



State of North Carolina  
Department of Environment, Health, and Natural Resources

Wilmington Regional Office

DIVISION OF ENVIRONMENTAL MANAGEMENT  
Groundwater Section

Bob Jamieson  
Regional Manager

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary

March 30, 1995

CERTIFIED MAIL Z 275 499 126  
RETURN RECEIPT REQUESTED

OPTIONAL FORM 99 (7-90)

18 Jun 99

FAX TRANSMITTAL

# of pages - 1 of 11

Mr. Robert L. Warren  
Assistant Chief of Staff  
Environmental Management  
United States Marine Corps  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, North Carolina 28542-0004

To	Lon Reuther	From	Nikki Hall
Dept./Agency	LANTDIV	Phone #	9104519610
Fax #	7573224804	Fax #	5997

NSN 7540-01-317-7368

5089-101

GENERAL SERVICES ADMINISTRATION

Subject: Review of Tank Closure Reports  
United States Marine Corps Base  
Camp Lejeune  
Onslow County

Dear Mr. Warren:

The Division of Environmental Management has reviewed several site assessment reports submitted to the office by the Marine Corps for various on base sites. These site assessment reports consisted of a three well site check and tank closure sites to determine if any groundwater impacts had occurred. The Division of Environmental Management offers the following:

Building AS-118: The second tank closure at this site, (a 550 steel tank adjacent to the building) will require immediate action. No soil samples were taken during excavation. A tank pit water sample showed contamination. While none of the wells showed groundwater violations, these wells were located upgradient from the tank pit. In addition, the consultant was unsure if the excavated material had been removed or used as backfill. The Division requests that further investigation be completed at this site.

Building BB-71: This site contained a 500 gallon UST used for waste oil. The soil taken from the excavation was contaminated. The Division feels that the well locations at this site may no be effective in determining significant downgradient contamination and that additional wells are necessary. In addition, the consultant is unsure of the destination of the soil from the excavation. Further investigation is necessary at this site.

Mr. Robert L. Warren  
March 30, 1995  
Page Two (2)

Building AS-849: This site requires immediate action. The tank removed was a 550 diesel tank. Water in the excavation showed free product. The well locations do not sufficiently define any possible contamination at this site. Further investigation, to include additional monitoring wells, is requested immediately.  
NFA (NLH)  
Ltr 9/23/96

Building 903: This tank closure will require additional work. A composite sample from the site showed some contamination. Again the consultant is unsure of the soil destination. The soil may have been used for backfill at the site. The site may need to be re-excavated.  
NFA  
Ltr 11/4/96

Building AS-843: This 550 gallon tank site for diesel storage will require immediate action. Water and soil samples from wells near the pit area were clean, however, a water sample no submitted for analysis contained free product on the surface. Due to this free product, immediate, further investigation is necessary. This site may require additional wells to fully determine the extent of the problem on site.

✓ Building AS-804: This tank site also contained free product on the water sample taken from the excavation pit. It appeared that only one well was located downgradient from the tank pit. There may not be sufficient information to determine the extent of the problem at this site. Again, the Division recommends immediate action for this site.  
NFA (NLH)  
Ltr 8/20/96

USTS 1607-1 and 1607-2: These two tank pulls are considered to be low priority sites, however, these sites will require some additional work. The site had some soil contamination, but the wells did not show groundwater contamination. Soil venting may be a suitable option for this location.  
NFA Ltr dated 2/1/99

✓ Building FC-120: This was a 1,000 gallon tank used for waste oil storage. The investigation showed oil and grease soil contamination on two unidentified boring locations. While three wells were installed in close proximity, only one well was located downgradient. The Division recommends further investigation at this site.  
NFA (NLH)  
Ltr 7/15/96

After review of the three well site checks, the following tanks pull sites require no further action:

Building AS-118 (the first tank located near Bancroft road), Building FC-201, UST 61, site AS-3504, UST FC-102, UST BA-130/SBA-131, and UST AS-4146-3.

