

Memorandum

DATE: 9 March 1982

FROM: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

SUBJ: Memorandums from the Division of Health Services

ENCL: (1) Memorandum from State Laboratory of Public Health of 24 February 1982
(2) Info sent from Water Supply Branch

1. Enclosure (1) is the information you sent me on water monitoring, it is a memorandum that addresses the requirements for monitoring for Sodium, Corrosivity and Trihalomethanes. It states that sodium needs to be monitored once every three years, starting this year. Corrosivity is to be monitored every year starting now and trihalomethanes are to be monitored quarterly which we could ask to be reduced if we do not exceed the maximum contaminant level.

2. Enclosure (1) contains a request form to have the State lab run the samples, however, the other two private labs, Grainger and Law & Co., are less expensive.

3. Also, they enclosed, in Enclosure (1), a chart showing monitoring requirements. The second column addresses the schedule for inorganic chemicals, which is every three years. We did it in August 1979, so by August 1982 it will need to be done again. Unfortunately, it slipped my mind when we were writing the contract for THMs. Since its a once every three year shot and everything in the contract was yearly perhaps its just as well.

*Try to get samples taken by 1 August
Arrange lab to do them ASAP*

4. Enclosure (2) contains a list of Laboratories in North Carolina, certified for Sodium and Corrosivity and a Corrosivity Analysis form. The corrosivity analysis form needs to be duplicated and filled out for the eight distribution systems aboard the base. Either Utilities or Public Works needs to fill this out not me. It is concerned with the type of materials used in the distribution system.

Elizabeth A. Betz

Elizabeth A. Betz
Supervisory Chemist

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*Betsy, TAKE ACTION TO
have utilities personnel to
complete Corrosivity Analysis FORMS for
each system. Danny [unclear]*

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Mr. [unclear] (U.S. [unclear]) FUEL [unclear] [unclear]



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
306 N. Wilmington St.
P.O. Box 28047
Raleigh, N.C. 27611-8047

February 24, 1982

M E M O R A N D U M

TO: Public Water System Owner/Operator
FROM: State Laboratory Of Public Health
SUBJECT: Analytical Services to Meet New Monitoring Requirements

There have been some additions to the monitoring requirements under the N.C. Safe Drinking Water Act. These additions apply only to community water systems.

Please review the following information regarding monitoring for sodium, monitoring for corrosivity, and monitoring for trihalomethanes. If you are to monitor and would like to use the analytical services of the State Laboratory of Public Health, simply fill out and return the attached request for analytical services with payment. Kits will be sent and analyses performed within the required monitoring period and a copy of the laboratory results will be forwarded to the Water Supply Branch for all systems contracting with the State Laboratory of Public Health.

SPECIAL MONITORING FOR SODIUM (Beginning February 27, 1982)

Water suppliers for community public water systems must collect and analyze one sample per treatment plant at the entry point of the distribution system to determine sodium concentration levels. Samples must be collected and analyzed every year for systems using surface water (completely or partially) such as lakes or rivers. For systems using only ground water sources such as wells, samples must be collected and analyzed every three years. The minimum number of samples required is based on the number of treatment plants used by the system. There is an exception: multiple wells drawing raw water from a single aquifer (natural underground water source) may, with state approval, be considered one treatment plant for determining the minimum number of samples. The state may require more frequent sampling in areas where the sodium content is variable.

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REQUEST FOR ANALYTICAL SERVICES
 COMMUNITY PUBLIC WATER SYSTEM
 NORTH CAROLINA DRINKING WATER ACT

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STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES
 N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - RALEIGH, N.C. 27611

DATE _____
 TELEPHONE (919) 733-7308

THIS SYSTEM INTENDS TO USE THE STATE LABORATORY FOR THE ANALYSES CHECKED BELOW:

- SODIUM \$15.00 PER SAMPLE = _____
- CORROSIVITY (NO pH OR TEMPERATURE) \$45.00 PER SAMPLE = _____
- TRIHALOMETHANES
 4 QUARTERS x _____ SAMPLES PER QUARTER x \$60.00 PER SAMPLE = _____
- TOTAL AMOUNT DUE = _____

YOU WILL BE NOTIFIED WHEN RESAMPLING AND CONTRACT RENEWAL ARE REQUIRED.

THE SYSTEM USES: (CHECK ONE)

GROUND SOURCE (WELL(S), SPRING)

▽ PLEASE PRINT OR TYPE ▽

SURFACE SOURCE (LAKE, RIVER, STREAM)

● NAME AND ADDRESS/LOCATION OF WATER SYSTEM _____

 ZIP _____

● NAME AND ADDRESS OF OWNER _____

04/67/040 C-4-00 0202
 CAMP LEJEUNE
 COMMANDING GENERAL
 MARINE CORPS BASE
 CAMP LEJEUNE N.C. 28542

TELEPHONE NO. () _____

● NAME AND ADDRESS OF PERSON TO WHOM SAMPLE KITS ARE TO BE MAILED _____

 ZIP _____

PAYMENT MUST ACCOMPANY THIS REQUEST. REMIT BY CHECK OR MONEY ORDER. DO NOT SEND CASH.
 MAKE CHECK PAYABLE TO "STATE LABORATORY OF PUBLIC HEALTH".



