

6280 T-11335
NREAD

AUG 16 1985

Mr. Charles E. 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:

Enclosed are the Radiological analyses conducted in 1984 for all eight water treatment plants aboard Marine Corps Base (MCB), Camp Lejeune. The final results were received 1 August 1985.

The sampling was done by personnel in the Water Quality Control Laboratory (WQC Lab), State Identification Number 37807, located in the Natural Resources and Environmental Affairs Division (NREAD), under the Assistant Chief of Staff, Facilities, MCB, Camp Lejeune, North Carolina. The analysis was performed by Grainger Laboratories, Incorporated of Raleigh, North Carolina. NREAD averaged the quarterly analysis provided by Grainger Laboratories for all eight drinking water systems aboard this installation which is contained in enclosure (1). Enclosure (2) contains each quarters' analysis on required Radiological Reporting Forms.

Enclosure (3) contains second quarter data for all systems as originally received from Grainger Laboratories, Incorporated. NREAD transferred this data to the required forms in enclosure (2). Enclosure (4) contains Radium 226 and Radium 228 data from the fourth quarter analysis of Marine Corps Air Station, New River. This data was also transferred to enclosure (2) by NREAD.

Any questions regarding this matter should be forwarded to Ms. Elizabeth Betz, Supervisory Chemist, NREAD, telephone (919) 451-5977.

Sincerely,

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

Encl: (1) Radiological Analysis Table
(2) Radiological Reporting Forms
(3) Grainger ltr of 13 Sept 1984
(4) Grainger ltr of 29 July 1985

Blind copy to:
BMO (Attn: UtilDir)
Copy to:
LANTDIV (Code 114)

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

AUG 1 1952

Mr. Charles H. Anderson
Water Supply Branch
Division of Health Services
North Carolina Department of
Health Services
Post Office Box 1034
Raleigh, North Carolina 27602

Dear Mr. Anderson:

Enclosed are the radiological analysis reports on 1952 for
all eight water treatment plants (see attached sheet) located
in the State. The final results were received in August 1952.

The analysis was done by personnel in the Water Quality Control
Laboratory (WQCL) (see attached sheet) located
in the Health Services and Environmental Affairs Division
(HEAD) under the Assistant Chief of State, Facilities, WQCL,
Camp Lejeune, North Carolina. The analysis was performed by
graduate laboratory technicians in the Radiological Laboratory,
HEAD. Attached are the analytical reports prepared by the
laboratory for all eight drinking water systems. Each of the
installations which is contained in enclosure (1). Enclosure
(2) contains each plant's analysis on required radiological
reporting forms.

Enclosure (3) contains second quarter data for all systems as
of 6/30/52. This data was received from the Radiological Laboratory,
HEAD transferred to the Radiological Laboratory in enclosure
(4). Enclosure (5) contains Radiological Laboratory data
from the fourth quarter analysis of Camp Lejeune AIF Station,
New River. This data was also transferred to enclosure (3)
by HEAD.

Any questions regarding this report should be forwarded to the
Assistant Chief, Radiological Laboratory, HEAD, Raleigh (319)
324-3977.

Sincerely,
R. A. Lippitt

R. A. Lippitt
Colonel, U. S. Marine Corps
Assistant Chief of State, Facilities
by direction of the Commanding General

and (1) Radiological Analysis Report
(2) Radiological Reporting Forms
(3) Radiological Laboratory Report
(4) Radiological Laboratory Report
(5) Radiological Laboratory Report
WQCL (Code 1)



UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO

6280/5
NREAD

Mr. Charles E. 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:

- 1 Enclosed are the Radiological analyses conducted in 1984 for all eight water treatment plants aboard Marine Corps Base, Camp Lejeune. The final results were received 1 August 1985.
- 2 The sampling was done by personnel in the Water Quality Control Laboratory (WQC Lab), State Identification Number 37807, located in the Natural Resources and Environmental Affairs Division (NREAD) under the Assistant Chief of Staff, Facilities. The analysis was performed by Grainger Laboratories, Incorporated located ~~in~~ ^{at} Raleigh, North Carolina.

Quarterly samples were analyzed and then averaged. Enclosure (1) provides a summary of the Radiological data for all eight drinking water systems aboard this installation. Enclosure (2) contains each quarters' analysis. The system information and collection data were provided by the WQC Lab. Grainger provided analysis data. Please note that results for Rifle Range water supply for the second quarter and the Radium 226 and Radium 228 results for Marine Corps Air Station, New River water supply system for the fourth quarter are provided in memorandum form.

4 Aug Questions regarding this matter should be forwarded to Ms. Elizabeth Betz, Supervisory Chemist, NREAD, telephone (919) 451-5977.

Sincerely,

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

Encl: (1) Radiological Analysis Table
(2) Radiological Reporting Forms

(3) *Grainger letter 13 Sept 84*
Copy to *4/11* " " *29 July 85*
LANTDIV (Code 114)



STATE OF TEXAS
COUNTY OF DALLAS

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Example of a wave



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Provided by
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↑

NREAD averaged the Quarterly analysis for all 8 drinking water systems above this installation which is contained in Encl (1), Encl (2) contain each quarter's analysis on required Radiological Reporting Forms.

Please note the results for the ^{second} ~~third~~ Quarter data for all systems were not provided on the radiological reporting forms by Grainger Lab Inc. However NREAD transferred the data on Encl (2) ~~data provided by Grainger Lab Inc for MCAS New River for the fourth Quarter~~ for Radium 226 and Radium 228 is ~~submitted~~ transferred to the required State Form.

3 ENCLOSURE (3) IS ~~PROVIDED BECAUSE~~ CONTAINS SECOND QUARTER DATA FOR ALL SYSTEMS AS ORIGINAL RECEIVED FROM GRAINGER LAB INC. NREAD TRANSFERRED THIS DATA TO THE REQUIRED FORMS IN ENCL (2). ENCLOSURE (4) CONTAINS RADIUM 226 + RADIUM 228 DATA FROM THE FOURTH QUARTER ANALYSIS OF MCAS NEW RIVER. THIS DATA WAS ALSO TRANSFERRED TO ENCL (2) BY NREAD.