Please begin to address the sites of immediate concern. The submittal of a comprehensive site assessment and corrective action plan are required in accordance with 15A NCAC 2L .0106.

Should you have any questions, please contact Diane Rossi at (910) 395-3900.

Sincerely,

Post-it Fax Note 7671  
Date 4-6-95 # of pages 2  
To Park Spangler  
From Susan Spangler  
Co. [unclear]

3/30/95

State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Wilmington Regional Office  
Division of Water Quality  
Groundwater Section



James B. Hunt, Jr., Governor  
Wayne McDevitt, Secretary

August 25, 1997

Commanding General  
MCB  
Attn: Mr. Rick Raines, AC/S EMD/IRD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Dear Rick:

Please find enclosed, copies of "no further action" letters or ranking letters previously sent to your office for sites 1815/S-1813-1,2; M-101-1; 178-1; 1736; 1880; and 600. I have crossed these sites off the closure request list previously sent to me by Jennifer Casey. If further input on these sites is needed from this office, please notify me. Please let me know if I can be of further assistance.

Sincerely,

*Patricia C. Coughlan*

Patricia C. Coughlan *(Signature)*

PCC\gjjg

cc: WiRO

patricia\usmc\aug97#2.ltr

Rick  
8/27  
Closure letters!

State of North Carolina  
Department of Environment  
and Natural Resources  
Wilmington Regional Office  
Division of Waste Management  
UST Section

Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
Dexter R. Matthews, Interim Director



October 11, 2001


Ms. Nikki Hall  
Attention: Director, I&E/EMD  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Subject: Time Extensions  
USMC-Camp Lejeune, Bldgs. 1502,<sup>ac</sup>  
A-47-4,<sup>ac</sup> AS-2094 (Patrick Street),<sup>ac</sup>  
AS-142, TT-2634 <sup>ac</sup>  
Camp Lejeune, Onslow County

Dear Ms. Hall:

The Division has reviewed the subject time extension requests that were received by this office on July 16, 2001. The extensions are hereby granted. The new due date for the required reports listed above is April 1, 2002. If these reports are not received by April 1, 2002, fines and penalties may be assessed from the original due dates.

If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,  
  
Bruce Reed  
Hydrogeologist II

Attachment

BR

cc: WiRO-UST

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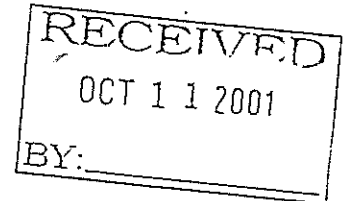


UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
PSC Box 20004  
Camp Lejeune, North Carolina 28542-0004

IN REPLY REFER TO:  
6287  
BEMD

10 JUL 2001

Mr. Bruce Reed  
North Carolina Department of Environment  
and Natural Resources  
Division of Waste Management  
UST Section  
127 Cardinal Drive  
Wilmington, North Carolina 28405-3845



Dear Mr. Reed:

Camp Lejeune recently received Notice Of Regulatory Requirement (NORR) letters from your office requiring assessment work at the following underground storage tank sites: 1502, A47-4, AS2094 (Patrick Street), AS142, and TT2634. We would like to request an extension of the due dates for these sites, as we have depleted current year funds conducting other NORR required assessments.

We should receive fiscal year 2002 funds sometime during the first quarter, October - December 2001. We anticipate forwarding the required information to your office by April 2002. The required work will be performed as soon as funds are available. If any delays are expected in the proposed delivery date, we will contact you immediately.

If you have additional questions or concerns, please call Ms. Nikki Hall, Installation Restoration Branch, Environmental Management Division, Installations and Environment Department, at (910) 451-9610.