SAFE DRINKING WATER ACT MONITORING SCHEDULE

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TYPE OF SYSTEM	*INORGANIC CHEMICAL	*ORGANIC CHEMICAL	RADIOLOGICAL	COLIFORM BACTERIA	TURBIDITY	TRIHALOMETHANES	SODIUM	CORROSIVITY
Community Ground (Well supplies serving 15 or more year-round residential connections or more than 25 residents)	Analyze every 3 years	Not applicable unless determined by enforcing agency	Natural only. Analyze every 4 years	Analyze monthly	Not applicable	Population 75,000 and over - monitoring began November 1980 Population 10,000-75,000 - monitoring begins November 1982 Population 10,000 or less - not applicable at this time	Beginning February 27, 1982, analyze one sample per treatment plant every 3 years	Beginning February 27, 1982, analyze one sample per treatment plant by February 1983
Community Surface (River, stream, or lake systems serving 15 or more year-round residential connections or more than 25 year-round residents)	Analyze yearly	Analyze every 3 years	Natural. Analyze every 4 years. Manmade (over 100,000 population). Analyze every 4 years	Analyze monthly	Analyze each day of operation	Population 75,000 and over - monitoring began November 1980 Population 10,000-75,000 - monitoring begins November 1982 Population 10,000 or less - not applicable at this time	Beginning February 27, 1982, analyze one sample per treatment plant per year	Beginning February 27, 1982, analyze two samples (one in mid-winter and one in mid-summer) per treatment plant by February 1983
Non-Community (System serving 15 or more non-residential connections or at least 25 people at least 60 days per year)	Nitrates only. Analysis required at discretion of enforcing agency	Not applicable	Not applicable	Analyze quarterly	Surface only. Analyze daily unless otherwise designated	Not applicable	Not applicable	Not applicable

*Inorganic Chemicals - Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Nitrate, Selenium, Silver, Fluoride, Iron, Manganese, pH
*Organic Chemicals - Endrin, Lindane, Methoxychlor, Toxaphene, 2, 4-D, and 2, 4, 5-TP Silver

ROUTING SLIP MAR 0 1 1982

	ACTION	INFO	INITIAL
BMO		✓	VM
ABMO		✓	BM
ADMIN			S
ENVIOR AFF		✓	JLW
F&A SEC			
MAINT NCO			
M&R			
OPNS			
PROP			
UMACS			
UTIL			
SECRETARY			

COMMENTS:

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NORTH CAROLINA LABS WHICH ARE APPROVED TO ANALYZE
DRINKING WATER FOR SAFE DRINKING WATER ACT COMPLIANCE

COMMERICAL

<u>Name/Address/Phone</u>	<u>Sodium</u>	<u>Corrosivity</u>
Aquasystems, Inc. P. O. Box 3795 Greenville, N. C. 27834 Phone: (919) 757-3795		X
BAW Labs, Inc. 1215-1 Central Avenue Charlotte, N. C. 28204 Phone: (704) 376-8646	X	X
Bio-Chem Laboratories P. O. Box 40 Granite Falls, N. C. 28630 Phone: (704) 396-1741		X
Environment I Box 7085 Greenville, N. C. 27834 Phone: (919) 756-6208	X	X
Environmental Lab of Fayetteville P. O. Box 49 Fayetteville, N. C. 28301 Phone: (919) 864-1920	X	X
Environmental Testing, Inc. 766½ Biltmore Avenue Asheville, N. C. 28803 Phone: (704) 254-7176		X
Environmental Testing 1700 University Commercial Pl. Charlotte, N. C. 28213 Phone: (704) 597-8454	X	X
Grainger Laboratories 709 West Johnson Street Raleigh, N. C. 27603 Phone: (919) 828-3360	X	X
Guilford Labs, Inc. P. O. Box 9735 Plaza Station Greensboro, N. C. 27048 Phone: (919) 274-2907	X	X

X = Approved

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0467040 C-N-10 0262
CAMP LEJEUNE
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE NC 28542

CORROSIVITY ANALYSIS

Please check off the construction materials present in your distribution system. If you have more than one distribution system, fill out a separate form for each one. This form must be completed by every community public water supply including purchase supplies. Complete and return this form to the address at the bottom of the page by February 1983.

- Lead from piping, solder, caulking, interior lining of distribution mains, alloys and home plumbing
- Copper from piping and alloys, service lines and home plumbing
- Galvanized piping, service lines and home plumbing
- Ferrous piping materials such as cast iron and steel
- Asbestos cement pipe
- Vinyl lined asbestos cement pipe
- Coal tar lined pipes and tanks
- Other (describe)

Return this form to:

Charles E. Rundgren, Head
Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091