1 FEB 1958
The following information was obtained from the files of the FBI in connection with the investigation of the activities of the Communist Party, USA, in the State of New York.

The following information was obtained from the files of the FBI in connection with the investigation of the activities of the Communist Party, USA, in the State of New York.

3. The following information was obtained from the files of the FBI in connection with the investigation of the activities of the Communist Party, USA, in the State of New York.

11335
NREAD

Mr. Charles E. 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:

Enclosed are the Radiological Analyses conducted in 1984 for all eight water treatment plants aboard Marine Corps Base, Camp Lejeune. The final results were received 1 August 1985.

The sampling was done by personnel in the Water Quality Control Laboratory (WQC Lab), state identification number 37807, located in the Natural Resources and Environmental Affairs Division (NREAD), under the Assistant Chief of Staff, Facilities. The analysis was performed by Grainger Laboratories, Incorporated located in Raleigh, North Carolina.

Quarterly samples were analyzed and then averaged. Enclosure (1) provides a summary of the radiological data for all eight drinking water systems aboard this installation. Enclosure (2) contains each quarters' analysis on the required Radiological Reporting Form (RR Form). The system information and collection data was filled out the WQC Lab. Grainger provide most analysis data on these forms. The RR Forms for the second quarter were not provided by Grainger, so Grainger's report is also included in the enclosure. The Radium 226 and Radium 228 for the fourth quarter were provided in a separate letter so it is also included in the enclosure.

RADIOLOGICAL
REPORTING

Questions regarding this matter should be forwarded to Ms. E. Betz, Supervisory Chemist, NREAD, telephone (919) 451-5977.

Sincerely,

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

Encls: (1) Radiological Analysis Table
(2) Radiological Reporting Forms

Copy to:
LANTDIV (Code 114)

Blind copy to:
EMO (Attn: UtilDir)

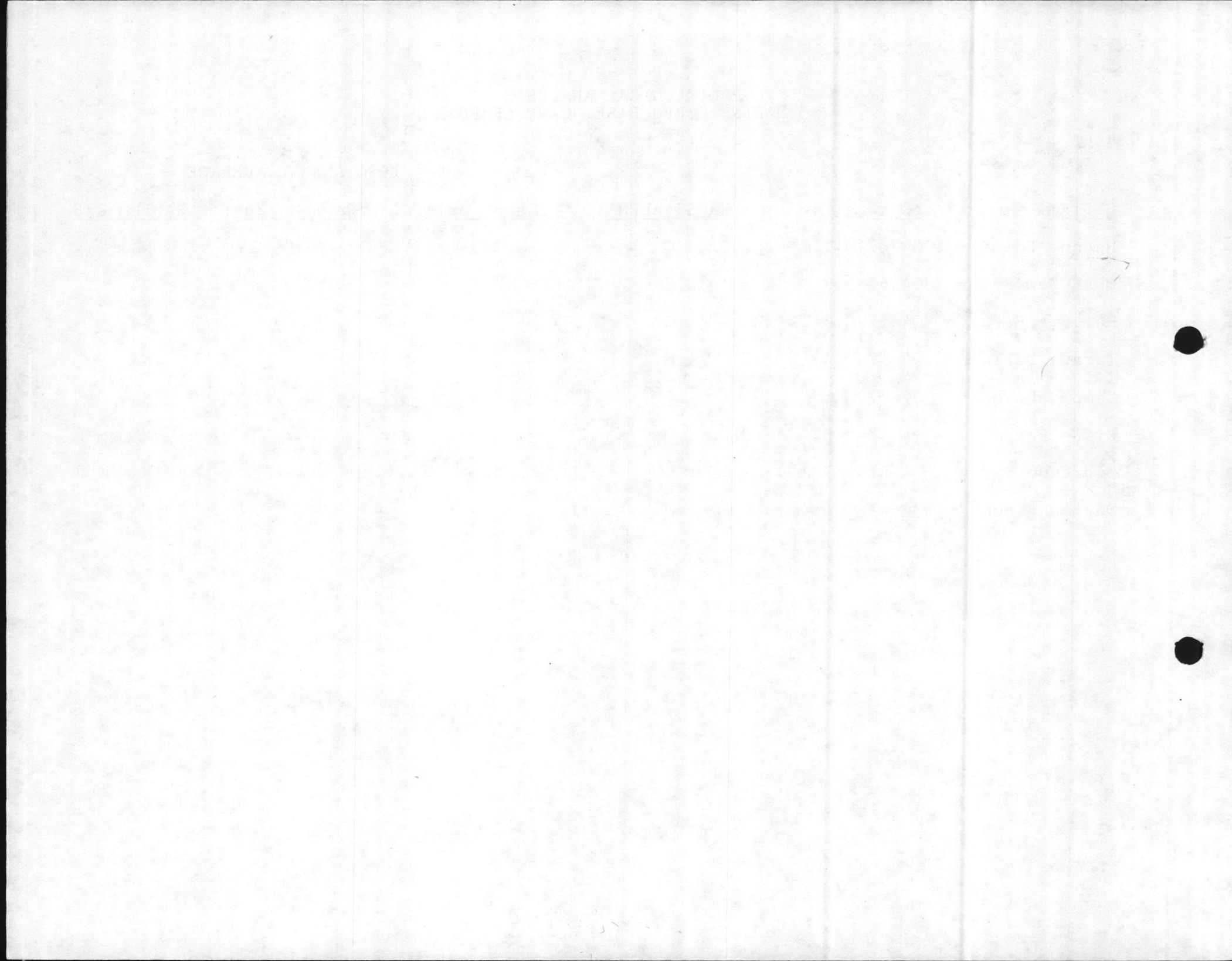
Writer: E. Betz, NREAD, 5977 Supv Chem
Typist: A. Blackstock, 12 August 1985

