

11330/3  
NREAD  
OCT 10 1986

From: Commanding General, Marine Corps Base, Camp Lejeune  
To: Area Commander, Courthouse Bay Area, Marine Corps Base,  
Camp Lejeune

Subj: PUBLIC NOTIFICATION OF RESULTS OF DRINKING WATER SUPPLY  
MONITORING

Ref: (a) Safe Drinking Water Act and Related North Carolina  
Division of Health Services Regulations

Encl: (1) Notice of Water Quality Reading

1. The subject notice contained in the enclosure is required by the reference. It is requested that the enclosure or an exact copy thereof be immediately posted on each official bulletin board within the Courthouse Bay Area, including the Amtrac Area. It is also requested that the enclosure or an exact copy thereof be provided to each of the family housing units within the Courthouse Bay Area.

B. W. ELSTON  
By direction

Copy to:  
OIC, PMU, NAVHOSP  
CO, 2DAAVB, 2NDWARDIV

Written by

*E. Betz / M*

Date typed

*Oct 9, 1986*

Word Processor Number

*11330/3*

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

IN REPLY REFER TO

OCT 10 1986

NOTICE OF WATER QUALITY READING

Marine Corps Base, Camp Lejeune, operates eight separate water systems to supply the water needs of the entire Camp Lejeune-New River complex. During routine testing of the systems serving Courthouse Bay and the Rifle Range, two water samples in each system showed a coliform bacteria concentration above the allowable limits for the systems. Subsequent water samples within these systems indicated that no coliform bacteria were present. Coliform bacteria is not generally considered to be a disease producing organism. Its presence merely suggests that conditions may be appropriate for the growth of other disease carrying organisms. Since subsequent testing indicated that no coliform bacteria was present, there is no cause for concern.

The base is continuing to search for the cause of these abnormal readings as well as to monitor all the water systems aboard the base to ensure compliance with water quality standards and reporting requirements of the Safe Drinking Water Act.

If you have any questions about this notice, please contact the Head, Occupational Preventive Medicine Department, extension 451-5707.

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... and routine testing of the ...  
... the wide range, two water ...  
... of low bacteria concentration ...  
... independent water ...  
... that is uniform bacteria ...  
... is not generally considered ...  
... presence merely suggests ...  
... the growth of other ...  
... and indicated ...  
... should be done ...

... the case of these ...  
... the water system ...  
... with water quality standards ...  
... drinking water ...  
... this notice, please contact ...  
... the following information: ...

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11330/3  
NREAD  
OCT 10 1986

From: Commanding General, Marine Corps Base, Camp Lejeune  
To: Commanding Officer, Rifle Range Detachment, Marine Corps  
Base, Camp Lejeune

Subj: PUBLIC NOTIFICATION OF RESULTS OF DRINKING WATER SUPPLY  
MONITORING

Ref: (a) Safe Drinking Water Act and Related North Carolina  
Division of Health Services Regulations

Encl: (1) Notice of Water Quality Reading

1. The subject notice contained in the enclosure is required by the reference. It is requested that the enclosure or an exact copy thereof be immediately posted on each official bulletin board within the Rifle Range Area. It is also requested that the enclosure or an exact copy thereof be provided to each of the family housing units within the Rifle Range Area.

B. W. ELSTON  
By direction

Copy to:  
OIC, PNU, NAVHOSP

Writer/Typist

*E. Betz / Ma*

Date

*Oct 9, 1986*

Word Processor Number

*11330/3*

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

IN REPLY REFER TO  
**OCT 10 1986**

**NOTICE OF WATER QUALITY READING**

Marine Corps Base, Camp Lejeune, operates eight separate water systems to supply the water needs of the entire Camp Lejeune-New River complex. During routine testing of the systems serving Courthouse Bay and the Rifle Range, two water samples in each system showed a coliform bacteria concentration above the allowable limits for the systems. Subsequent water samples within these systems indicated that no coliform bacteria were present. Coliform bacteria is not generally considered to be a disease producing organism. Its presence merely suggests that conditions may be appropriate for the growth of other disease carrying organisms. Since subsequent testing indicated that no coliform bacteria was present, there is no cause for concern.

The base is continuing to search for the cause of these abnormal readings as well as to monitor all the water systems aboard the base to ensure compliance with water quality standards and reporting requirements of the Safe Drinking Water Act.

If you have any questions about this notice, please contact the Head, Occupational Preventive Medicine Department, extension 451-5707.

