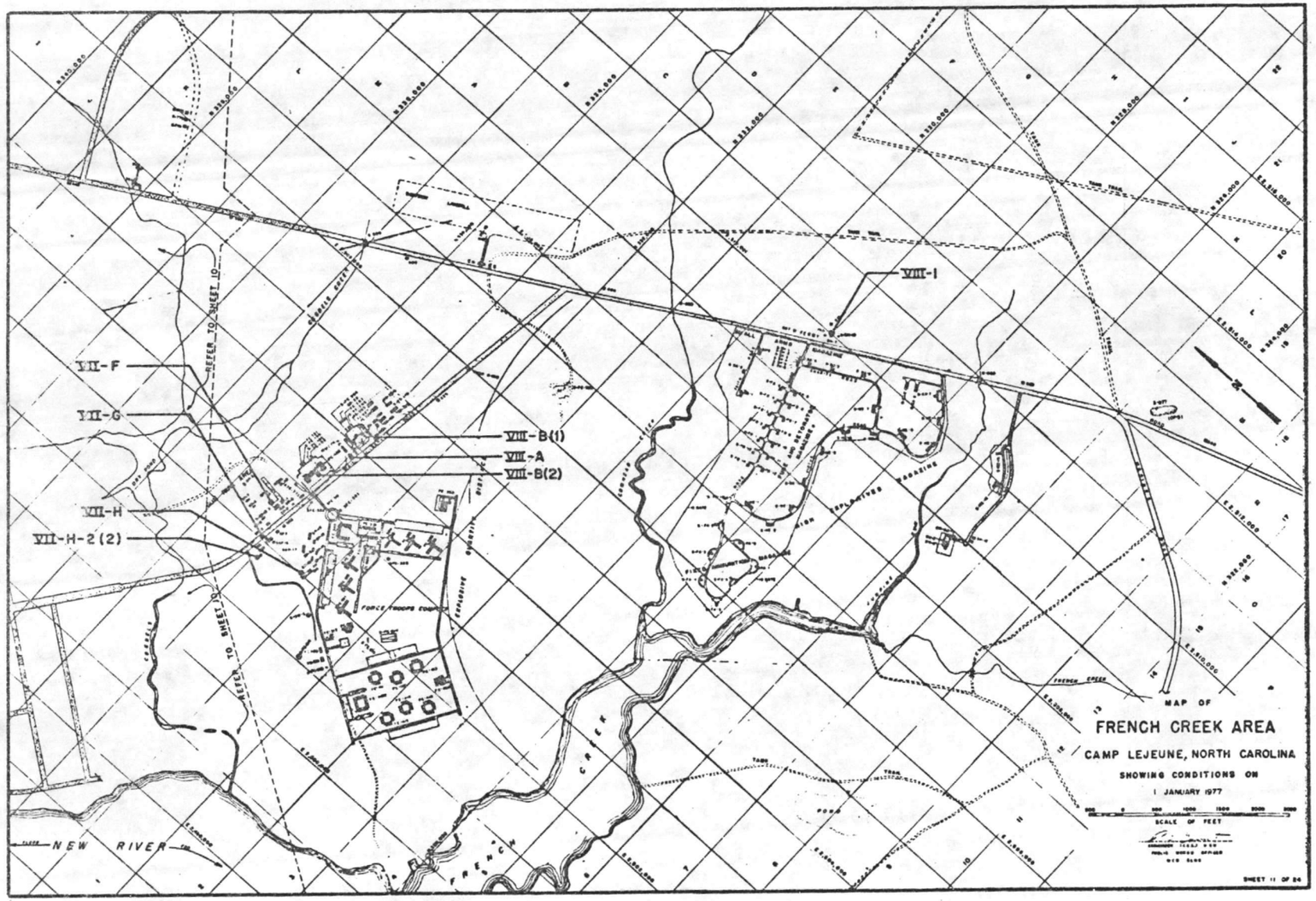
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

HADNOT POINT AREA

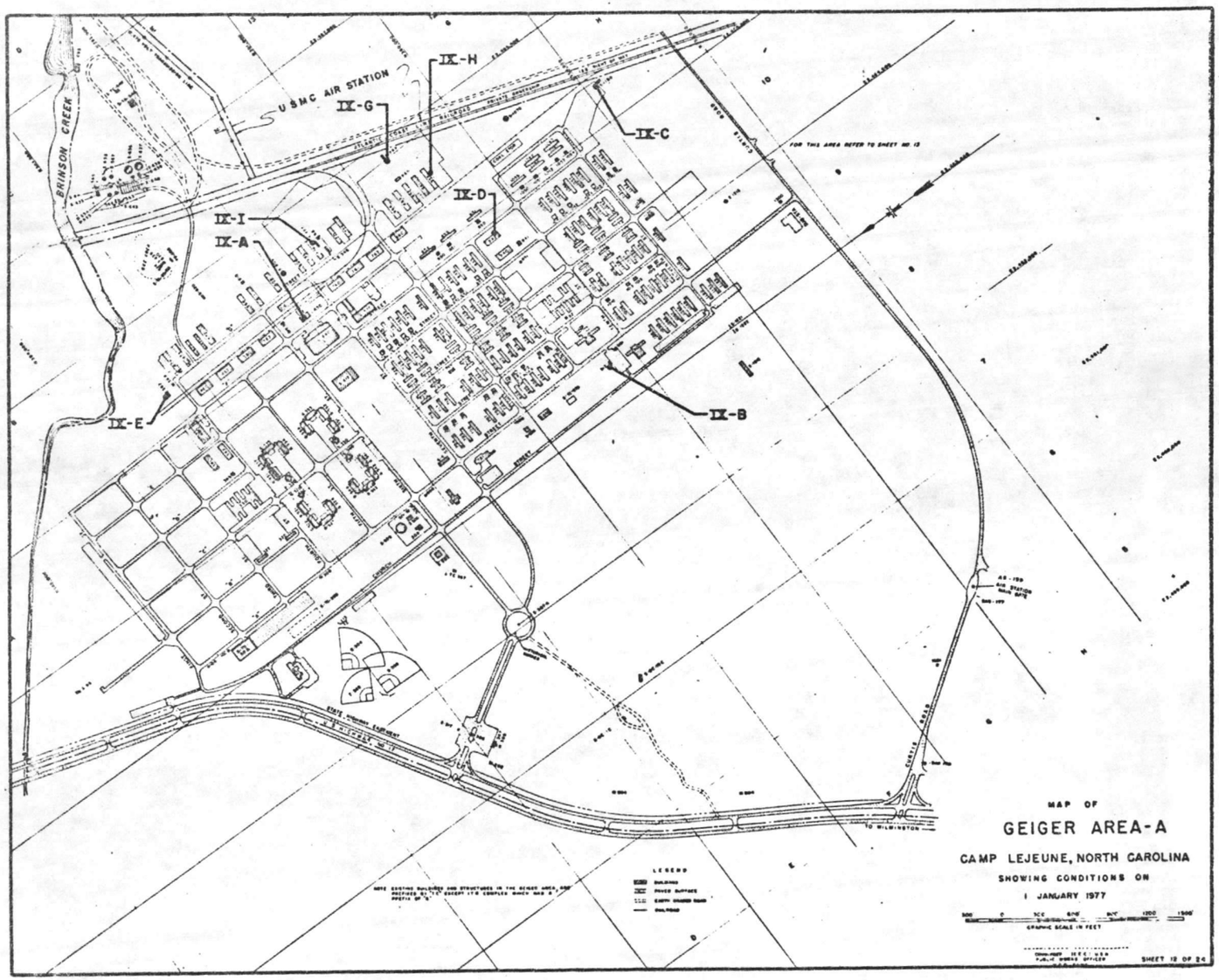
VII



MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES
P-996

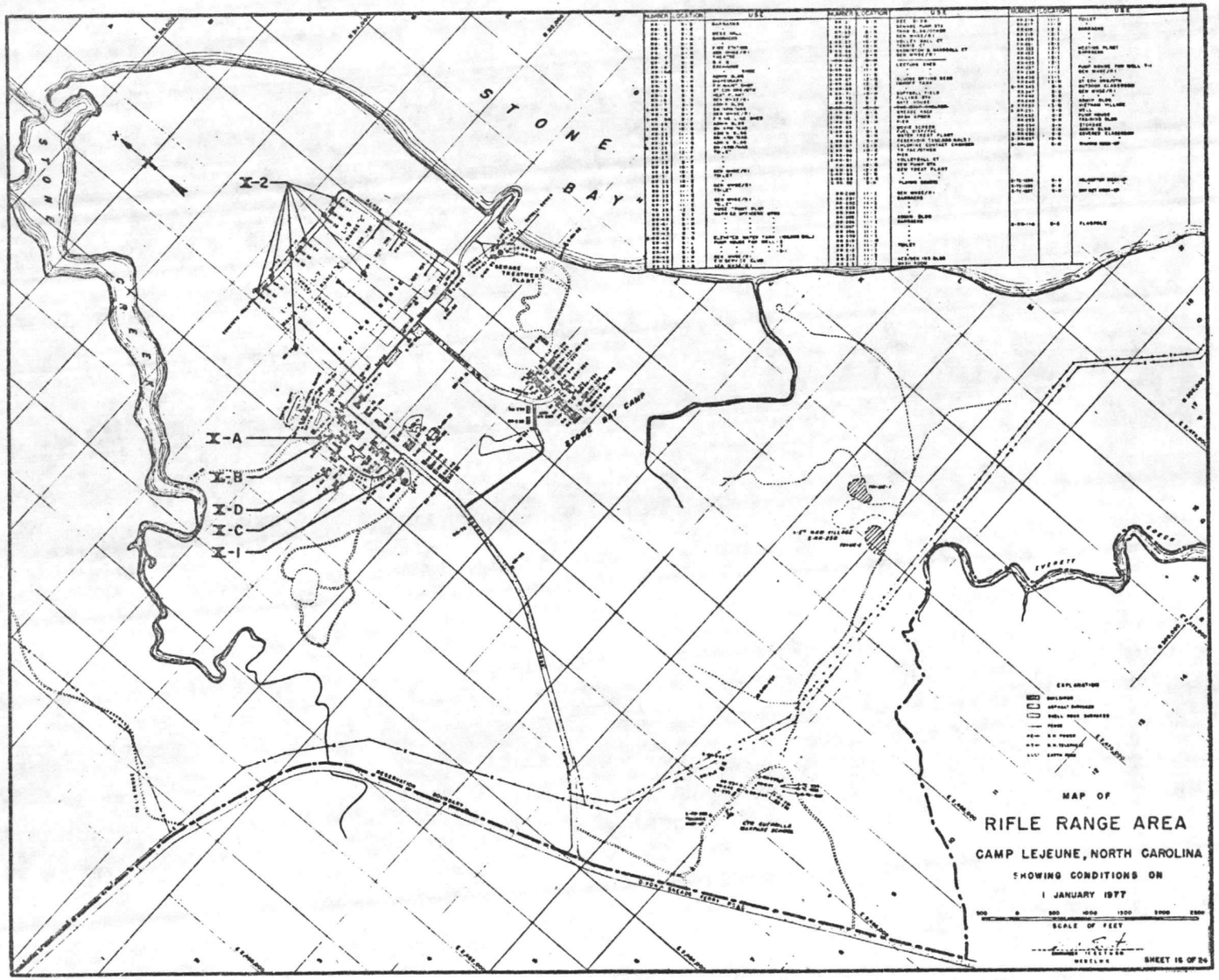
FRENCH CREEK AREA
VIII



MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES
P-996

GEIGER AREA
IX



MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES

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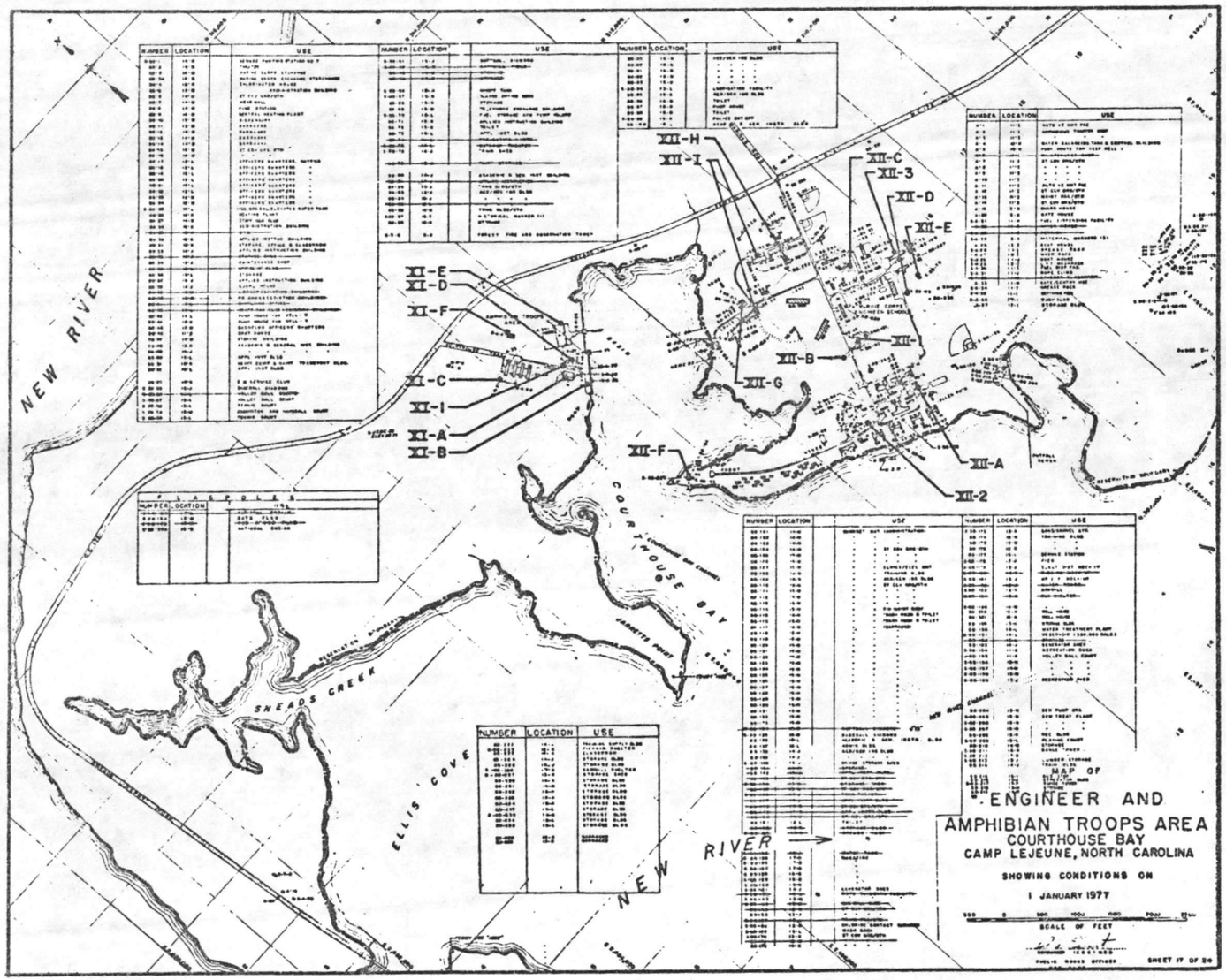
RIFLE RANGE AREA

X

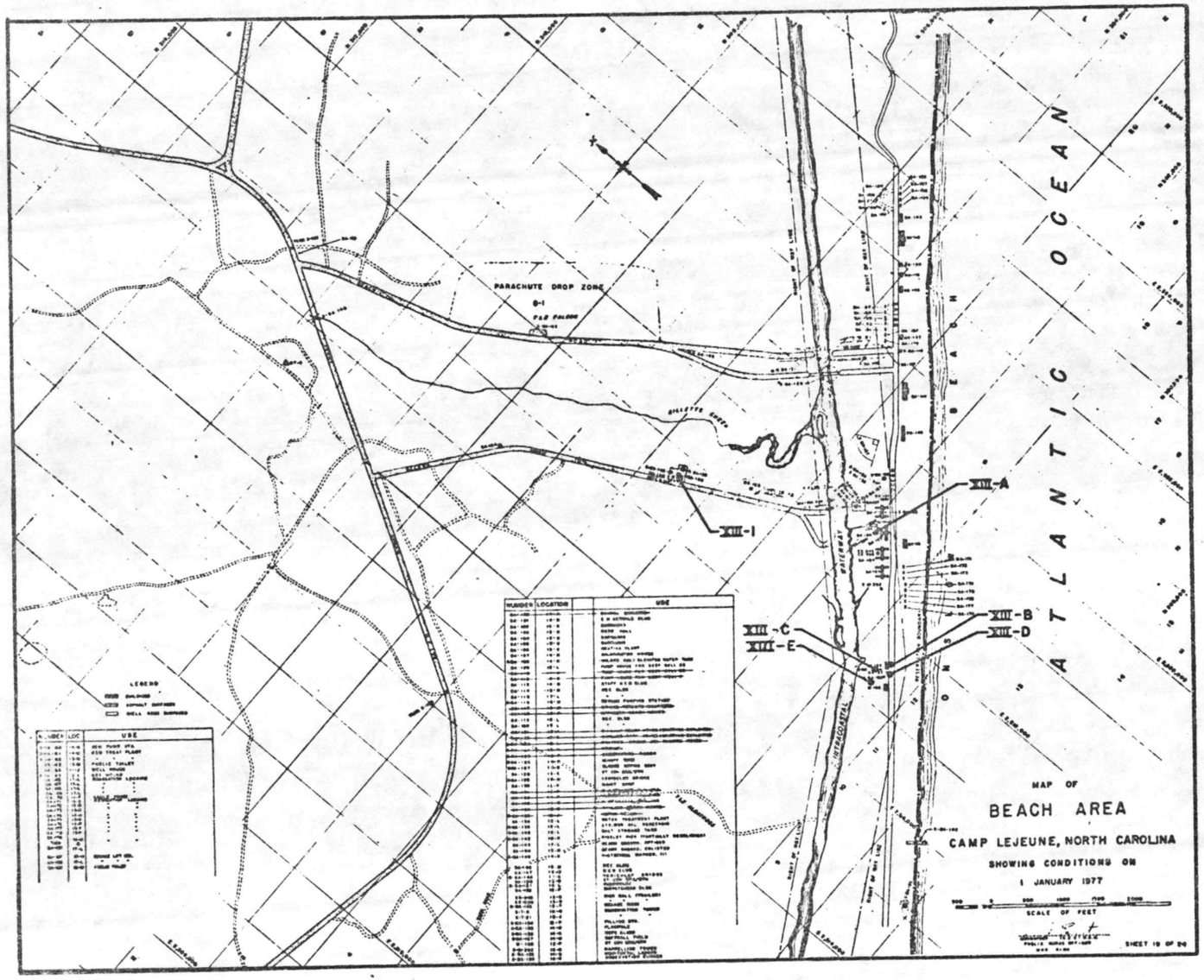


MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES

P-996

ENGINEER AND
AMPHIBIAN TROOPS AREA
XI - XII



MARINE CORPS BASE
CAMP LEJEUNE , NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION
AND TREATMENT FACILITIES

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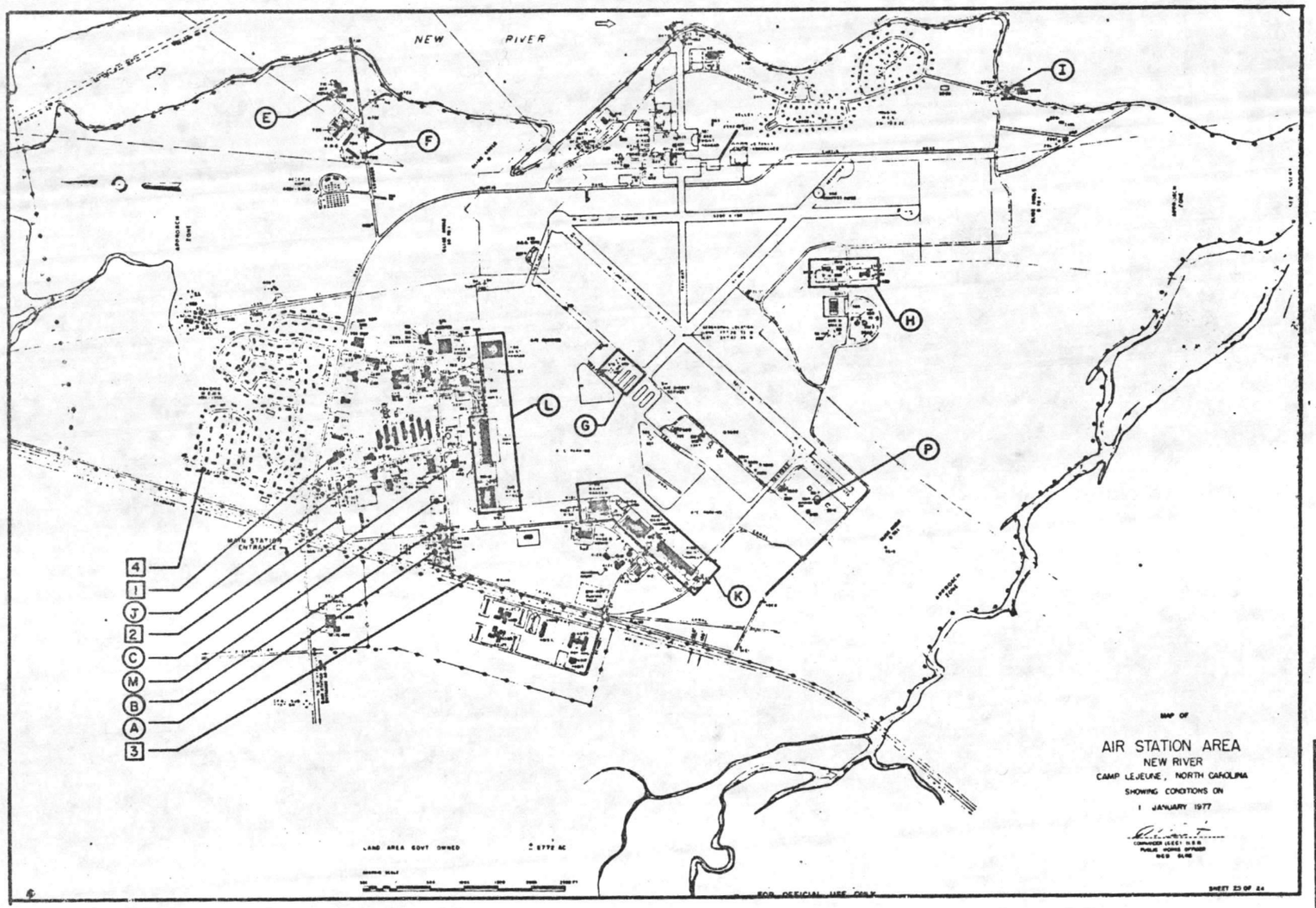
BEACH AREA

XIII



MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

P-996

AIR STATION AREA

Date 1 July 1978

Budget Estimate for P-996

Title: INDUSTRIAL WASTE COLLECTION AND TREATMENT FACILITIES

Costs Escalated to: January 1980

Location: MARINE CORPS BASE, CAMP LEJEUNE, JACKSONVILLE, N.C.