RADIOLOGICAL ANALYSIS
MARINE CORPS BASE, CAMP LEJEUNE

1984 ANNUAL AVERAGE

<u>SYSTEM</u>	<u>ID #</u>	<u>GROSS ALPHA</u>	<u>GROSS BETA</u>	<u>RADIUM 226</u>	<u>RADIUM 228</u>
Hadnot Point	04-67-041	<1.0	3.3	NA	NA
MCAS-New River	04-67-042	<1.0	10.3	<0.6	<0.4
Holcomb Blvd	04-67-043	<1.0	2.4	NA	NA
Tarawa Terrace	04-67-044	<1.0	2.7	NA	NA
Camp Johnson	04-67-045	<1.0	<1.0	NA	NA
Rifle Range	04-67-046	<1.0	1.5	NA	NA
Courthouse Bay	04-67-047	<1.0	2.0	NA	NA
Onslow Beach	04-67-048	<1.0	1.3	NA	NA

(ENCLOSURE 1)



RADIOLOGICAL ANALYSIS

0/9
T.C. 1/2/1/1/0/0/
Analyzing Lab I.D.

04 - 67 - 041
Water Supply I.D. No.

Name of PWS: HADNOT POINT

County: ONSLOW

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	<u>4/12/84</u>				
First Quarter		<u>3/30/84</u>	<u>0915</u>	<u>BLDG 65</u>	<u>BETZ (WQCL)</u>
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84

Date Reported: 5/15/84

Lab Sample No.: GLI 84-0509-3A-3

Reported by: [Signature]

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	<u>4000</u>	<u>401</u>	<u>< 1.0</u>	<u>+ -</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>2.7</u>	<u>+ 2.3</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>		<u>+ _____</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>		<u>+ _____</u>	<u>0.4</u>
Total Uranium	<u>4006</u>			<u>+ _____</u>	
Strontium 89	<u>4172</u>			<u>+ _____</u>	
Strontium 90	<u>4174</u>			<u>+ _____</u>	
Tritium	<u>4102</u>			<u>+ _____</u>	
Cesium 134	<u>4270</u>			<u>+ _____</u>	
Iodine 131	<u>4264</u>			<u>+ _____</u>	
Other				<u>+ _____</u>	

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RADIOLOGICAL ANALYSIS

0/9
T.C.

1/2/1/1/0/0/
Analyzing Lab I.D.

04 - 67 - 042
Water Supply I.D. No.

Name of PWS: MCAS - NEW RIVER

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	4/12/84				
First Quarter		3/27/84	1047	BLDG G-770	HONEYCOTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 6/08/84-6/14/84

Date Reported: 6/18/84

Lab Sample No.: GLI #84-10510-7A-#1

Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	4000	401	< 1.0	+ -	1.0
Gross Beta	4100	401	10.4	+ 3.4	1.0
Radium 226	4020	417	< 0.6	+ -	0.6
Radium 228	4030	418	1.4	+ 0.4	0.4
Total Uranium	4006			+ -	
Strontium 89	4172			+ -	
Strontium 90	4174			+ -	
Tritium	4102			+ -	
Cesium 134	4270			+ -	
Iodine 131	4264			+ -	
Other				+ -	

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RADIOLOGICAL ANALYSIS

0/9
T.C. Analyzing Lab I.D.

12/17/0/0/

04 - 67 - 043
Water Supply I.D. No.

Name of PWS: HOLCOMB BLVD

County: ONSLOW

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	4/12/84				
First Quarter		3/27/84	1136	Bldg 4022	HONEYCUTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84

Date Reported: 5/15/84

Lab Sample No.: GLI 84-10509-1A-1

Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	1.5	± 1.0	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

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RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/00
Analyzing Lab I.D.

04 - 67 - 044
Water Supply I.D. No.

Name of PWS: TARAWA TERRACE

County: ONslow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	4/12/84				
First Quarter		3/27/84	1125	BLDG TI-44	HUNEYCUTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84

Date Reported: 5/15/84

Lab Sample No.: GLI-84-10509-2A-2

Reported by: Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	2.9	± 2.5	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

1952

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RADIOLOGICAL ANALYSIS0/9
T.C.1/2/1/1/0/0/
Analyzing Lab I.D.04 - 67 - 045
Water Supply I.D. No.

Name of PWS: CAMP JOHNSON County: ONSLOW
 Address: MARINE CORPS BASE Telephone #: _____
CAMP LEJEUNE, NC Zip 28542 Type of Water:
 () Raw (X) Treated
 Report to: COMMANDING GENERAL Source of Water:
 (X) Ground () Surface
 Address: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542
 Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	4/12/84				
First Quarter		3/27/84	1110	BDG M-231	HUNEYCUTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84Date Reported: 5/15/84Lab Sample No.: GLI #84-10510-8A-2Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	< 1.0	± -	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

HUNTSVILLE

Box M-231

1110 1/2

RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/0/0/
Analyzing Lab I.D.

04 - 67 - 046
Water Supply I.D. No.

Name of PWS: RIFLE RANGE

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	4/12/84				
First Quarter		3/30/84	1400	BLDG RR-10	HUNEYCUTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84

Date Reported: 5/15/84

Lab Sample No.: GLI 84-10508-6A-3

Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	±	1.0
Gross Beta	4100	401	1.8	± 1.5	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

1944

File KR-10

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Project

RADIOLOGICAL ANALYSIS

0/9
T.C.1/2/1/1/0/0/
Analyzing Lab I.D.04 - 67 - 047
Water Supply I.D. No.Name of PWS: COURTHOUSE BAYCounty: ONSLowAddress: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542Type of Water:
() Raw (X) TreatedReport to: COMMANDING GENERALSource of Water:
(X) Ground () SurfaceAddress: ATTN: NREA, MARINE CORPS BASECAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	4/12/84				
First Quarter		3/30/84	1340	BLDG BB-7	HONEYCUTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84Date Reported: 5/15/84Lab Sample No.: GLI 84-10508-5A-2Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	2.3	± 2.0	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

HOVERLON

BOE B&Y

1970 - 1971



RADIOLOGICAL ANALYSIS

0/9
T.C. 1/2/1/1/0/0/
Analyzing Lab I.D.

