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COPY

UNITED STATES MARINE CORPS
MARINE CORPS BASE
PSC Box 20004
Camp Lejeune, North Carolina 28542-0004

5730
BEMD
12 DEC 2000

From: Assistant Chief of Staff, Environmental Management
To: Base Adjutant

Subj: CONGRESSIONAL/SPECIAL INTEREST CORRESPONDENCE, RE: MAJOR
THOMAS TOWNSEND USMC RETIRED

Ref: (a) BADI ltr 5730 BADI of 4 Dec 2000

- Encl: (1) Detailed Extent of Groundwater Contamination at Camp Lejeune
(2) Water Systems Wells for Camp Geiger, Camp Johnson, Courthouse Bay, Hadnot Point, Holcomb Blvd, Marine Corps Air Station, Onslow Beach, Rifle Range, and Camp Lejeune
(3) History of Contaminated Wells at Camp Lejeune
(4) MCB CL Letter to Major Townsend dated 14 Jul 2000
(5) MCB CL Letter to Major Townsend dated 4 Aug 2000
(6) MCB CL Letter to Major Townsend dated 16 Aug 2000
(7) MCB CL Letter to Major Townsend dated 6 Nov 2000
(8) Chronology of Events

1. As requested in the reference, the Environmental Management Department (EMD) forwards the following responses to Senator Warner's letter of 9 November 2000. OLAC granted an extension until 13 December 2000 and we are working with CMC HQ to answer the Senator's questions. EMD has action to answer 4.c, f, h, and CMC HQ has action to answer 4.a, b, d, e, g, i, j, and k.

- a. 4c Please provide a detailed explanation of the nature and extent of water contamination at Marine Corps Base, (MCB)Camp Lejeune. Enclosure 1 provides a historical overview of our contamination and our clean up progress. Enclosure 2 provides detailed information with respect to water systems, the wells that provided water to these plants, and the years the wells were in/out of service. Enclosure 3 provides a history of all contaminated wells, contaminant concentrations, sampling dates and out of service dates. Our Installation Program's Administrative Record can also be viewed at www.bakerenv.com/lejeune_ar. This record consists of all environmental investigations and documents that have a legal bearing and which are used to make the decision regarding the response action for a site. MCB CL's website, www.lejeune.usmc.mil, has historical facts that pertain to the nature and extent of contamination and resulting Agency for Toxic Substance and Disease Registry Health Study.

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- b. 4f An overview of the information requested by and the responses provided to Major Townsend. Of the fourteen letters MCB, CL has received, requests consist of information concerning our water distribution systems and monitoring associated with our drinking water. Enclosures 4-7 are MCB CL responses (4 letters) to Major Townsend. These letters provide detailed responses to the fourteen aforementioned letters.
- c. 4h A chronology of the events related to the water contamination. See enclosure 8.

2. Point of contact is Mr. Neal Paul, (910) 451-9518.



SCOTT A. BREWER, PE

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Detailed Extent of Groundwater Contamination at Camp Lejeune

Camp Lejeune has been actively involved with environmental investigations and remediation programs since 1983 beginning with the Navy Assessment and Control of Installation Pollutants (NACIP) Program. An Initial Assessment Study (IAS) was the first investigation of potentially hazardous sites completed in 1985. The IAS identified areas of concern that might possibly cause threats to human health and the environment as a result of past storage, handling and disposal of hazardous materials. The IAS identified 76 areas of concern and concluded that while none of the sites posed an immediate threat to human health or the environment, further investigations were warranted at 23 of the sites. The Department of the Navy's Installation Restoration Program was initiated in 1986 following enactment of the Superfund Amendments and Reauthorization Act. Camp Lejeune was placed on the Comprehensive Environmental Response, Compensation and Liability Act's National Priorities List (NPL) on Oct. 4, 1989. Pursuant to that listing a Federal Facilities Agreement (FFA) was signed between the United States Environmental Protection Agency (USEPA), the North Carolina Department of Environment and Natural Resources (NCDENR), and the Department of the Navy in Feb. 1991.

