

11330  
SERIAL  
16 AUG 1985

Mr. Charles Sundgren  
Water Supply Branch  
Division of Health Services  
North Carolina Department of  
Human Resources  
Post Office Box 2091  
Raleigh, North Carolina 27607

Dear Mr. Sundgren:

This letter provides Trihalomethane Analysis for the Marine Corps Air Station, New River (MCAS, NR) Water Treatment Plant, ID #04-17-042, conducted in July 1985. The base, in an effort to lower the total trihalomethane (THM) levels in the water at the Air Station, made a change in the pumping schedule for the wells on 17 July 1985. Of the 23 wells presently serving the water plant, seven have chloride levels over 100 ppm. These high chloride wells were shut off and the THM levels were lowered to acceptable levels as is reflected in enclosures (1) and (2). The 17 July 1985 samples were collected prior to the changes. The 24 and 31 July 1985 samples were collected one and two weeks after the high chloride wells were shut off.

Point of contact in this matter is Mr. Julian Wooten, (919) 491-3003.

Sincerely,

R. A. TIERSON  
Colonel, U. S. Marine Corps  
Assistant Chief of Staff, Facilities  
By direction of the Commanding General

Encl: (1) THM: MCAS Analysis  
(2) JTC Environmental Consultants  
Reports 100, 103 and 105

Copy to:  
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Blind copy to:  
QCL, NREAD

CLW

Writer: E. Betz, NREAD, 5977  
Typist: A. Blackstock, 15 August 1985

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Type of Treatment:  (X)  ( )  ( )  ( )  ( )

Name of Water System: Marine Corps Air Station  
 Water System ID #: 04-67-042  
 Type of System: Community  
 Source of Water: Ground  
 Type of Sample: D-Regular  
 Parameter: Trihalomethane  
 Contaminant ID: 2950  
 Method Code: 215

Samples Collected by:  (X)  ( )  ( )  ( )  ( )  
 Samples Analyzed by:  (X)  ( )  ( )  ( )  ( )

Collected	Analyzed	SAMPLING SITE #1 Base AS-110					SAMPLING SITE #2 Base G-520					SAMPLING SITE See Note 1					
		Time	CHCl <sub>3</sub>	CHCl <sub>2</sub> Br	CHClBr <sub>2</sub>	CHBr <sub>3</sub>	THM	Time	CHCl <sub>3</sub>	CHCl <sub>2</sub> Br	CHClBr <sub>2</sub>	CHBr <sub>3</sub>	THM	Time	CHCl <sub>3</sub>	CHCl <sub>2</sub> Br	CHClBr <sub>2</sub>
07-17-85	07-25-85	0945	2	2	14	63	81	1110	2	9	46	146	203	1035	2	8	39
07-24-85	07-29-85	1245	5	8	13	7	33	1342	6	15	30	27	78	1255	8	11	30
07-31-85	08-02-85	-Broken	-	-	-	-	-	1010	10	20	36	32	98	0930	7	14	24

UNITS - PPB

NOTES

1. SAMPLING SITE #3 IS USUALLY AS-4025, HOWEVER ON 17 + 24 JULY 1985 IT WAS LOCKE STREET ON 31 JULY 1985 AS-4025 WAS COLLECTED.

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REPORT # 108  
LABORATORY ANALYSIS ON  
NAVAL SAMPLES  
(A/E CONTRACT N62470-84-B-6932)  
JTC REPORT # 85-310

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PREPARED FOR:  
DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VA 23511

PREPARED BY:  
JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

AUGUST 2, 1985

CLW

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*Ann E Rosecrance*

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Ann E. Rosecrance  
Laboratory Director

JTC Environmental Consultants, Inc.

Date 8-2-85 Report No. 108 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-310 Table 1 Date of Sample Receipt 8-1-85

Camp Lejeune

SAMPLE ID	JTC SAMPLE ID	THM	ANALYSIS PARAMETER							
2800 0949 7/31	12-1341	See attached sheet								
G-520 1010 7/31	12-1342	"								
AS-4025 0930 7/31	12-1343	"								
710 1000 7/31	12-1345	"								

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Note: AS-110 (12-1344) was broken in transit



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-1341 PROJECT NO. NF-12  
CLIENT SAMPLE ID 2800 7/31/85 DATE RECEIVED 8/1/85  
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