04 - 67 - 048
Water Supply I.D. No.

Name of PWS: ONSLow BEACH

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	4/12/84				
First Quarter		3/30/84	1315	BY Bldg BA 197 CAMP SITE SPIGOT	HUNEYCUTT
Second Quarter					
Third Quarter					
Fourth Quarter					

Date Analyzed: 5/14/84

Date Reported: 5/15/84

Lab Sample No.: GLI 84-10508-4A-1

Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	< 1.0	± -	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	

1812 1812
BY THE COURT
HANSWORTH

RADIOLOGICAL ANALYSIS

0/9 12/11/01
T.C. Analyzing Lab I.D.

04 - 67 - 041
Water Supply I.D. No.

Name of PWS: HADNOT POINT

County: ONSLOW

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>1500</u>	<u>BLDG 65</u>	<u>HUNECUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84

Date Reported: _____

Lab Sample No.: S #91-9B 11A+B

Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.4</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>4.0</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____

RADIOLOGICAL ANALYSIS

Lab. No. _____

Analysis by I.D. No. _____

Water supply I.D. No. _____

Name of town _____ County _____

Address _____

Quantity of water _____

Time of day _____

Analyst _____

Date of analysis _____

Reference No. _____

Comments _____

Results _____

RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/01
Analyzing Lab I.D.

04 - 67 - 042
Water Supply I.D. No.

Name of PWS: MCAS - NEW RIVER
Address: MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542
Report to: COMMANDING GENERAL
Address: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542

County: ONSLOW
Telephone #: _____
Type of Water:
() Raw (X) Treated
Source of Water:
(X) Ground () Surface

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>1220</u>	<u>Bldg G-770</u>	<u>HUNEYCUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84

Date Reported: _____

Lab Sample No.: 15A+B

Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>7.7</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	<u><0.6</u>	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	<u><0.4</u>	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



1954

WEST VIRGINIA

LEWIS

RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/01
Analyzing Lab I.D.

04 - 67 - 043
Water Supply I.D. No.

Name of PWS: HOLCOMB BLVD

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>0900</u>	<u>BLDC 4022</u>	<u>HUNELCUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84

Date Reported: _____

Lab Sample No.: 9A+B

Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>1.5</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____

RADIOLOGICAL ANALYSIS

Case No. _____
Patient Name _____
Referring Physician _____

Request for _____
Date of Request _____

Report to: _____
Address: _____

Site of Sample: _____
Type of Sample: _____

Method of Analysis: _____
Reference Range: _____

Results: _____
Interpretation: _____

Remarks: _____
Signature: _____

Date: _____
Institution: _____

RADIOLOGICAL ANALYSIS

0/9
T.C. 12/11/01/01
Analyzing Lab I.D.

04 - 67 - 044
Water Supply I.D. No.

Name of PWS: TARAWA TERRACE
Address: MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542
Report to: COMMANDING GENERAL
Address: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542

County: ONSLOW
Telephone #: _____
Type of Water:
() Raw (X) Treated
Source of Water:
(X) Ground () Surface

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>0922</u>	<u>BLDG TT-44</u>	<u>HONEYCUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84
Lab Sample No.: 10A+B

Date Reported: _____
Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



THE UNIVERSITY OF MICHIGAN

ANN ARBOR, MICHIGAN

1952

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RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/01
Analyzing Lab I.D.

04 - 67 - 045
Water Supply I.D. No.

Name of PWS: CAMP JOHNSON

County: ONSLOW

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw () Treated

Report to: COMMANDING GENERAL

Source of Water:
() Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: () D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>0940</u>	<u>BLDG M-231</u>	<u>HUNNEYCUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84

Date Reported: _____

Lab Sample No.: 16 A+B

Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



REPORT OF INVESTIGATION

NOV 1951

UNITED STATES DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION

MEMORANDUM

TO : SAC, NEW YORK

FROM : SAC, NEW YORK

SUBJECT: [Illegible]

[Illegible]

NY 100-100000

NY 100-100000

NY 100-100000

RADIOLOGICAL ANALYSIS

0/9
T.C. Analyzing Lab I.D.

12/17/01

04 - 67 - 046
Water Supply I.D. No.

Name of PWS: RIFLE RANGE

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>1340</u>	<u>BLDG RP-10</u>	<u>HUNEYCUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84

Date Reported: _____

Lab Sample No.: 14A+B

Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>1.4</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____

RADIOLOGICAL ANALYSIS

DATE

ANALYZING LAB. I.D. NO.

WATER SUPPLY I.D. NO.

NAME OF WATER: _____
 ADDRESS: _____
 PHONE NO.: _____
 CITY: _____
 STATE: _____

TYPE OF WATER: _____

COLLECTED BY: _____
 DATE: _____
 TIME: _____
 LOCATION: _____

Element	Concentration (ppm)	Method	Detection Limit
Strontium 90			
Strontium 89			
Total Strontium			
Plutonium 239			
Plutonium 240			
Total Plutonium			
Cesium 137			
Iodine 131			
Other			

RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/84
Analyzing Lab I.D.

04 - 67 - 047
Water Supply I.D. No.

Name of PWS: COURTHOUSE BAY County: ONSLOW
 Address: MARINE CORPS BASE Telephone #: _____
CAMP LEJEUNE, NC Zip 28542 Type of Water:
 Report to: COMMANDING GENERAL () Raw (X) Treated
 Address: ATTN: NREA, MARINE CORPS BASE Source of Water:
CAMP LEJEUNE, NC Zip 28542 (X) Ground () Surface

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>1405</u>	<u>BUDS BB-7</u>	<u>HUNEXCUT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLE LTR 9-13-84 Date Reported: _____
 Lab Sample No.: 13A+B Reported by: SEE GLE LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>2.8</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



REPORT TO THE BOARD

DATE: 12/15/84

TO: THE BOARD OF DIRECTORS

FROM: [Illegible]

SUBJECT: [Illegible]

[Illegible text block]

12/15/84

[Illegible text]

[Illegible text block]

[Illegible text block]

[Illegible text block]

[Illegible text block]

[Illegible text block]

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RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/0/0
Analyzing Lab I.D.