Escalation: 11%

Prepared by: AUSTIN BROCKENBROUGH & ASSOC.

Contingency: 10%

		$/SF	$/SYS	SYS QUAN	TOTAL	BUILDING	BUILT EQUIP
PRIMARY FACILITY							
1	Hadnot Point		59,355	59	3,502,000	3,502,000	
2	Air Station		111,167	18	2,001,000	2,001,000	
3	Amphibian Troops		144,500	6	867,000	867,000	
4	Space Heaters - All Areas		240	1561	375,000	375,000	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
	Sub-Total Building				6,745,000	6,745,000	
2	Supporting Facilities						
1	Rifle Range		63,333	6	380,000	380,000	
2	Camp Geiger		47,714	7	334,000	334,000	
3	Montford Point		33,300	10	333,000	333,000	
4	French Creek		65,000	4	260,000	260,000	
5	Midway		22,727	11	250,000	250,000	
6	Tarawa Terrace		24,400	10	244,000	244,000	
7	Beach		33,000	6	198,000	198,000	
8	Courthouse Bay		14,167	12	170,000	170,000	
9	Paradise Point		13,750	8	110,000	110,000	
10	Berkeley Manor		3,500	2	7,000	7,000	
11							
12							
13							
14							
15							
	Sub-Total Supporting Facilities				2,286,000	2,286,000	

Total Estimated Cost	9,031,000

MAIN/WAN/nah
6240
27 Jul 1978

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

Subj: Environmental Management by Objectives (MBOs)

Ref: (a) CMC ltr LFF-2 JMK:ed of 20 Jun 78

Encl: (1) Activity MBO Information

1. Enclosure (1) has been reviewed, updated and returned as requested in reference (a).

C. D. WOOD
By direction

Blind copy to:
AC/S Fac

AIR POLLUTION

1.a. Will state require a variance from air pollution regulations in order to allow operation of a facility until corrective projects are completed? Yes

If yes, for which source(s)? Bldg 1700 - Four coal fired boilers

Give Status of variance. Being applied for

b. Will state require air pollution operating permits? Yes

If yes, for which source(s)? All boilers burning coal & No. 6 Oil & Incinerator

Give status of permit(s). Being applied for - The base has received permits to operate electrostatic precipitators.

2.a. Does state require a "Transportation Control Plan"? No

If yes, give status of plan.

b. Does state require an "Air Episode Plan"? Yes

If yes, give status of plan. Being revised

3.a. Does state require vehicle inspection and maintenance (I&M) program? NO

b. If yes, give status of compliance with I&M programs. - - - - -

WATER POLLUTION

1.a. Provide number of National Pollutant Discharge Elimination System (NPDES) or state permits:

	NPDES	STATE
1. Required	1	0
2. Applied for		
3. In initial negotiation		
4. In renegotiation		
5. Final	1	0

b. Is activity operating in accordance with permit? No

If no, list corrective measures underway or scheduled: NavFac is studying industrial discharge problem at Camp Geiger sewage treatment plant which has caused the base to violate BOD discharge limitations at that plant. A&E Firm presently designing a project to correct miscellaneous discharges.

c. Is activity subject to enforcement compliance letters? Yes

If yes, give details on separate page.

2.a. Is the activity connected to a municipal treatment system? No

If yes, on what date _____

b. Is a connection being contemplated? No

If yes, give brief details on separate page.

3. Concerns ship wastewate. No input required.

4.a. Do EPA regulations require the activity to have a spill prevention, control, and counter measures (SPCC) plan? YES

b. Is the plan complete? YES

c. Provide date by which plan will be implemented. Plan is being implemented.

d. What will be cost to implement? Undetermined

5. Concerns "208 Planning". No additional input necessary.

PESTICIDES

The following questions concern future DOD requirements for the application of pesticides.

1. MCO P11000.8A paragraph 4020 requires all activities that apply pesticides to submit an annual Pest Control Program Outline. The plan will be subject to review by the Armed Forces Pest Management Board.

a. Has the activity complied with the requirement of MCO P11000.8A? Yes

b. Is the plan current? Yes

2. All activities which apply pesticides will be required to have a minimum of two certified applicators.

How many personnel have been trained and certified in accordance with MCO P11000.8A, paragraph 4013? 15

b. How many personnel will require recertification during calendar year 1978? None

3. This item concerns the implementation of an "integrated pest management" program and will be addressed by HQMC. No activity input is required.

SOLID WASTE MANAGEMENT

1.a. Does the activity have a sanitary landfill? Yes

b. Is the landfill in compliance with EPA or state standards? Yes

If so, has the landfill been brought into compliance since 1 January 1977? Yes

c. If landfill is not in compliance, indicate problem, solution, and schedule for correction. _____

2. Concerns waste paper recovery. Ensure that semi-annual report required by MCBul 6240 of 14 March 1977 w/ch 1 is forwarded to CMC. Headquarters Marine Corps will then provide input to DOD.

Concerns resource recovery in Standard Metropolitan Statistical Areas. No input required.

4. Does state require solid waste operating permit? Yes

If so, give status of permit for activity. Being Developed

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

IN REPLY REFER TO
LFF-2-JMK:ed

20 JUN 1978

From: Commandant of the Marine Corps
To: Distribution List

Subj: Environmental Management By Objectives (MBOs)

Ref: (a) CMC ltr LFF-2-JMK:ed of 6 Jun 78

Encl: (1) Activity MBO Information
(2) Headquarters Marine Corps Comments

1. In response to the reference, addressees provided this Headquarters information concerning compliance with environmental regulations. This information was used during a Secretary of Defense (SECDEF) Environmental Management by Objectives (MBOs) review.

2. Enclosure (1) returns the activity MBO information for any required updating prior to an August SECDEF MBO review. This Headquarters has provided comments on present activity MBO information in enclosure (2).

3. It is requested that you review, update and return enclosure (1) to Commandant of the Marine Corps (Code LFF) not later than 27 July 1978.

E. C. CHEATHAM, JR.
By direction

DISTRIBUTION LIST:
CG MCDEC Quantico
CG MCB Camp Pendleton
CG MCB Camp Lejeune
CG MCRD San Diego
CG MCLSBLANT Albany
CG MCAS Cherry Point
CG MCRD Parris Island
CG MCAS El Toro
CG MCB Twentynine Palms
CG MCLSBPAC Barstow
CO MCAS Kaneohe Bay
CO MCAS Beaufort
CO MCAS Yuma
CO HQBN Henderson Hall
CO Camp H M Smith
CO 8th & "I"
CO Camp Garcia
First MCD
4th Marine Division

Copy to: (w/o enclosures)
COMMARCORBASESPAC
COMCABWEST
COMCABEAST
FMFLANT

JUL 24 1978

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	DW
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF		✓	
SECRETARY			
F&A BRANCH			
UMACS			
MME			

File

VZCZCRBA517
RTTUZYUW RUEBDOD0949 2011920-UUUU--RUQLBRA.
ZNR UUUUU
R 201920Z JUL 78
FM CG SECOND MARDIV
TO RUQLBRA/CG MCB CAMP LEJEUNE NC
INFO SECOND MARDIV
RUEBDOB/CG SECOND FSSG
XMT BLT ONE SLANT EIGHT
BT
UNCLAS //N011015//
ENVIRONMENTAL PROTECTION MEASURES
A. CG MCB CAMLEJ 131721Z JUL 78 (PASEP)
B. BO P11102.1H
C. BO P11015.3
1. REF A IDENTIFIES RECENT VIOLATIONS OF MCB ENVIRONMENTAL IMPACT MEASURES.
2. REF B AND C WILL BE RE-EMPHASIZED TO THE DIVISION VIA BOTH COMMAND AND STAFF CHANNELS.
BT
#0949

TOR: 21 1005Z JUL 78
ACTION: FAC
INFO: MAIN

JUL 21 10 05 78

MAIN

20 1920Z Jul

	ACTION	INFO	INITIAL
BMO		✓	
ABMO		✓	
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL		✓	
ENVIRON AFF	File	✓	
SECRETARY			
F&A BRANCH			
UMACS			
MME			

Initiate note & retain for File

JdW 3 Aug 78 N

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7521

IN REPLY REFER TO:

09A21:AGB
11010/MCAS CHERPT
MARCORB CAMLEJ

11 JUL 1978

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Distribution List

Subj: Contracts N62470-78-C-3838 and N62470-78-C-3839, A&E Services for FY 80 MCON Projects P-789 and P-996, Industrial Waste Collection and Treatment Facilities, Marine Corps Air Station, Cherry Point, North Carolina, and Marine Corps Base, Camp Lejeune, North Carolina

1. During the course of preproposal conferences and scope resolutions in connection with the subject projects, it has become apparent that the projects' scopes are being interpreted as catch-all for all pollution abatement problems existing at the Activities. The projects are being programmed to eliminate all pollution problems which are in violation of current EPA permit standards; i.e., elimination of wastewater and oil spill control outfalls in violation of EPA permit standards. Activity deficiencies such as excessive infiltration into existing sanitary system, etc., are not a part of the scope of these projects.

Distribution List:
CMC
NAVFACENGCOM
MARCORB CAMLEJ
MCAS CHERPT
NAVAIREWORKFAC CHERPT

BASE MAINTENANCE DEPARTMENT
MARINE CORPS BASE, CAMP LEJEUNE, N. C.

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION

_____ Date

FROM: _____
TO: _____

_____ Note and Return

_____ For your information (need not return)

_____ Please handle

_____ Route to _____

_____ Please give me your comments (return attachments)

_____ Approve and return

SUBJ:

1.

File
J.d.W.
30 June 78

Myl

make copy for DW retention - give to Jim for review for forward to W. Isom orig.

N

Julian
this is
Dir's
copy

over →

2-R-6

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313
AUTOVON 690-7313

IN REPLY REFER TO:
114:JRB
6280

21 JUN 1978

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding Gerneral, Marine Corps Base, Camp Lejeune

Subj: Environmental Engineering Survey for Marine Corps Base, Camp Lejeune; transmittal of

Ref: (a) MCO P11000.8A
(b) OPNAVINST 6240.3E
(c) NAVFACINST 5450.19B

Encl: (1) Environmental Engineering Survey Report for Marine Corps Base, Camp Lejeune

1. In accordance with references (a, (b) and (c), enclosure (1) is forwarded.

2. This 1978 Environmental Survey is not a complete survey of the activity. It primarily addresses boiler water treatment problems at heating plants and problems at the Camp Geiger Sewage Treatment Plant.

3. Should there be any questions regarding the survey, please contact Mr. B. Azar or Mr. J. Harwood of this Command, Code 114, telephone number AUTOVON 690-7313.

J. G. Leech
By direction

Copy to:
CMC
BUMED
COMNAVFACENGCOM
CBC PORT HUENEME

ENVIRONMENTAL ENGINEERING SURVEY
MARINE CORPS BASE, CAMP LEJEUNE
JACKSONVILLE, NORTH CAROLINA

JUNE 1978

UTILITIES DIVISION
ATLANTIC DIVISION, NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA

Prepared by:

B. I. AZAR, P. E.
Sanitary Engineer

J. J. HARWOOD, P. E.
Sanitary Engineer

LIST OF ENCLOSURES

ENCLOSURE (1): Evaluation of Camp Geiger Sewage Treatment Plant Comminutor

ENCLOSURE (2): Environmental Citations and Projects

ENCLOSURE (3): Camp Lejuene letter of 16 Feb 78 Re: Survey Update

AUTHORITY

In compliance with MCO P11000.8A, OPNAVINST 6340.3E and NAVFACINST 5450.19B, the annual Environmental Survey for the Marine Corps Base, Camp Lejuene, was conducted in January 1978.

ACTIVITY PERSONNEL CONTACTED

COL C. D. Wood	Base Maintenance Officer
Mr. G. Horne	AROICC, Camp Lejuene
Mr. B. Wilson	Utilities Division Director
Mr. P. Huffman	General Foreman, sewage treatment plants
Mr. G. Wetherington	Camp Geiger Sewage Treatment Plant Operator
Mr. W. Neil	National Resources and Environmental Affairs Division Director
Mr. J. Wooten	Environmental Coordinator
Mr. E. Eakes	Chemist
Mr. R. Curley	Department of Public Works Design Director
Mr. Honeycutt	Planner, Public Works Design Division
SGT. Becker	MCAS, New River

EXECUTIVE SUMMARY

In compliance with MCO P11000.8A, OPNAVINST 6240.3E and NAVFACINST 5450.19B, the Environmental Engineering Survey of the Marine Corps Base, Camp Lejuene, North Carolina, was conducted in January 1978. The last previous survey was done in December 1976 and this survey was conducted to:

1. Determine the status of problems identified in the original survey.

2. Identify any new environmental problems.

3. Update data obtained in the original survey.

Problems noted in the original survey dated December 1976 and their present status are:

a. Sanitary sewer infiltration at Camp Gieger and MCAS New River.

This problem is being addressed by this office via ESR U8006.

b. Operation and Maintenance Manual for the Camp Gieger Sewage Treatment Plant.

A contract has been awarded to A & E firm, J. K. Timmons Associates, Richmond, Virginia, to write the manual.

c. High water level alarms in the sewer lift station.

A centralized alarm system has been installed.

d. No Sanitary Facilities-Building SH 11.

This problem is part of a miscellaneous discharge study by A & E firm, Austin Brockenbaugh, Richmond, Virginia.

e. Sewage Treatment Plant Laboratory space inadequate.

The laboratory has been moved to a more adequate location, Building 1103, and is now known as the "Environmental Resources Division Laboratory".

f. Annual complete physical and chemical analysis of the potable water had not been performed since 1973.

The analyses of the potable water was completed in 1977, and analyses of the raw well water is planned for this year.

g. Wells and well house for Onslow Beach need repairs.

These wells were abandoned and new wells are being developed.

h. Miscellaneous wastewater discharges to storm system.

The collection and treatment of these discharges are the subject of the same A & E study as item d.

i. Inadequate pest control facilities.

The operation has been moved to adequate facilities.

j. Corroded brine tanks at the Court House Bay Water Treatment Plant.

New brine tanks have been ordered.

k. Building 883-septic tank and leaching field flooding during heavy rain.

This also part of the A & E study of item d..

l. Inadequate septic tank and leaching field at the Rifle Range Target Area.

Also part of the A & E study - item d.

m. Landfill wastes in water table.

Landfill operation has been corrected.

The 1978 survey concentrated on problems at the Camp Geiger/MCAS New River Sewer Collection System and Treatment Plant, and boiler feedwater and condensate return system at the Camp Geiger and New River heating plants. A complete Environmental Survey of the Camp was not performed.

Problems noted are:

a. Toxic materials introduced into the MCAS New River sanitary sewer are deleteriously affecting the Camp Geiger sewage treatment plant.

b. Excessive flows into the Camp Geiger treatment plant during heavy rains, exceeding the plant's capacity.

c. Operators at the Camp Geiger Sewage Treatment Plant report that during heavy rains, service runoff water ponds in the area of the primary clarifiers, and overflows into the clarifier.

d. The communitor at the Camp Geiger Sewage Treatment Plant does not appear to be operating properly (enclosure (1)).

e. EPA cited Camp Lejuene as a "major pollutor" because of NPDES violations as a result of the miscellaneous industrial untreated discharges (enclosure (2)).

f. Overall assessment of the boiler program, with respect to chemical additions and in-plant testing, is unsatisfactory.

g. Lack of technically trained personnel to administer boilers feedwater treatment program and to interpret adequately the test data to provide optimum boiler operation.

h. Present condensate line treatment with filming amine is not effective.

i. Wrong point of injection for the sodium sulfite chemical to control oxygen pitting in the boilers.

j. The inservice cleaning treatment for the boilers requires close control to protect the boilers system metal from damage.

k. Inadequate record keeping of boiler water test and treatment record.

l. No boiler water samples submitted monthly to BUMINES for referee check analysis.

m. No totalizing meters in the condensate return lines to determine condensate percentage return.

n. Condensate receivers cleaning and condensate return cyclic maintenance of steam traps, strainers and mud legs are inadequate.

RECOMMENDATIONS

a. and b. There problems are interrelated and are addressed in ESR 8006. Modifications for the treatment plant which may be required are included in memo's dated 28 Feb and 21 Mar 1976, (copies which were previously forwarded and will be included in ESR U 8006). A construction project is in progress to dewater and repair the bottom of the surge basin, and it is recommended that the pipe shown on the memo dated 28 Feb 1978, page 4, be installed while the basin is dewatered. The cost of the additional pipe is small, and if needed, the basin will not have to be dewatered again.

c. Provide for a study to determine the most cost effective method for correcting the problem, i.e., storm runoff and topographical survey leading to regrading and/or storm water collector culvert; building the top elevation of the clarifier sidewalls high enough to exclude ponding water.

d. Arrange for a representative from the manufacturer, Worthington Pump Company, Taneytown, Maryland, to examine the comminutor and installation, and make recommendations for proper operation/installation.

e. MILCON Project P-996 is under design by Austin Brockenbrough engineers to correct the known miscellaneous industrial discharges (enclosures (2)).

f. An experienced chemist, either at the GS-7 or GS-9 level, with technical knowledge of boiler water treatment, should be hired to supervise the boiler feedwater treatment programs at all steam plants at Camp Lejuene.

g. It is recommended that a 1:1 mixture of morpholine and cyclohexylamine be added continuously to the suction side of the feedwater pumps, or directly to the boilers in an amount shown by monitoring to impart a pH in the range of 7.5 to 8.0 to the steam condensate.

h. The point of injection of the sodium sulfite chemical should be changed from the present 4" feedwater line of the boilers to the bottom compartments of the deaerating tanks.

i. The use of the so called in service cleaning treatment for the boilers (chelating agents) should not be attempted unless a technically trained chemist supervises this operation.

j. A boiler water sample be collected monthly from each steaming boiler and be submitted to the Bureau of Mines Water Service Laboratory, College Park, Maryland, 20740, for analysis in accordance with NAVFACINST 5450.19B and LANTDIVINST 11300.4.

k. Totalizing meters be installed in the condensate return lines, and in the makeup water discharge lines to the condensate receiver tanks. This recommendation applies to the Central Plant, Camp Geiger, and the New River Plant.

l. A monthly cyclic maintenance program be established to service steam traps, strainers and mud legs.