Sincerely,

SCOTT A. BREWER, PE  
Director, Environmental Management Division  
By direction of  
the Commanding General

Copy to:  
NAVFACENGCOM (Ms. Reuther Code 18215)

OPTIONAL FORM 99 (7-90)

11 Oct 2001

FAX TRANSMITTAL

# of pages 1/1

To	Mr. Bruce Reed	From	Nikki Hall
Dept./Agency	NC DENR/DWM/UST	Phone #	910.451.9610
Fax #	910.350.2004	Fax #	.5997

State of North Carolina  
Department of Environment  
and Natural Resources  
Wilmington Regional Office  
Division of Waste Management  
UST Section

Michael F. Easley, Governor  
William G. Ross Jr., Secretary



March 6, 2001

Ms. Nikki Hall  
United States Marine Corps  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

*Nikki;*  
*See last sentence. Will we*  
*meet deadlines?*  
*N-3*  
*12*

Subject: Time Extensions  
USMC-Camp Lejeune-Bldgs. AS-146, H-31,  
JP5 Fuel Line Leak, 20-1, 311, 1323, A-47-5,  
AS-114/2, AS-118/2, AS-605, AS-4146, and  
M-171  
Camp Lejeune, Onslow County

Dear Ms. Hall:

The Division has reviewed the subject time extension requests that were received by this office on March 5, 2001. The extensions are hereby granted. The new due dates for the required reports are the last day of the month, for the respective months listed in the USMC's March 1, 2001 letter. If these reports are not received by the new due dates, fines and penalties may be assessed from the original due dates.

If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,

Bruce Reed  
Hydrogeologist II

Attachment

BR

cc: WIRO-UST

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

**RECEIVED**  
 MAR 05 2001  
 BY: \_\_\_\_\_

IN REPLY REFER TO:  
 6287  
 BEMD  
 MAR 01 2001

Mr. Bruce Reed  
 North Carolina Department of Environment  
 and Natural Resources  
 Division of Waste Management  
 UST Section  
 127 Cardinal Drive  
 Wilmington, North Carolina 28405-3845

Dear Mr. Reed:

Camp Lejeune received Notice Of Regulatory Requirement (NORR) letters from your office requiring additional action at the following underground storage tank program sites: 20-1, 311, 1323, A47-5, AS114/2, AS118/2, AS146, AS605, AS4146, H31, JP5 Fuel Line Leak, and M171. We respectfully request an extension of the due dates for these sites as Camp Lejeune only recently received funding in order to carry out the requirements.

Since there are twelve sites awaiting work, assessment activities will commence in order of due date (i.e. the AS146 Limited Site Assessment will be performed first). It will take time to complete fieldwork and reports review; therefore, the following dates are requested:

<b>SITE</b>	<b>TIME EXTENSION REQUESTED (by end of the month)</b>
AS146	8/2001
H31	9/2001
JP5 Fuel Line Leak	9/2001
20-1	10/2001
311	10/2001
1323	10/2001
A47-5	10/2001
AS114/2	10/2001
AS118/2	10/2001
AS605	10/2001
AS4146	10/2001
M171	10/2001

State of North Carolina  
Department of Environment  
and Natural Resources  
Wilmington Regional Office  
Division of Waste Management  
UST Section

Michael F. Easley, Governor  
William G. Ross Jr., Secretary



July 13, 2001

Ms. Nikki Hall  
Attention: Director, I & L/EMD/IRB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Subject: Time Extensions  
USMC-Camp Lejeune, Bldgs. 333-2,  
1919-1, 1919-2, 1919-3, BB-30  
Camp Lejeune, Onslow County

Dear Ms. Hall:

The Division has reviewed the subject time extension requests that were received by this office on June 25, 2001. The extensions are hereby granted. The new due date for the required reports listed above is December 14, 2001. If these reports are not received by December 14, 2001, fines and penalties may be assessed from the original due dates.