04 - 67 - 048
Water Supply I.D. No.

Name of PWS: ONslow BEACH
Address: MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542
Report to: COMMANDING GENERAL
Address: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542

County: ONslow
Telephone #: _____
Type of Water:
() Raw (X) Treated
Source of Water:
(X) Ground () Surface

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	<u>7/6/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	<u>6/27/84</u>	<u>1418</u>	<u>BESIDE BA 197 CAMP SITE SPIGOT</u>	<u>HUNENCUTT</u>
Third Quarter	_____	_____	_____	_____	_____
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: SEE GLI LTR 9-13-84

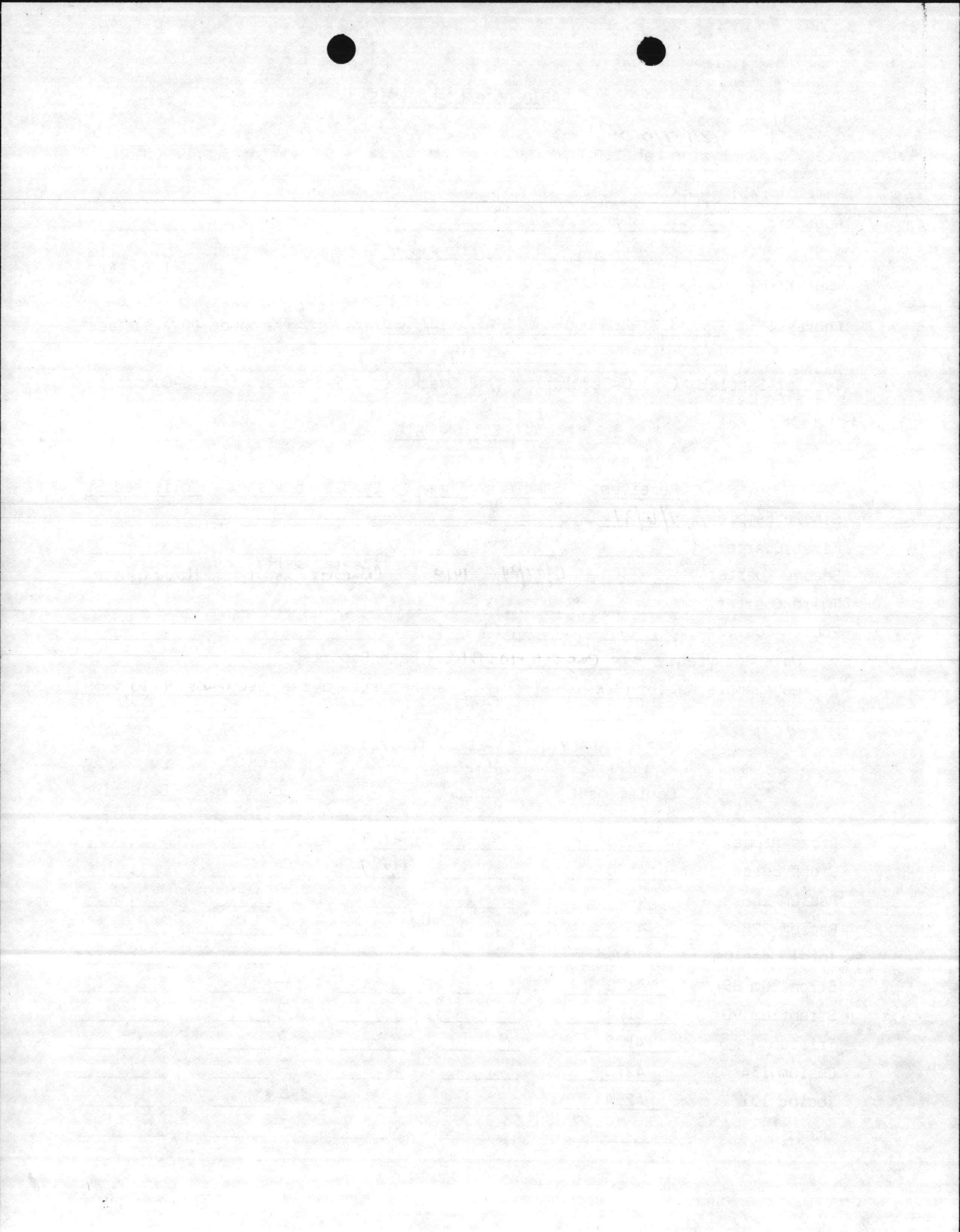
Date Reported: _____

Lab Sample No.: 12 A+B

Reported by: SEE GLI LTR 9-13-84

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	<u>4000</u>	<u>401</u>	<u><1.0</u>	<u>±</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>2.7</u>	<u>±</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



RADIOLOGICAL ANALYSIS

0/9
T.C.

12/17/84
Analyzing Lab I.D.

04 - 67 - 041
Water Supply I.D. No.