DISCUSSION

1. Sewage from the MCAS New River was connected to the upgraded and expanded Camp Geiger Treatment Plant. The original plant was a conventional secondary treatment trickling filter plant. Comminutation, sideline equalization, and tertiary chemical flocculation-filtration with a sludge decanting basin was added. The problems that have developed are:

a. The plastic lining of the equalization and sludge decanting basins have deteriorated and leak. In addition, gases formed under the decanting basin, causing the linings to rise. This condition has prevented eliminated equalization and tertiary treatment for the present.

A construction project has been let to repair the surge and decanting basin by replacing the plastic lining with concrete.

b. The water head loss through the cominutor is excessive, and the operators bypass the comminutor during peak storm flows.

An evaluation of the performance of the comminutor was done (enclosure (1)), which shows improper operation. A factory representative from the manufacturer, Worthington Pump Company, should inspect the installation of the comminutor and make recommendations for proper performance.

c. The plant experiences excessive flows during heavy rainfalls. The slime on the trickling filter beds has died, resulting in poor treatment. The plant did not meet EPA's BOD reduction standard in December 1977 and will have difficulty meeting standards until corrective actions are taken. The cause appears to be toxic industrial waste from MCAS New River Naval Air Rework Facility.

The condition of the trickling filters is due to toxic waste slugs entering the plant from MCAS New River. These wastes have been identified as slugs of lime entering the sewer system from the lime slaker cleaning drains at the air station's water treatment plant. A Public Works work order at Camp Lejeune has been initiated to re-route the drains from the sanitary sewer to the processes flow of the plant. The recommendation of the memo dated 28 Feb 1978 (enclosure (3)) will give the plant the flexibility of pretreatment of organic compounds if required. A construction project is in progress at the present time which requires dewatering of the basin. The pipe modifications shown on page 4 of the memo should be installed by a change order to the present contract. The cost is modest, and if the pipes are needed, the basin will not have to be dewatered again.

d. Heavy rain runoff exceeds the storm drain capacity in the area of the primary clarifier, ponds and overflows the clarifier sidewalls into the effluent collection troughs.

This is a problem of improper grading and/or insufficient storm drainage capacity at the plant. For corrective actions, an ESR should be forwarded.

f. Boiler Feedwater Treatment Program

1. The detailed study of the chemical treatment of the boiler feedwater program was performed at the main central heating plant, Building 1700, Camp Geiger Steam Plant, and the New River Steam Plant. Areas of the study included: The external boiler feedwater treatment (softeners), the internal chemical treatment, residual concentrations, blowdown practices, condensate treatment, and the combined mechanical and chemical deaeration treatment. The program was found to be active, yet many deficiencies exist and require immediate corrective action.

2. Colonel C. D. Wood, Base Maintenance Officer, was advised verbally of the deficiencies noted in the boiler treatment program and advised of the need for technically trained personnel to intrepret the data to provide optimum boiler operation. Boiler operating and supervisory personnel seem to have difficulty in adjusting chemical dosages required due to the changing quality of the makeup water, which varies considerably in hardness, alkalinity and total dissolved solids. Hence, the major deficiency is the lack of technically trained personnel to administer this vital program. Utilization of trained personnel achieves a reduction in operational expenses, i.e., cost of fuel, chemical, etc., as well as increases the life expectancy of the boilers.

3. In depth discussion and recommendations are included in the ESR U7026 of February 1978.

ADDITIONAL ESR's

The following ESR's are being performed by this office:

ESR 8008. The addition of barracks and planned addition of more barracks in Courthouse Bay Area caused concern about the ability of the existing utilities to handle the additional loads. Mr. Honeycutt of Public Works Design was consulted and is arranging to forward to LANTDIV the necessary drawings, plans, and pertinent information for the study.

ESR 7154. Requested a study to determine what corrections/additions are required for the Tarawa Terrace and Montford Point water treatment plants. Montford Point plant treated water has excessive sulfur and iron. Excessive corrosion of the raw water pipes exists. Two additional wells were drilled and tests indicate excessive iron. Water treatment at the plant consists of ion exchange, phosphate addition, and chlorination. The ESR requested a study to determine what corrective action is required; and the feasibility of correcting and expanding the Tarawa Terrace plant and distribution system to supply water to both areas.

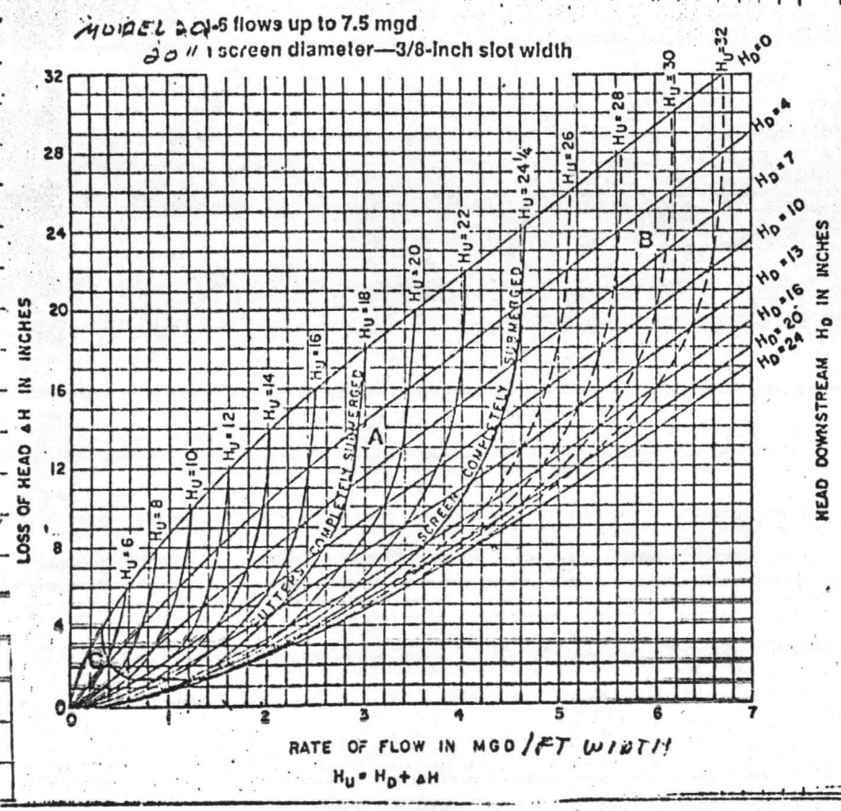
ENVIRONMENTAL SURVEY DATA UPDATING

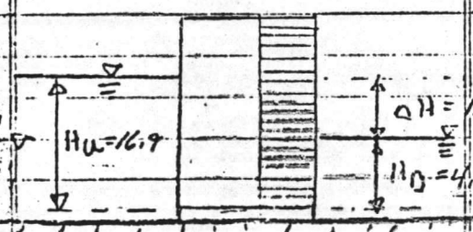
Mr. Wooten, Natural Resources Department, reviewed the original Environmental Engineering Survey for changes and updating, and did not report any changes or additions (enclosure (3)).

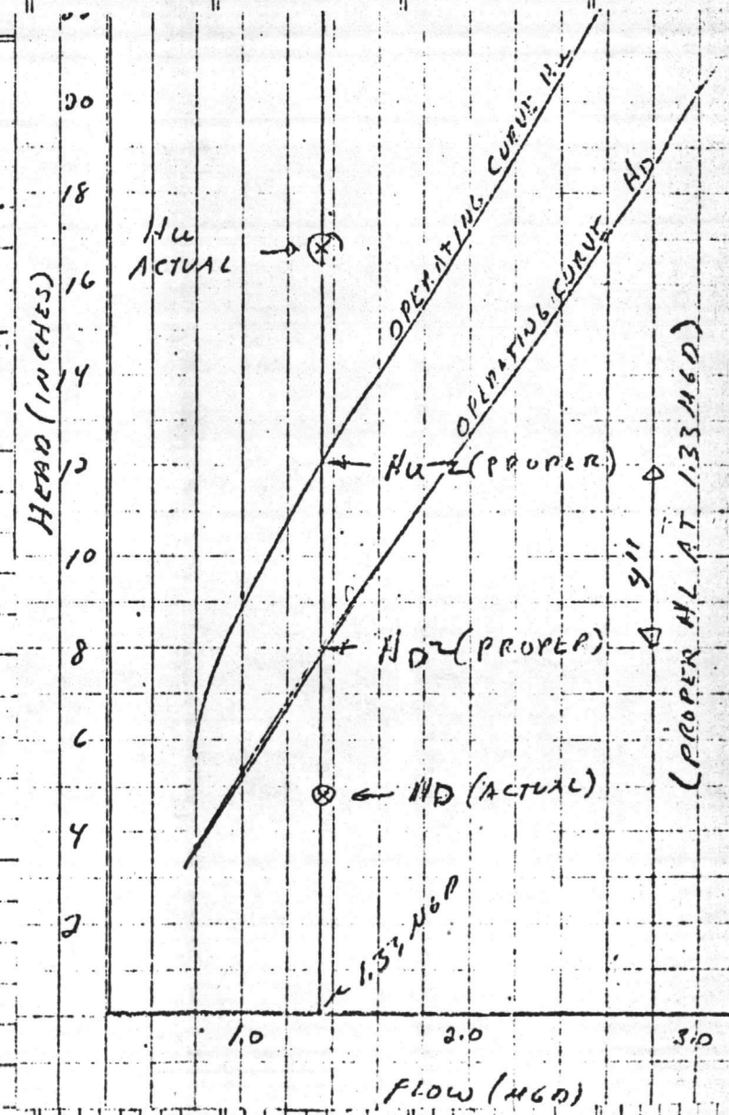
WORTHINGTON 20-6 COMMINUTOR

CHANNEL WIDTH = 2.5', DATUM C = .18 FT CUTTER HT. = 24.25"

FLOW (MGD)	.8	1.0	1.6	2.0	3	4
MGD/FT WIDTH	.32	.4	.64	.8	1.2	1.6
FLOW CFS	1.24	1.54	2.47	3.1	4.64	6.2
WATER HT. CFS/2.5 =	0.5'	0.62	0.99	1.01	1.86	2.47
DATUM C −	0.18	0.18	0.18	.18	.18	.18
H_D − FT.	0.32	0.44	0.81	1.06	1.68	2.29
X 12 = H_D inches	3.8"	5.27"	9.72"	12.72	20.16"	27.5"
ΔH (FROM CATALOG) +	2"	3.8	4.5	4.5	5.0	7"
H_U	5.8"	9.07	14.22	17.22	25.16	34.5"
% Sub. H_U/24.25	24%	37%	60%	71%	104%	150%







ENCL (1)

MARINE CORP BASE CAMP LEJEUNE
ENVIRONMENTAL ENGINEERING SURVEY

On 22 September 1977, the Environmental Protection Agency (EPA) cited Marine Corps Base, Camp Lejeune, as a "major pollutor" because of violations of the National Pollutant Elimination System (NPDES) Wastewater Discharge Permit NC0003239. The FY 80 Pollution Control MCON P-996 ($10,000,000) to provide NPDES/SPCC items" should correct all known wastewater/oil environmental deficiencies. The presently anticipated compliance schedule for this project is as follows:

Item	Date
Draft MPED from A & E	Mar 78
Final PED submission to NAVFAC	10 Jul 78
A & E completion of 100% design	Fourth quarter FY 79
AWARE Construction Contact	First quarter FY 80
Attain operational level	1 Jul 81

f. Boiler Feedwater Treatment Program

1. The detailed study of the chemical treatment of the boiler feedwater program was performed at the main central heating plant, Building 1700, Camp Geiger Steam Plant, and the New River Steam Plant. Areas of the study included: The external boiler feedwater treatment (softeners), the internal chemical treatment, residual concentrations, blowdown practices, condensate treatment, and the combined mechanical and chemical deaeration treatment. The program was found to be active, yet many deficiencies exist and require immediate corrective action.

2. Colonel C. D. Wood, Base Maintenance Officer, was advised verbally of the deficiencies noted in the boiler treatment program and advised of the need for technically trained personnel to intrepret the data to provide optimum boiler operation. Boiler operating and supervisory personnel seem to have difficulty in adjusting chemical dosages required due to the changing quality of the makeup water, which varies considerably in hardness, alkalinity and total dissolved solids. Hence, the major deficiency is the lack of technically trained personnel to administer this vital program. Utilization of trained personnel achieves a reduction in operational expenses, i.e., cost of fuel, chemical, etc., as well as increases the life expectancy of the boilers.

3. In depth discussion and recommendations are included in the ESR U7026 of February 1978.

ADDITIONAL ESR's

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ENVIRONMENTAL SURVEY DATA UPDATING

Mr. Wooten, Natural Resources Department, reviewed the original Environmental Engineering Survey for changes and updating, and did not report any changes or additions (enclosure (3)).

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ENVIRONMENTAL SURVEY DATA UPDATING

Mr. Wooten, Natural Resources Department, reviewed the original Environmental Engineering Survey for changes and updating, and did not report any changes or additions (enclosure (3)).

JJH

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

IN REPLY REFER TO
MAIN/JIW/th
4100
16 Feb 1978

From: Commanding General
To: Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia 23511 (Code 114)

Subj: Sanitary/Environmental Survey for Marine Corps Base, Camp Lejeune

Ref: (a) FoneCon btwn Mr. Jerry Harwood, NavFac, and Mr. Julian Wooten, BMaintDept, on 15 Feb 78

1. As requested in reference (a), the subject survey has been reviewed and no further comments are offered.

C. D. WOOD
By direction

ENCL (6)

p. 6

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

IN REPLY REFER TO
TRNG/JSC/th
5000

JUN 12 1978

From: Commanding General
To: Distribution List

Subj: Training and Environmental Protection

Encl: (1) CMC Green Letter No. 3-78

1. Enclosure (1) is forwarded for your information.

2. If my orders or those of higher headquarters in the area of environmental matters are inhibiting the accomplishment of training missions of your Command, it is requested that I be so advised.

FW Tief

F. W. TIEF

Copy to
Base Maint O

DISTRIBUTION:
CO H&S Bn
CO BaseMatBn
CO FMSS
CO MCES
CO MCSSS
CO RDJ
CO RRDet
A C/S Trng
A C/S PersSvc
A C/S SupSvc
A C/S Manp
→A C/S Fac
Inspector
SJA
PMO

FAC ROUTING

DEPARTMENT OF THE N[illegible]
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D. C. 20380

CMC-jas
23 May 1978

PERSONAL

GREEN LETTER NO. 3-78

From: Commandant of the Marine Corps
To: All General Officers

Subj: Training and Environmental Protection

1. An increasing awareness and genuine concern for the environment on the part of governments and the general public have been evident in recent years. This situation has fostered a number of federal, state, and local agencies which are concern with the quality of the environment and preservation of natura resources. Marine Corps installations have joined with these agencies in cooperative efforts that have produced some commendable environmental initiatives.

2. The need to live in harmony with nature is not a new idea among Marines. The Marine Corps commitment to preservation of the environment is underscored by such traditional training practices as field sanitation procedures, area police, filling of foxholes prior to departure from training areas, and proscription against indiscriminate cutting of trees and shrubs. The administrative procedures implementing the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and related Executive issuances are available to you. They must be followed in order to satisfy the requirements of the laws and to minimize the impact of training exercises. If additional support or assistance in following these procedures is required, be assured that this Headquarters stands ready to provide such assistance.

3. Adherence to Marine Corps ecological policy requires that all actions be planned and carried out in such a manner as to avoid adverse effects on the quality of the environment, insofar as practical. It is not intended or expected that this policy should place undue restrictions on Fleet Marine Force (FMF) training. FMF units must not be encumbered unnecessarily with restrictions on the use of training areas and facilities. Combat readiness of the FMF remains paramount, and realistic training opportunities essential to combat readiness must be preserved.

PERSONAL

4. I believe we can fully carry out our legal and moral responsibilities for preservation of the environment without degrading our training effort. Marines can continue to train in harmony with the environment, as they always have, without adverse effect on the quality of training or the quality of the environment.

5. I ask that you continuously review environmental programs to ensure that a proper balance is maintained between our responsibility for preserving the quality of the environment and the special trust which we hold as Marines--that of maintaining the highest possible state of combat readiness for the preservation of National Security.

LOUIS H. WILSON

	ACTION	INFO	INITIAL
BMO		✓	
ABMO		✓	BWR
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF		✓	
SECRETARY			
F&A BRANCH			
UMACS			
MME			

Julian notes

Files on this subject

F.W.
25 July 76

Dynamic water
for irrigation

LTC Bailey -

I thought you (& Mr. Wooten) might be interested in this exchange.

Curt Jack

DEPARTMENT OF THE NAVY
OFFICER IN CHARGE
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO:
43-10:CAT:jj
6240
8 June 1978

Captain E. R. Oscarson, CEC, USN
Vice Commander
Atlantic Division, Naval Facilities
Engineering Command
Norfolk, Virginia 23511

Dear Captain Oscarson:

While this is really a business letter, I am using the personal format because it permits me to speak more candidly and so that you may put as much or as little stress, from your level of the organization, on the problem and recommendation as you might wish.

The subject is Environmental Protection considerations in our construction contracts. In this area we are in the position of trying to enforce in (or force upon) the construction industry the changing social value that has already been legislated.

With that preliminary comment, our experience would indicate that when problems with environmental protection develop, there will likely be erosion control problems. For instance, we have recently been experiencing just such problems with the major construction projects here at Camp Lejeune. (Lejeune, by the way, is very "environment conscious".) Samples of run-off water are routinely taken at many places by Marine Corps Base Environmental Protection personnel. They have advised us that the run-off from our construction sites often has concentrations of suspended solids far in excess of the limits allowed by State and Federal law. They also routinely file reports of those findings with various government agencies. Also, a soil scientist from the Soil Conservation Service, U. S. Department of Agriculture recently visited a number of our major construction sites (at the invitation of the Base) and made a number of gratuitous recommendations.

Some of the things the USDA representative suggested were things that both (a) we either had thought of or should have thought of, and (b), we have some realistic hope of getting a contractor to do because they are either fairly common practice, relatively cheap and easy, or sufficiently highlighted in the contract documents. This kind of thing includes such measures as burlap fences, minimal areas stripped of vegetation, etc. But some of his ideas do not fit these conditions. He suggested at one site, for example (but only at one site), a large

settling basin similar to that envisioned by the Environmental Protection section of the project specs. Such a structure would obviously require some engineering design, bears on site space considerations and would mean an expenditure of resources which, it is probably safe to assume, the contractors would not put into their bids unless it was shown on the plans or emphasized some other way. (Enforcing such a measure at this time on this particular job does not seem proper since the work is over 65% complete, and such a measure should be the very first construction effort -- but the example serves). This leads us to suspect that the root problem at least in part, may stem from the fact that the "standard" spec for environmental protection is not sufficient for projects with major site work, and probably is not sufficient because it is apparently put in as a "boilerplate" section in a "boilerplate" division. We are quick to acknowledge that the section has far reaching provisions ("... shall comply with all federal, state and local regulations pertaining to [environmental protection]..."). We are also aware that there is much to be said, from the EFD's point of view, for the idea of a general requirement which the ROICC can presumably tailor to fit the particular site. But most maintenance work, for example, doesn't require more than cursory attention to environmental protection. In such a case, the stated requirement for an Environmental Protection Plan is often waived. In fact, perhaps it's admitting a shortcoming of mine and/or my predecessor, but, my checking so far indicates that on most jobs where the Plan is actually existant, it turns out to be little more than a requote of the specification.