The original FFA pertained to 23 of the initial sites identified at Lejeune. Since that time additional sites have been added to the list. There are currently 43 sites in the Installation Restoration (IR) Program. The sites are grouped into 20 Operable Units based on proximity, date of discovery or proximity of the sites. The IR program deals with contaminants such as metals, pesticides, chlorinated solvents, poly-chlorinated byphenols, chemical warfare components and dry cleaning fluids. The Base's Underground Storage Tank (UST) program began in 1988 in conjunction with the adoption of RCRA Subtitle I, 40 CFR 280. Before this adoption, USTs were generally abandoned in place. Initial surveys showed that MCB Camp Lejeune had more than 2,700 tanks in the ground - the majority of which were home heating oil tanks. Camp Lejeune also owned regulated tanks containing other petroleum products, such as gasoline, diesel, kerosene, and aviation fuels.

The IR program has signed final RODs for 19 sites on Camp Lejeune. These RODs include No Further Action for 9 sites, Monitored Natural Attenuation for 2 sites and Long Term Monitoring for 8 sites. We have installed 5 groundwater remediation treatment systems and performed 8 Time Critical Removal Actions. We expect to sign RODs for 5 sites in FY01, complete 8 Remedial Assessments, 2 Treatability Studies, and complete 8 Remedial Investigation/Feasibility Studies. Currently, there are 62 UST sites that have received a no further action status from the NCDENR. Fifty-three sites are being assessed or in the process of having assessment performed, and 12 sites are under review to determine whether or not additional assessment is required. Remediation technologies used in the UST program to remediate contamination include aggressive fluid vapor recovery used at 10 sites, 4 pump and treat systems, soil excavation at 9 sites, soil vapor extraction at 15 sites, air sparging at 16 sites, and natural attenuation at 24 sites. A total of 165 sites have been handled to date. The IR Division spends an average of 8 million dollars a year in assessment and remediation of contaminated sites. To date we have spent a total of \$88,719,412 and the total cost to complete is estimated to be \$143,289,145.

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Enclosure (1)

CAMP GEIGER WATER SYSTEM WELLS

	1941	1942	1943	1951	1977
TC-100					
TC-104					
TC-201					
TC-202					
TC-502					
TC-504					
TC-600					
TC-604					
TC-700					
TC-901					
TC-1000					
TC-1001					
ACTIVE					
NOT IN SERVICE					
ACTIVE WELLS CONNECTED TO MCAS WATER SYSTEM IN 1977					

Table data based on best available information and records as of 12/7/00

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CAMP JOHNSON WATER SYSTEM WELLS								
	1942	1943	1962	1971	1976	1984	1987	2000
M-142								
M-161								
M-197								
M-267								
M-628								
M-629								
M-630								
ACTIVE								
NOT IN SERVICE								

Table data based on best available information and records as of 12/7/00

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COURTHOUSE BAY WATER SYSTEM WELLS						
	1942	1975	1984	1985	1998	2000
BB-43						
BB-44						
BB-47						
BB-218						
BB-220						
BB-221						
BB-280						
BB-281						
ACTIVE						
NOT IN SERVICE						

Table data based on best available information and records as of 12/7/00

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HADNOT POINT SYSTEM WATER WELLS

	*1941	1942	1953	1954	1957	1959	1962	1966	1967	1970	1971	1972	1978	1982	1984	1985	1986	1990	1992	1993	1995	1997	1998	1999	2000		
595																											
596																											
601																											
602																											
603																											
604																											
605																											
606																											
607																											
607a																											
608																											
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621																											
621a																											
622																											
623																											
624																											
625																											
626																											
627																											
627a																											

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*water completed prior to water plant completion

HADNOT POINT SYSTEM WATER WELLS

	1941	1942	1953	1954	1957	1959	1962	1966	1967	1970	1972	1978	1982	1984	1985	1986	1990	1992	1993	1995	1997	1998	1999	2000		
628																										
628a																										
629																										
629a																										
630																										
631																										
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662																										
663																										
709																										
710																										
711																										
5186																										
LCH4006																										
LCH4007																										
LCH4009																										
ACTIVE																										
NOT IN SVC																										

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Table data based on best available information and records as of 12/7/00

HOLCOMB BLVD WATER SYSTEM WELLS							
	1972	1986	1987	1990	1996	1998	2000
557							
558							
617							
618							
619							
643							
644							
645							
646							
647							
648							
649							
650							
698							
699							
700							
701							
703							
704							
705							
706							
707							
708							
ACTIVE							
NOT IN SERVICE							

