CURIE = UNIT OF RADIOACTIVITY, 3.70 × 100 DISINTEGRATIONS
(Ci) PER SECOND

" DECAY RATE OF ONE GRAM OF RADIUM IN EQUILIBRIUM

MILLICURIE = ONE THOUSANDTH OF A CURIE, 1×10-3, 0.001 (mci)

MICEOCURIE = ONE MILLIONTH OF A CURIE, 14106, 0.000001

(UC) = ONE THOUSANDTH OF A CACI

NANOCURIE = ONE BILLIONTH OF A CURIE, 1×10, 0.000000001

(NCI) = ONE THOUSANDTH OF A LLCI

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- ONE MILLIONTH OF A MC

PICOCURIE = ONE TRILLIONTH OF A CURIE, \$x10-12, 0.0000000000001

= ONE THOUSANDTH OF A NCI

= ONE MILLIONTH OF A UCI

= ONE BILLIONTH OF A MCi



North Carolina Department of Human Resources Division of Health Services P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor Phillip J. Kirk, Jr., Secretary Ronald H. Levine, M.D., M.P.H. State Health Director 919/733-3446

March 18, 1985

04-67-041 RAD 03/85 ONSLOW
USMC HADNOT POINT
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE
NC 28542

Dear Sir:

Re: Radiological Monitoring Requirement

During the third week in August, 1984, we informed you of the necessity to initiate sampling for radioactivity in your water supply. In our letter, we stated that this sampling is required once every four (4) years and that we have no record of your sampling results.

In our Newsletter #12 which was mailed to you in September, 1984, we have repeated the need and responsibility for having the radiological monitoring performed. Other important information surrounding the radiological monitoring requirements were also presented in this newsletter.

We must know that this analysis is being performed. Therefore, we are requesting that within thirty (30) days you provide us with the name of the laboratory you have contracted to do your testing. Failure to do so will force us to initiate an administrative penalty against you.

Should you have any questions in regards to the content of this letter, please contact Mr. Richard W. Caspar in this office by telephoning (919) 733-2321.

Thank you for your assistance in this matter.