If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,

Bruce Reed  
Hydrogeologist II

Attachment

BR

cc: WIRO-UST

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State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Wilmington Regional Office  
Division of Water Quality  
Groundwater Section



James B. Hunt, Jr., Governor  
Wayne McDevitt, Secretary

August 14, 1997

Commanding General  
MCB  
Attn: Mr. Rick Raines, AC/S EMD/IRD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Dear Rick:

Please find enclosed, copies of "no further action" letters previously sent to your office for sites M-90, AS-849, and Bldg M-230-1. I have crossed these sites off the list previously sent to me by Jennifer Casey. If further input on these sites is needed from this office, please let me know.

I received a copy of your incident database via facsimile today. The rankings you provided will be sufficient for now. When I receive a site map depicting the incident and supply well locations I will check the ranking. I will add a number to the ranking when the site files are reviewed and send a ranking letter for each site. If I find any sites where the contamination has been completely remediated and the required samples have been collected, I will send a closure letter. Please let me know if I can be of further assistance.

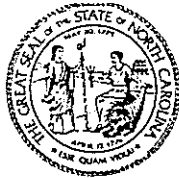
Sincerely,

Patricia C. Coughlan

PCC\

cc: WIRO

gws\usmc\patricia\aug1997.ltr



State of North Carolina  
Department of Environment, Health, and Natural Resources

James B. Hunt, Jr.  
Governor

Wilmington Regional Office  
DIVISION OF WATER QUALITY  
Groundwater Section

Jonathan B. Howes  
Secretary

July 22, 1996

Mr. Robert L. Warren  
USMC/MCB  
ATTN AC/S EMD/IRD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Subject: **REQUEST FOR SITE CLOSURE  
UNDERGROUND STORAGE TANK SITE  
BLDG M-90**

Dear Mr. Warren:

On December 27, 1995, the Division of Water Quality (DWQ), formerly the Division of Environmental Management, received a request for site closure at the above referenced site. Since heavy fuel soil contamination remains at the site, your request for site closure cannot be granted. However, because all known soil contamination is below the action level of 250 parts per million for heavy fuels, no further action is necessary at this time.

Should you have questions concerning this letter or require additional information, please call Patricia Coughlan at (910) 395-3900.

Yours very truly,

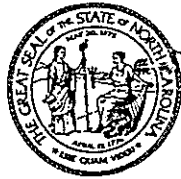
A handwritten signature in black ink, appearing to read "C.F. Stehman".

Charles F. Stehman, Ph.D., P.G.  
Environmental Supervisor I

CFS/PCC/gjg

cc: WiRO-GWS  
Mr. Paul Humphrey  
Mr. Brent Rowse

s: PATRICIA\USMC\BLDGM-90.NFA



State of North Carolina  
Department of Environment, Health, and Natural Resources

James B. Hunt, Jr.  
Governor

Wilmington Regional Office  
DIVISION OF WATER QUALITY  
Groundwater Section

Jonathan B. Howes  
Secretary

September 23, 1996

Mr. Robert L. Warren  
USMC/MCB  
ATTN AC/S EMD/IRD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

**Subject: REVIEW OF THREE WELL SITE CHECK  
AND ONE WELL SITE CHECK AT  
UNDERGROUND STORAGE TANK SITE  
BLDG AS-849**

Dear Mr. Warren:

The Division of Water Quality (DWQ), formerly the Division of Environmental Management, is currently in receipt of two reports submitted for the above referenced site entitled, "Three Well Site Check" and "One Well Site Check". According to those reports, high boiling point hydrocarbon soil contamination (230 parts per million) remains at the site. Since soil contamination remains at the site, closure cannot be granted at this time. However, since there is no evidence of soil contamination above the Site Sensitivity Evaluation (SSE) set clean up level of 320 parts per million, no further action is required at this time.

Should you have questions concerning this letter or require additional information, please call Patricia Coughlan at (910) 395-3900.

Yours very truly,

A handwritten signature in black ink, appearing to read "C. F. Stehman".