Table data based on best available information and records as of 12/7/00

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MARINE CORPS AIR STATION SYSTEM WELLS

	1954	1955	1956	1964	1965	1969	1976	1977	1978	1982	1985	1988	1990	1992	1993	1995	1999	2000	
AS-106																			
AS-131																			
AS-190																			
AS-191																			
AS-203																			
AS-210																			
AS-3506																			
AS-4140																			
AS-4150																			
AS-5001																			
AS-5009																			
TC-100																			
TC-104																			
TC-201																			
TC-202																			
TC-325																			
TC-502																			
TC-504																			
TC-600																			
TC-604																			
TC-700																			
TC-901																			
TC-1000																			
TC-1001																			
TC-1251																			
TC-1253																			
TC-1254																			
TC-1255																			
TC-1256																			
VL-101																			
VL-102																			
VL-103																			
VL-104																			
VL-105																			
ACTIVE																			
NOT IN SERVICE																			

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Table data based on best available information and records as of 12/7/00

ON SLOW BEACH WATER SYSTEM WELLS				
	1958	1978	1995	2000
BA-145				
BA-164				
BA-190				
ACTIVE				
NOT IN SERVICE				
Table data based on best available information and records as of 12/7/00				

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RIFLE RANGE WATER SYSTEM WELLS						
	1942	1978	1984	1985	1994	2000
RR-45						
RR-47						
RR-97						
RR-229						
ACTIVE						
NOT IN SERVICE						
Table data based on best available information and records as of 12/7/00						

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TARAWA TERRACE WATER SYSTEM WELLS											
	1952	1962	1963	1972	1973	1982	1983	1984	1985	1987	2000
TT-23											
TT-25											
TT-26											
TT-30											
TT-31											
TT-52											
TT-53											
TT-54											
TT-67											
ACTIVE											
NOT IN SERVICE											

Table data based on best available information and records as of 12/7/00

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Enclosure (R)

CONTAMINATED WELLS AT CAMP LEJEUNE

Well	Construction Date	Sampled Date	Primary Contaminant	Contaminant Level (ppb)	Secondary Contaminant	Contaminant Level (ppb)	Out of Service Date	Remarks
TTWTP								
TT-23	1984	7/84	TCE	37			2/8/85	
TT-25	1982	7/84	TCE	Trace			1/14/87	
TT-26	1952	7/84	TCE	3.9			2/8/85	Returned to service 4/22/85 to 4/29/85
HPWTP								
601	1941	12/4/84	TCE	207	DCE	88	12/6/84	
602	1941	11/30/84	TCE	1600	DCE	630	11/30/84	Benzene, TCA
603	1941	12/4/84	TCE	4.6			5/5/85	
		1/23/85	Not Detected					
		2/16/96	Not Detected					
608	1941	12/4/84	TCE	110	DCE	5.4	12/6/84	
610	1941	10/1/92	TCE	37			12/18/92	
634	1960	12/10/84	Methylene Chloride	130			12/14/84	
637	1970	12/10/84	Methylene Chloride	275			12/14/84	
638	1970	9/28/92	Benzene				11/10/92	
645	1972	11/4/86	Benzene				1/13/87	
651	1972	2/4/85	TCE	18,900	PCE	400	2/4/85	
652	1972	1/16/85	TCE	9			2/8/85	Returned to service
		10/14/93	Not Detected					
653	1978	2/4/85	TCE	5.5			2/8/85	
660	1984	6/6/85	TCE	2.6			12/6/85	Not used for production
LCH-4007	1942	1/12/98	DCE	1.3			2/25/99	
HBWTP								
706	1987	4/8/98	Benzene	4.7	DCE	2	3/10/98	
MCASWTP								
TC-700	1941	1/12/98	Benzene	2.6			2/25/99	Last used in 1995 due to proximity to IR site
AS-106	1954	8/30/93	Not Detected				1/13/87	No records found
		1/12/99	DCE	2.4			5/1/98	Returned to Service
		9/18/93	TCE	Trace			2/25/99	Well secured
AS-4150	1969		Not Detected				2/4/85	Permanently closed
RRWTP								
RR-229	1984	2/4/85	TCE	3.2			2/4/85	Returned to service

Note (1): Table data based on best available information and records as of 12/7/00