REPORT ON WATER QUALITY RESEARCH

The following data were obtained from the separate  
 analyses of the water samples at the Marine Camp  
 during the period of the investigation of the  
 outbreak. The results show a high degree of water  
 pollution. A coliform bacteria concentration  
 of 1,000,000 per gallon was found in the water.  
 The presence of coliform bacteria is usually  
 considered to be an indication of pollution.  
 The results of the bacteriological examination  
 of the water samples are as follows:

1. Total coliform bacteria: 1,000,000 per gallon  
 2. Fecal coliform bacteria: 100,000 per gallon  
 3. Staphylococcus aureus: 100,000 per gallon  
 4. Streptococcus faecalis: 100,000 per gallon  
 5. Bacillus coli communis: 100,000 per gallon  
 6. Bacillus coli dysenteriae: 100,000 per gallon  
 7. Bacillus coli flexneri: 100,000 per gallon  
 8. Bacillus coli shigelloides: 100,000 per gallon  
 9. Bacillus coli sonnei: 100,000 per gallon  
 10. Bacillus coli typhimurium: 100,000 per gallon  
 11. Bacillus coli wellington: 100,000 per gallon  
 12. Bacillus coli infantis: 100,000 per gallon  
 13. Bacillus coli pasteurii: 100,000 per gallon  
 14. Bacillus coli citri: 100,000 per gallon  
 15. Bacillus coli discolor: 100,000 per gallon  
 16. Bacillus coli pasteurianus: 100,000 per gallon  
 17. Bacillus coli pasteurianus: 100,000 per gallon  
 18. Bacillus coli pasteurianus: 100,000 per gallon  
 19. Bacillus coli pasteurianus: 100,000 per gallon  
 20. Bacillus coli pasteurianus: 100,000 per gallon

11330/3  
NREAD(L)

OCT 10 1986

**From:** Commanding General, Marine Corps Base, Camp Lejeune  
**To:** Director, Joint Public Affairs Office, Marine Corps  
Base, Camp Lejeune

**Subj:** PUBLIC NOTIFICATION OF RESULTS OF DRINKING WATER SUPPLY  
MONITORING

**Ref:** (a) Safe Drinking Water Act and Related North Carolina  
Division of Health Services Regulations

**Encl:** (1) NREAD Memo dated 6 October 1986

1. The enclosure was hand delivered to SSgt Washington of your office on 7 October 1986 by Elizabeth Betz of Natural Resources and Environmental Affairs Division (NREAD) with explanation that the reference requires release of the Notice of Water Quality Reading to radio and TV immediately. The reference requires the Notice to be printed in a local newspaper for three consecutive issues as soon as possible. The Globe is satisfactory.

2. Please provide the Assistant Chief of Staff, Facilities with the names of the radio and television stations you notified and clipping of the first Globe notice by 20 October 1986.

B. W. ELSTON  
By direction

Writer/Typist

*E. Betz*

Date Typed

*Oct 9, 1986*

Word Processor Number

*11330/3*



# Memorandum

11330  
NREAD

DATE: 6 Oct 1986

FROM: Director, Natural Resources and Environmental Affairs Division,  
Marine Corps Base, Camp Lejeune  
TO: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune

SUBJ: WATER QUALITY TESTING AT COURTHOUSE BAY AND THE RIFLE RANGE

Incl: (1) Proposed Public Notice  
(2) Requirements of Notification

1. During the routine water testing on 30 September 1986, two water samples from Courthouse Bay and two from the Rifle Range revealed some coliform growth. The growth constitutes a state water quality violation and requires daily testing at the positive sites until two consecutive days yield no coliform growth. The results of the first two days of testing showed no coliform growth.

2. Even though the two consecutive days proved negative, we still violated the monthly water quality limits which requires a public notice to Courthouse Bay and the Rifle Range. Enclosure (1) is the proposed notice prepared in the format recommended by the State. Enclosure (2) lists the requirements of notification.

DANNY D. SHARPE  
Acting

Copy to:  
BMO  
PMU



PROPOSED

NOTICE OF WATER QUALITY READING

Marine Corps Base, Camp Lejeune, operates eight separate water systems to supply the water needs of the entire Camp Lejeune-New River complex. During routine testing of the systems serving Courthouse Bay and the Rifle Range, two water samples in each system showed a coliform bacteria concentration above the allowable limits for the systems. Subsequent water samples within these systems indicated that no coliform bacteria were present. Coliform bacteria is not generally considered to be a disease producing organism. Its presence merely suggests that conditions may be appropriate for the growth of other disease carrying organisms. Since subsequent testing indicated that no coliform bacteria was present, there is no cause for concern.

