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NREAD

29 Oct 1985

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

Dear Mr. Rundgren:

Enclosure (1) and (2) are the Trihalomethane Analysis for the Hadnot Point (HP) Water Treatment Plant, ID #04-67-041, and for the Marine Corps Air Station, New River (MCAS) Water Treatment Plant, ID #04-67-042. Enclosure (3) is the Inorganic Chemical Analysis including sodium for all eight water treatment plants, ID numbers 04-67-041 - 04-67-048, aboard Camp Lejeune. All samples were collected by the Water Quality Control Laboratory personnel and analyzed by Industrial and Environmental Analysts, Incorporated.

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

Encls:

- (1) TTHM Analysis for HP
- (2) TTHM Analysis for MCAS
- (3) Inorganic Chemical Analysis  
for all Systems

Blind copy to:  
QCL

Writer: E. Betz, NREAD, x5977  
Typist: A. Blackstock, 25 October 1985

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MR. CHARLES E. RUNDGREN

WATER SUPPLY BRANCH

DIV. OF HEALTH SER.

P.O. Box 2091

RALEIGH, NC 27602-2091

DEAR MR. RUNDGREN:

ENCLOSURES (1), (2), AND (3) PROVIDE INORGANIC, CORROSIVITY AND CONSTRUCTION MATERIALS PREVIOUSLY SUBMITTED TO YOUR AGENCY BY OUR LETTER DATED 1 JUNE 1983. ENCLOSURE (4) IS A COPY OF A WRITTEN REQUEST FROM MR. LARRY ELMORE, ENVIRONMENTAL ENGINEER, WATER SUPPLY BRANCH, DATED 21 JUNE 1983 WITH ENCLOSURES. ENCLOSURE (5) IS A TABLE LISTING THE NECESSARY SYSTEM INFORMATION. ENCLOSURE (6) IS GRAINGER'S LABORATORY DATA SHEETS.

ENCL:

- (1) INORGANIC CHEMICAL RESULTS
- 2) CORROSIVITY RESULTS
- 3) CONSTRUCTION MATERIALS SYSTEM
- F) WATER SUPPLY BRANCH DATED 21 JUNE 1983 W/ENCL
- 5) GENERAL SYSTEM INFORMATION
- 6) GRAINGER LAB SHEETS

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BIODEGRADABILITY RESULTS

PARAMETER	METHOD	CONTAMINANT CODE	RESULTS							
			041	042	043	Serial No. 04-67-044	045	046	047	048
PH	135	1925	8.1	7.6	8.2	8.2	7.1	8.0	7.9	7.1
TEMPERATURE °C	130	1996	20.0	20.0	19.0	20.0	20.0	23.0	21.0	21.0
TOTAL ALKALINITY AS CaCO <sub>3</sub> mg/L	142	1927	51.9	136	82.3	76.4	166	151	164	155
TOTAL FUTUREABLE RESIDUE mg/L	139	1930	106	320	10	152	126	230	246	140
CALCIUM AS CaCO <sub>3</sub> mg/L	101	1919	40.9	48.0	56.1	101	41.9	44.3	50.0	111
STABILITY INDEX (LANEUEE)	140	1910	0.25	-0.59	0.03	0.19	-0.95	0.06	-0.12	-0.54

ALL SAMPLES COLLECTED: 3 SEPTEMBER 1982

PH + TEMPERATURE RUN BY QUALITY CONTROL LAB (ID # 37887)

THE REST OF THE RESULTS RUN BY GEANUEE LAB (ID # 37709)

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CONSTRUCTION MATERIALS

See Note 1

SYSTEM SERIAL No. 04-67-

MATERIAL	041	042	043	044	045	046	047	048
LEAD FROM PIPING, SOLDER, SWEATING, INTERIOR LINING OF DISTRIBUTION MAINS, ALLOYS AND HOME PLUMBING	YES	YES	YES	YES	YES	YES	YES	YES
COPPER FROM PIPING AND ALLOYS, SERVICE LINES AND HOME PLUMBING	YES	YES	YES	YES	YES	YES	YES	YES
GALVANIZED PIPING, SERVICE LINES AND HOME PLUMBING	YES	YES	YES	YES	YES	YES	YES	YES
FERROUS PIPING MATERIALS SUCH AS CAST IRON AND STEEL	YES	YES	YES	YES	YES	YES	YES	YES
ASBESTOS CEMENT PIPE	YES	YES	YES	NO	YES	NO	YES	NO
VINYL LINED ASBESTOS CEMENT PIPE	NO	NO	NO	NO	NO	NO	NO	NO
COAL TAR LINED PIPES AND TANKS	NO	NO	NO	NO	NO	NO	NO	NO
Other: PVC	YES	YES	YES	YES	YES	NO	YES	YES

