



UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542

FAC/REA/e1
6280/2

From: Commanding General
To: Commander, Atlantic Division, Naval Facilities Engineering
Command, Norfolk, Virginia 23511 (Attn: Code 114)
Subj: N.A.C.I.P. Confirmation Study; construction of monitoring
wells for
Ref: (a) CG, MCB ltr FAC/REA/6280 dtd 3 Jan 1984
Encl: (1) Dir., N.C. Division of Environmental Management ltr
(undated) w/enclosed Well Record Forms

1. Per the request at the reference, the enclosure is forwarded indicating state approval for construction of the monitoring wells. In accordance with the enclosure, this command requests that LANTDIV include provisions in the confirmation study contract specifically for the following:

a. Compliance with paragraphs 1 - 4 of the enclosure for well construction.

b. Submission of well completion records per paragraph 5 to Marine Corps Base.

c. Notification of both Marine Corps Base and the Wilmington Regional Office prior to construction.

d. Abandonment of wells per state regulations (15 NCAC 2C) and submission of the report to Marine Corps Base.

2. Point of contact for this matter is Mr. Alexander, (AV) 484-3034.

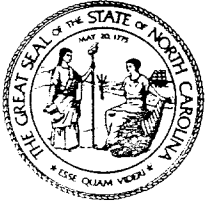
M. G. LILLEY
By direction

Copy to: (w/encl)
CMC (LFF-2)

Blind copy to: (w/encl)
PWO
BMO
NREAD
Env Engr

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North Carolina Department of Natural Resources & Community Development

James B. Hunt, Jr., Governor

Joseph W. Grimsley, Secretary

DIVISION OF
ENVIRONMENTAL
MANAGEMENT

Robert F. Helms
Director

Telephone 919 733-7015

Colonel M. G. Lilley
U. S. Marine Corps
Assistant Chief of Staff, Facilities
Marine Corps Base
Camp Lejeune, North Carolina 28542

Subject: Issuance of Variance to
Well Construction Standards
Camp Lejeune
Onslow County

Dear Colonel Lilley:

The United States Marine Corps is hereby granted permission to construct fifty-five (55) wells in variance to 15 NCAC 2C .0108(b)(2). The wells will be used to monitor groundwater quality at several sites located on the Camp Lejeune Marine Corps Base.

The variance is granted under the following conditions:

1. The wells must be located and constructed as shown in the diagrams submitted as part of the variance request.
2. The casing shall be installed in such a way as to insure the proper distribution of grout, bentonite, and gravel.
3. All identification and well head completion shall comply with the well construction standards.
4. Each well shall have a locking cap and a highly visible sign stating that the well is for monitoring purposes only, and not for a potable water supply.
5. A completed GW-1 ("Well Record" forms enclosed as requested) and a copy of the variance approval shall be submitted for each well constructed. A diagram may be submitted for much of the information on the GW-1 if attached to a GW-1.
6. When a monitor well is no longer useful for its intended purpose or its use is discontinued, it should be properly abandoned and an abandonment report filed.
7. The Wilmington Regional Office shall be notified prior to the construction of the wells.

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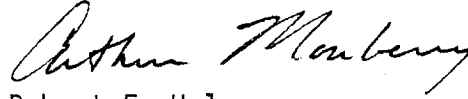
POLLUTION PREVENTION PAYS

Colonel M. G. Lilley
Page 2

The variance granted in this letter under the stated conditions does not exempt any other provisions in 15 NCAC 2C.

If you have questions or need further assistance, please contact Rick Shiver at telephone number (919) 256-4161.

Sincerely,



for Robert F. Helms
Director

RFH/MM/sf

cc: Perry Nelson
Central Files
Wilmington Regional Office

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NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR _____ REG. NO. _____ WELL CONSTRUCTION PERMIT NO. _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: _____ County: _____
_____ (Road, Community or Subdivision and Lot No.) _____ Quadrangle No. _____

2. OWNER: _____

DRILLING LOG

3. ADDRESS: _____

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH
FROM TO FORMATION DESCRIPTION

5. USE OF WELL: _____ DATE: _____

6. DOES THIS WELL REPLACE AN EXISTING WELL? _____

7. TOTAL DEPTH: _____ RIG TYPE OR METHOD: _____

8. FORMATION SAMPLES COLLECTED: YES _____ NO _____

9. CASING: Depth Inside Wall thick. type
Dia. or weight/ft.
From _____ to _____ ft _____
_____ _____
_____ _____

10. GROUT: Depth Material Method
From _____ to _____ ft _____

11. SCREEN: Depth Dia. Type & Opening
From _____ to _____ ft _____
_____ _____
_____ _____

If additional space is needed, use back of form

LOCATION SKETCH
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material
From _____ to _____ ft _____

13. WATER ZONES (depth): _____

14. STATIC WATER LEVEL: _____ ft. ^{above} _{below} top of casing
Casing is _____ ft. above land surface ELEV: _____

15. YIELD (gpm): _____ METHOD OF TESTING: _____

16. PUMPING WATER LEVEL: _____ ft.
after _____ hours at _____ gpm.

17. CHLORINATION: Type _____ Amount _____

18. WATER QUALITY: _____ TEMPERATURE (°F) _____

19. PERMANENT PUMP: Date Installed _____
Type _____ Capacity _____ (gpm) HP _____
Make _____ Intake Depth _____
Airline Depth _____

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? _____

21. REMARKS _____

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

SIGNATURE OF CONTRACTOR OF AGENT _____ DATE _____

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copy of
report to

CLW

FAC/REA/hf
6280

N.C. Division of Environmental Management
Groundwater Section
Attn: ~~Mr. Arthur Mouberry~~ *Ms. Gloria McClellan*
P. O. Box 27687
Raleigh, NC 27611

Re: Request for Approval
Groundwater Monitoring Wells
Camp Lejeune, NC

Dear Mr. Mouberry:

This letter follows the telephone discussion between you and Mr. Alexander of this office on 21 December 1983. The purpose of this letter is to request approval of construction of groundwater monitoring wells. These wells are described as follows:

Number: 55
Location: See attached maps of enclosures (1) and (2)
Depth: 25 ft
Diameter: 2 inches
Materials: See construction diagram of enclosure (3)

The proposed wells are being installed as part of the Marine Corps Base study of potential contamination from past hazardous materials operations. An Initial Assessment Study has been developed under the Navy Assessment and Control of Installation Pollutants (NACIP) Program. The initial screening, which has been completed for 76 potential sites, concludes that none of the 76 sites pose an immediate threat to human health or the environment. A copy of this report is being provided to the Division of Environmental Management under a separate letter.

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We request that copies of forms for well completion records be provided along with your response to this proposal. For further information regarding this matter, please contact Mr. Bob Alexander, MCB Environmental Engineer at 919-451-3034 or at the above address.

Sincerely,

M. G. LILLEY
Colonel, U.S. Marine Corps
Assistant Chief of Staff, Facilities
By direction of the Commanding General

Encl:(1) Fig 2-1, Site Locations at MCB, Camp Lejeune
(2) Camp Lejeune Special Map, Scale 1:50,000
(3) Appendix A - Monitoring Well Construction & Diagram

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LANTNAVFACENCOM (Code 114)

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FAC/REA/hf
6280
3 JAN 1984

N.C. Division of Environmental Management
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P. O. Box 27687
Raleigh, NC 27611

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