Note (2): Current drinking water Maximum Contaminant Levels (MCL): TCE - 5 ppb; DCE - 7.0 ppb; Benzene - 5.0 ppb; Methylene Chloride - 5 ppb

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UNITED STATES MARINE CORPS

MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO:

11000
BFAC
14 Jul 00

Major Thomas A. Townsend (USMC, Ret.)
447 E. Eighth St.
Moscow, Idaho 83843

Dear Major Townsend,

Marine Corps Base, Camp Lejeune has received your June 10, 2000 request for information regarding the origin of the drinking water supplied to MOQ 3219 and MOQ 2509 from 1965-67. Pursuant to your request, Camp Lejeune has determined that the Hadnot - Point plant provided water to the above referenced residences during the time period in question. The Holcomb Boulevard plant was not constructed until 1972.

Regarding your requests for information sent to Headquarters, U.S. Marine Corps, and the Office of the Judge Advocate General (Claims, Investigations, and Tort Litigation), Marine Corps Base, Camp Lejeune is currently searching its records for information that will be responsive to your questions. As soon as such information is located and compiled, we will respond to you. We respectfully ask for your patience while our efforts are underway.

Sincerely,

T. S. PHILLIPS

By direction of the
Commanding General

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Enclosure (4)



UNITED STATES MARINE CORPS

Commanding General
Marine Corps Base
PSC Box 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO

August 4, 2000

Major Thomas A. Townsend (USMC, Ret.)
447 E. Eighth St.
Moscow, Idaho 83843

Dear Major Townsend:

This letter is in response to your letters written June 10, July 6, and July 12, 2000, to the Camp Lejeune Base Engineer, Housing Office and Commanding General. In order to answer your questions, Camp Lejeune personnel conducted a thorough search of all known relevant information. Few documents from the period 1965-67 could be located. However, to the extent that pertinent records were located and responsive to your questions, they are provided below.

Before drafting this letter, Camp Lejeune consulted with other organizations within the Department of the Navy that received your requests for information. Questions that could not be answered by those organizations were forwarded to Camp Lejeune for response. Accordingly, this letter addresses many of your questions to the Office of the Judge Advocate General (Claims, Investigations and Tort Litigation) and Naval Facilities Engineering Command (Atlantic Division).

INFORMATION REQUESTED FROM CAMP LEJEUNE:

1. Confirmation of Quarters from 1965-67 (your June 10th letter).
Enclosure (1) pertains.
2. Request for information about how Camp Lejeune water distribution systems operated from 1965-67 (your June 10th letter). Camp Lejeune operated eight drinking water systems during the years 1965-67 (Tarawa Terrace WTP, Camp Johnson WTP, Hadnot Point WTP, Courthouse Bay WTP, Onslow Beach WTP, Rifle Range WTP, Camp Geiger WTP and MCAS New River WTP). Well fields were connected to only one water treatment plant and each plant had only one distribution system. However, there were auxiliary lines running between the treatment plants for emergency use. The TT WTP was connected to the CJ WTP with an emergency treated water line, and the MCAS NR WTP was

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connected to the CG WTP with an emergency treated water line. These were the only plants with connecting lines.

3. Name and Address of Camp Lejeune Freedom of Information Act point of contact (your July 6th letter).
Gunnery Sergeant Fernando Piza, USMC
PSC Box 20004
Camp Lejeune, NC 28542
4. Information about timeframe for implementation of Trihalomethane testing at Camp Lejeune (your July 12th letter). Enclosures (2) through (5) pertain.
5. Information about water quality standards 1965-67 (your July 12th letter). Responsive records for 1965-67 timeframe could not be located. However, enclosures (6) through (8) may be pertinent.
6. Who did water quality monitoring 1965-67, base or contract personnel, and were such personnel certified under any state or federal regulations (your July 12th letter)? A Base chemist working in the Hadnot Point Water Treatment Plant conducted water quality and bacteriological analysis. No responsive information could be located on certification requirements during that time period.
7. Were there any reportable events of prohibited compounds 1965-67 or violations of water quality standards (your July 12th letter)? No responsive information could be located.
8. What was the source of water to Major Townsend's quarters 1965-67 (your July 12th letter)? The Hadnot Point Water Treatment Plant supplied water to MOQ 3219 and MOQ 2509 1965-1967.
9. Which wells provided water to the Hadnot Point Plant 1965-67, and which of these wells were later found to be contaminated by Volatile Organic Compounds (your July 12th letter)? During 1965-67, wells 601, 602, 603, 606, 608, 609, 610, 611, 612, 613, 614, 616, 617, 619, 620, 621, 625, 626, 627, 628, 629, 630, 632, 633, 634, 635, 636, 640, LCH 4007 and LCH 4009 supplied water to the Hadnot Point System. Wells 601, 602, 603, 608 and 634 were later shut down after contamination was detected in the early 1980's.
10. What areas did the wells in Tarawa Terrace supply 1965-67 (your July 12th letter)? Tarawa Terrace. Enclosure (9) pertains.