Sincerely,

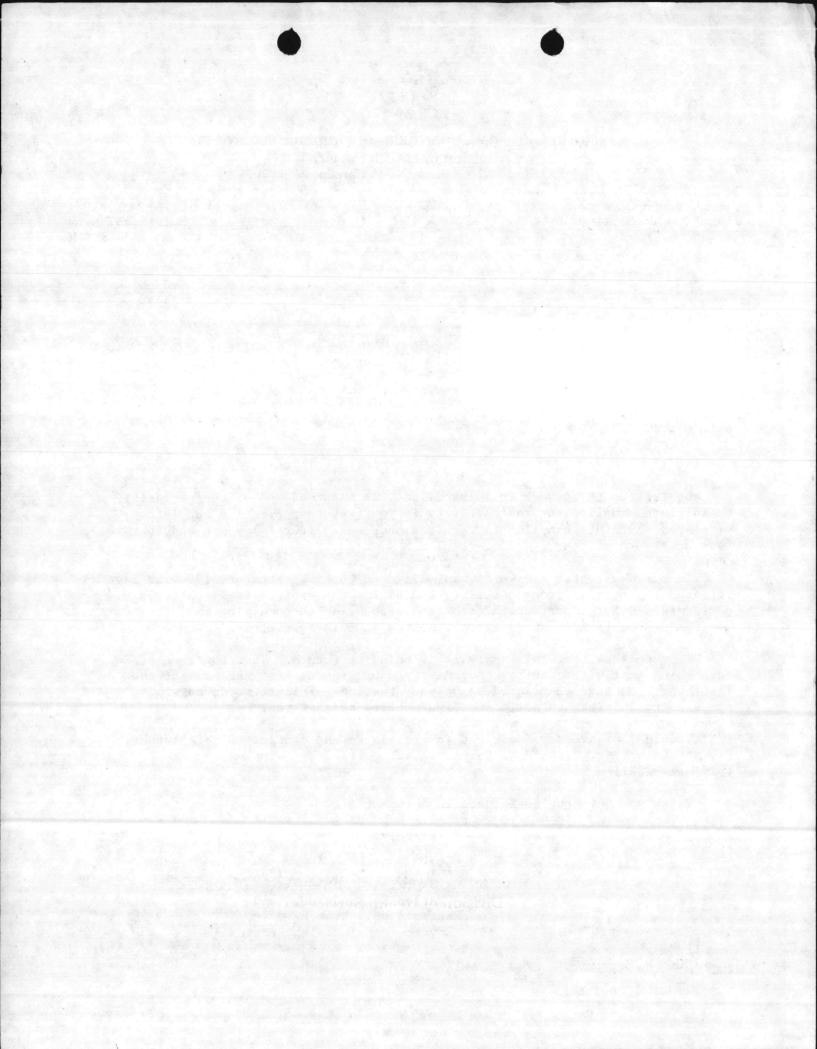
Charles E. Rundgren, Head

Water Supply Branch

Environmental Health Section

RWC/ar

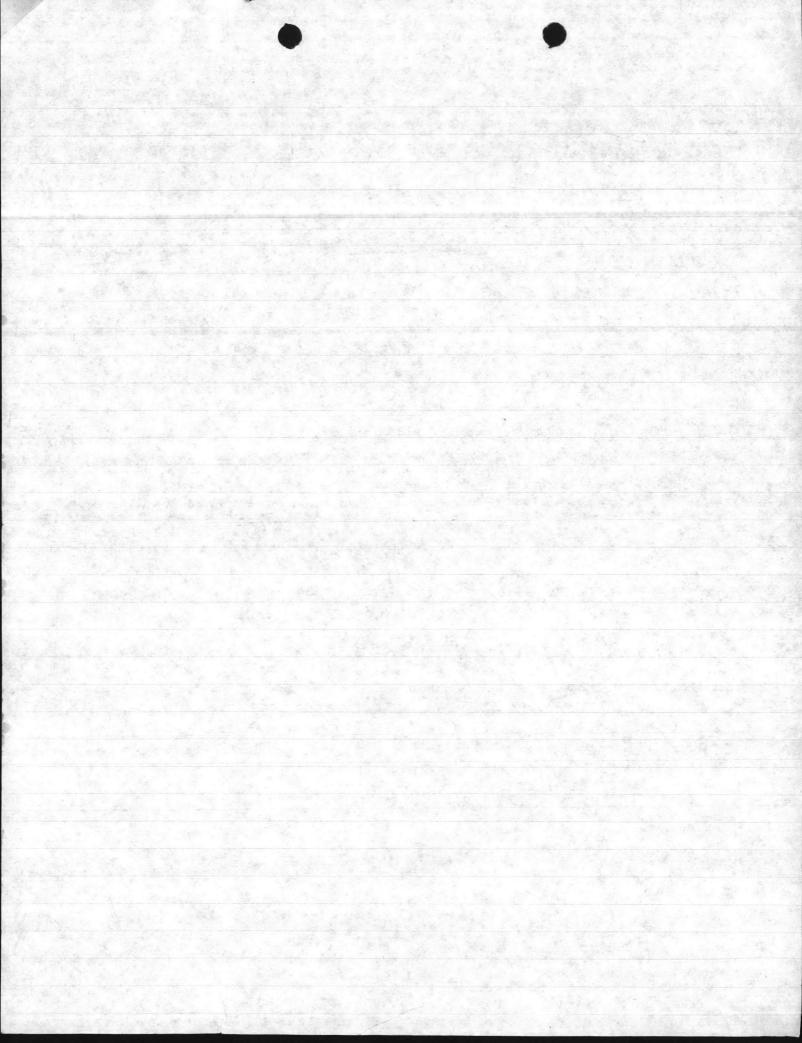
cc: Regional Engineers



Betsy- Mike Bell NS. Human Resources, Greenville 756-1343

HAS advised that Releigh does Not have a Copy of Our Radionichides analys Circa 1980, Please Pull our Submission And Give him a Call Tuesday A.M. What is Status of present Radionichide analysis, (He was Not interested in the Latter at this Time,)

DANNY



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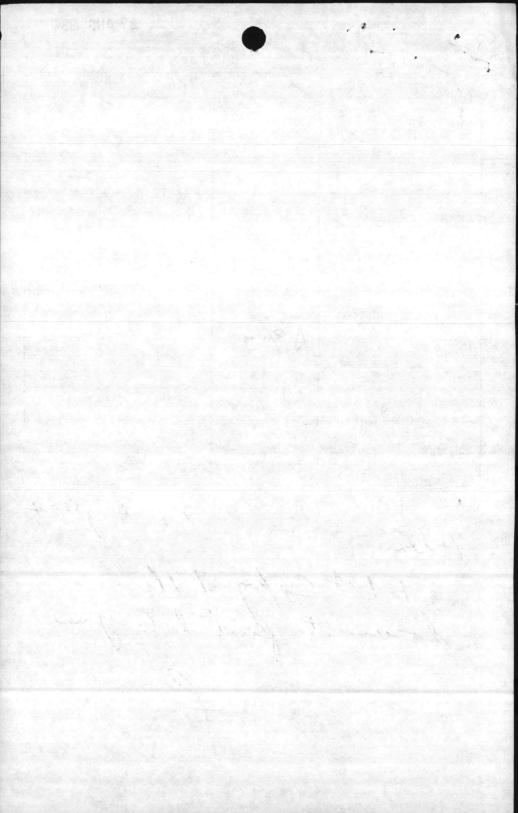
COMMENTS:

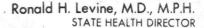
Alex:

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4

27 Aug 84







August 15, 1984

04-67-044 RAD 08-84 ONSLOW
USMC TARAWA TERRACE
COMMONDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE

NC 28542

Dear Sir:

Re: Radiological Monitoring Requirement

Once every four (4) years a community water system, like yours, is required to monitor for the radiological contents in its drinking water. This requirement is stated in Section .1627 of the Rules Governing Public Water Supplies and became effective in 1977.

At the end of each four (4) year period an audit is made of the Public Water Systems in North Carolina to determine who is in full compliance with the regulations. After our recent audit we were unable to locate any test results from your water system. If you have performed the required test within the last four (4) years, please send us a copy of your test results. This will enable us to update our records on your water system with regards to the radiological monitoring.

If you have not performed this test within the last four (4) years, you are in violation of the regulations and it is important for you to start this sampling requirement as soon as possible. To complete the radiological testing a series of four samples of water are required. A sample of water needs to be taken from your water system each calendar quarter and sent to a certified laboratory of your choice for analysis. As you can see, by taking one sample of water for each calendar quarter, it will take approximately one year to complete the sampling requirements alone.

For your information, we are enclosing a list of the laboratories certified by our Department to perform the radiological analysis. The State Laboratory for Public Health has ample capacity to perform this test. Should you elect to use the State Laboratory, you would need to contact Environmental Sciences Branch by telephoning (919) 733-7308.



August 15, 1934

04-5/-044 RAO 03-34 OVSLOW
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Dear Sir:

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Page 2 Radiological Monitoring Requirement

Should you have any questions pertaining to the radiological monitoring of your system, please feel free to contact Mr. Richard W. Caspar of this office by telephoning (919)733-2321.

