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

IN REPLY REFER TO
11330
MAIN
26 Jun 85

MEMORANDUM FOR THE RECORD

Subj: MEETING OF 25 JUN 85 TO DISCUSS TRIHALOMETHANES IN THE MARINE CORPS
AIR STATION/CAMP GEIGER WATER DISTRIBUTION SYSTEM

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

2. The subject meeting was held to review the lab data that was forwarded to Utilities on 21 June 1985. Items discussed are as follows:

a. Mr. Sharpe indicated that the data has been forwarded to the state, and that they will probably issue a noncompliance letter.

b. Several years ago, the backwash recirculating pond water was rerouted to the sewage plant vice returning to the water plant because of the potential of producing trihalomethanes (THM).

c. Factors affecting THM concentrations are:

- (1) Variations in sunlight, rainfall, presence of organics, etc.
- (2) Higher water temperatures increase reaction rates.
- (3) Longer contact times with chlorine may yield higher THM's.
- (4) A higher pH tends to increase the reaction rate.
- (5) Treatment methodology such as disinfectant used or point of applications.

d. Recommendations to lower THM's are:

- (1) Discontinue use of pre-chlorination which would allow algae growth in the spiractors.
- (2) Run wells with the lowest THM potentials.
- (3) Use of ozone, chlorine dioxide or chloroamines as a disinfectant instead of chlorine.
- (4) Additional treatment such as aeration or activated carbon adsorption.

3. Mr. Fred Hill of the North Carolina Department of Human Resources will be on board the base Friday, 28 June 1985 to inspect some new well

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sites. At this time, THM's will be discussed. Therefore, it was recommended
that no actions be taken until after 28 June 1985.



G. S. JOHNSON, JR.
Director, Utilities

Copy to:
ABMO
AC/S, Fac
NREAD

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BLDG. #	DEPTH	PUMP SETTING	STATIC	PUMPING LEVEL	GPM	REMARKS
TC 100	67'	50'	21'	25'	50	
TC 104						OUT OF SERV.
TC 201	140'	60'	15'	40'	60	
TC 325	70'	50'	45'	50'	100	
TC 502	180'	50'	28'	32'	400	
TC 504	113'	80'	24'	60'	250	
TC 600 *	70'	50'	10'	40'	162	
TC 604	113'	50'	18'	40'	125	
TC 700	76'	50'	37'	50'	110	
TC 901					CAVED IN	OUT OF SERV.
TC 1000	155'	60'	27'	50'	222	
TC 1001	100'	50'	41'	58'	170	
AS 106 *	179'	50'	22'	30'	226	
AS 131 *	200'	70'	36'	44'	285	
TC 190	180'	60'	40'	55'	250	
TC 191 *	180'	60'	39'	53'	250	
TC 1251	240'	70'	25'	35'	172	
TC 1253	250'	70'	30'	34'	137	
TC 1255	250'	70'	20'	40'	100	
TC 1256	204'	60'	23'	65'	105	
AS 4140 *	UNKNOWN	UNKNOWN	40'	45'	100	
AS 4150	UNKNOWN	UNKNOWN	30'	40'	128	
AS 5001	193'	75'	17'	32'	130	
AS 5009	196'	75'	35'	50'	119	
AS 203 *	173'	60'	20'	35'	207	
TC 1254	195'	UNKNOWN	34'	40'	137	

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