Name of PWS: HADNOT POINT

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Address: ATTN: NREA, MARINE CORPS BASE

Source of Water:
(X) Ground () Surface

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	10/31/84				
First Quarter					
Second Quarter					
Third Quarter		9/21/84	0830	Bldg 65	HONEYCUTT
Fourth Quarter					

Date Analyzed: 11/12/84

Date Reported: 12/11/84

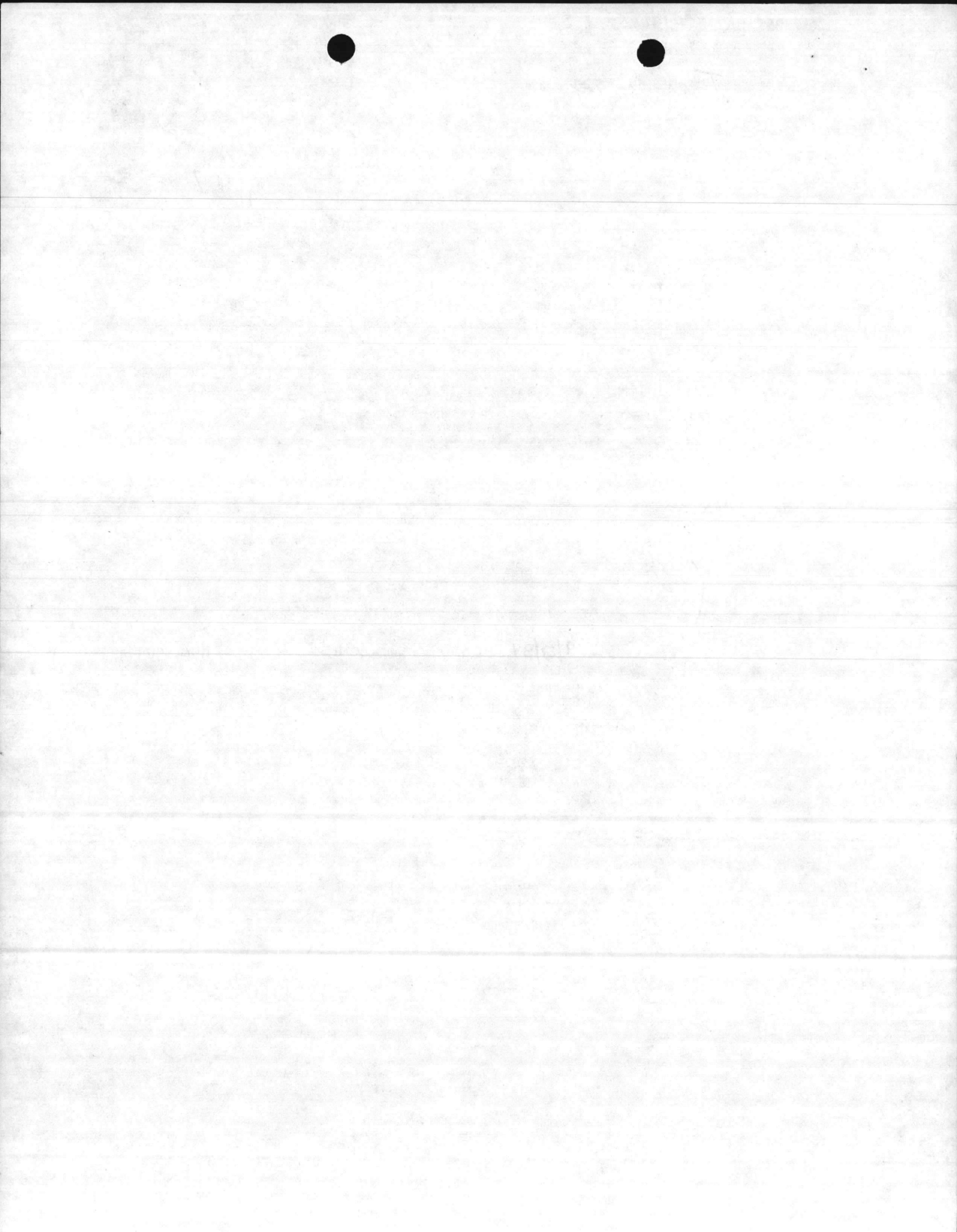
Lab Sample No.: 85-1190-19

Reported by: [Signature]

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	4.1	± 2.9	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	



RADIOLOGICAL ANALYSIS

0/9
T.C.

12/17/0/0/
Analyzing Lab I.D.

04 - 67 - 042
Water Supply I.D. No.

Name of PWS: MCAS - NEW RIVER

County: ONslow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	<u>Date Received</u>	<u>Date Sample</u>	<u>Time</u>	<u>Sample Location</u>	<u>Collected By</u>
Single Sample	<u>10/25/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	_____	_____	_____	_____
Third Quarter	_____	<u>9/21/84</u>	<u>0945</u>	<u>BLDC G-770</u>	<u>HUNEYCUTT</u>
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: 11/02/84

