



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

7-4330
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IN REPLY REFER TO
11330
MAIN
18 Jul 85

MEMORANDUM FOR THE RECORD

Subj: MEETING OF 16 JUL 85 TO DISCUSS TRIHALOMETHANES IN THE MARINE CORPS
AIR STATION/CAMP GEIGER WATER DISTRIBUTION SYSTEM

Encl: (1) Trihalomethane Potential Testing Results for Wells in MCAS,
New River Water System
(2) Trihalomethanes, Marine Corps Air Station (2 and 9 July)
(3) Effect of Salt Water Intrusion on TTHM Formation

1. Attendees:

Mr. F. E. Cone, Deputy Base Maintenance Officer
Mr. G. S. Johnson, Utilities Director
Mr. W. R. Price, Utility Systems General Foreman
Mr. B. M. Frazelle, Water Treatment Plant Operator Foreman
Ms. Glenee Smith, Utilities Chemist
Mr. Danny Sharpe, NREAD
Ms. Elizabeth Betz, NREAD

2. The subject meeting was held to review lab data and future actions. Items discussed were as follows:

a. On 2 July, prechlorination was discontinued. Also, 13 wells were selected to be used, based on their low potential to produce Trihalomethanes (enclosure (1)). The wells that were selected are as follows:

TC 201	TC 1253	AS 190
TC 502	TC 1255	AS 191
TC 504	TC 1256	AS 203
TC 604	AS 106	
TC 1001	AS 131	

b. The results of samples (enclosure (2)) taken on the 2nd and 9th of July indicated that Chloroform (CHCl_3), Dichlorobromomethane (CHCl_2Br), and ChloroDi-bromomethane (CHClBr_2) reduced in concentrations. Bromoform (CHBr_3) increased dramatically. One source of Bromide which is needed to form Bromoform is salt water. Studies have revealed that water supplies which are subject to salt water intrusion can expect, upon treatment, to have high levels of Bromoform. Enclosure (3) points out that as the chloride concentration of the well water increases beyond 100-150 mg/l, the formation of Bromoform increases, while the other compounds decrease.

c. The following actions were recommended:

(1) Resample the treated water on 17 July for data check

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(2) NREAD will furnish Utilities the chloride readings on all the wells on 17 July.

(3) Utilities will isolate the wells with the highest chloride concentrations on 18 July.

(4) On 23 July, samples of the treated water will be taken.

3. The North Carolina Department of Human Resources are being informed of all the results and actions taken. Conversations between Danny Sharpe and the State indicate that the State may require a Public Notice to be issued at a future date.


G. S. JOHNSON, JR.

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ABMO
AC/S, Fac
NREAD

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