All the above leads us to the recommendation that in the design of major projects (at least all MILCON), the use of the "standard" environmental protection clauses should be foregone, and that a section should be written which takes the specific problems of that particular site and project into account. In other words, the environmental protection section of the specification should be "site adapted" also, presumably by the A&E. The plans should, by a bold note, call attention to the proper section of the specification. The specification in turn, should delineate the specific soil conditions on the site and the particular laws and regulations, by title and number, which must be complied with. We have in-house disagreement as to whether the plans and specs should call out the particular preventive measures which must be met during construction (to include the need for a sediment basin if, but only if, the conditions of that site dictate, the size and shape of any such basin, topo plans and contours for any required temporary terracing, etc). The main arguement for such an approach would seem to be a lack of expertise on the part of most contractors amd most ROICC offices. The main arguement against such an approach is a reluctance to specify techniques or to design anything (such as a settling basin) which is not an end product of the construction (in the same way that landscaping or the building itself is). Most of us here would vote for the former; I, for one, do not fear the idea of specifying techniques. In either case, the specification should state such things as

43-10:CAT:jj
62470
8 June 1978

maximum allowable concentration of suspended solids in parts-per-million, and the contractor's responsibility for effluent monitoring should be elaborated in some detail. Consideration should be given to adding, on sufficiently large jobs, a requirement for the contractor to hire a consultant Environmental Engineer (who would be subject to OICC approval) to prepare and supervise the implementation of the Environmental Protection Plan during the life of the contract -- in much the same way we now require a CQC representative on the contractor's rolls.

None of the above is intended to be critical in any way of any individual but is offered in a constructive mood. The matter would seem to have some urgency in that the plans and specifications for the FY-79 MILCON Program are nearing completion and some of those projects (including the new hospital) should have an environmental protection specification which has been especially written for the particular site.

Sincerely,

C. A. TACK

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.

IN REPLY REFER TO:

6 JUL 1978

All - I'm planning to call Capt O to discuss this further. Pls give me whatever input you think appropriate ASAP. CS 7/7

Dear Curt:

Your letter of 8 June 1978 relative to the erosion control aspects of our construction packages has been reviewed with mixed emotions. There are both pros and cons for most of the items listed which are potentially troublesome in field administration of contracts.

We are still in a trial stage as far as implementation of erosion control measures is concerned Navy-wide. The general language you referenced in the guide spec was developed by NAVFAC for use by all EFDs, and while it is certainly not a perfect document, we are adjusting the language on a case-by-case basis to fit a particular situation. You have a unique situation there at Camp Lejeune in that you are the only activity who developed a local version and insists that it be used on every contract regardless of whether there is a particular need. It does put pressure on a ROICC organization to ensure that a workable environmental protection plan is submitted and adhered to by the contractor; to date, we have very little feedback that this is being enforced in the field. We have no evidence at this time that other activities or ROICCs are experiencing any specific problems, however, so our feedback system could be weak.

Not True This is a misunderstanding.

We can easily show some design features on drawings to supplement the specifications, such as sediment basins and/or straw bale arrangements, but we place ourselves in the position with modern-day "contractors" with "what you show is what you get as I interpret the documents". Furthermore, when we start specifying construction sequencing and the like, we are usurping the innovative provinces of the contractor and relieving him of one of the most important processes in bidding and constructing, with a possible resultant rise in costs and time to build. Nevertheless, we are experimenting with this feature, as a contract currently out for bids in the Norfolk area has a complete (we hope) protection plan, including sequencing of the site and utilities work. We won't know the full effects of this innovation for some time, but it will be interesting to see what prospective contractors have to say about it. Whatever the results, they will be used to upgrade our current guide when enough data has been developed to draw some conclusions.

This dialogue may not give you a hard-and-fast answer to your local problems as you would prefer, but it represents the "state-of-the-art" as we see it now from a Navy overview. We will continue to monitor the statistics and adjust to meet continually changing criteria and regulations, not to mention contract administration problems. Your personal concern is understood and appreciated, and I hope you will gain some assurance by this exchange.

Keep the pressure on your ROICC staff to be alert and insist that contractors comply with the current specifications and give you a good, workable protection plan - then make him follow up and execute accordingly!

Best regards.

Sincerely,

E. R. Oscar

E. R. OSCARSON
Captain, CEC, USN
Vice Commander

Commander C. A. Tack, CEC, USN
Resident Officer in Charge of
Construction
Jacksonville, North Carolina Area
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/WAN/th
6240
1 June 1978

WAN

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

Subj: Environmental Correspondence

Ref: (a) FoneCon btwn Mr. Kearns, HQMC, and Mr. Neal, BMaintDept, on 1 Jun 78

Encl: (1) EPA ltr of 26 May 78
(2) LantDiv ltr 114:DPG 6240 of 5 Jul 77

1. In response to reference (a), enclosures (1) and (2) are forwarded for your use and retention.

C. D. WOOD
By direction

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30308

May 26, 1978

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

Attention: Base Maintenance Officer

Dear Sir:

To confirm my conversation with Mr. Julian Wooten on May 26, 1978, the Environmental Emergency Branch recommends that all spills of petroleum products on base property be reported to the Base Fire Department. This allows the Base Maintenance Office to keep tabs on the contract suppliers and any accidental spillage on base property.

In regards to reporting spills to other Federal agencies, the U.S. Coast Guard and the Environmental Protection Agency should be notified of any oil spill that has any possibility of reaching "waters of the U.S." When a spill on the land occurs and the potential for reaching water is negligible, then EPA would like to be notified of spills greater than 25 gallons.

Thank you for your concern in the prevention of any oil spill.

Sincerely,

Allen S. Bartlett

Allen S. Bartlett
Environmental Emergency Branch
Enforcement Division

ENCLOSURE (1)

AUTOVON 690-7313
IN REPLY REFER TO:
114:DPG
6240

06 JUL 1977

U. S. Environmental Protection Agency
Region IV
Water Enforcement Branch
1421 Peachtree Street, NE
Atlanta, GA 30309

Attention: Federal Facilities Branch

Gentlemen:

As requested in the 28/29 April 1977 meeting at Marine Corps Base, Camp Lejeune, the enclosed draft scope of work and a map of the storm drain monitoring program are herein submitted. The anticipated compliance schedule for this FY 80 pollution control MILCON Project is as follows:

ACTION	DATE
Initiate monitoring	1 July 1977
Submit 1391	1 October 1977
Obtain funding	1 January 1978
Prepare A & E Contract	1 April 1978
Advertise A & E Contract	1 July 1978
Award A & E Contract	1 October 1978
Initiate A & E Contract	1 November 1978
Complete A & E Contract	1 May 1979
Advertise construction contract	1 July 1979
Award contruction contract	1 October 1979
Initiate construction	1 November 1979
Complete construction	1 May 1981
Attain operational level	1 July 1981

In addition to the elimination of the New River Sewage Treatment Plant, the Camp Geiger Water Treatment Plant and the upgrading of the Camp Geiger Sewage Treatment Plant, the basic agreed upon commitment involves obtaining essentially a zero discharge system for the miscellaneous industrial/oily wastes:

1. WTP: Elimination of the approximately 0.5 MGD of wastewater from the 8 remaining water treatment plants

2. CT: Concerning the 24 water cooled cooling towers remaining from the 64 listed in the 1972 survey, this Command herein agrees to immediately eliminate the discharge of the once per year cleaning wastewater discharge from all (60) cooling towers and to eliminate the 1 remaining operational discharge (0.001 MGD) with either a sanitary connection or conversion to an air cooled system. In addition, only EPA approved additives

ENCLOSURE (2)

will be used.

3. Boilers: Elimination of the 14 boiler house wastewater discharges (approximately 0.050 MGD) via sanitary connections.

4. Pools: Elimination of the 6 pool discharges (approximately 0.18 MGD). It is understood that the revised permit will allow discharge of the yearly pool drainages.

5. Septic Tanks: Seventeen (17) of the 39 septic tanks/tile field systems listed in the 1972 survey have been eliminated. The Amtrack system is being eliminated. The MILCON will eliminate at least 1 more system leaving only 20 remaining systems.

6. Misc.: The Command agrees to maintain zero discharge from the 7 battery shops, the pest shops, the two paint shops, and the three photo shops, in addition, to discontinuing the use of cyanide in the photo shops and the neutralizing pits at the battery shops. The preparation/preservation/packaging shop rinse water (0.001 MGD) will be connected to the sanitary system.

7. Washracks: The existing 84 washracks will be reduced to 20 and the wastewater discharges eliminated via sanitary connections.

8. SPCC: A SPCC system will be provided to minimize the possible spills from the 69 waste oil systems; 53 maintenance shops, 46 grease racks, 39 POL storage areas, 146 fill pipes, 144 fuel tanks, 20 unloading areas, 8 fueling areas and 9 pumphouses. In addition, 19 above-ground fuel tanks will be buried, leaving only 10 areas with above ground fuel tanks. Seven (7) other operational discharges identified in the SCS survey will also be eliminated via sanitary connections (3 oil water separators, 1 wash basin, 2 coil pits, 1 crash crew area). Intermediate activity actions will also be taken (see ESR 7108).

9. OWS: 19 oil water separators with direct discharges (requiring permits) will be constructed for the 4 parking lots, 11 major fuel oil storage areas, 1 jet fueling area, and 3 streams.

10. Additional improvements: To provide flexibility the following items will also be included in the project; improvement of waste oil reclamation, correction of infiltration/inflow, upgrading of lift stations, modification of sewage treatment plants and provisions for water conservation.

Summary: To comply with the 1977/83/85 standards, Marine Corps Base, Camp Lejeune will eliminate 688 miscellaneous sources of industrial wastes, leaving only 7 sewage plants (and 6 yearly pool drainages) for dry weather discharges, in addition to 19 oil- water separators for wet weather discharges.

Your consideration of this complex situation is greatly appreciated.

Encl:
(1) Draft Scope of Work
(2) Map of Storm Drain Monitoring Program

Copy to:
MARCORB CAMP LEJEUNE

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	DWR
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL		✓	B W Bk
ENVIRON AFF	file	✓	[illegible]
SECRETARY			
F&A BRANCH			
UMACS			
MME			

NAVAL REGIONAL MEDICAL CENTER
CAMP LEJEUNE, N. C. 28542

IN REPLY REFER TO:
54:CRT:egb
6240/1
30 MAY 1978

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, N. C. 28542
Commanding General, Second Marine Division (REIN), FMF, Camp Lejeune, N. C. 28542
Commanding General, Force Troops/Second Force Service Support Group, FMFLANT, Camp Lejeune, N. C. 28542
Commanding Officer, Marine Corps Air Station, (H), New River Jacksonville, N. C. 28540

Subj: Occupational and Preventive Medicine Service Activities Report for April

Ref: (a) DIVO P6000.1E

1. The Occupational and Preventive Medicine Service (O&PMS), Naval Regional Medical Center is responsible for providing a full range of occupational and environmental health and preventive medicine support for the entire Camp Lejeune complex. A consolidated report of O&PMS activities and support provided during the month of April is hereby submitted for information, and to satisfy the requirements of reference (a).

PREVENTIVE MEDICINE

2. Bio-environmental Surveillance

	MCB/NRMC	DIV	FT	MCAS(H)
a. Bio-environmental Inspections	155	24	16	16
b. Nosocomial Infection Control Surveys	95	00	00	00

c. LTJG P. R. SANDOVAL, MSC, (Environmental Health Officer and HMC A. L. SORENSEN (Operations Chief) attended the FMFLANT Medical Conference conducted 4 - 6 April 1978. The keynote speaker was Rear Admiral E. P. RUCCI, MC, CINCLANT Surgeon. The topic of discussion was the training and readiness of FMFLANT Hospital Corpsman.

d. O&PMS Surveillance Section conducted a bio-environmental sanitation inspection of a bake sale at Berkeley Manor Elementary School on 12 April and a PTA sponsored spaghetti supper at Brewster Junior High School on 13 April. These inspections were in response to a request to the CG, MCB for approval of the function which was routed via O&PMS for endorsement. Unfortunately, many Base organizations do not route such requests via O&PMS which results in "after the fact" notification that food had been served. If such a request is received for final approval and it lacks an O&PMS endorsement, it should be readdressed to O&PMS before consideration for final approval.

e. On 28 April the Chief, O&PMS and representatives of MCB and Cherry Point Base Maintenance Utilities and NREAD Divisions met with Mr. C. E. RUNDGREN, Head, Water Supply Branch, Sanitary Engineering Section, N. C. Department of Human Resources, Raleigh to discuss the State's role in im-

plementation of the Safe Drinking Water Act, PL93-523. The law allows the State to apply for and receive primary enforcement authority ("primacy"). According to Mr. RUNDGREN, the State intends to assume primacy; however, at this time the General Assembly has not acted to provide funding which means that it will probably be sometime in 1979 before the state can assume its full role. The most troublesome portion of the law has to do with public notification when a primary maximum contaminant level(PMCL) is exceeded. Details of how this is to be done at CLNC and at C. P. are being worked out between the various Divisions involved.

f. In March the CG, 2d FSSG was notified that the potable water source (a shallow well) for MOOSE, Oak Grove had become bacteriologically contaminated and should not be used as potable water unless chlorinated. The situation has not changed. Currently, potable water needs are being inadequately met by batch chlorination in water buffaloes. Until an approved, adequate and safe potable water source can be provided, either from the Jones County Water System or from a gas chlorinated well source, the improvised system currently in use must be continued.

3. Communicable Disease Control

a. Sexually Tramsmitted Diseases (STD)

	Quad Command		MCB/NRMC		2d Mar Div		FT/2dFSSG		MCAS(H)	
Disease Diagnosed	Mar	April	Mar	APR	Mar	Apr	Mar	Apr	Mar	Apr
Gonorrhea	~~85~~ 95	95	12	14	50	63	30	17	03	01
Syphilis	02	02	00	00	01	01	01	01	00	00
Lymphogranuloma Venereim	00	00	00	00	00	00	00	00	00	00
Chancroid	00	00	00	00	00	00	00	00	00	00
Incidence Rates/1000	2.29	2.59	2.6	3.25	2.7	3.25	2.1	1.83	0.63	0.22

(1) Trends: The overall Quad-Command STD Incidence Rate increased slightly from a 2.29 I.R. last month to a 2.59 I.R. for April; MCB/NRMC and 2d MarDiv both displayed moderate increases with identical 3.25 Incidence Rates. FT/2d FSSG and MCAS(H) had slight decreases over last month.

(2) Number of STD cases reported from deployed units: 07

(3) Total STD Clinic Consultations: 891

b. Total Lab Tests Performed: 4,357

	MCB/NRMC	DIV	FT	MCAS(H)	Total
c. Immunizations	111	03	16	227	357
d. Health Card Examinations	246	06	34	08	294
e. Tuberculin Skin Tests	135	04	18	172	329

4. Training

	Class Length	MCB/NRMC	DIV	FT	MCAS(H)
Food Service Sanitation (Basic)	6 hrs	17	00	00	00
Food Service Sanitation (Refresher)	3 hrs	23	40	00	00
Food Service Managers	15 hrs	24	00	00	00
Field Sanitation	1 hr	00	00	20	00
Habitability	1 hr	00	00	20	00
Quarantine Regulations	1 hr	00	00	20	00
STD Training	2 hrs	00	05	110	00
Hearing Conservation	1 hr	00	05	00	00
Total		64	50	170	00

a. On 27-28 April HMC BARNETT presented STD lectures to the Biology classes at Lejeune High School. Total attendance for the two day period was 581 students.

5. Insect Vector Control

a. Collection of mosquitoes from the 12 light traps, located around the Base, was begun. Mosquitoes collected are identified as to genus and species. This information is then used for Control Measures by IVC and for future reference purposes.

b. LT J. H. ZIMMERMAN, MSC (Entomologist), began a small plot tick project in conjunction with the U.S.D.A. - ARS, Insects Affecting Man Laboratory, Gainsville, Fla. LT ZIMMERMAN is the CINC project coordinator.

OCCUPATIONAL HEALTH

	MCB/NRMC	DIV	FT	MCAS(H)
6. Industrial Hygiene Surveys	01	00	00	01
7. Noise Hazard Surveys	00	00	00	00
8. Microwave Oven Surveys	00	00	00	00
9. Lighting Surveys	00	00	00	00

10. A mercury spill occurred in the storage room of the Sexually Transmitted Disease Laboratory. The spill was attributed to an anometer with dislodged tubing and stoppers. Appropriate clean-up procedures were undertaken by the Industrial Hygiene Section and approximately 179 grams (6.3 oz.) of Mercury were recovered and disposed of by the Environmental and Quality Control Laboratory.

OTHER

11. Four (4) Command Evaluation Program (CEP) inspections were conducted.

C. R. Thompson

C. R. THOMPSON
by direction

Copy to:
DivSurg
CO, 2d Med Bn
Health ServSupp Off, 2d FSSG
O&PMS, Cherry Point
Base Maint. Off (Attn: NREAD & Utilities)

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

25 May 1978

From: Assistant Maintenance Officer
To: Base Housing Officer

Subj: Water Analysis, MCAS 1242

1. As requested, copies of various water analysis are attached with comments. Please advise if we can be of further assistance.

B. W. ELSTON

Copy to:
NREA

OPNAV 5216/144 (REV. 6-70)
S/N 0107-LF-778-8099

DEPARTMENT OF THE NAVY

Memorandum

D/mD

DATE: 25 May 1978

FROM Quality Control Laboratory

TO Mr. Neal, NREAD

SUBJ Water Analysis Of MCAS And 1242

1. The most recent weekly chemical analysis form and the one conducted during the week of 9 May 1978 is enclosed. A chemical analysis of MCAS, building 1242 for 10 and 11 May 1978 is also enclosed. These tests show normal ranges in the air station water supply.

2. In addition to the chemical test, a bacteriological test was conducted from a sample collected at MCAS building 1242. The results of this test show no coliform bacteria were present.

3. The MCAS water supply is checked weekly for bacteria and chemical concentrations. These tests are conducted to assure a continous supply of safe water to the consumers. In addition, water plant operators conduct daily tests at the water plant and in the distribution system to assure a good quality of drinking water.

4. The Air Station water treatment plant has resently been modified to produce a greater quantity of water at a higher quality than in the past. The water is disinfected, softened, filtered and conditioned during the treatment process. The water delivered to the Air Station water consumers is good water and satisfies Navy, Marine Corps, and Safe Drinking Water Act requirements. The Quality Control Laboratory tests the water to assure that these high standards are met. Water consumers will be notified if the Air Station water does not meet Safe Drinking Water Act requirements.

Memorandum

From: Quality Control Laboratory

Date: 25 May 1978

To: Neal, NRAAD

Subject: Water Analysis of MOAS and IZAZ

1. The most recent weekly chemical analysis form and the one conducted during the week of 9 May 1978 is enclosed. A chemical analysis of MOAS, building IZAZ for 10 and 11 May 1978 is also enclosed. These are the above normal tests in the air station water supply.

2. In addition to the chemical test, a bacteriological test was conducted from a sample collected at MOAS building IZAZ. The results of this test show no coliform bacteria were present.

3. The MOAS water supply is checked weekly for bacteria and chemical concentrations. These tests are conducted to assure a continuous supply of safe water to the consumers. In addition, water plant operators conduct daily tests at the water plant and in the distribution system to assure a good quality of drinking water.

4. The Air Station water treatment plant has recently been modified to produce a greater quantity of water at a higher quality than in the past. The water is disinfected, softened, filtered and conditioned during the treatment process. The water delivered to the Air Station water consumers is good water and satisfies Navy, Marine Corps and Safe Drinking Water Act requirements. The Quality Control Laboratory tests the water to assure that these high standards are met. Water consumers will be notified if the Air Station water does not meet Safe Drinking Water Act requirements.