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Enclosure (5)

11. How many water systems were operating aboard Camp Lejeune 1965-67? Were they interconnected (your July 12th letter)? See paragraph #2 above.

12. What public notices were published in the context of VOC contamination prior to the release of the ATSDR Public Health Assessment in 1998, and why did it take so long to release this information to the public (your July 12th letter)? VOC contamination in Hadnot Point and Tarawa Terrace was discussed in the Camp Lejeune base newspaper "The Globe" in articles written in 1985 and 1989. Enclosures (10) through (13) pertain. It is possible that other notices appeared in "The Globe" and/or other publications, though further responsive documents could not be located. As to public notification requirements, enclosure (14) may pertain.

INFORMATION REQUESTED FROM THE OFFICE OF THE JUDGE ADVOCATE GENERAL (CLAIMS, INVESTIGATIONS, AND TORT LITIGATION)

13. What levels of testing and maximum contaminant levels for Trihalomethanes and Volatile Organic Compounds were required from 1960 onward (your June 14th letter)? Enclosures (2) through (5) and (14) through (16) may pertain.

14. What role did NACIP play in the monitoring effort, when was this organization established, what Naval department controls NACIP, and what was NACIP's mission (your June 14th letter)? Enclosures (17) through (18) pertain.

INFORMATION REQUESTED FROM THE NAVAL FACILITIES ENGINEERING COMMAND (ATLANTIC DIVISION)

15. Request for "as built" maps of Camp Lejeune water distribution systems including Married Officers Housing in Paradise Point (your June 26th letter). Enclosures (9) and (19) pertain.

16. Request for description of water distribution system and treatment process (your June 26th letter). Paragraph 2 pertains.

17. Did NAVFACENGCOCM have oversight of water monitoring programs at Camp Lejeune after construction of facilities (your June 26th letter)? Enclosures (2) through (5), (7), (17), (18), (20) and (21) pertain.

18. What water quality standards were in place 1968-70 (your June 26th letter)? Enclosures (6) and (7) pertain.

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19. What are the functions of the NACIP and IRP programs (your June 26th letter)? Enclosures (17), (20), and (22) pertain. Additionally, all public records describing the NACIP and IRP programs at Camp Lejeune may be found on the internet at <http://www.bakerenv.com/camplejeune>.

Camp Lejeune trusts this information will be helpful to you. We have been informed that the Naval Facilities Engineering Command (Atlantic Division) will also be responding to your request for records under separate cover.

Sincerely,



A. J. KARLE
Colonel, U. S. Marine Corps
Chief of Staff

Enclosures:

- (1) Occupancy Housing Records for MOQ 2509 and 3219.
- (2) 18 July 1980, Memorandum from Commander, Atlantic Division, Naval Facilities Engineering Command to Distribution.
- (3) 5 February 1982, Memorandum from Commander, Atlantic Division, Naval Facilities Engineering Command to Naval Facilities Engineering Command.
- (4) 12 February 1982, Memorandum from Commander, Atlantic Division, Naval Facilities Engineering Command to Commanding General, MCB, Camp Lejeune.
- (5) 25 February 1982, Memorandum from Commander, Atlantic Division, Naval Facilities Engineering Command to Chief, Bureau of Medicine and Surgery.
- (6) 1970, North Carolina Surface Water Quality Standards.
- (7) 13 December 1972, BUMEDINST 6240.3C.
- (8) June 1976, Navy Environmental Support Office, "Applicability of National Interim Primary Drinking Water Standards to Navy Shore Facilities."
- (9) 1999 Maps of Tarawa Terrace, Hadnot Point and Holcomb Boulevard Water Distribution Systems.
- (10) 9 May 1985, *The Globe*, "Water Discipline Now Can Prevent TT Shortage."
- (11) 31 August 1989, *The Globe*, "Base Taps Into Drinking Water Concerns."
- (12) 7 September 1989, *The Globe*, "Efforts Underway to Ensure Safe Drinking Water."
- (13) 14 September 1989, *The Globe*, "Measures Taken to Prevent Future Water Contamination."