Sincerely,

Charles E. Rundgren, Head

Water Supply Branch

Environmental Health Section

RWC/ar

cc: Regional Engineer Health Department



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August 15, 1984

04-67-041 RAD 08-84 ONSLOW
USMC HADNOT POINT
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE

NC 28542

Dear Sir:

Re: Radiological Monitoring Requirement

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94-07-01 RAD 03-31 OBSTV THICK TOROVE CHEE

Page 2 Radiological Monitoring Requirement

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Sincerely,

Charles E. Rundgren, Head

Water Supply Branch

Environmental Health Section

RWC/ar

cc: Regional Engineer Health Department

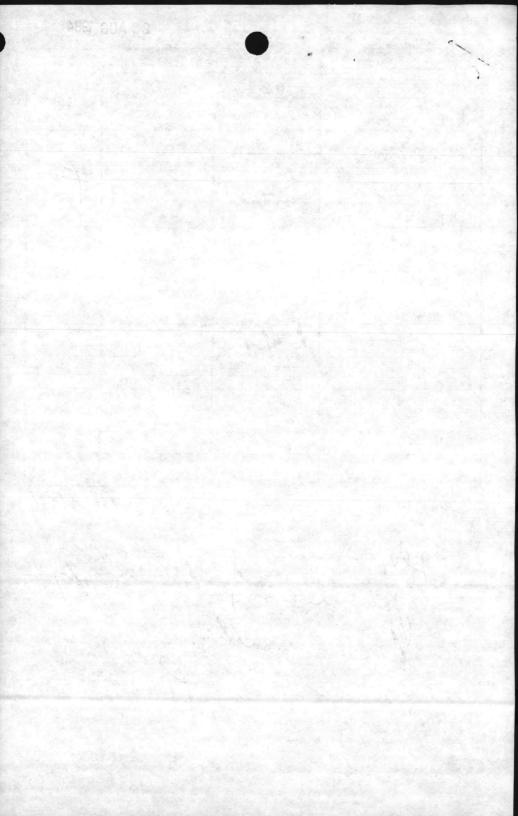
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COMMENTS:

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Alex:
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August 15, 1984

04-67-043 RAD 08-84 ONSLOW
USMC HOLCOMB BLVD
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE

NC 28542

Dear Sir:

Re: Radiological Monitoring Requirement

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Page 2 Radiological Monitoring Requirement

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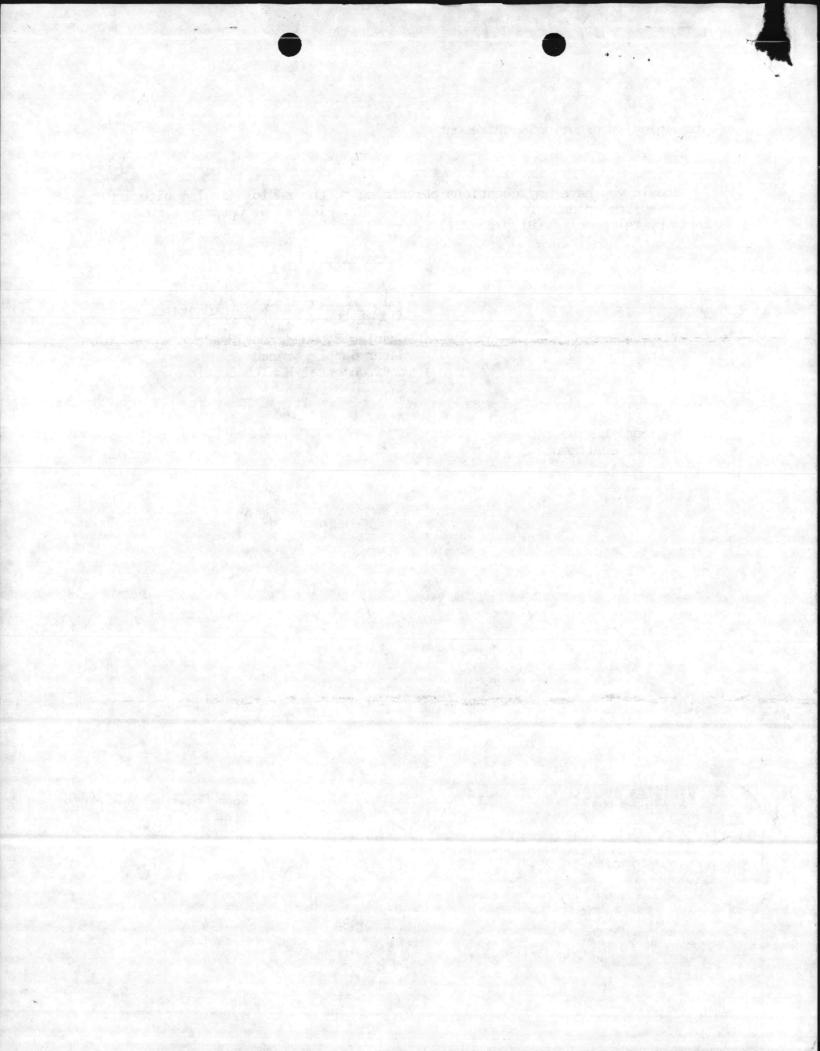
Charles E. Rundgren, Head

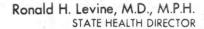
Water Supply Branch

Environmental Health Section

RWC/ar

cc: Regional Engineer Health Department







August 15, 1984

04-67-047 RAD 08-84 ONSLOW
USMC COURTHOUSE BAY
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE NC 28542

Dear Sir:

Re: Radiological Monitoring Requirement

Once every four (4) years a community water system, like yours, is required to monitor for the radiological contents in its drinking water. This requirement is stated in Section .1627 of the Rules Governing Public Water Supplies and became effective in 1977.