Date Reported: 11/30/84

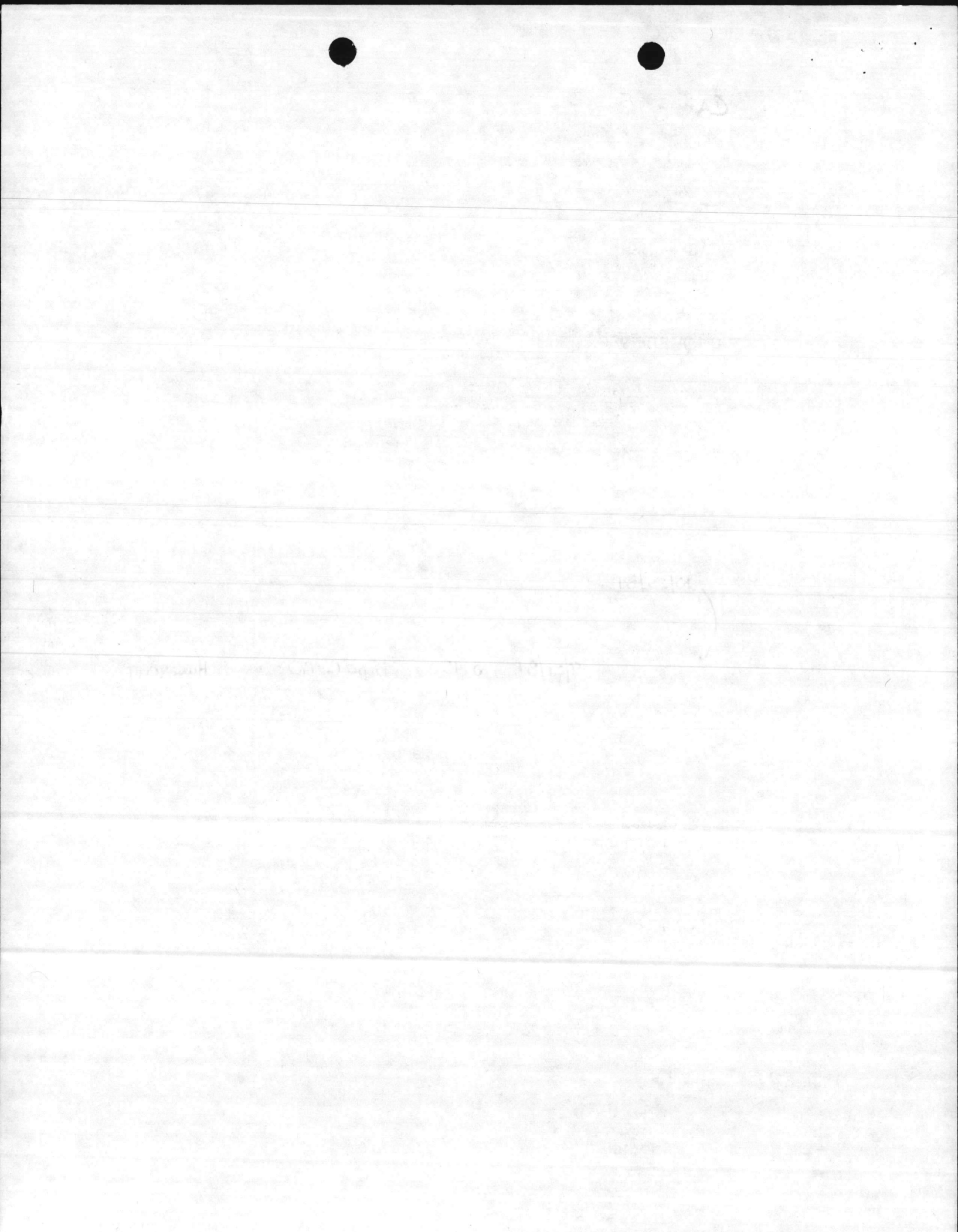
Lab Sample No.: 84-12021-23

Reported by: *Don Smith*

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	<u>MSIS Contaminant Code</u>	<u>MSIS Method Code</u>	<u>Results</u>	<u>Counting Error</u>	<u>Detection Limit</u>
Gross Alpha	<u>4000</u>	<u>401</u>	<u>< 1.0</u>	<u>± -</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>8.7</u>	<u>± 3.3</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	<u>< 0.6</u>	<u>± -</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	<u>< 0.4</u>	<u>± -</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>±</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



RADIOLOGICAL ANALYSIS

0/9
T.C.

12/17/84
Analyzing Lab I.D.

04 - 67 - 043
Water Supply I.D. No.

Name of PWS: HOLCOMB BLVD

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	10/25/84				
First Quarter					
Second Quarter					
Third Quarter		9/21/84	0857	BLDG 4022	HONEYCUTT
Fourth Quarter					