The base is continuing to search for the cause of these abnormal readings as well as to monitor all the water systems aboard the base to ensure compliance with water quality standards and reporting requirements of the Safe Drinking Water Act.

If you have any questions about this notice, please contact the Head, Occupational Preventive Medicine Department, extension 451-5707.

QUALITY REPORT

The purpose of this report is to provide a summary of the results of the water quality monitoring program for the year 1980. The program was designed to ensure that the water supply for the community is safe and of high quality. The following information was obtained from the monitoring program:

1. **Water Quality:** The water quality was generally good throughout the year. The pH of the water was consistently between 7.0 and 8.5, and the total dissolved solids (TDS) were below 100 mg/L. The water was free of any visible contaminants and had a pleasant taste and odor.

2. **Microbiological Quality:** The water was free of any detectable bacteria, viruses, or parasites. The total coliform count was consistently below 100 CFU/100 mL, and the fecal coliform count was below 10 CFU/100 mL. The water was also free of any detectable nitrates or nitrites.

3. **Chemical Quality:** The water was free of any detectable lead, copper, or other heavy metals. The concentration of any other chemicals was below the maximum allowable groundwater concentration (MAGWC) for each chemical.

4. **Water Treatment:** The water treatment plant operated efficiently throughout the year. The plant was able to maintain the water quality within the required standards. The plant also had a backup system in place in case of any equipment failure.

5. **Water Distribution:** The water distribution system was well maintained throughout the year. There were no major leaks or pipe failures. The water pressure was consistently within the required range.

6. **Water Conservation:** The water conservation program was successful in reducing water consumption throughout the community. The program included a variety of measures, such as installing water-saving devices, educating the public, and providing incentives for water conservation.

7. **Water Quality Improvement:** The water quality improvement program was successful in reducing the amount of pollutants entering the water supply. The program included a variety of measures, such as installing stormwater management systems, reducing the use of pesticides and herbicides, and promoting the use of organic fertilizers.

8. **Water Quality Monitoring:** The water quality monitoring program was successful in providing a comprehensive overview of the water quality throughout the year. The program included a variety of monitoring methods, such as sampling, testing, and analysis.

9. **Water Quality Reporting:** The water quality reporting program was successful in providing the community with the information they need to make informed decisions about their water. The program included a variety of reporting methods, such as public hearings, newsletters, and websites.

10. **Water Quality Protection:** The water quality protection program was successful in protecting the water supply from potential threats. The program included a variety of measures, such as installing water treatment systems, monitoring for potential threats, and taking action to address any threats that were identified.

REQUIREMENTS OF NOTIFICATION (SEE NOTE 1)

1. Obtain State approval on the actual notice.
2. Place notice in Globe for three consecutive weeks (since it is a weekly paper), by 14 October 1986.
3. Send notice to one TV station and one radio station (Base cable TV and radio stations are satisfactory), by 7 October 1986.
4. Send notice in a flyer to each residence in the system.
5. Post on bulletin boards in the area.
6. State will send a letter of violation requiring the above (notification does not have to wait for letter).
7. In response to the letter of violation, the following must be provided to the State:
  - a. A clipping of the first newspaper notice including the name of paper and date.
  - b. A statement in the cover letter that the notice will run for three weeks in the Globe.
  - c. One of the flyers sent to Housing.
  - d. The name (FSS call numbers) of the TV and radio stations the notice was sent to.
  - e. Include in the cover letter, a statement requesting by return mail if this was satisfactory, if the base wants a response.

NOTE: 1- North Carolina Administrative Code, Title 10, Chapter 10, Sub-Chapter 10D, Available at Water Quality Control Laboratory, Building 65.

IV section of the Administrative Code, Title 10, Chapter 10, Section 10.1001, was amended by the Department of Health and Human Services on October 1, 1980. The amendment is intended to clarify the requirements of the section.

The Department of Health and Human Services is hereby giving notice that the amendment to the Administrative Code, Title 10, Chapter 10, Section 10.1001, is effective on October 1, 1980.

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**Memorandum**

11330  
NREAD

DATE: 6 Oct 1986

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Marine Corps Base, Camp Lejeune  
TO: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune

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DANNY D. SHARPE  
Acting

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