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Page 2 Radiological Monitoring Requirement

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Sincerely,

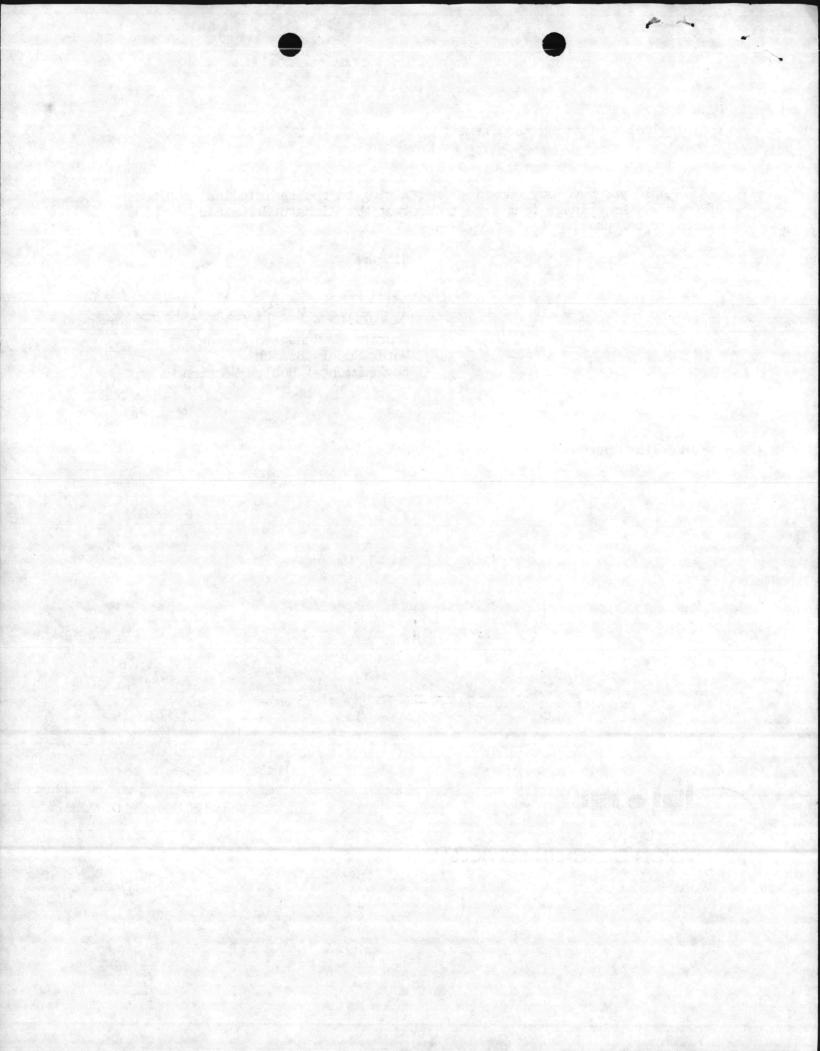
Charles E. Rundgren, Head

Water Supply Branch

Environmental Health Section

RWC/ar

cc: Regional Engineer Health Department





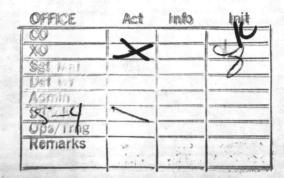
FACILITIES

MHN: Nat. Res.

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

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

August 15, 1984



04-67-046 RAD 08-84 ONSLOW
USMC RIFLE RANGE
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE

NC 28542

Dear Sir:

Re: Radiological Monitoring
Requirement

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August 15, 1934

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NC 28542

Dear Sir:

Page 2 Radiological Monitoring Requirement

Should you have any questions pertaining to the radiological monitoring of your system, please feel free to contact Mr. Richard W. Caspar of this office by telephoning (919)733-2321.