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 23 MAY 78

Parameter	HADNOT POINT	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	7.4	7.3		7.4	7.4	7.7	7.6	8.4	7.6
PHENOLTHALEIN ALKALINITY	0	0		0	0	0	0	4	0
METHYL ORANGE ALKALINITY	158	216		214	160	160	180	72	272
CARBONATES AS $CaCO_3$	0	0		0	0	0	0	8	0
BICARBONATES AS $CaCO_3$	158	216		214	160	160	180	64	272
CHLORIDES AS Cl	10	14		10	16	12	44	10	90
HARDNESS AS $CaCO_3$	184	56		280	76	88	44	68	64
IRON AS Fe	0.09	0.19		0.09	1.04	0.12	0.03	0.0	0.0
TOTAL PHOSPHATE		1.36							
ORTHO PHOSPHATE		1.36							
META PHOSPHATE		0.0							
FLUORIDE	0.62	0.11		0.89	0.0	0.0	0.03	0.15	1.00
CHLORINE RESIDUAL	0.8	1.4		0.9	NOT RECORDED	1.0	0.8	0.8	1.3
REMARKS: TURBIDITY	0.14	0.58		0.80	0.48	0.36	0.40	0.52	0.54

NO LIME BEING FED at TT or HP PLANTS

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: EAKES, VICK, & BURNS

DATE OF ANALYSIS: 24 MAY 78

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 23 MAY 78

Parameter	HADNOT POINT	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	7.4	7.3		7.4	7.4	7.7	7.6	8.4	7.6
PHENOLTHALEIN ALKALINITY	0	0		0	0	0	0	4	0
METHYL ORANGE ALKALINITY	158	216		214	160	160	180	72	272
CARBONATES AS $CaCO_3$	0	0		0	0	0	0	8	0
BICARBONATES AS $CaCO_3$	158	216		214	160	160	180	64	272
CHLORIDES AS Cl	10	14		10	16	12	44	10	96
HARDNESS AS $CaCO_3$	184	56		280	76	88	44	68	64
IRON AS Fe	0.09	0.19		0.09	1.04	0.12	0.03	0.0	0.0
TOTAL PHOSPHATE		1.36							
ORTHO PHOSPHATE		1.36							
META PHOSPHATE		0.0							
FLUORIDE	0.62	0.11		0.89	0.0	0.0	0.03	0.15	1.0
CHLORINE RESIDUAL	0.8	1.4		0.9	NOT RECORDED	1.0	0.8	0.8	1.3
REMARKS: TURBIDITY	0.14	0.58		0.80	0.48	0.36	0.40	0.52	0.54

NO LIME BEING FED at TT or HP PLANTS.

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: EAKES, VICK + BURNS

DATE OF ANALYSIS: 24 MAY 78

QUALITY CONTROL LABORATORY REP

MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
SUPPLY	WATER TREATMENT PLANT	11 MAY 78

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
MCAS 1242			
HOUSING		Ø	

REMARKS

SIGNATURE	DATE
H. J. Burns	12 MAY 78

COPY TO

- ☐ NREAD
- ☐ UTILITIES DIRECTOR
- ☐ WATER TREATMENT PLANT (GENERAL FOREMAN)
- ☐ BASE PREVENTIVE MEDICINE
- ☐ MCAS PREVENTIVE MEDICINE
- ☐ _____

QUALITY CONTROL LABORATORY REPORT

MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
SUPPLY	WATER TREATMENT	11 MAY 78

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
MCAS 1242			
HOUSING		Ø	

REMARKS

SIGNATURE H. J. Brown

DATE 12 MAY 78

COPY TO

- ☐ INREAD
- ☐ UTILITIES DIRECTOR
- ☐ WATER TREATMENT PLANT (GENERAL FOREMAN)
- ☐ BASE PREVENTIVE MEDICINE
- ☐ MCAS PREVENTIVE MEDICINE
- ☐ _____

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 9 MAY 78

Parameter	HADNOT POINT	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.4	7.5		8.9	7.3	8.0	7.9	8.4	8.4
PHENOLTHALEIN ALKALINITY	4	0		8	0	0	0	2	2
METHYL ORANGE ALKALINITY	68	202		36	162	154	188	78	288
CARBONATES AS $CaCO_3$	8	0		16	0	0	0	4	4
BICARBONATES AS $CaCO_3$	60	202		20	162	154	188	74	284
CHLORIDES AS Cl	22	~~18~~ 20		18	26	22	56	18	138
HARDNESS AS $CaCO_3$	80	46		74	84	80	44	70	66
IRON AS Fe	0.09	0.23		0.07	0.89	0.0	0.0	0.0	0.09
TOTAL PHOSPHATE		1.4							
ORTHO PHOSPHATE		1.3							
META PHOSPHATE		0.1							
FLUORIDE	0.70	0.11		1.12	0.05	0.11	0.11	0.60	1.15
CHLORINE RESIDUAL	0.8	1.3		0.9	1.0	1.0	0.8	0.8	1.5
REMARKS: TURBIDITY	0.34	0.44		3.0	0.64	0.24	0.22	0.20	0.62

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: VICK + LUKE

DATE OF ANALYSIS: 10 MAY 78

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 9 MAY 78

Parameter	HADNOT POINT	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.4	7.5		8.9	7.3	8.0	7.9	8.4	8.4
PHENOLTHALEIN ALKALINITY	4	0		8	0	0	0	2	2
METHYL ORANGE ALKALINITY	68	202		36	162	154	188	78	288
CARBONATES AS $CaCO_3$	8	0		16	0	0	0	4	4
BICARBONATES AS $CaCO_3$	60	202		20	162	154	188	74	284
CHLORIDES AS Cl	22	20		18	26	22	56	18	138
HARDNESS AS $CaCO_3$	80	46		74	84	80	44	70	66
IRON AS Fe	0.09	0.23		0.07	0.89	0.0	0.0	0.0	0.09
TOTAL PHOSPHATE		1.4							
ORTHO PHOSPHATE		1.3							
META PHOSPHATE		0.1							
FLUORIDE	0.70	0.11		1.12	0.05	0.11	0.11	0.60	1.15
CHLORINE RESIDUAL	0.8	1.3		0.9	1.0	1.0	0.8	0.8	1.5
REMARKS: TURBIDITY	0.34	0.44		3.0	0.64	0.24	0.22	0.20	0.62

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: VICK & LUKE

DATE OF ANALYSIS: 10 MAY 78

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date 10 MAY 78

Parameter	~~HADNOT POINT~~ MCAS 1242	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.45								
PHENOLTHALEIN ALKALINITY	6								
METHYL ORANGE ALKALINITY	274								
CARBONATES AS $CaCO_3$	12								
BICARBONATES AS $CaCO_3$	262								
CHLORIDES AS Cl	138								
HARDNESS AS $CaCO_3$	64								
IRON AS Fe	0.12								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
FLUORIDE	1.17								
CHLORINE RESIDUAL	0.2								

REMARKS:
TURBIDITY 0.90

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: VICK + BURNS

DATE OF ANALYSIS: 10 MAY 78

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 10 MAY 78

Parameter	~~HADNOT POINT~~ MCAS 1242	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.45								
PHENOLTHALEIN ALKALINITY	6								
METHYL ORANGE ALKALINITY	274								
CARBONATES AS $CaCO_3$	12								
BICARBONATES AS $CaCO_3$	262								
CHLORIDES AS Cl	138								
HARDNESS AS $CaCO_3$	64								
IRON AS Fe	0.12								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
FLUORIDE	1.17								
CHLORINE RESIDUAL	0.2								

REMARKS:
TURBIDITY 0.90

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: VICK + BURNS

DATE OF ANALYSIS: 10 MAY 78

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 11 MAY 78

Parameter	~~HADNOT POINT~~ MCAS 1242	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5								
PHENOLTHALEIN ALKALINITY	8								
METHYL ORANGE ALKALINITY	258								
CARBONATES AS $CaCO_3$	16								
BICARBONATES AS $CaCO_3$	242								
CHLORIDES AS Cl	120								
HARDNESS AS $CaCO_3$	48								
IRON AS Fe	0.0								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
FLUORIDE	1.15								
CHLORINE RESIDUAL	NOT NOTED								

REMARKS:
TURBIDITY 0.48

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: VICK

DATE OF ANALYSIS: 12 MAY 78

CHEMICAL ANALYSIS - WATER
MCBCL 11330/3 (REV 8-74)

Date COLLECTED 11 MAY 78

Parameter	~~HADNOT POINT~~ MCAS 1242	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5								
PHENOLTHALEIN ALKALINITY	8								
METHYL ORANGE ALKALINITY	258								
CARBONATES AS $CaCO_3$	16								
BICARBONATES AS $CaCO_3$	242								
CHLORIDES AS Cl	120								
HARDNESS AS $CaCO_3$	48								
IRON AS Fe	0.0								
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
FLUORIDE	1.15								
CHLORINE RESIDUAL	NOT NOTED								

REMARKS: TURBIDITY 0.48

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY: VICK

DATE OF ANALYSIS: 12 MAY 78

5 MAY 78

D/mo

Some Lawyer from Cmc called Jim Kearns yesterday in response probably to our Base Purchasing & Contracting office — Capt Kneed has spent most of the last month researching SPCC Regs etc for loopholes and he finally has one — but I'm not sure we should give over —

His Hangup is on our Recom to Report Spills regardless of Size —

A. The new Draft SPCC currently being reviewed by SPCC would Allow this —

B. The new Msge from Cmc (about 2-3 wks old) would allow this subjectivity in Reporting.

C. The current BO on SPCC requires SPILL Reporting (so the only way we could compromise would be after the change of this BO)

D. The Truck Drivers (Contractor) (fuel hauler), with the change, will be in the position of exercising subjectivity

[All Spills that we Spill ARE less than 1921]

2. I Am Not Sure that we want to Pass this Perogative to A Pot. contractor even though we know that everytime

they spill 2 drops, we can't really expect a report.

You might give this some thought as apparently Capt Sheed doesn't have anything to do except Research env. Regs.

VR
WAN

Ret to Files

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
4 May 1978

From: Base Maintenance Officer
To: Purchasing and Contracting Officer

Subj: Proposed fuel hauling contract

Ref: (a) P&C ltr PC/WAT/mmm 4200 of 5 Apr 78

Encl: (1) Subject Contract

1. As requested in reference (a) subject contract has been reviewed and the following comments are offered:

a. On page 4, F-5, subparagraph (a), "1949" should be changed to "1948."

b. On page 7, F-9, delete subparagraphs (1) through (3) and add the following:

(1) All oil spills will be reported to the Base Fire Department, extension 3333, immediately.

(2) All delivery trucks will be equipped with a shovel which can be used by the driver to temporarily contain spills.

(3) The government will provide the contractor with the opportunity to clean-up the spills or to reimburse the government for the clean-up of the spills (except those described in subparagraph (5)).

(4) If the contractor fails to commence clean-up action at the scene within two hours of notification, the government will deem such a failure to act as a request for the government to clean-up the spill and bill the contractor.

(5) When the spill is of such a nature as to endanger facilities or property, or pose a potential water pollution problem, the government will take immediate steps to contain and clean-up the spill without prior notification to the contractor and bill the contractor for such efforts.

C. D. WOOD

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/WAN/th
6240/11
3 Feb 1978

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

Subj: Oil spills associated with heating oil deliveries to Base Quarters; report concerning

Ref: (a) BMO ltr MAIN/WAN/th 6240/11 dtd 12 Jan 78

1. As a follow-up concerning the above subject and the request contained in reference (a), it is reported that the heating oil contractor continues to spill fuel oil around quarters, on quarters, and in the street, at a rate equal to or greater than any witnessed to date. Recent examples are in the Paradise Point Area, Tarawa Terrace, on Ash Street and on the loading ramp in front of Building 1002. It is obvious that actions by this contractor are not being dealt with in an effective manner. It is further emphasized that responsibility for such pollution is ultimately the responsibility of the Base Commander and cannot be shifted to a private contractor whose services are funded by this activity.

2. It is recommended that the contractor be specifically advised of base responsibility pertaining to oily waste pollution abatement and that although automatic shutoff valves may represent a good solution, in the interim, a practical corrective action consists of careful attention to the fuel transfer delivery job by oil delivery truck drivers.

3. Please advise this office of actions taken to correct the subject problem.

C. D. WOOD

Copy to:
SJA
P&C

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
3 February 1978

From: Base Maintenance Officer
To: Staff Judge Advocate

Subj: Hadnot Point Oil Spill (Building 1002) of 10 Jan 1978; recommendation concerning

Ref: (a) BO 11090.1A
(b) FoneCon btwn Mrs. Perkins, Base Housing, and Mr. Neal, BMaintDept, on 1 Feb 78

1. The subject oil (kerosene) spill of approximately 50 gallons resulted from negligence on the part of a Great Gas and Oil Company truck driver and is a violation of reference (a).

2. During reference (b) Base Maintenance Department personnel were advised that the contractor is responsible for oil spill cleanup. Therefore, it is requested that your office proceed to recover the cost of cleaning up the subject oil spill which totaled $116.70 and is itemized as follows:

a.	Labor	$98.83
b.	Equipment	$ 6.27
c.	Vehicle	$11.60

C. D. WOOD

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/WAN/th
6240
10 Feb 1978

From: Base Maintenance Officer
To: Purchasing and Contracting Officer

Subj: Federal Regulations Concerning Oily Waste Discharge

Ref: (a) FoneCon btwn Maj HARRIS, Purchasing & Contracting, and Mr. Neal, BMaintDept, on 10 Feb 78

1. In response to reference (a), the following comments are offered for your use in rewriting contract specifications to help abate oil pollution associated with heating oil contractors.

2. The Federal Water Pollution Control Act of 1949 is the basic legislation involved, here. More specifically, 1973 amendments to the original act, now known as the "Clean Water Act," require actions on the part of private corporations but more particularly on the part of federal agencies to insure that oily waste is not discharged in such a manner that pollution or contamination of navigable waterways could occur. These same amendments require an extensive monitoring and reporting program where in our case, we "in effect" report Marine Corps Base oily waste violations on a quarterly basis, and in the case of spills, more often. This law is so specific and all inclusive that any source that may produce an oily waste concentration of 15 parts per million requires treatment by some sort of abatement measure, i.e., oil/water separator, tie-in to sanitary sewer, etc.

3. The Marine Corps document which addresses these specific water pollution abatement requirements is MCO P11000.8A.

4. If there are further questions or means by which we can be of assistance, please don't hesitate to call on me.

WENDELL A. NEAL
By direction

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION
Base Maintenance Department
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
24 May 1978

Mr. Dennis Kaiser
J. K. Timmons & Associates
1314 West Main Street
Richmond, Virginia 23220

Dear Mr. Kaiser:

As requested by telephone on 22 May 1978, a copy of the modified NPDES permit which authorized the base to discharge at the Camp Geiger sewage treatment plant is forwarded. It is understood the permit will be included in the Operation and Maintenance Manual for the Camp Geiger Plant which is being prepared by your firm.

Sincerely,

WENDELL A. NEAL
Director

Enclosure

25 July 78

Bmo

This is an advance copy — of what the Base will receive —

R

WAN

NEA.

Wendell, Thurber

File

ENVIRONMENTAL REVIEW

MCB, CAMP LEJEUNE, N. C.

22-24 MAY 1978

J. M. KEARNS, JR., ENVIRONMENTAL ENGINEER, HQMC

I contacted the following personnel:

Col. J. KOVAC	AC/S of Facilities
Col. D. WOOD	Maintenance Officer (by telecon only)
LTCOL BAISLEY	Assistant to Assistant Chief of Staff of Facilities
Mr. Al AUSTIN	Construction Program Coordinator
Mr. Wendell NEAL	Nat. Resources and Environ. Affaiirs Off.
Mr. Julian WOOTEN	Base Ecologist
Mr. Billy ELSTON	Assistant Maintenance Officer
Mr. Wallace EAKES	Chemist
Capt. TWEED	Base Procurement Officer

Matters discussed and/or field inspections performed are summarized as follows:

1. SANITARY LANDFILL: The landfill was active at the time of on-site visit. Some litter was blowing near the operation, but had not accumulated. Some water was visible in open cell, could have been ground water or surface runoff from rain. Camp Lejeune is applying to state for permit. State will advise concerning acceptability. May be some problem with high water table.

RECOMMENDATION: None at this time pending review and inspection by state officials.

2. SEWAGE TREATMENT: On-site visit to Court House Bay plant did not reveal any unusual conditions. Base had normally met NPDES permit limitations except for Camp Geiger plant which apparently is affected by an industrial waste discharge to the plant from the air station aircraft washing operations. The Base has requested NAVFAC assistance.

RECOMMENDATION: Base should identify necessary corrective actions for Camp Geiger plant as soon as possible. *

New item Noted

3. Waste/Wastewater Laboratory: Base has recently occupied excess Navy space and was installing atomic absorption and total carbon analyzer equipment. Laboratory appeared to need improved ventilation and air conditioning to remove toxic vapors from lab tests and to provide suitable humidity/temperature control for sensitive equipment. X

RECOMMENDATION: Base should also ensure that fire/safety requirements are met and ensure that humidity/temperature control is satisfactory. X

4. SEDIMENT: Sediment from new facility construction and some operational areas was visible and may violate state regulations.

RECOMMENDATION: Headquarters Marine Corps should specifically include sediment control as a possible pollution source. Base should review procedures to ensure that adequate sediment control is provided in accordance with state regulations.

5. OIL POLLUTION: On-site visit to various locations revealed extensive violations of oil pollution regulations as described below:

a. Amtrac Maintenance Facility. is located 50 feet from Court House Bay. Waste oil tank was full. Tubs of oil were around waste oil tank. Soil was saturated with oil.

Amtracs were being maintained on concrete apron. Various petroleum products were clearly visible flowing from maintenance work toward Bay.

b. Tank Maintenance Facility. Petroleum products visible in effluent from tank washing leading toward creek which had evidence of oil on shores. Oil/water separator had been partially disabled. Waste oil tank was full and oil had contaminated soil. X

RECOMMENDATION:

Base clearly had major oil pollution problems. Currently, programmed MILCON projects totaling $10,000,000 will go a long way to help. However, it was apparent that:

1. Some operational changes should be attempted to reduce pollution until projects are completed. *

ENCLOSURE (1)

2. Even with new facilities, operators will need to show greatly increased concern for pollution prevention. An educational program must be instituted for those involved.

3. New arrangements for waste oil tank collection must be instituted.

4. Expendable clean-up materials should be provided to operators for clean-up work and indirectly as an incentive not to spill.

c. Oil Spills.

(1) The Base directly and indirectly through the Marine Corps Air Station (H), New River, has had a number of accidental oil spills. The Base has satisfactorily reported these spills to Headquarters Marine Corps, Environmental Protection Agency, and the Coast Guard.

RECOMMENDATION: Base should continue to ensure prompt identification, reporting, and clean-up of accidental oil spills.

(2) At the request of Mr. TATE, Deputy Counsel for the Commandant of the Marine Corps, I discussed inclusion of spill clean-up and reporting in a family housing fuel delivery contract. The Procurement Office objected to requiring the contractor to report to the Base Fire Department all spills, even "two drips". I had no objection to incorporating the wording of a Draft spill prevention plan, allowing a one gallon preporting cutoff, provided the EPA approved the plan.

RECOMMENDATION: Subsequent to my visit, EPA apparently rejected the one gallon cutoff. As passed to the Procurement Officer by Mr. TATE, on 1 June 1978, I recommended that the Base require the contractor to report all spills. As a practical matter, the contractor will only report those spills he thinks will be visible and/or he cannot clean-up quickly.

d. Waste Oil Handling. Base has a number of oil tanks for receipt of waste oils. I noted that some of these tanks were full with additional oil improperly stored in the vicinity and with nearby soil comtaminated with the excess oil Base also has a number of oil/water separators. Some of these separators apparently are not functioning properly due to a number of reasons including possible deterioration from age, user abuse, or lack of maintenance. Many of these separators will be replaced in upcoming military construction projects.

RECOMMENDATION: Base should ensure coordination of user requirements and maintenance capabilities to provide adequate waste oil handling. Base should also ensure that oil/water separators are used and mainained to obtain maximum benefit from these facilities.

6. ORGANIZATION:

a. Location of Natural Resources and Environmental Affairs Office. I discussed with the Director of Facilities, the Assistant Maintenance Officer, and subsequently with the Maintenance Officer, the fact that the Natural Resource and Environmental Affairs Office (NREAO) is assigned to the Maintenance Office rather than the Director of Facilities as recommended in MCO P11000.7A and MCO P11000.8A. Location of the facilities' level is intended to provide tne NREAO with a broad responsibility for, and visibility of, environmental problems and aspects of Base operations as well as to avoid any conflict between the NREAO which reviews operation of such facilities as water and sewage treatment facilities and the Maintenance Office which operates those facilities.

The Base prefers the present organization and believes that the fact that the Maintenance Officer billet is a full Colonel provides thenecessary support to the NREAO.

RECOMMENDATION: As discussed with the Director of Facilities, Base should monitor future operation of NREAO and, if necessary, and/or prudent, consider assignment of NREAO to Director of Facilities.

b. Staffing of Environmental Affairs with NREAO. Recent environmental laws and regulations have added a considerable workload to the Base Ecologist. Requirements of implementation of Clean Water Acts, Clean Air Act, Safe Drinking Water Act, including state procedural requirements has detracted from the ability of the ecologist to implement and monitor environmental programs. The large size of Camp Lejeune, necessitating extensive travel between camps, contributes to the situation. Based on my limited review, I believe a Manpower review would confirm the above.