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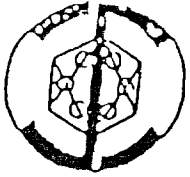
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PARAMETER	RESULT	PARAMETER	RESULT
	ug/lit		ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	N.D.	47V bromoform	20 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	17 N.D.
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V-chloroethane	N.D.	51V chlorodibromomethane	29 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	8 * N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

N.D. = NOT DETECTED

N.A. = NOT APPLICABLE/ANALYZED

\*Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-1342 PROJECT NO. NF-12  
CLIENT SAMPLE ID G-520 7/31/85 DATE RECEIVED 8/1/85  
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

**CLW**

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PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	N.D.	47V bromoform	<del>32</del> N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	20 <del>N.D.</del>
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	<del>36</del> N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	<del>10</del> N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

N.D. = NOT DETECTED

N.A. = NOT APPLICABLE/ANALYZED

\*Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-1343 PROJECT NO. NF-12  
CLIENT SAMPLE ID AS-4025 7/31/85 DATE RECEIVED 8/1/85  
METHOD NO. 624 DETECTION LIMIT 10 ug/lit

**CLW**

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PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	N.D.	47V bromoform	<del>N.D.</del> 13
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	<del>N.D.</del> 14
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	<del>N.D.</del> 24
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	<del>N.D.</del> 7*	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

N.D. = NOT DETECTED

N.A. = NOT APPLICABLE/ANALYZED

\*Below method detection limit



JTC ENVIRONMENTAL CONSULTANTS, INC.  
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-1345 PROJECT NO. NF-12  
 CLIENT SAMPLE ID 710 7/31/85 DATE RECEIVED 8/1/85  
 METHOD NO. 624 DETECTION LIMIT 10 ug/lit

**CLW**

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PARAMETER	RESULT ug/lit	PARAMETER	RESULT ug/lit
2V acrolein	N.D.	32V 1,2-dichloropropane	N.D.
3V acrylonitrile	N.D.	33V 1,3-dichloro- pylene	N.D.
4V benzene	N.D.	38V ethylbenzene	N.D.
6V carbon tetrachloride	N.D.	44V methylene chloride	N.D.
7V chlorobenzene	N.D.	45V methyl chloride	N.D.
10V 1,2-dichloroethane	N.D.	46V methyl bromide	N.D.
11V 1,1,1-trichloro- ethane	N.D.	47V bromoform	15 N.D.
13V 1,1-dichloroethane	N.D.	48V dichlorobromo- methane	15 N.D.
14V 1,1,2-trichloro- ethane	N.D.	49V trichlorofluoro- methane	N.D.
15V 1,1,2,2-tetra- chloroethane	N.D.	50V dichlorodifluoro- methane	N.D.
16V chloroethane	N.D.	51V chlorodibromomethane	26 N.D.
19V 2-chloroethylvinyl ether	N.D.	85V tetrachloroethylene	N.D.
23V chloroform	8* N.D.	86V toluene	N.D.
29V 1,1-dichloroethylene	N.D.	87V trichloroethylene	N.D.
30V 1,2-trans-dichloro- ethylene	N.D.	88V vinyl chloride	N.D.

N.D. = NOT DETECTED

N.A. = NOT APPLICABLE/ANALYZED

\*Below method detection limit



11333  
NREAD

Mr. Charles Rundgren  
Water Supply Branch  
Division of Health Services  
North Carolina Department of  
Human Resources  
Post Office Box 2091  
Raleigh, North Carolina 27602

Dear Mr. Rundgren:

This letter provides Trihalomethane Analysis for the Marine Corps Air Station, New River (MCAS, NR) Water Treatment Plant, ID #04-67-042, conducted in July 1985. The base, in an effort to lower the trihalomethane levels in the water at the Air Station, made a change in the pumping schedule for the wells on 17 July 1985. Of the 23 wells presently serving the water plant, seven have chloride levels over 100 ppm. These high chloride wells were shut off. The 17 July 1985 samples were collected prior to the change. The 24 and 31 July 1985 samples were collected one and two weeks after the high chloride wells were shut off.

Point of contact in this matter is Mr. Julian Wooten, (919) 451-5003.

Sincerely,

R. A. TIEBOUT  
Colonel, U. S. Marine Corps  
Assistant Chief of Staff, Facilities  
By direction of the Commanding General

Encl: (1) TTHM MCAS Analysis  
(2) JTC Environmental Consultants  
Reports 100, 103 and 108

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Writer: E. Betz, NREAD, 5977  
Typist: A. Blackstock, 13 August 1985

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