Sincerely,

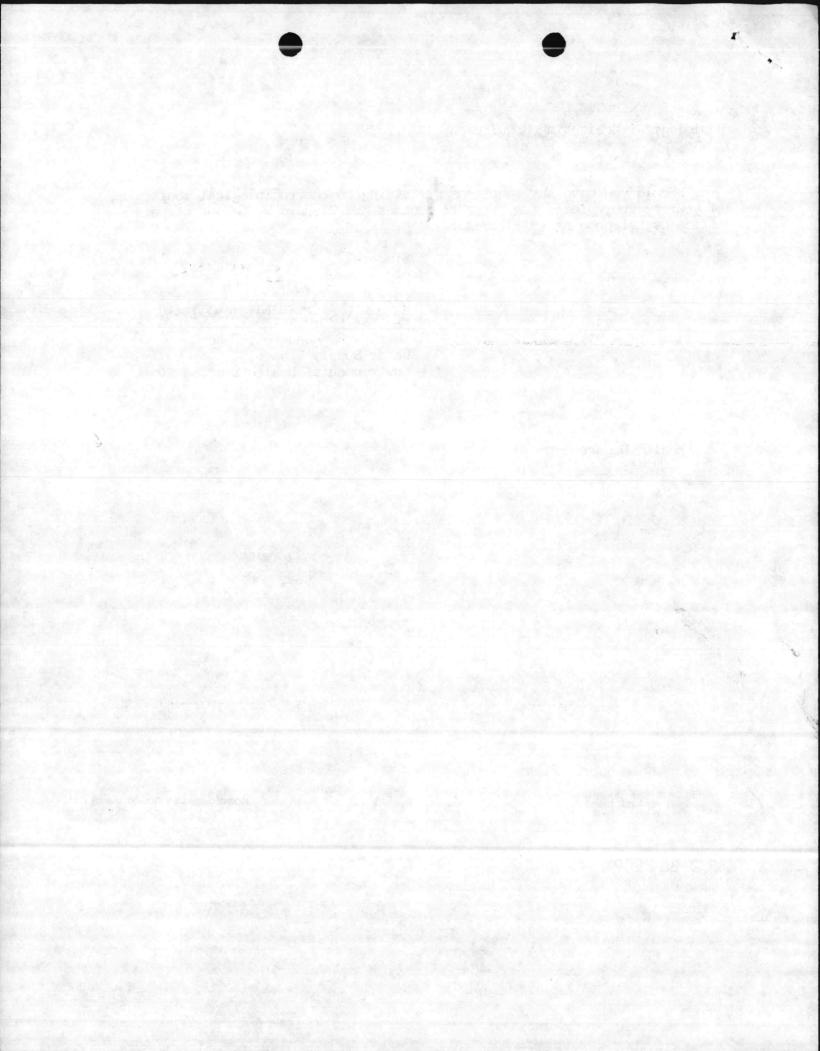
Charles E. Rundgren, Head

Water Supply Branch

Environmental Health Section

RWC/ar

cc: Regional Engineer Health Department







August 15, 1984

04-67-042 RAD 08-84 ONSLOW
USMC NEW RIVER AIR STATION
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE

NC 28542

Dear Sir:

Re: Radiological Monitoring Requirement

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Page 2 Radiological Monitoring Requirement

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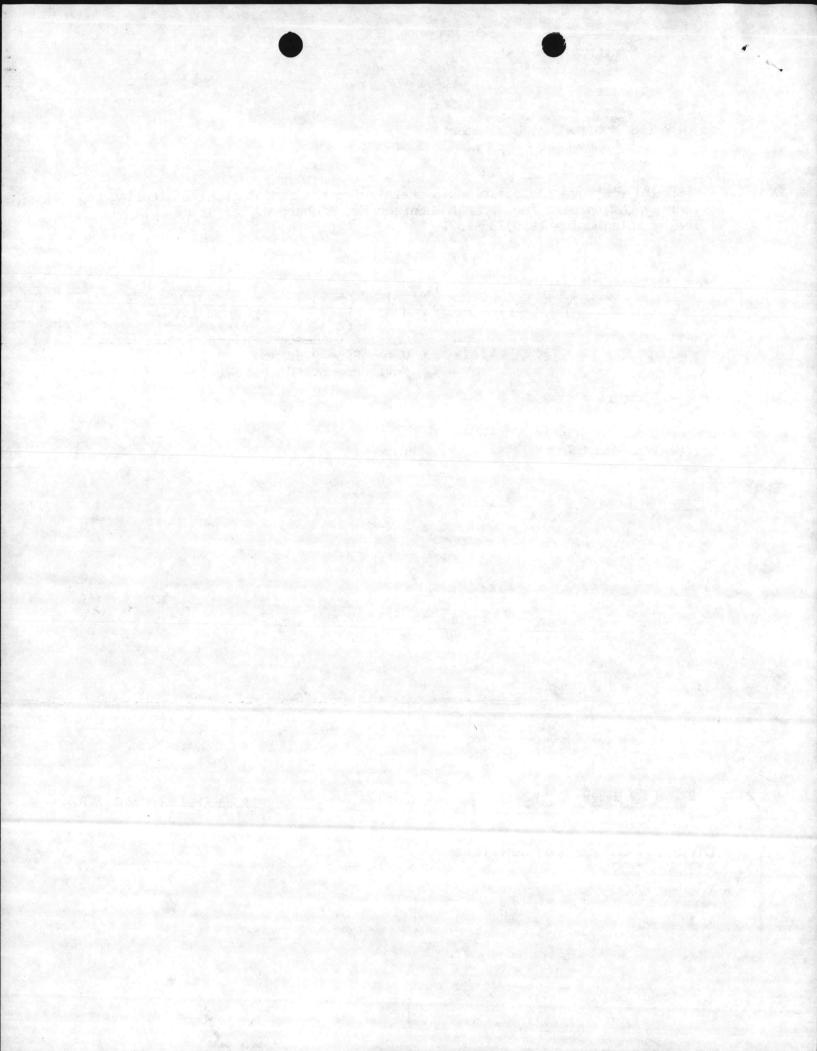
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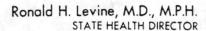
Charles E. Rundgren, Head Water Supply Branch

Environmental Health Section

RWC/ar

cc: Regional Engineer Health Department







June 23, 1983

CAMP LEJEUNE/WTR QC BACT LAB BASE MAINT DEPT/BLDG 65 CAMP LEJEUNE

NC 28542

Re: Radiological Monitoring

Dear Sir:

Attached is a revised copy of the model radiological reporting form. Unfortunately, the model radiological reporting form that was mailed to your on July 13, 1983, contained an error. The difference between the enclosed model form and the original model form is that the " \pm " sign has been moved from the "Detection limit" column to the "Counting error" column. Please use the enclosed model form instead of the original model form.

If you have any questions concerning this form, please do not hesitate to contact me at telephone (919) 733-2321.