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- (14) July 8, 1987, 52 Fed Reg. 25690, U.S. Environmental Protection Agency: National Drinking Water Regulations; Synthetic Organic Chemicals; Monitoring for Unregulated Contaminants.
- (15) 26 November 1979, U.S. Environmental Protection Agency, Suggested No Adverse Response Level for Trichloroethylene.
- (16) 10 February 1980, U.S. Environmental Protection Agency, Suggested No Adverse Response Level for Tetrachloroethylene.
- (17) February 1992, Navy/Marine Corps Installation Restoration Manual, Chapters 1-2.
- (18) 14 January 1982, Memorandum from Officer in Charge, Naval Energy and Environmental Support Activity, Atlantic Division to Distribution.
- (19) 1965-1967, "As Built" Maps of Hadnot Point Distribution System.
- (20) April 1983, Initial Assessment Study of Marine Corps Base Camp Lejeune, North Carolina.
- (21) 23 February 1978, Letter from Atlantic Division, Naval Facilities Engineering Command to Mr. Charles E. Rundgren, Division of Health Services, State of North Carolina.
- (22) 18 July 1994, Camp Lejeune Base Order 6280.1A, Installation Restoration Program/Hazardous Waste Site Cleanup Implementation.

Copy to:

ATSDR
DON (OJAG)
HQMC (I&L)
HQMC (CL)
HQMC (PA)

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UNITED STATES MARINE CORPS

Commanding General
Marine Corps Base
PSC Box 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO

August 16, 2000

Major Thomas A. Townsend (USMC, Ret.)
447 E. Eighth St.
Moscow, Idaho 83843

Dear Major Townsend:

In reply to your letter written August 10, I want you to know that the commanding general and his staff here all care deeply about the welfare of our Marines and their families. We also care about our extended Marine Corps family, the retired community. This is why we have cooperated to the maximum extent possible with the Agency for Toxic Substances and Disease Registry (ATSDR) in their study of past residents of Camp Lejeune.

In addition to our support of the ATSDR, we have continued in our public information campaign by coordinating the release, through HQMC, of a message to reach all Marines (AlMar) that lists all the pertinent information about the study and the Volatile Organic Compound (VOC) contamination aboard the base prior to 1985. Shortly, this message will be available on our web site and in base and station newspapers across the country and beyond her borders.

As you review the information we sent to you earlier this month, please let me know if you have any further questions we may be able to answer.

Sincerely,

Copy

A. J. KARLE
Colonel, U. S. Marine Corps
Chief of Staff

Copy to:
ATSDR
DON (OJAG)
HQMC (I&L)
HQMC (CL)
HQMC (PA)

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Enclosure (6)



UNITED STATES MARINE CORPS

Commanding General
Marine Corps Base
PSC Box 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO
November 6, 2000

Major Thomas A. Townsend, USMC (Ret.)
447 E. Eighth Street
Moscow, Idaho 83843

Dear Major Townsend,

This is in response to your October 16 letter, which references your letters of September 11, 16 and 25, 2000, and your telephonic question asked of Capt Crouch, Camp Lejeune Public Affairs, October 19, 2000.

Your September 25 letter asks about the use of a particular commercial laboratory to test water at Camp Lejeune. Our analytical contractor, Baker Environmental, Inc. (site investigation/characterization consultant) used a laboratory called Inchape (the parent company is Intertech) on some work in 1994 at Site 35. They used the Richardson Laboratory, which was investigated. All analysis done by the lab was third-party validated by Heartland Environmental Services as a standard practice. There was no indication that any of the data provided to Baker from Intertech was inaccurate. Baker has supplied all supporting documentation to the Navy, the United States Environmental Protection Agency, the Dept. of Justice and the U.S. Attorney's Office in Dallas in support of their investigations. We know of no other instances of the use of this lab by Camp Lejeune. After 1994, Baker used Ceemic Laboratory and Quantara Laboratory to perform analytics.