Charles F. Stehman, Ph.D., P.G.  
Environmental Supervisor I

CFS/PCC/gjg

cc: WIRO-GWS

s:\PATRICIA\USMC\AS-849.NFA



State of North Carolina  
Department of Environment, Health, and Natural Resources

James B. Hunt, Jr.  
Governor

Wilmington Regional Office  
DIVISION OF WATER QUALITY  
Groundwater Section

Jonathan B. Howes  
Secretary

September 17, 1996

Mr. Paul Humphrey  
USMC/MCB  
ATTN AC/S EMD/IRD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Subject: **REVIEW OF TANK CLOSURE REPORT  
UNDERGROUND STORAGE TANK SITE  
BLDG M-230-1**

Dear Mr. Humphrey:

The Division of Water Quality (DWQ), formerly the Division of Environmental Management, is currently in receipt of a report submitted for the above referenced site entitled "Tank Closure by Removal". Since diesel fuel soil contamination remains at the site, site closure cannot be granted. However, because all known soil contamination is at or below the Site Sensitivity Evaluation (SSE) set action level of 800 parts per million for heavy fuels, no further action is required at this time.

Should you have questions concerning this letter or require additional information, please call Patricia Coughlan at (910) 395-3900.

Yours very truly,

A handwritten signature in black ink, appearing to read "C. F. Stehman".

Charles F. Stehman, Ph.D., P.G.  
Environmental Supervisor I

CFS/PCC/gjg

cc: WIRO-GWS

s:\PATRICIA\USMCM-230-1.NFA

State of North Carolina  
Department of Environment  
and Natural Resources  
Wilmington Regional Office  
Division of Waste Management  
UST Section

James B. Hunt, Jr., Governor  
Wayne McDevitt, Secretary

OPTIONAL FORM 99 (7-90)

20 Aug 2001

<b>FAX TRANSMITTAL</b>		# of pages ▶ 1/1
To <i>Mike E Mason</i>	From <i>Nikki Hall</i>	
Dept./Agency <i>CATLIN</i>	Phone # <i>910.451.9610</i>	
Fax # <i>910.452.7563</i>	Fax # <i>.5997</i>	
NSN 7540-01-317-7368	5099-101	GENERAL SERVICES ADMINISTRATION
Fax # <i>802624804</i>	Fax # <i>910.451.5997</i>	
NSN 7540-01-317-7368	5099-101	GENERAL SERVICES ADMINISTRATION

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✓ 8/24

August 23, 1999

Ms. Nikki Hall  
United States Marine Corps  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Subject: Review of Site Documentation  
USMC-Camp Lejeune-Bldg. UST-728  
Incident No. Pending  
Camp Lejeune, Onslow County  
**(Gottschalk Marina)**

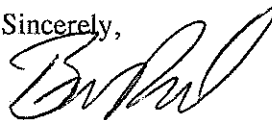
Dear Ms. Hall:

Thank you for providing site documentation to this office on August 11, 1999. After reviewing information relating to this incident, the UST Section needs the following information to consider closure of this UST incident:

1. Soil samples from the south, east, and west sides of the former tank basin, as well as the tank basin itself (as the closure report stated that impacted soils were placed back into the basin), are needed to confirm that soil contamination does not exist at the former tank area. It is important that these soil samples are obtained from above the capillary-fringe area of the subsurface.
2. Since a monitoring well was not constructed in the tank basin and no statement concerning the possible presence of free-product was found in the tank closure report, please provide additional information that resolves the free-product issue.

After this information is received, we can complete the closure review of this incident. The Division suggests that Camp Lejeune contact David Lown at the Division's Raleigh Central Office for his comments pertaining to the paint-shed incident. Thank you for your continued cooperation in conjunction with this site. If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,



Bruce Reed  
Hydrogeologist II

BR

cc: WiRO-UST, David Lown  
s:\ust\bruce\hall728.aug