Vm. Lam Elmore

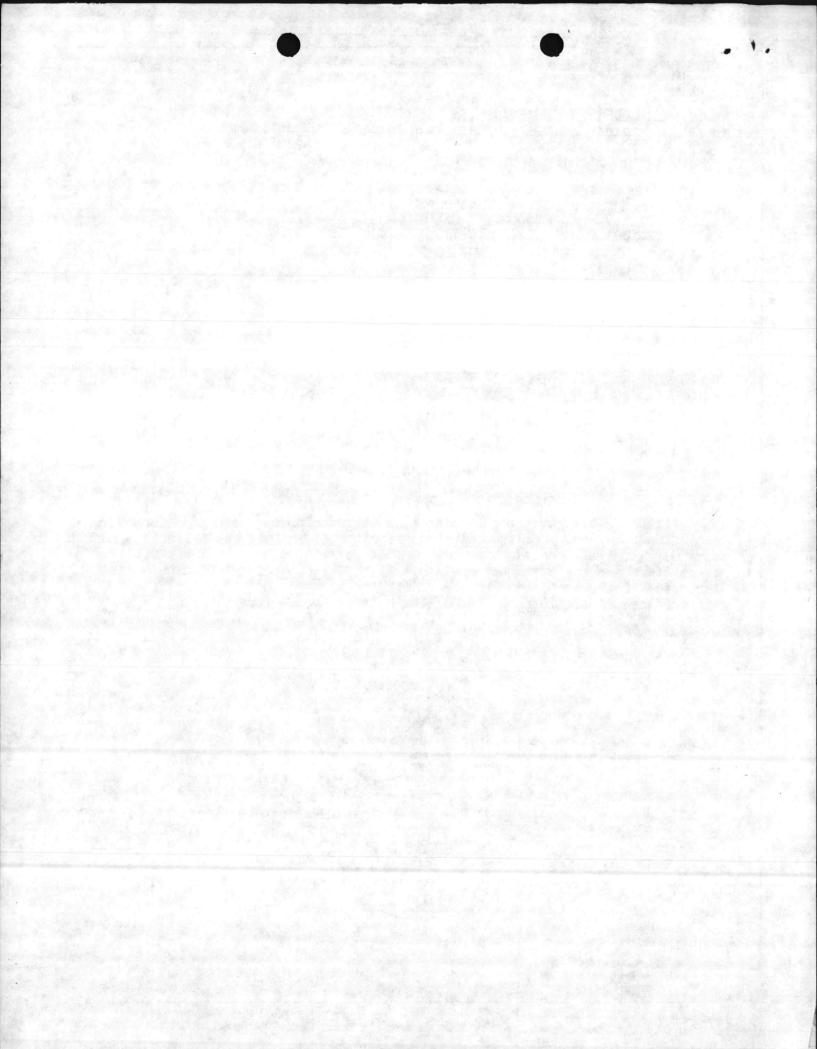
Wm. Larry Elmore

Environmental Engineer Water Supply Branch

Environmental Health Section

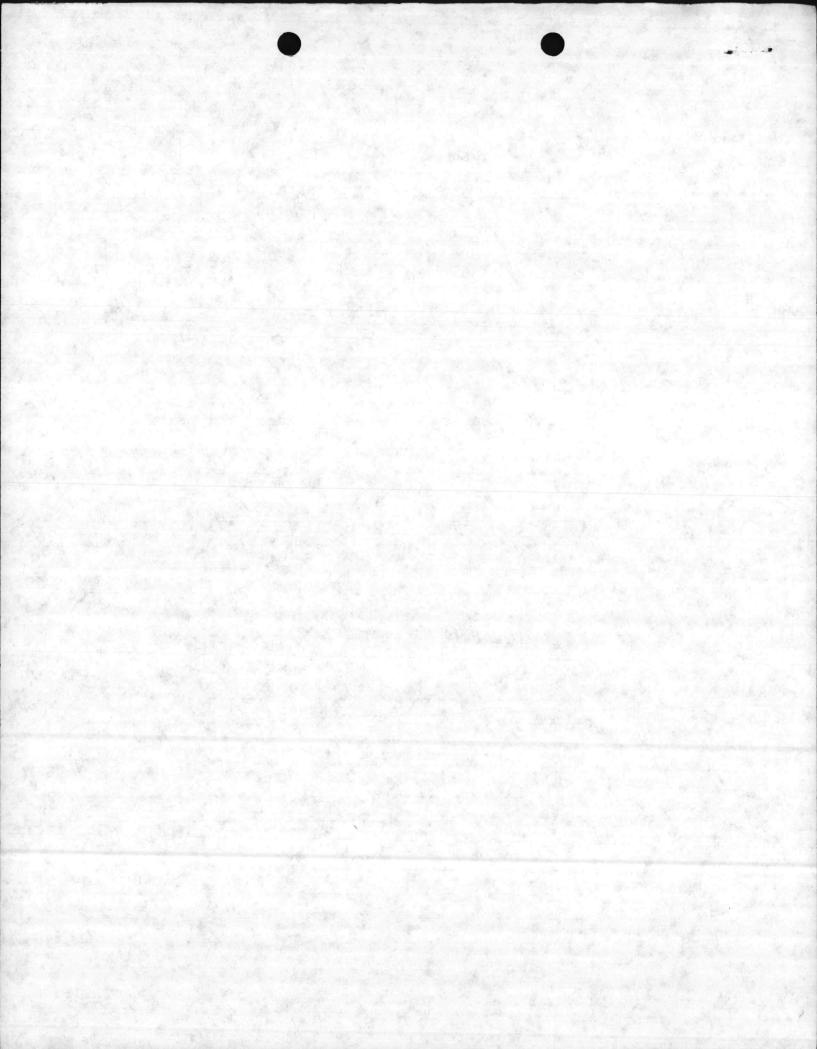
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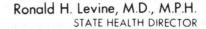
Attachment