RECOMMENDATION: Base should review environmental workload and consider providing assistance to the ecologist.

c. Solid Waste Management. A Clean Community System Coordinator has been established at the Director of Facilities level. Although all the responsibilities of this new billet may not be fully identified at this point, this billet apparently will be involved in resource recovery/solid waste efforts.

(*)

(*)

RECOMMENDATION: Base should consider consolidating the above billet into the NREAO for overall coordination of this environmentally related effort.

7. Polychlorinated Biphenyls (PCBs). Base had received recent message bulletin on identification of PCBs and had completed part of the initial inventory. Medical Office would also be involved.

RECOMMNEDATION: NREAO monitor/coordinate Base Effort in order to meet July 1978 inventory deadline.

ENVIRONMENTAL REVIEW

MCAS (H), NEW RIVER, N. C.

24 MAY 1978

J. M. KEARNS, JR., ENVIRONMENTAL ENGINEER, HQMC

I contacted the following personnel:

Major ANGLE	Station Facilities Officer
CWO C. S. ROLLE	Station Fuel Officer

Matters discussed and/or field inspections performed are summarized as follows:

1. OIL POLLUTION

a. The Station has had a number of accidental oil spills which have been reported via Marine Corps Base Camp Lejeune.

b. During a tour of the Station Fuel Farm, I saw eevidence of:

(1) recently installed facilities without spill prevention provisions,

(2) soil/vegetation previously destroyed by spills not replaced,

(3) a recent spill that had not been reported, and

(4) possible soil contamination just outside the fuel farm fence along rail line.

c. OIL/WATER SEPARATOR at the rapid refuel facility appeared to be overloaded and/or in need of cleaning.

RECOMMENDATION: Station work with Marine Corps Base, Camp Lejeune to:

1. reduce number of accidental spills through operational changes,

2. restore soil/vegetation destroyed by spills,

3. investigate possible contamination along rail line,

4. ensure oil/water separators are maintained.

MAIN/JIW/th
6240
12 May 1978

From: Commanding General
To: Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia 23511

Subj: Obtaining Updated Environmental Information

Ref: (a) NavFac ltr 114:JRB 6240 of 26 Apr 78 w/encl

1. Enclosure (1) of reference (a) has been reviewed and this Command concurs with your plans to request subject information from the State of North Carolina.

C. D. WOOD
By direction

MAY [illegible] 1978

	ACTION	INFO	INITIAL
BMO			
ABMO			
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF	✓		
SECRETARY			
F&A BRANCH			
UMACS			

Julian
yr Action
WAN

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 4-28-78

TO:

[BASE MAINT O]

PUBLIC WORKS O

COMM-ELECT O

MOTOR TRANSPORT O

DIR, QUARTERS & HOUSING

DIR, BOQ/BSQ

BASE FIRE CHIEF

ATTN: _____

1. Attached is forwarded for info/action.

2. Please initial, or comment, and return all papers to this office.

3. Your file copy

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313
AUTOVON 690-7313
IN REPLY REFER TO:
114:JRB
6240

26 APR 1978

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune

Subj: Obtaining updated environmental information

Encl: (1) Proposed ltr to the state of North Carolina

Ref: (a) Clean Water Act of 1977

1. Pursuant to reference (a), this Command proposes, subject to your approval, to send enclosure (1) to obtain the subject information.

2. Please provide comments on enclosure (1) to Code 114.

E. A. Barco
E. A. BARCO
By direction

Copy to:
CMC (LFF-2)

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313

IN REPLY REFER TO:
114:JRB
6240

CERTIFIED MAIL RETURN RECEIPT REQUESTED

North Carolina Department of
Natural Resources and Economic
Resources P. O. 27687
Raleigh, NC 27611

Gentlemen:

The Atlantic Division, Naval Facilities Engineering Command has been providing technical assistance on environmental matters with the U. S. Environmental Protection Agency for the enclosed list of activities in your state.

Amendments to most environmental laws now require Federal facilities to comply directly with state and local laws (both substantive and procedural). The Navy is not familiar with all of the requirements of state and local laws with which we must now comply and would appreciate your providing us with copies of appropriate requirements including procedures for NPDES permits and operator certification.

With EPA, the Navy has utilized a centrally managed abatement effort implemented through engineering field divisions such as this office. Report of water analyses, in accordance with NPDES permits, has been accomplished via a Navy-wide automatic data processing (ADP) system with remote entry terminal at each field division. Local Navy activities forward the analytical results in the form of raw data to this office where they are verified and entered into the computer. Copies of these Discharge Monitoring Reports have already been routinely forwarded to your office.

This Navy wide system and ADP format were accepted by EPA and have allowed the Navy to (1) compile summaries of deficiencies for higher command levels, (2) direct limited resources and quality control inspections to problem areas, and (3) check and verify monitoring results by engineers trained in sanitary/environment related fields. We hope to provide Discharge Monitoring Reports in the same format to all states and avoid the massive program changes and high public cost which would be required for individual state formats.

ENCLOSURE (1)

Your consideration of these matters is greatly appreciated. Any questions should be addressed to LDCR J. G. Leech, attention Code 114, telephone number 804-444-7313.

Enclosure

Copy to:
U. S. Environmental Protection Agency
Region IV
245 Courtland Street, NE
Atlanta, Georgia 30308

The Atlantic Division, Naval Facilities Engineering Command provides technical assistance on environmental matters for the following Naval activities in the State of North Carolina:

1. Naval Facility, Buxton, NC
2. Naval Air Rework Facility, Cherry Point, NC
3. Naval Regional Medical Center, Camp Lejeune, NC
4. Naval Hospital, Cherry Point, NC
5. Marine Corps Air Station (Helicopter), Jacksonville, NC
6. Marine Corps Air Station, Cherry Point, NC
7. Marine Corps Base, Camp Lejeune, NC

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
4 May 1978

From: Base Maintenance Officer
To: Purchasing and Contracting Officer

Subj: Proposed fuel hauling contract

Ref: (a) P&C ltr PC/WAT/mmm 4200 of 5 Apr 78

Encl: (1) Subject Contract

1. As requested in reference (a) subject contract has been reviewed and the following comments are offered:

a. On page 4, F-5, subparagraph (a), "1949" should be changed to "1948."

b. On page 7, F-9, delete subparagraphs (1) through (3) and add the following:

(1) All oil spills will be reported to the Base Fire Department, extension 3333, immediately.

(2) All delivery trucks will be equipped with a shovel which can be used by the driver to temporarily contain spills.

(3) The government will provide the contractor with the opportunity to clean-up the spills or to reimburse the government for the clean-up of the spills (except those described in subparagraph (5)).

(4) If the contractor fails to commence clean-up action at the scene within two hours of notification, the government will deem such a failure to act as a request for the government to clean-up the spill and bill the contractor.

(5) When the spill is of such a nature as to endanger facilities or property, or pose a potential water pollution problem, the government will take immediate steps to contain and clean-up the spill without prior notification to the contractor and bill the contractor for such efforts.

C. D. WOOD

OPNAV 5216/144 (REV. 6-70)
0107-LF-778-8099

DEPARTMENT OF THE NAVY

Memorandum

MAIN/AAK/clm
4330
DATE: 28 March 1978

FROM Base Maintenance Officer

TO Distribution List

SUBJ Contract No. N62470-77-C-2551; Pave Recreation Facilities, French Creek

1. Contract for the subject work was awarded to Barrus Construction Company, Jacksonville, North Carolina 28540.

2. A pre-construction conference was conducted by the Public Works Department on 21 March 1978. Base Maintenance representative was informed that the work on this contract would start on 27 March 1978.

J. C. TRELEASE
By direction

DISTRIBUTION LIST:

Director, Maintenance and Repair Division
Director, Utilities Division
Director, Telephone Division
Director, Natural Resources
Branch Head, Emergency Service
Branch Head, Mechanical Trades
Branch Head, General Services
Work Management Branch

OPNAV 5216/144 (REV. 6-70)
S/N 0107-LF-778-8099

DEPARTMENT OF THE NAVY

Memorandum

DATE: 14 March 1978

FROM Director, Natural Resources and Environmental Affairs Division

TO Deputy Maintenance Officer

SUBJ Changes to Base Maintenance Functional Statement

1. The following should replace the current description of function for this division.

a. Natural Resources and Environmental Affairs Division. This division has responsibility for natural resource management based on policy guidance furnished by HQMC; implements a multifaceted program meeting the requirements of DOD multiple-use policy, conservation management, the National Environmental Policy Act, the Endangered Species Act and other use policy restrictions that may apply to Marine Corps lands including the Clean Water Act, Clean Air Act, Safe Drinking Water Act, state solid waste management regulations and state sedimentation control regulations; also including annual federal and state regulations governing hunting, fishing and trapping.

(1) Forestry Branch. This branch implements the activity forest management program as described and set forth in the forestry management section of the Natural Resource Management Plan. The program involves but is not limited to inventory of resources (wood products) planned management, work scheduling, and performance of such work such as sale of forest products, reforestation, by planting or natural reproduction, timber stand improvement, prescribe burning, fire prevention and suppression. The practice of woodland management at Camp Lejeune must conform to environmental and multiple-use aspects of resource management in the fullest sense of these terms while balancing a commitment to practice forestry management in such a manner that will withstand economic analysis and scrutiny.

(2) Fish and Wildlife Branch. This branch is responsible for the administration management and enforcement of the base hunting and fishing program in a manner that fully effectuates federal and state requirements governing consumptive resource use. The function is effected by the practice of wildlife management in accordance with the existing long term wildlife plan that encompass habitat management and population management to a maximum extent possible and aimed at game and nongame species, alike.

Subj: Changes to Base Maintenance Functional Statement

(3) Soil, Water and Environmental Branch. This branch provides a key role in implementing the soil management section of the base Natural Resource Management Plan; also provides for full implementation of EPA water quality monitoring and reporting requirements in the area of wastewater treatment, miscellaneous pollution discharges, the Safe Drinking Water Act, and certain operational aspects of the utilities function; the branch also provides key administrative roles in the activity implementation of NEPA and in the liaison associated with the many areas of environmental compliance regulations with both state and federal agencies.

Wendell A. Neal

WENDELL A. NEAL

pink

14 March 1978

Director, Natural Resources and Environmental Affairs Division

Deputy Maintenance Officer

Changes to Base Maintenance Functional Statement

1. The following should replace the current description of function for this division.

a. Natural Resources and Environmental Affairs Division. This division has responsibility for natural resource management based on policy guidance furnished by HQMC; implements a multifaceted program meeting the requirements of DOD multiple-use policy, conservation management, the National Environmental Policy Act, the Endangered Species Act and other use policy restrictions that may apply to Marine Corps lands including the Clean Water Act, Clean Air Act, Safe Drinking Water Act, state solid waste management regulations and state sedimentation control regulations; also including annual federal and state regulations governing hunting, fishing and trapping.

(1) Forestry Branch. This branch implements the activity forest management program as described and set forth in the forestry management section of the Natural Resource Management Plan. The program involves but is not limited to inventory of resources (wood products) planned management, work scheduling, and performance of such work such as sale of forest products, reforestation, by planting or natural reproduction, timber stand improvement, prescribe burning, fire prevention and suppression. The practice of woodland management at Camp Lejeune must conform to environmental and multiple-use aspects of resource management in the fullest sense of these terms while balancing a commitment to practice forestry management in such a manner that will withstand economic analysis and scrutiny.

(2) Fish and Wildlife Branch. This branch is responsible for the administration management and enforcement of the base hunting and fishing program in a manner that fully effectuates federal and state requirements governing consumptive resource use. The function is effected by the practice of wildlife management in accordance with the existing long term wildlife plan that encompass habitat management and population management to a maximum extent possible and aimed at game and nongame species, alike.

March 1978

Director, Natural Resources and Environmental Affairs Division

Deputy Intendance Officer

Comments on Resource Management Statement

1. The following should replace the current description of functions for this division.

(1) Natural Resources and Environmental Affairs Division. This division has responsibility for natural resource management and policy guidance [illegible] for the Department of Defense, including the requirements of DOD multiple use policy, conservation management, the National Environmental Policy Act, the Endangered Species Act and other DOD policy requirements that may apply to marine corps lands including the Clean Water Act, Safe Drinking Water Act, Resource Conservation and Recovery Act, State and federal [illegible] control requirements, also including national federal and state regulations governing hunting, fishing and trapping.

(2) Forestry Branch. This branch implements the activity forest management program as described and set forth in the forestry management section of the Natural Resource Management Plan. The program involves but is not limited to inventory of resources (wood products) planned management work scheduling, and performance of such work such as of forest products, reforestation, hardwood [illegible] silviculture, timber stand improvement, prescribe burning, fire prevention and suppression. The practice of wildland management at Camp Lejeune must conform to environmental and multiple-use [illegible] of resource management in the fullest sense of these terms while maintaining a commitment to practice forestry management in such a manner that will withstand economic analysis and scrutiny.

(3) Fish and Wildlife Branch. This branch is responsible for the administration management and enforcement of the game hunting and fishing programs in a manner that fully effectuates federal and state requirements governing conservation use. The function is effected by the practice of wildlife management in accordance with the existing long term wildlife plan that encompasses the best management and population management to a maximum extent possible and also game and nongame species alike.

(3) Soil, Water and Environmental Branch. This branch provides a key role in implementing the soil management section of the base Natural Resource Management Plan; also provides for full implementation of EPA water quality monitoring and reporting requirements in the area of wastewater treatment, miscellaneous pollution discharges, the Safe Drinking Water Act, and certain operational aspects of the utilities function; the branch also provides key administrative roles in the activity implementation of NEPA and in the liaison associated with the many areas of environmental compliance regulations with both state and federal agencies.

WENDELL A. NEAL

BASE MAINTENANCE DEPARTMENT
MARINE CORPS BASE, CAMP LEJEUNE, N. C.

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION

2 Mar 78
Date

FROM: W
TO: Branch Heads

_____ Note and Return
_____ For your information (need not return)
_____ Please handle
_____ Route to _____
_____ Please give me your comments (return attachments)
_____ Approve and return

SUBJ:

1. This Functional Statement as it Applies to NREA is defunct - change your respective Statem. - Env. Branch will have to Be Added

N

wendell: Changed as Requested

Von

file

BASE MAINTENANCE DEPARTMENT FUNCTIONS AND RESPONSIBILITIES

BASE MAINTENANCE OFFICER

The Maintenance Officer is responsible to the Commanding General for maintenance management in accordance with Facilities Maintenance Manual MCO P11000.7, Marine Corps Supply Manual, Volume V, MCO P4400.22, current Marine Corps directives and current Base Orders and established policies.

In order to accomplish the mission, Base Maintenance is organized into six Divisions and Special Staff, with functions as follows:

SPECIAL STAFF

Management Analyst

Provides staff assistance to the Maintenance Officer and his Division Directors in the administration and management of the Base Maintenance Department through the conduct of analytic studies, analysis of maintenance management reports and recommended remedial action based thereon, and by carrying out continuing management programs or special projects for the Department as assigned.

Maintenance NCO

Liaison between military and civilian work force in areas of maintenance and area police. Maintenance representative on inspections and conferences.

ADMINISTRATIVE DIVISION

Advise and furnish assistance to management and all levels of supervision on matters involving civilian employees such as disciplinary actions, appeals, grievances, complaints, attendance, leave, security clearances, incentive awards, hours of work, contributions, collections, employment and classification. Maintenance of authorized personnel records and records pertaining to position and job descriptions, incentive awards, personnel actions, timekeeping, security clearances, travel orders, fund drives and disciplinary action. Provide messenger service. Maintenance of records of Class III & IV plant property and minor property items on charge to this Department, coordinate and expedite supply support, review procedures and recommend improvements.

2. <u>Forestry Branch</u>. Implement and carry out the Base Forestry management program as set forth in the Natural Resource management plan for Camp Lejeune, North Carolina. The program involves, inventory of resources, planned management, work scheduling and performance of planned work such as; sales of forest products; reforestation by planting or natural reproduction; timber stand improvement; prescribe burning; fire prevention and suppression.

Preparation of annual budget which includes personnel budgets and complete outline of planned application of funds, collect, analyze and disseminate costs and performance data from current operations, prepare management reports, prepare feeder information for operating reports, maintain required fiscal records, job order accounting and assignment, prepare information for billings for services and utilities rendered on a reimbursable basis, bill and collect telephone accounts.

CONSERVATION DIVISION

Responsible for the overall improvement, restoration and preservation of the natural resources of the Base, to the maximum extent possible, in the public and military interest; and coordinates all programs of conservation of natural resources to ensure consideration, development, supervision, and/or accomplishment within the parameters and criteria of current conservation practices, trends, concepts and instructions, consistent with the military mission of the Base.

a. Forestry Branch. Implement and carry out the Base Forestry Management Plan which involves preparation and supervision of timber harvest contracts; reforestation by planting or natural reproduction; timber stand improvement; prescribed burning and fire prevention and suppression.

b. Fish & Wildlife Branch. ~~Conservation and~~ wildlife management activities to include propagation, preservation and manipulation, ~~predator control~~, food plot preparation, and enforcement of all state, federal and base laws and/or regulations pertaining to recreational boating, hunting and fishing aboard the Base. Non-game Species mgmt As required by the

OPERATIONS DIVISION

Administers the controlled maintenance program for this Department. This includes:

a. Planning a maintenance program.

b. Screening and classifying all work requests prior to submission to Maintenance & Repair Division for accomplishment.

c. Continuous inspection of buildings, structures, utilities, roads and grounds to determine the need for maintenance and repair. Preparation of the Type A Annual Inspection Summary for submission to Headquarters Marine Corps.

d. Preparation of manpower and material estimates for job orders.

e. Determination of the need for engineering advice and assistance.

f. Initiation of work requests to the Public Works Officer to perform work by contract. Represents Base Maintenance at final inspection of work done by contract.

g. Responsible for recommendation and justification for special maintenance, alteration and repair projects when the need for such projects is indicated by recurring or costly maintenance experience.

h. Receives inspection reports on quarters from Director, Quarters and Housing and processes work authorizations for accomplishment of work.

TELEPHONE DIVISION

Maintenance and operation of the Base Telephone System. This encompasses the day to day operation and maintenance and includes:

a. Control of official and unofficial telephone service rendered through the system by investigating and taking appropriate action on all requests for new service and requests for removal, relocation and rearrangement of existing service.

b. Operation and control of the Base switchboard, including supervision of telephone operators.

c. Establishment and supervision of a continuous comprehensive maintenance program by scheduling the necessary inspections, testing and preventive maintenance work necessary for the accomplishing of detection and correction of deficiencies and to ensure that the system continues to give adequate service throughout the life of the equipment.

d. Maintains a list of public pay stations by number and location. This list is used to audit the collection and commission statement submitted by the Carolina Telephone and Telegraph Company. Coordinate all pay station service on the Base and maintenance of cable pairs and station lines used to service these pay stations.

e. Responsible for requesting the Public Works Officer to assist in planning for the necessary expansion and updating of equipment to ensure that the system will provide sufficient telephone service to conduct official Government business.

f. Maintenance of the Base Fire Alarm System.

g. Maintenance of the switchboard lines and station equipment of the Base Range Facilities Telephone System.

h. Maintenance of the switchboards, cables and open wire lines of the First Infantry Training Regiment Telephone System.

i. The training of telephone technicians in their military specialties by on the job training.

j. Maintenance of the Naval Hospital Telephone System on a reimbursable basis.

k. Preparation and publication of the Base Telephone Directory.

UTILITIES DIVISION

Operations, maintenance, and repair of the utilities plants throughout the Base. The major plants are:

a. Steam Generation. Nine central heating plants of both coal and oil types, requiring continuous watch, containing 24 boilers ranging in size from 125 HP to 3000 HP, also, 45 small individual heating plants that are automatic, but are checked daily. Perform inspections and schedules replacement programs.

b. Water Plants. Seven water treatment plants and eight water treatment facilities, including 61 wells. All treatment plants require full or part time watch and those not requiring full-time watch are checked by roving patrol. All wells are checked on each shift. Perform inspections and schedules replacement program.

c. Sewage Treatment. Seven treatment plants with 41 lift stations. All plants require full or part time watch and those not requiring full time watch are checked by roving patrol. All lift stations are checked on each shift. Performs inspections and schedules replacement program.

d. Cold Storage Plant. Operation of the equipment required for refrigeration of the building (22 rooms) and manufacture of ice. The plant has eight compressors, with two systems, (1) direct expansion and (2) brine circulation. Requires full time watch. Perform inspections and schedules replacement program.