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Information obtained from

MATER TREATMENT SEC, UTIL BR, BHAMMNT

DIVISION OF PLUMBING, GENERAL TRADES SEC

MARIE E KUNDGREN, HEAD  
WATER SUPPLY BRANCH  
DIVISION OF HEALTH SERVICES  
P.O. BOX 2091  
RALEIGH, NC 27602-2091

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DEAR ~~STR.~~ MR. KUNDGREN

ENCLOSED ARE <sup>TABLES OF</sup> ~~THE COMPLETED~~ RESULTS OF INORGANIC-CHEMICAL, ~~AND~~  
CORROSIVITY ~~AND TRIHALOMETHANE ANALYSIS~~ CONDUCTED IN  
THE PAST YEAR, FOR ALL EIGHT WATER TREATMENT PLANTS  
~~ABOUT~~ ABOARD MARINE CORPS BASE, CAMP LEJEUNE. ALSO  
ENCLOSED IS A TABLE SHOWING THE CONSTRUCTION MATERIALS  
USE IN OUR DISTRIBUTION SYSTEMS.

THE ~~ANALYSIS~~ LABORATORY ANALYSIS WAS RUN BY GRAINGER  
LABORATORIES INC LOCATED IN RALEIGH, NC. THE FIELD  
ANALYSIS (TEMPERATURE \* PH) WAS RUN BY ~~A~~ PERSONNEL  
IN THE QUALITY CONTROL LABORATORY LOCATED IN THE NREAD,  
AC/S FACILITIES. MS. ELIZABETH BETZ, SUPPLY CHEMIST, Q.C.  
LAB, TELEPHONE (919) 451-5977 IS THE POINT OF CONTACT IN  
THIS MATTER.

ENCL

COPY TO:  
LANTDIV (CODE 114)  
~~UTIL~~ BMD, UTIL DIR  
① SUPPLY CHEM.

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INORGANIC CHEMICAL RESULTS

RESULTS mg/L  
04-67-

PARAMETER	METHOD	CONTAMINANT CODE	LAB ID
ARSENIC	123	1005	37709
BARIUM	101	1010	37709
CADMIUM	101	1015	
CHROMIUM	101	1020	
FLUORIDE	107	1025	
LEAD	101	1030	
MERCURY	103	1035	
NITRATE (N)	109	1040	
SELENIUM	123	1045	
SILVER	101	1050	
IRON	101	1028	
MANGANESE	101	1032	37709
PHOSPHORUS	101	1035	37709
SODIUM	101	1052	37709

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LAB ID # 37-7-09

PARAMETER	LAB ID	RESULTS mg/L
ARSENIC	37709	0.011
BARIUM	37709	0.01
CADMIUM		0.0011
CHROMIUM		<0.003
FLUORIDE		0.994
LEAD		<0.01
MERCURY		<0.002
NITRATE (N)		0.17
SELENIUM		<0.001
SILVER		0.045
IRON		<0.002
MANGANESE		0.045
PHOSPHORUS		<0.002
SODIUM		<0.002

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SAMPLES COLLECTED (EXCEPT SODIUM): 29 SEP 1982

SODIUM SAMPLES COLLECTED: 5 SEP 1982

Corrosivity Results

PARAMETER	METHOD	LAB ID	UNITS	HP	NR	HR	TI	OT	RE	CHR	OR
PH	135 1996	37807		8.80	7.6	8.2	8.2	7.10	8.0	7.9	7.1
TEMPERATURE °C	130 1927	37807	°C	20.0	20.0	19.0	20.0	20.0	20.0	21.0	21.0
TOTAL ALKALINITY AS CaCO <sub>3</sub>	142 1930	37709	mg/L	51.9	136	82.3	76.4	166	151	164	155
TOTAL FICTITABLE RESIDUE	139 1919	37709	mg/L	106	320	10	152	126	230	246	146
Alcium +5 CaCO <sub>3</sub>	101 1919	37709	mg/l	40.9	48.0	56.1	101	41.9	44.3	50.0	111
STABILITY INDEX (LINEAR)	<del>138</del> 140	37709		0.25	-0.59	0.03	0.19	0.95	0.06	-0.12	0.54

SAMPLES COLLECTED: 3 SEP 1982

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5-11-82