RADIOLOGICAL ANALYSIS

	ing Lab I.D.			Water Supp	oly I.D. No.
Name of PWS:			Coi	unty:	
Address:				lephone #:	
		Zip		oe of Water:	
Report to:				() Raw	() Treated
Report to:			So	urce of Water	
Address:				() Ground	() Surface
		Zip			144
Type of Sample:	() D-Regular	() C-Ch	eck () S-	Special ()	E-Composite
		COLLECTION	ΠΔΤΔ		
		Angelia Pila	DATA		
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Fourth Quarter	THE STREET		W		
Date Analyz	red:		Date Repor	ted:	
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	ANALYT:	ICAL VALUES	(pCi/liter)		
	MSIS	MSIS			
	Contaminant	Method	Results	Counting Error	Detection Limit
Gross Alpha	Code	Code	RESULTS	+	LIMIL
	4000			<u>+</u>	1
Gross Beta Radium 226	4020	at The Section		±	
Radium 228	4030			±	*******
Total Uranium	4006			<u>+</u>	
Strontium 89			7 2	<u>+</u>	
Strontium 90	4172		3-6-7	±	
	4102	745		<u>+</u> —	
Tritium Cesium 134	4270			<u>+</u>	and the second
Iodine 131	4264			<u>+</u>	
	4204			<u> </u>	A comment
Other				- TA	A STATE OF THE STA







June 13, 1983

CAMP LEJEUNE/WTR QC BACT LAB BASE MAINT DEPT/BLOG 65 CAMP LEJEUNE

NC 28542

Re: Radiological Monitoring

Dear Sirs:

Enclosed is a copy of the model reporting form for radiological analysis. Beginning July 1, 1983, all laboratories that report radiological results for compliance with the Safe Drinking Water Act must use either the model form or a form of their own design that contains all of the information requested by the model form.

Presently there are only two in-state laboratories which are certified to conduct radiological analysis. Based on this information, this office is assuming that most commercial laboratories will subcontract with out-of-state laboratories for radiological analysis. Please note that this office will only accept radiological results from a laboratory that has been certified for radiological analysis by the North Carolina State Laboratory of Public Health prior to the date on which the sample is analyzed.

For your information, the "Rules Governing Public Water Supplies" allows this office to reduce the quarterly sample procedure for radiological analysis to a single sample. This office will notify those public water supply owners that qualify for this sample reduction. In order to qualify for this sample reduction both of the following requirements must be met:

- 1. The original radiological results were derived from a composite sample composed of four (4) quarterly samples. This office must have a record of all four samples.
- 2. The average gross alpha or combined radium 226 and radium 228 is less than half of the maximum contaminant level (MCL). The gross alpha MCL is 15 pCi/liter and the combined radium 226 and radium 228 is 5pCi/liter.

However, the water supply owner <u>must</u> request in writing for approval of this sample reduction before the results are submitted to this office.

When completing the radiological analysis form please be sure to include the five (5) digit laboratory identification number for the laboratory that did the analysis. Also, the following information must be included:

- 1. Water supply identification number
- 2. Name and address of the public water supply
- 3. County where public water supply is located
- 4. Type of water
- 5. Source of water
- 6. Type of sample
- 7. Sample collection data
- 8. MSIS method code
- 9. Results
- 10. Counting error
- 11. Detection limit

As stated in the "Rules Governing Public Water Supplies" [10 NCAC 10D .1626c(1),(2)], the detection limit is defined as the concentration which can be counted with a precision of plus or minus 100 percent (100%) at the ninety-five percent (95%) confidence level (1.96 standard deviation of the net counting rate of the sample). The detection limit for combined radium 226 and radium 228 shall not exceed 1 pCi/liter nor 3 pCi/liter for gross alpha.

The detection limit for man-made beta particles and proton emitters is as follows:

Tritium	1000 pCi/liter
Strontium-89	10 pCi/liter
Strontium-90	2 pCi/liter
Iodine-131	1 pCi/liter
Cesium-134	10 pCi/liter
Gross Beta	4 pCi/liter
Other radionuclides	1/10 of the applicable limit

In order for the sample to be considered valid the detection limit for the radiological contamination being analyzed must not be exceeded.

Values for Results, Counting error, and Detection limit <u>must</u> be reported as pCi/liter; no other unit of measurement will be accepted.

When reporting the results for a "composite" sample <u>all</u> of the sample collection information for the four quarterly samples must be given. A "regular" sample may be reported as either a single sample or as the appropriate quarterly sample. The appropriate quarterly sample line should be completed when a laboratory reports each quarterly sample of a composite sample separately. All "check" and "special" samples should be reported as a single sample. <u>All</u> of the requested information must be given before this office will accept the analytical results. If any of the requested information is missing this office will return the form to the party that submitted the results.

If you have any questions, please do not hesitate to contact Mr. Larry Elmore at telephone (919) 733-2321.