In your September 16 letter you asked two questions: What are "areas of concern" for 902, 1202 and 1602 and what were these structures used for during the period of 1960-1985? As you correctly assess, these numbers are buildings in the Hadnot Point Industrial Area (HPIA). These buildings, as indicated in the ROD (Record of Decision) for OU (Operable Unit) 6, Site 78, HPIA, may have been adjacent to areas of contaminated soils or groundwater. Building 902 is believed to have been a combined use facility that housed a vehicle maintenance shop, small arms maintenance shop and field maintenance shop. Building 1202 is the Base Maintenance Headquarters Building. Building 1602 was used as an Electronics/Communications maintenance shop.

In response to your September 11 letter, Camp Lejeune previously answered your question regarding water quality standards from 1965-67 to the full extent that responsive information was available. Your second area of interest concerns IRD's (Installation Restoration Division) comments on LANTDIV's (Atlantic Division of Naval Facilities Engineering Command) handling of the Administrative Record (AR). LANTDIV is the appointed administrator of the AR. LANTDIV undertook the project to put this information on the Internet earlier this year. Due to the sheer volume of information contained in this record and the challenge of trying to get it uploaded and be searchable, there may be minor glitches yet to work out. Ultimately, however, the AR on the Internet will provide the greatest number of people access to documents related to industrial contamination and remediation at Camp Lejeune. I can assure you that Camp Lejeune will continue to assist LANTDIV in its efforts to ensure the AR is complete.

Your second September 11 letter requests two documents from IRD. The first document requested was prepared by the United States Geological Survey entitled "Groundwater Resources of the Camp Lejeune Marine Corps Base Water Use Data, A preliminary Geohydrologic

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Enclosure (7)

Framework and Water Level Data," dated 6/2/1987. Camp Lejeune does not have a copy of this document available for distribution. You may wish to contact the U.S. Geological Survey at <http://www.usgs.gov/> to obtain this document directly from USGS.

The second document requested was "Hadnot Point Characterization Study Report." Searches have disclosed no records under this title. The closest document we have been able to locate is the "Characterization Step Report For Hadnot Point Industrial Area" dated March 1988. We located this document in the Camp Lejeune Administrative Record that, as previously described, is available to you on the Internet at <http://www.bakerenv.com/camplejeune/>.

On 19 October you called to ask who provides or provided water to Knox Trailer Park. The Holcomb Boulevard Water Treatment Plant serves Knox Trailer Park. Prior to the expansion of the Holcomb Boulevard plant in 1987, Knox was primarily served by the Tarawa Terrace (TT) Water Treatment Plant. Some water was provided by the Camp Johnson Water Treatment Plant when the TT plant was undergoing maintenance. Altogether, approximately, 80% was supplied by TT and approximately 20% came from Camp Johnson.

By now, I trust that you have seen the news reports concerning this topic. Headquarters Marine Corps Public Affairs is taking the lead, with assistance from Camp Lejeune, in getting as many people as possible to participate in the ATSDR's survey.

Throughout this process, we have made a diligent effort to assist ATSDR in reaching and informing potential survey participants about this study. We have established several methods to provide information to the public and to answer questions raised by you and other interested individuals. As you are aware, Marine Corps Base Camp Lejeune has established a web site at, <http://www.lejeune.usmc.mil/watersurvey.html>, that contains specific information about this survey and our Installation Restoration Program Administrative Record is also available at <http://www.bakerenv.com/camplejeune/>. Additionally, the Marine Corps established a toll-free telephone number, (877) 261-9782, to answer questions about this issue.

At this time, our primary focus is to continue to clean up areas contaminated in the past, and to provide ATSDR assistance with their survey, as we are very concerned about the welfare of all Marines, Sailors, and their families. Specific questions regarding the survey, and concerns related to the effects of potential exposure to contaminants should be directed to ATSDR at their toll free number, (888) 42-ATSDR, extension 5132.

We encourage you in the future to use the above mechanisms to continue to track the progress of this issue. We have made every effort to provide you with the most complete and responsive answers possible.

Sincerely,



A. J. KARLE
Chief of Staff

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