MAINTENANCE AND REPAIR DIVISION

Maintenance and repair of buildings, structures, roads, grounds, distribution systems, heating systems, galley and messhall equipment, air conditioners, refrigerators, performs services such as insect control, garbage collection and disposal, performs horticultural management and work related to new work, alterations, modification and improvement as assigned. To accomplish these tasks, the division is divided into five branches, with duties as follows:

a. Work Management Branch. Receives and schedules minor and specific work authorizations. Orders materials for minor and specific jobs. Maintains a weekly schedule for accomplishment of work by work centers. Issues work center schedules by the week for completion by the shops. Coordinates starting dates of work with customers, paying special attention to housing in order to hold vacancy rates down.

b. Building Trades Branch. Responsible for Carpenter Shop, Plaster Shop, Masonry Shop and Paint Shop. Perform woodworking and associated hardware maintenance and repair, floor covering installation, roofing, millwork, cabinet work, saw filing and tool sharpening, key duplication, lock repair, safe combination changes and repairs, maintenance of shop equipment, venetian blind fabrication, repair and installation, plaster work; masonry work including concrete, brick, tile and stone; painting, glazing, fabrication and repair of signs, sign painting, marking of parking lots and roads.

c. Mechanical Trades Branch. Responsible for Electric Shop, Electrical Distribution Shop, Refrigeration and Air Conditioning Shop, Plumbing and Pipe Shop and Metalworking Shop. These shops perform maintenance and repair of electrical systems from the point of distribution, electrical fixtures, appliances and labor saving devices, television antenna systems, floodlight and streetlight systems, sub stations and electrical switch gear, transformers, poles, pole lines and associated hardware; refrigeration and air conditioning equipment, water cooling equipment, ice making and related equipment (except for central cold storage); maintenance and repair of plumbing, water and sanitary sewage systems and associated hardware including distribution systems and related utilities plants systems, wells and pumping stations; fire protection lines and devices; washing and cleaning systems and devices; collection and disposal of grease traps; cleaning septic tanks; maintenance and repair of steam heating, cooking, cleaning and distribution systems and associated hardware including plant systems and systems to the point of end use; metal products and associated equipment, machining, welding, cutting, brazing, soldering, fabricating from sheetmetal; maintenance and repair of oil, coal and gas heaters and associated equipment.

d. General Services Branch. Responsible for grounds keeping, refuse and garbage collection, insect & rodent control, heavy equipment shops and nursery and landscaping. These shops perform horticultural management; maintenance and repair of roads, streets and all types of hardstand; storm sewers and ditches; maintenance of improved and unimproved lands; grass cutting, collection and disposal of refuse and garbage, street sweeping and police of assigned areas; planning, directing and coordinating the insect and rodent control program including inspection, eradication and control of termites; operation and maintenance of construction equipment and Onslow Beach bridge.

e. Emergency/Service Branch. Performs emergency/service type work at Hadnot Point, Paradise Point, Midway Park, Tarawa Terrace, Knox Trailer Park, Montford Point, Camp Geiger, Geiger Trailer Park, Rifle Range, Courthouse Bay and Force Troops.

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 4-25-78

TO:

[BASE MAINT O]

PUBLIC WORKS O

COMM-ELECT O

MOTOR TRANSPORT O

DIR, QUARTERS & HOUSING

DIR, BOQ/BSQ

BASE FIRE CHIEF

ATTN:

1. Attached is forwarded for info/action.

2. Please initial, or comment, and return all papers to this office.

3. Your file copy

Bailey

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"

APR 25 1978

	ACTION	INFO	INITIAL
BMO		✓	
ABMO		✓	BWR
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL		✓	BWR
ENVIRON AFF		✓	WAR
SECRETARY			
F&A BRANCH			
UMACS			

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313
AUTOVON 690-7313
IN REPLY REFER TO:

114:MBW
11330

20 APR 1978

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune

Subj: Safe Drinking Water Act (SDWA) implementation: meeting with State officials

Ref: (a) LANTDIV ltr 1141:SLR 6240 dtd 23 Feb 1978 to State of North Carolina
(b) State of North Carolina Department of Human Resources ltr dtd 3 March 1978
(c) FONECON between Department of Natural Resources (Mr. Julian Wooten) Base Maintenance Department, Marine Corps Base, Camp Lejeune/LANTDIV (Mr. M. White) on 11 April 1978

1. References (a) and (b) initiated dialogue with the State of North Carolina to exchange information regarding water treatment facilities and facilitate compliance of Marine Corps activities in the North Carolina with Safe Drinking Water Act requirements.

2. Reference (c) discussed meeting with state officials to formulate acceptable compliance program and discuss specific Safe Drinking Water Act requirements as they apply to the Marine Corps facility in North Carolina. The meeting will be held April 28, 1978, at the Marine Corps Air Station, Cherry Point. State representatives will be Dr. R. G. Drye to discuss laboratory and laboratory personnel certification and Mr. Charles E. Rundgrin to discuss the requirements of the Safe Drinking Water Act and the role of North Carolina in the implementation of the Act.

3. A meeting of representatives of the Marine Corps Base, Camp Lejeune, the Marine Corps Air Station, Cherry Point and the Atlantic Division, Naval Facilities Engineering Command is scheduled for April 27 at the Marine Corps Air Station, Cherry Point to discuss the implementation program in order to present a consistent implementation strategy to the state on April 28. Speific information concerning the time and building location will be provided by phone to Mr. J. Wooten. Personnel involved in the implementation of the Act are encouraged to attend both meetings.

4. The point of contact for implementation of the Safe Drinking Water Act is Mr. M. White, AUTOVON 690-7313.

E A Barco

E. A. BARCO
By direction

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7331
IN REPLY REFER TO:

114:MBW
11330

20 APR 1978

Dr. R. J. Drye
Head, Environmental Sciences Branch
Lab Section
Division of Health Services
P. O. Box 28047
Raleigh, N. C. 27611

Dear Dr. Drye:

The purpose of this letter is to confirm the 11 April 1978 telephone conversation with Mr. M. B. White of the Atlantic Division, Naval Facilities Engineering Command requesting a meeting with you and Mr. Rundgren and representatives from the two Marine Corps activities in North Carolina. The purpose of this meeting is to discuss implementation of the Safe Drinking Water Act (SDWA), specifically sample collection and analysis, data submittal and reporting, plans for public notification and laboratory certification. The meeting is scheduled for April 28, 1978, at the Marine Corps Air Station, Cherry Point, North Carolina.

Specific location and time of the meeting will be confirmed by phone as soon as the building and meeting room are arranged. Again this Command appreciates your attention and assistance in this matter and looks forward to a professional relationship to ensure a clean safe drinking water supply for both military and civilian personnel at these Marine Corps activities.

Sincerely yours,

E. A. BARCO, P.E.
Director, Utilities Division
By direction of the Commander

Copy to:

U. S. Environmental Protection
Agency
Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30308

MARCORB CAMP LEJEUNE
MCAS CHERRY POINT

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-7313

IN REPLY REFER TO:
114:MBW
11330

20 APR 1978

Mr. Charles E. Rundgren
Water Supply Branch
Sanitary Engineering Section
Division of Health Services
P. O. Box 2091
Raleigh, N. C. 27602

Dear Mr. Rundgren:

The purpose of this letter is to confirm the 11 April 1978 telephone conversation with Mr. M. B. White of the Atlantic Division, Naval Facilities Engineering Command requesting a meeting with you and Dr. Drye and representatives from the two Marine Corps activities in North Carolina. The purpose of this meeting is to discuss implementation of the Safe Drinking Water Act (SDWA), specifically sample collection and analysis, data submittal and reporting, plans for public notification and laboratory certification. The meeting is scheduled for April 28, 1978, at the Marine Corps Air Station, Cherry Point, North Carolina.

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Sincerely yours,

E. A. BARCO, P.E.
Director, Utilities Division
By direction of the Commander

Copy to:
U. S. Environmental Protection
Agency
Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30308

MARCORB CAMP LEJEUNE
MCAS CHERRY POINT

BASE MAINTENANCE DEPARTMENT
MARINE CORPS BASE, CAMP LEJEUNE, N. C.

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION

Date 2 May 78

FROM: W. Neal
TO: Bmd: D/md: BMC

_____ Note and Return

_____ For your information (need not return)

_____ Please handle

_____ Route to _____

_____ Please give me your comments (return attachments)

_____ Approve and return

SUBJ:

1. Para 3d —

Attached —

of interest? R

WAN

Note: Agree working on estimate to connect to four County system as per ACOS, Fac. request BMC

NAVAL REGIONAL MEDICAL CENTER
CAMP LEJEUNE, N. C. 28542

IN REPLY REFER TO:
54:CRT:jlg
6240/1
18 April 1978

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, N.C. 28542
Commanding General, Second Marine Division (REIN), FMF, Camp Lejeune, N.C. 28542
Commanding General, Force Troops/Second Force Service Support Group, FMFLANT, Camp Lejeune, N.C. 28542
Commanding Officer, Marine Corps Air Station (H), New River Jacksonville, N.C. 28540

Subj: Occupational and Preventive Medicine Service Activities Report for March

Ref: (a) DIVO P6000.1E
(b) O&PMS Activities Report for February 1978

1. The Occupational and Preventive Medicine Service (O&PMS), Naval Regional Medical Center is responsible for providing a full range of Occupational and environmental health and preventive medicine support for the entire Camp Lejeune complex. A consolidated report of O&PMS activities and support provided during the month of March is hereby submitted for information, and to satisfy the requirements of reference (a).

PREVENTIVE MEDICINE

2. Environmental Surveillance	MCB/NRMC	DIV	FT	MCAS (H)
a. Bio-environmental Inspections	175	20	14	18
b. Nosocomial Infection Control Surveys	59	00	00	00

c. On 6 March, LT. Jimmy R. McCORMICK reported aboard as the Environmental Health Inspector Augmentee with the Inspector General's Team. O&PMS provided him with assistance in the conduct of Bio-environmental inspection of every occupational health and preventive medicine function and activity in the CLNC complex. These inspections were conducted in-depth over a two week period and the findings in all cases were either satisfactory or satisfactory with discrepancies.

d. The FT/2d FSSG MOOSE facility water source at Oak Grove is provided by a shallow well located downslope, a short distance from the head and midway between the head and a septic tank in very sandy soil. Several of the mobile head plumbing connections sprung leaks (determined by flourescin tracer dye) which heavily contaminated the soil beneath the head with sewage. Because of the slope and short distance from the head to the well, contaminated subsurface drainage runs along the water distribution line directly to the well. The well is not equipped with either a chlorine gas or calcium hypochlorite chlorinator. Water samples are now either positive for coliforms (indicators of fecal contamination) or the culture plates are too numerous to

count (TNTC); i.e. the water is non-potable (unfit/unsafe) for human consumption) unless chlorinated. As an interim emergency measure potable water needs are being met by batch chlorination of water in water buffaloes. Resolution of the problem requires provision of a safe, permanent potable water source such as the municipal water source available from the Jones County Water System.

3. Communicable Disease Control

a. Sexually Transmitted Diseases (STD)

	Quad Command		MCB/NRMC		2d Mar Div		FT/2d FSSG		MCAS (H)	
Disease Diagnosed	Feb	Mar	Feb	Mar	Feb	Mar	Feb	Mar	Feb	Mar
Gonorrhea	102	85	26	12	45	50	25	30	08	03
Syphilis	03	02	01	00	01	01	01	01	00	00
Lymphogranuloma Venereum	00		00	00	00	00	00	00	00	00
Chancroid	00	00	00	00	00	00	00	00	00	00
Incidence Rates/1000	3.02	2.29	4.31	2.6	2.48	2.7	2.58	2.1	1.77	0.63

(1) Trends: The overall Quad Command STD incidence rate decreased markedly from a 3.02 I.R. last month to a 2.29 I.R. for March. This was effected by the substantial decreases in incidence rates by MCB/NRMC, FT/2d FSSG, and MCAS (H) with MCB/NRMC demonstrating the largest decline from 4.31 I.R. for February to 2.6 I.R. in March. 2d Mar Div displayed the only increase with a 2.7 I.R.

(2) Total STD Clinic Consultations: 916

b. Total Lab Tests Performed: 3,766

	MCB/NRMC	DIV	FT	MCAS (H)
c. Immunizations Given	107	06	10	430
d. Health Card Examinations	233	12	21	11
e. Tuberculin Skin Tests	126	06	11	97

4. Training

	Class Length	MCB/NRMC	DIV	FT	MCAS(H)
Food Service Sanitation (Basic)	6 hrs.	24	10	02	00
Food Service Sanitation (Refresher)	5 hrs.	09	05	31	00
STD Training	1 hr.	42	00	00	00
PrevMed Petty Officer	5 days	00	07	02	01
Hearing Conservation	2 hrs.	10	20	10	10
Totals		85	42	45	11

5. Insect Vector Control

a. Servicing of the mosquito light traps was continued during the month with collection to begin 1 April.

OCCUPATIONAL HEALTH

	MCB/NRMC	DIV	FT	MCAS(H)
6. Industrial Hygiene Surveys	1	1	0	1
7. Noise Hazard Surveys	2	5	0	0
8. Microwave Oven Surveys	0	0	0	0
9. Lighting Surveys	0	3	0	0
Totals	3	9	0	1

C. R. Thompson

C. R. THOMPSON
By direction

Copy to:
Division Surgeon
C.O., 2d Med. Bn.
Health Services Support Officer, FT/2d FSSG
Tri-Command Food Service Officer
O&PMS, Cherry Point
Base Maintenance Officer

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D. C 20380

MCBul 6240
LFF-2-jm
24 Mar 1978

Julian
Read + return
in 30 cerebellum
w/o hemmorage!
J.d.W. 15 May 78

MARINE CORPS BULLETIN 6240

From: Commandant of the Marine Corps
To: Distribution List

Subj: Procedural Requirements of State and Local Pollution Control Agencies

Ref: (a) MCO P11000.8A

1. Purpose. To advise addressees of the requirement to comply with State and local procedural requirements in implementation of national pollution control laws.

2. Cancellation. MCBul 6240 of 19 Aug 1977.

3. Discussion

a. As outlined in reference (a), Marine Corps commands have been required to comply with all substantive requirements (i.e., emission standards) of Federal, State, and local environmental regulations. Recent national laws, including the Resource Conservation and Recovery Act, the Safe Drinking Water Act, amendments to the Clean Air Act, and amendments to the Federal Water Pollution Control Act have given specific direction to Federal agencies to now comply with State and local procedural (i.e., permits) as well as substantive requirements. The directive referred to in paragraph 2, preceding, provided initial guidance in this regard.

b. States and local agencies may impose requirements for permits, testing, monitoring, recordkeeping, reporting, and operator certification. Agencies may also require payment of permit application and renewal fees. Such fees will be budgeted as an operations and maintenance expense.

c. National Pollutant Discharge Elimination System (NPDES) permits administered by the Environmental Protection Agency (EPA) may now be turned over to States which have primary enforcement authority. Activities in those States should contact the State to determine the proper local procedures. In States which do not have primary enforcement authority, EPA will continue to administer the permits. If States request an additional permit, activities should comply and advise the Commandant of the Marine Corps (Code LFF).

d. The applicability of State or local requirements to military unique structures, equipment, or vehicles is under review. Activities receiving requests for permits or other controls on such military items should contact the Commandant of the Marine Corps (Code LFF) for guidance.

e. The cognizant engineering field division of the Naval Facilities Engineering Command will provide assistance, upon request, in complying with both substantive and procedural requirements.

f. Headquarters Marine Corps will include the contents of this Bulletin in a forthcoming change to reference (a).

PCN 102 094082 00

3. Action. Addressees shall comply with the substantive and procedural requirements of the State and local pollution control agencies. Advise the Commandant of the Marine Corps (Code LFF) of any significant problems encountered.

4. Self-Cancellation. 30 September 1978.

H. A. Hatch

H. A. HATCH
Deputy Chief of Staff
for Installations and Logistics

DISTRIBUTION: IV3 less 7000162
plus 7000162 (50)

Copy to: 7000144/8145001

MAIN/JIW/th
6240
27 Jan 1978

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

Subj: Environmental Management by Objectives (MBO)

Ref: (a) CMC ltr LFF-2-JMK:ed dtd 6 Jan 78

Encl: (1) Activity MBO Information

1. As requested in reference (a), MBO questionnaries have been updated and enclosure (1) is forwarded.

C. D. WOOD
By direction

AIR POLLUTION

1.a. Will state require a variance from air pollution regulations in order to allow operation of a facility until corrective projects are completed? Yes

If yes, for which source(s)? Bldg 1700 - Four coal fired boilers

Give Status of variance. Being applied for

b. Will state require air pollution operating permits? Yes

If yes, for which source(s)? All boilers burning coal & No. 6 Oil & Incinerators

Give status of permit(s). Being applied for

2.a. Does state require a "Transportation Control Plan"? No

If yes, give status of plan. _____

b. Does state require an "Air Episode Plan"? Yes

If yes, give status of plan. Currently being forwarded to state

3.a. Does state require vehicle inspection and maintenance (I&M) program? NO

b. If yes, give status of compliance with I&M programs. - - - - -

SOLID WASTE MANAGEMENT

1.a. Does the activity have a sanitary landfill? Yes

b. Is the landfill in compliance with EPA or state standards? Yes

If so, has the landfill been brought into compliance since 1 January 1977? Yes

c. If landfill is not in compliance, indicate problem, solution, and schedule for correction. _____

2. Concerns waste paper recovery. Ensure that semi-annual report required by MCBul 6240 of 14 March 1977 w/ch 1 is forwarded to CMC. Headquarters Marine Corps will then provide input to DOD.

3. Concerns resource recovery in Standard Metropolitan Statistical Areas. No input required.

4. Does state require solid waste operating permit? Yes

If so, give status of permit for activity. Being Developed

WATER POLLUTION

1.a. Provide number of National Pollutant Discharge Elimination System (NPDES) or state permits:

	NPDES	STATE
1. Required	1	0
2. Applied for		
3. In initial negotiation		
4. In renegotiation		
5. Final	1	0

b. Is activity operating in accordance with permit? No

If no, list corrective measures underway or scheduled: NavFac is studying industrial discharge problem at Camp Geiger sewage treatment plant which has caused the base to violate BOD discharge limitations at that plant. A&E Firm presently designing a project to correct miscellaneous discharges.

c. Is activity subject to enforcement compliance letters? Yes

If yes, give details on separate page.

2.a. Is the activity connected to a municipal treatment system? No

If yes, on what date _____

b. Is a connection being contemplated? No

If yes, give brief details on separate page.

3. Concerns ship wastewate. No input required.

4.a. Do EPA regulations require the activity to have a spill prevention, control, and counter measures (SPCC) plan? YES

b. Is the plan complete? Being Revised and Updated YES

c. Provide date by which plan will be implemented. _____

4.d. What will be cost to implement? Undetermined

5. Concerns "208 Planning". No additional input necessary.

PESTICIDES

The following questions concern future DOD requirements for the application of pesticides.

1. MCO P11000.8A paragraph 4020 requires all activities that apply pesticides to submit an annual Pest Control Program Outline. The plan will be subject to review by the Armed Forces Pest Management Board.

a. Has the activity complied with the requirement of MCO P11000.8A? Yes

b. Is the plan current? Yes

2. All activities which apply pesticides will be required to have a minimum of two certified applicators.

a. How many personnel have been trained and certified in accordance with MCO P11000.8A, paragraph 4013? XXX 15

b. How many personnel will require recertification during calendar year 1978? None

3. This item concerns the implementation of an "integrated pest management" program and will be addressed by HQMC. No activity input is required.

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

IN REPLY REFER TO

LFF-2-JMK:ed

6 JAN 1978

From: Commandant of the Marine Corps
To: Distribution List

Subj: Environmental Management By Objectives (MBO)

Ref: (a) MCO P11000.8A

Encl: (1) DOD Environmental MBO's
(2) Activity MBO Information

1. The Secretary of Defense has issued a series of Management by Objectives (MBO's) in the fields of air and water pollution, solid waste management, and pesticides. The MBO's are forwarded as enclosure (1) for your information.