Very truly yours,

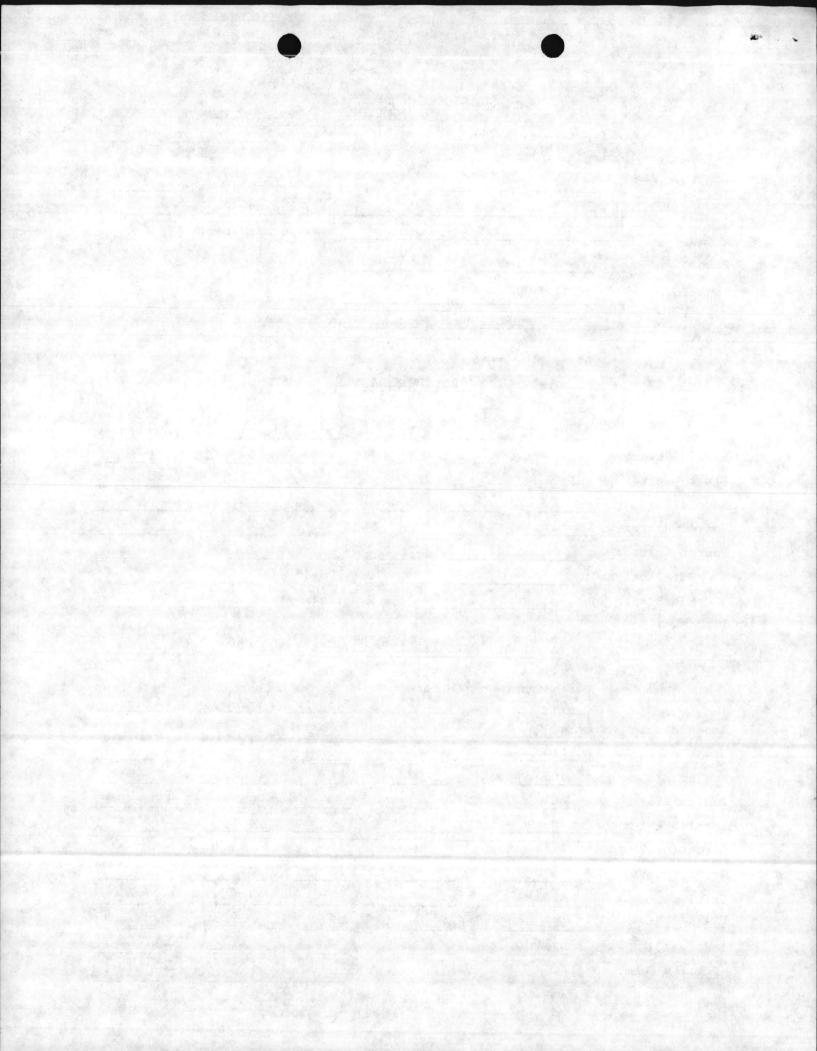
Charles E. Rundgren, Head

Water Supply Branch

Environmental Health Section

RADIOLOGICAL ANALYSIS

	ing Lab I.D.			Water Sup	ply I.D. No.
Name of PWS:			Cour	nty:	
Address:	100 mm 10		and the second second		
		Zip	Тур	e of Water:	() Treated
Report to:		Balling to the Edition 15 to	South	rce of Water	
Address:					() Surface
<u> </u>		Zip			
Type of Sample:	() D-Regular	() C-Che	ck () S-S ₁	pecial ()	E-Composite
		GOLL HOWLOW F	A m 4		
		COLLECTION D	DATA		
	Date Dat				C-11 1 D
	Received Sa	mple Time	Sample I	Location	Collected By
Single Sample				Contract to the party of the contract of the c	
First Quarter					
Second Quarter					
Third Quarter	_				
Fourth Quarter					
Date Analyz	ed:		Date Reporte	ed:	
Lab Sample	No.:		Reported by		
	ANALYT	ICAL VALUES	(pCi/liter)		
	MSIS	MSIS	(рог/11сст)		
	Contaminant	Method		Counting	Detection
	Code	Code	Results	Error	Limit
Gross Alpha	4000				±
Gross Beta	4100				+
Radium 226	4020				+
Radium 228	4030		· ·		±
Total Uranium	4006				+
Strontium 89	4172				+
Strontium 90	4174				±
Tritium	4102	ART CONTRACTOR			<u>+</u>
Cesium 134	4270				<u>+</u>
Iodine 131	4264		7 2 1 4 3		+
		er daner at the	A . A		<u>+</u>
Other	The second secon	De la Constitución de la constit	No. 1 per la constitución de la	and the second second	



ANALYTICAL METHODS FOR RADIOACTIVITY IN DRINKING WATER

CONTAMINANT	MSIS CONTAMINANT CODE	MSIS METHOD CODE	REFERENCE
Gross Alpha	4000	401	1. METHOD 302: Gross Alpha and Gross Beta Radioactivity in Water (Total, Suspended and Dissolved).
		402	Gross Alpha and Beta Radioactivity in Drinking Water.
Gross Beta	4100	401	1. METHOD 302: Gross Alpha and Gross Beta Radioactivity in Water (Total, Suspended and Dissolved.
		402	 Gross Alpha and Beta Radioactivity in Drinking Water.
Radium 226	4020	407	1. METHOD 305: Radium 226 By Radon in Water (Soluble, Suspended, and Total).
		418	2. Radium in Drinking Water. Sequential Method Radium 228/226.
		417	2. Radium 226 in Drinking Water Radon Emanation Technique.
Radium 228	4030	418	 Radium in Drinking Water. Sequential Method Radium 228/226.
		419	4. Brooks-Blanchard Method.
Total Uranium	4006	413	3. ASTM D-2907, Microquantities of Uranium in Water by Fluorometry.
Strontium 89	4172	403	1. METHOD 303: Total Radioactive Strontium and Strontium 90 in Water.
		404	2. Radioactive Strontium in Drinking Water.
Strontium 90	4174	403	1. METHOD 303: Total Radioactive Strontium and Strontium 90 in Water.
		404	2. Radioactive Strontium in Drinking Water
Tritium	4102	409	1. METHOD 306: Tritium in Water.
		410	2. Tritium in Drinking Water.
Cesium 134	4270	411	3. ASTM D-2459, Gamma Spectrometry in Water.
Iodine 131	4264	415	 Radioactive Iodine in Drinking Water (Precipitation Method).
		416	3. ASTM D-2459 Gamma-Spectrometry in Water.

^{1.} Standard Methods for the Analysis of Water And Waste Water, 13th ed. 1971.

^{2.} Interim Radiological Methodology For Drinking Water, EPA, 600/4-75-008, 1976.

^{3.} American Society for Testing and Materials (ASTM). Annual Book of ASTM Standards, Water and Atmospheric Analysis, Part 31, 1975.

^{4.} Anal. Chem. 46: 1742-1749. 1974.