2. The Office of the Secretary of Defense (OSD) requires this Headquarters to brief OSD on the Marine Corps status with the MBO's. In order to obtain sufficient current information on each activity to brief OSD, this Headquarters has prepared a questionnaire, enclosure (2), paralleling the MBO's. This Headquarters has completed portions of enclosure (2) based on information available at this Headquarters for each activity.

3. You should review enclosure (2), update existing information, provide missing data, and return to this Headquarters (Code LFF) by 15 February 1978. Information on the various topics can be obtained from the cognizant Engineering Field Division of the Naval Facilities Engineering Command or this Headquarters, Code LFF, Mr. J. M. KEARNS, Autovon 224-1425/2171.

4. Marine Corps Districts and the Fourth Division should provide information on all facilities under their respective commands. Information on minor facilities (such as reserve centers and recruiting stations) may be consolidated. No information has been provided for these facilities.

A. E. Scribner

A. E. SCRIBNER
By Direction

DISTRIBUTION LIST:

CG MCDEC Quantico
CG MCB Camp Pendleton
CG MCB Camp Lejeune
CG MCRD San Diego
CG MCLSBLANT Albany
CG MCAS Cherry Point
CG MCRD Parris Island
CG MCAS El Toro
CG MCB Twentynine Palms
CG MCLSBPAC Barstow
CO MCAS Kaneohe Bay
CO MCAS Beaufort
CO MCAS Yuma
CO HQBN Henderson Hall
CO Camp H M Smith
CO 8th & "I"
CO Camp Garcia
First MCD
Fourth MCD
Sixth MCD
Eighth MCD
Ninth MCD
Twelfth MCD
4th Marine Division

Copy to:

COMMARCORBASESPAC
COMCABWEST
COMCABEAST
FMFLANT

DEPARTMENT OF DEFENSE ENVIRONMENTAL MANAGEMENT-BY-OBJECTIVE

A. AIR: Ensure that the requirements of Clean Air Act are met.

1. Identify the installations which require variances or state permits as of the end of the reporting period. Complete abatement or monitoring activities pursuant to the established compliance schedule.

2. Complete transportation control plans and air episode plans for installations in air quality control regions (AQCR's) where such plans are required.

3. Implement inspection and maintenance (I&M) programs at installations in AQCRs where such programs are mandated pursuant to state implementation plans.

B. WATER: Ensure that the requirements of Federal Water Pollution Control Act are met.

1. Implement NPDES requirements to include obtaining required permits and the operation of wastewater treatment facilities pursuant to the provisions of the issued permit or enforcement letters, as applicable.

2. Use municipal or regional treatment facilities where economically feasible or specified under approved 208 plans.

3. Implement programs to meet the 1981 mandates on treatment of ship's wastewater.

4. Complete projects to implement spill prevention, control and countermeasures plans pursuant to established EPA time frames, and complete the triennial update of SPCC plans by 30 August 1978.

5. Cooperate fully in the development of regional 208 plans.

C. SOLID WASTE: Ensure that the requirements of the Resource Conservation and Recovery Act (RCRA) are met:

1. Implement a waste paper recycling program not later than December 31, 1977, at all DoD installations where 40 CFR 246 applies, per the President's directive.

2. Establish a deposit system for beverage containers at installations where 40 CFR 244 applies. (After completion of DoD's test program at ten installations).

3. Develop resource recovery facilities programs for standard metropolitan statistical areas where 40 CFR 245 applies.

4. Insure that installations obtain the required state permits pursuant to Section 6001 of RCRA and operate per the issued permit.

D. PESTICIDES: Ensure that provisions of Federal Insecticide, Fungicide, Rodenticide Act are met:

1. Submit for approval to the Armed Forces Pest Control Board the 1978 component pest management plans no later than December 15, 1977.

2. Certify, under the DoD certification program, at least two (2) individuals by major installation. This should be accomplished by December 31, 1978.

3. Implement the pilot Integrated Pest Management (IPM) programs at selected installations not later than October 15, 1978.

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/WAN/th
6240
10 Feb 1978

From: Base Maintenance Officer
To: Purchasing and Contracting Officer

Subj: Federal Regulations Concerning Oily Waste Discharge

Ref: (a) FoneCon btwn Maj HARRIS, Purchasing & Contracting, and Mr. Neal, BMaintDept, on 10 Feb 78

1. In response to reference (a), the following comments are offered for your use in rewriting contract specifications to help abate oil pollution associated with heating oil contractors.

2. The Federal Water Pollution Control Act of 1949 is the basic legislation involved, here. More specifically, 1973 amendments to the original act, now known as the "Clean Water Act," require actions on the part of private corporations but more particularly on the part of federal agencies to insure that oily waste is not discharged in such a manner that pollution or contamination of navigable waterways could occur. These same amendments require an extensive monitoring and reporting program where in our case, we "in effect" report Marine Corps Base oily waste violations on a quarterly basis, and in the case of spills, more often. This law is so specific and all inclusive that any source that may produce an oily waste concentration of 15 parts per million requires treatment by some sort of abatement measure, i.e., oil/water separator, tie-in to sanitary sewer, etc.

3. The Marine Corps document which addresses these specific water pollution abatement requirements is MCO P11000.8A.

4. If there are further questions or means by which we can be of assistance, please don't hesitate to call on me.

WENDELL A. NEAL
By direction

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
9 Feb 1978

From: Base Maintenance Officer
To: Staff Judge Advocate

Subj: Paradise Point oil spill (Quarters 3354) of 31 January 1978

Ref: (a) BO 11090.1A
(b) FoneCon btwn Mrs. Perkins, Base Housing, and Mr. Neal, BMaintDept, on 1 Feb 78

1. The subject oil (kerosene) spill of approximately 15 gallons resulted when an underground home heating oil tank was overfilled by a Great Gas and Oil Company truck driver and is a violation of reference (a).

2. During reference (b) Base Maintenance Department personnel were advised that the contractor is responsible for oil spill cleanup. Therefore, it is requested that your office proceed to recover the cost of cleaning up the subject oil spill which totaled $37.00 and is itemized as follows:

a. Labor $31.20

b. Vehicle $ 5.80

C. D. WOOD

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
3 February 1978

From: Base Maintenance Officer
To: Staff Judge Advocate

Subj: Hadnot Point Oil Spill (Building 1002) of 10 Jan 1978; recommendation concerning

Ref: (a) BO 11090.1A
(b) FoneCon btwn Mrs. Perkins, Base Housing, and Mr. Neal, BMaintDept, on 1 Feb 78

1. The subject oil (kerosene) spill of approximately 50 gallons resulted from negligence on the part of a Great Gas and Oil Company truck driver and is a violation of reference (a).

2. During reference (b) Base Maintenance Department personnel were advised that the contractor is responsible for oil spill cleanup. Therefore, it is requested that your office proceed to recover the cost of cleaning up the subject oil spill which totaled $116.70 and is itemized as follows:

a.	Labor	$98.83
b.	Equipment	$ 6.27
c.	Vehicle	$11.60

C. D. WOOD

BASE MAINTENANCE DEPARTMENT
Marine Corps Base
Camp Lejeune, North Carolina 28542

MAIN/JIW/th
6240
1 Feb 1978

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

Subj: Oil and Water Separator, Building S-1834

Ref: (a) CG, 2dMarDiv, ltr 4/TAM/jk 11013 dtd 11 Jan 78
(b) BO 11090.1A

1. NavFac currently has a contract with an A&E firm to design a project to correct miscellaneous discharges at Camp Lejeune and that contract includes the problem addressed by reference (a). In the interim, it is strongly suggested that every effort be made to dispose of waste oil in accordance with reference (b).

C. D. WOOD

4/TAM/jk
11013
11 Jan 1978

From: Commanding General
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542 (AC/S, Fac)

Subj: Oil and Water Separator, Building #S-1834

Ref: (a) BO 11090.1A

Encl: (1) CO, 2d TankBn ltr 4/TJC/rct of 1Sep 77 w/cost estimate

1. Enclosure (1) requests an oil/water separator at S-1834 to fulfill the requirements set forth in reference (a). The cost, as estimated, is beyond this Headquarters ability to fund.

2. It is requested that funding assistance be provided for the completion of the subject project.

L. L. WINE
By direction

Copy to:
CO, 2d TankBn

UNITED STATES MARINE CORPS
2d Tank Battalion
2d Marine Division, (Rein), FMF
Camp Lejeune, North Carolina 28542

4/TJC/rct
11014
1 Sep 1977

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542 (Attn: AC/S, FacO)
Via: Commanding General, 2d Marine Division, (Rein), FMF Camp Lejeune, North Carolina 28542 (Attn: AC/S, G-4, FacO)

Subj: New Work; request for

Ref: (a) BO P11013.2D
(b) DivO P11013.2C
(c) BBul 11090 dtd 20 Jul 1977
(d) BO 11090.1A

Encl: (1) Location of Subject Facility

1. In accordance with references (a) and (b), the following request for New Work is submitted:

a. Description of Work. Installation of an oil/water separator and construction of a sand trench at the wash rack located between buildings 1833 and 1835 as illustrated in enclosure (1).

b. Rank, Name and Phone Number of Point of Contact.

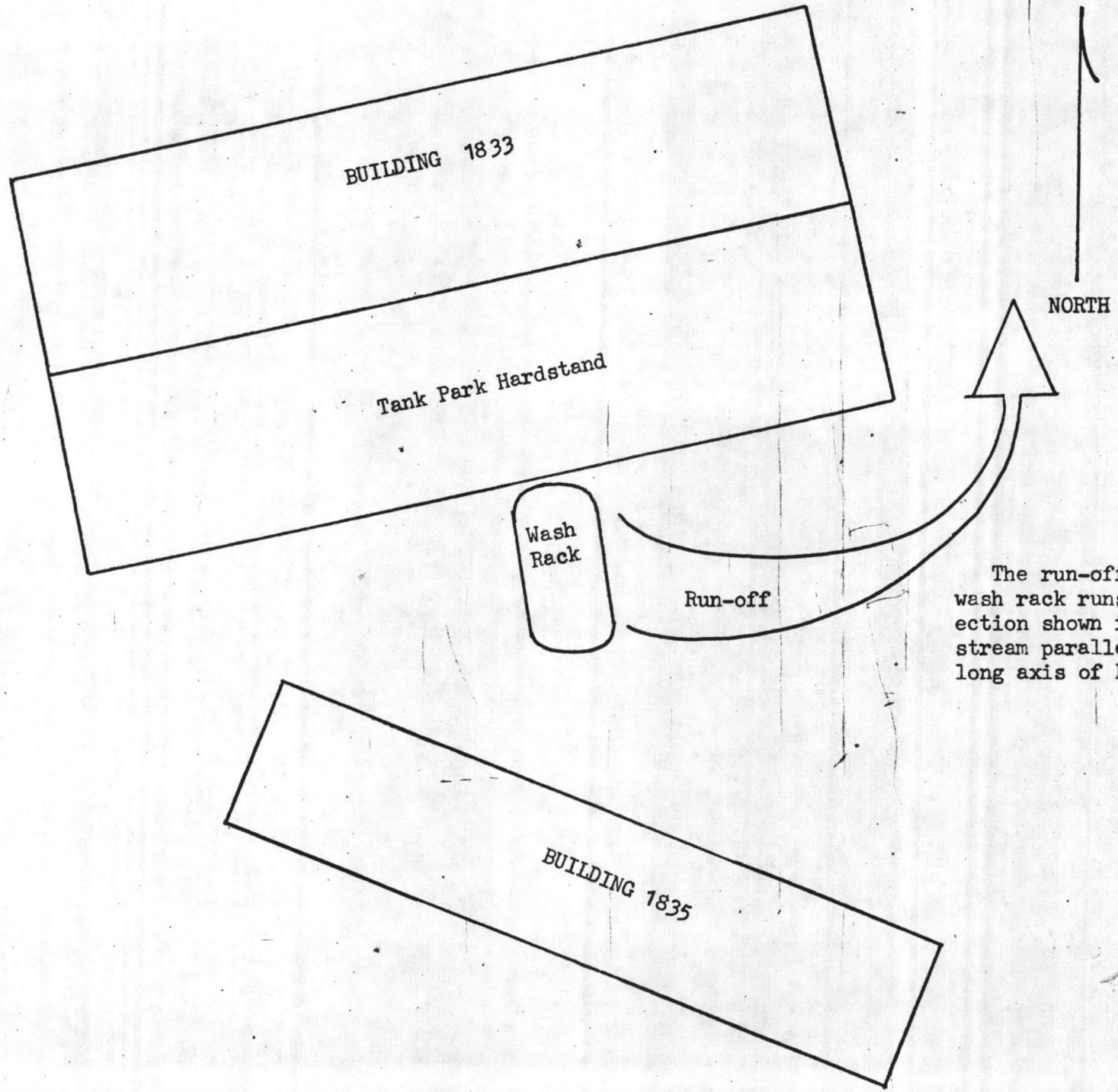
WO PAYNE, W. L. Ext. 3168/1948

c. Detailed Justification for Work to be Performed. Reference (c) requires that vehicle wash racks from which oil pollution may be transmitted to local watersheds be equipped with oil/water separators to comply with guidelines set forth in reference (d). The wash rack between buildings 1833 and 1835 meets the criteria established in references (c) and (d) and is not so equipped. This places 2d Tank Battalion in non-compliance with the Base directives. The sand trench is necessary to provide run-off space for the sand washed from the tanks to prevent repeated clogging of the drain or oil/water separator, without allowing run-off into the nearby stream.

D. F. HERR
By direction

ENCLOSURE (1)

Copy to:
Tank MaintO



The run-off from the wash rack runs in the direction shown into a small stream parallelling the long axis of Bldg. 1833.

Enclosure (1)

2

TO - ACS/FAC jad 21 Dec 77

Rough To INSTALL OIL/Water separator & CONSTRUCTION OF SAND TRENCH at wash Rack between 1833 & 1835

RECAPITULATION - COST ESTIMATE (MAINTENANCE)
MCBCL 11014/1

BLDG. NO. Oil Separator NEAR S-1834 | C. M. NO. | REQUEST NO. 24747 4/TJC/RCT | DATE 1 SEPT. 1977

WORK CENTER	HOURS	MAN DAYS	LABOR	MATERIAL	TOTAL LABOR AND MATERIAL
CARPENTRY 41.	16	2	165	25	190
MASONRY 44.	16	2	173	50	223
PAINTING					
ELECTRICAL					
REFRIGERATION					
ELEC. DISTRIBUTION					
MACHINE SHOP					
PLUMBING 61	48	6	494	6,000	6,494
ROADS & GROUNDS 71	48	6	363	—	363
HEAVY EQUIPMENT 72	40	5	472	Eq. Op. 186	658
73. Veh. chg.				60	60
Sub totals			1667	6,321	7,988
+ 10% for New work			167	632	799
TOTALS	168	21	1,834	6,953	8,787

12/20/77 Wilson

ENCLOSURE (1)

WORK REQUEST (MAINTENANCE MANAGEMENT)
NAVFAC 9-11014/20 (REV. 2-68) S/N-0105-002-7510
Supersedes NAVDOCKS 2351

(PW Department see Instructions in NAVFAC MO-321)

Requestor see Instructions on Reverse Side

PART I—REQUEST (Filled out by Requestor)

1. FROM Director, Natural Resources Division	2. REQUEST NO.
3. TO Director, Operations Division	4. DATE OF REQUEST 1 Feb 1978
5. REQUEST FOR ☐ COST ESTIMATE ☒ PERFORMANCE OF WORK	5a. REQUEST WORK START ASAP
6. FOR FURTHER INFORMATION CALL Julian Wooten, ext 5003/2083	7. SKETCH/PLAN ATTACHED ☐ YES ☒ NO

8. DESCRIPTION OF WORK AND JUSTIFICATION (*Including location, type, size, quantity, etc.*)

Repair one 8' x 12' outside chemical storage locker at Building 65. Hazardous chemicals, compressed gas and flammable materials are stored in this building until needed in the laboratory. The floor of the building has deteriorated and needs repair work.

9. FUNDS CHARGEABLE	10. SIGNATURE (*Requesting Official*) Randall C. Reed

PART II—COST ESTIMATE
(Filled out by Maintenance Control Division if estimate requested)

11. TO:	12. ESTIMATE NO.

13. COST ESTIMATE	
a. Labor	$
b. Material	$
c. Overhead and/or Surcharge	$
d. Equipment Rental/Usage	$
e. Contingency	$
f. TOTAL	$

14. SKETCH/PLAN ATTACHED ☐ YES ☐ NO

15.
☐ APPROVED. PROGRAMMING TO START IN _____
☐ APPROVED. BASED ON PRESENT WORKLOAD, THIS JOB CAN BE PROGRAMMED TO START IN _____, IF AUTHORIZED BY 25TH OF _____ AND FUNDS ARE MADE AVAILABLE.
☐ DISAPPROVED. (*See Reverse Side*)

16. SIGNATURE	17. DATE

PART III—ACTION (Filled out by Requestor)

18. TO:

19. AUTHORIZATION TO PROCEED IS ATTACHED (*Check one if other than PW funds are involved*) ☐ NAVCOMPT 140 ☐ OTHER	20. WORK REQUESTED ☐ HAS BEEN CANCELLED ☐ HAS BEEN DEFERRED ☐ WILL BE PERFORMED BY OTHERS
21. SIGNATURE	22. DATE

(*See Part IV on Reverse Side*)

INSTRUCTIONS

IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I, checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III, checking proper block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to the requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE NOT UNDER COGNIZANCE OF PWO

Requestor fills in all items in Parts I and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 7, checks proper block in item 19, and attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15, 16, and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE UNDER COGNIZANCE OF PWO

Requestor fills in all items in Part I, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to the Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15 as applicable, 16 and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

PART IV—REMARKS

MAIN/WAN/th
6240
9 January 1978

Mr. Carl E. Walter
Nuclear Test Engineering Division
Lawrence Livermore Laboratory
University of California
Post Office Box 808
Livermore, California 94550

Dear Mr. Walter:

This will acknowledge receipt of your recent letter pertaining to site evaluations for investigations of liquefied natural gas spills.

Mr. Julian Wooten, Natural Resources and Environmental Affairs Division, telephone (919) 451-5003/2083, will be your point of contact for information you may require.

Sincerely,

C. D. WOOD
Colonel, U. S. Marine Corps
Base Maintenance Officer
By direction of the Commanding General

	ACTION	INFO	INITIAL
BMO			
ABMO		✓	[illegible]
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS			
ADMIN			
TELE			
UTIL			
ENVIRON AFF	✓	[illegible]	
SECRETARY			
F&A BRANCH			

JdW
9 Jan 78

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 19 Dec 77

TO:

BASE MAINT O

PUBLIC WORKS O

COMM-ELECT O

MOTOR TRANSPORT O

DIR, QUARTERS & HOUSING

DIR, BOQ/BSQ

BASE FIRE CHIEF

ATTN: _____

1. Attached is forwarded for info/action.

2. Please initial, or comment, and return all papers to this office.

? Look of anywhere else to send this Base Maintenance WON!

Bailey

3. Your file copy

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"

LAWRENCE LIVERMORE LABORATORY

NTED 77-304

December 14, 1977

Commanding Officer
Camp Lejeune MCB, NC 28542

SUBJECT: Site for Liquefied Natural Gas Spill Experiments

Dear Sir:

The Lawrence Livermore Laboratory, acting for the Department of Energy, Division of Environmental Control Technology is investigating liquefied natural gas spills. We have developed a preliminary list of tentative sites for this purpose and are presently gathering physical information to aid in the site evaluation process. Availability of the site for this use is another matter which would be considered at a later time. There is no intent of course to conflict with currently planned uses.

We would like to establish a channel to be used for obtaining site information from you. This would include local maps, aerial photos if available, climatological data, and other incidental information. If you would designate an office or individual as our point of contact, we will direct our questions there. Our contacts will be:

William C. O'Neal	or	William E. Bradkin
Phone:		Phone:
(415) 422-9966		(415) 422-8963
(FTS) 532-9966		(FTS) 532-8963

We will appreciate any assistance which you may give us on this matter.

Carl E. Walter
Deputy Division Leader
Nuclear Test Engineering Division

CEW:sc

University of California P.O. Box 808 Livermore, California 94550 □ Telephone (415) 447-1100 □ Twx 910-386-8339 UCLLL LVMR