Date Analyzed: 11/12/84

Date Reported: 12/11/84

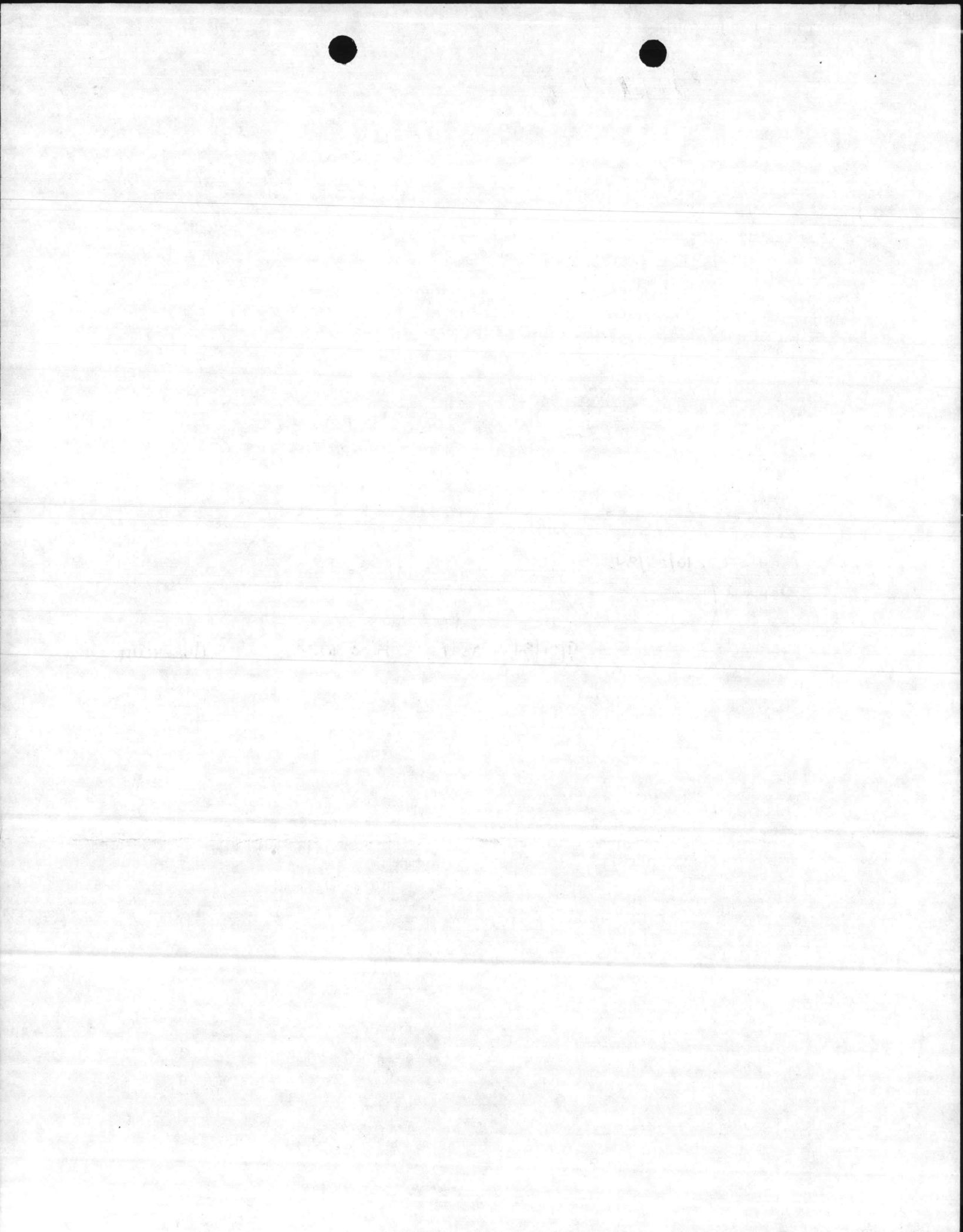
Lab Sample No.: 85-1190-17

Reported by: Paul Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	3.6	± 2.8	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	



RADIOLOGICAL ANALYSIS

0/9
T.C.

12/17/84
Analyzing Lab I.D.

04 - 67 - 044
Water Supply I.D. No.

Name of PWS: TARAWA TERRACE

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	10/31/84				
First Quarter					
Second Quarter					
Third Quarter		9/21/84	0905	BLDG TT-44	HONEYCUTT
Fourth Quarter					

Date Analyzed: 11/12/84

Date Reported: 12/11/84

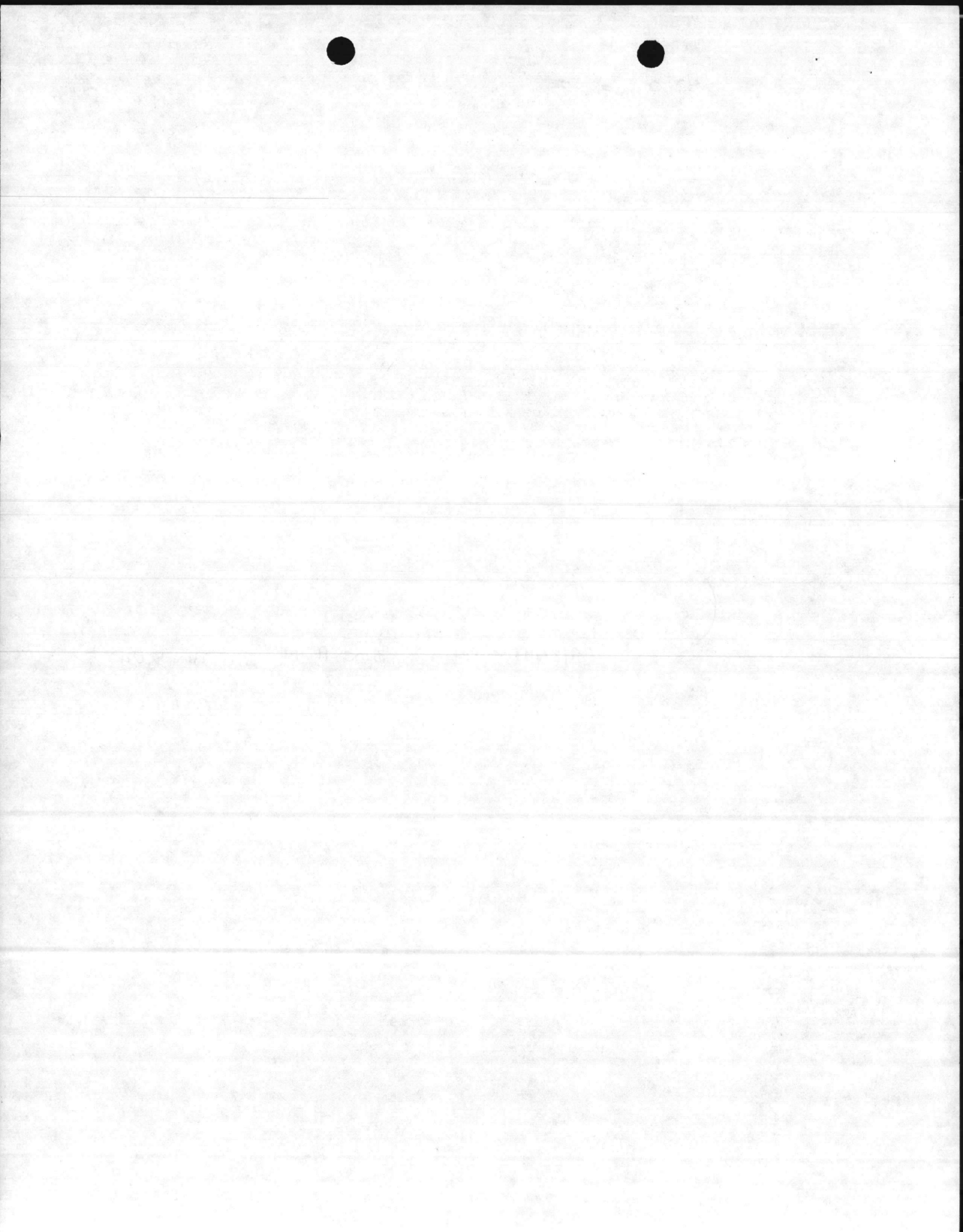
Lab Sample No.: 85-1190-18

Reported by: [Signature]

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	4.2	± 2.9	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	



RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/0/0/
Analyzing Lab I.D.

04 - 67 - 045
Water Supply I.D. No.

Name of PWS: CAMP JOHNSON

County: ONSLow

Address: MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542

Telephone #: _____

Report to: COMMANDING GENERAL

Type of Water:
() Raw (X) Treated

Address: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC Zip 28542

Source of Water:
(X) Ground () Surface

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	<u>10/25/84</u>	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	_____	_____	_____	_____
Third Quarter	_____	<u>9/21/84</u>	<u>0924</u>	<u>Bldg. M-231</u>	<u>HUNEXCUTV</u>
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: 11/02/84

Date Reported: 11/30/84

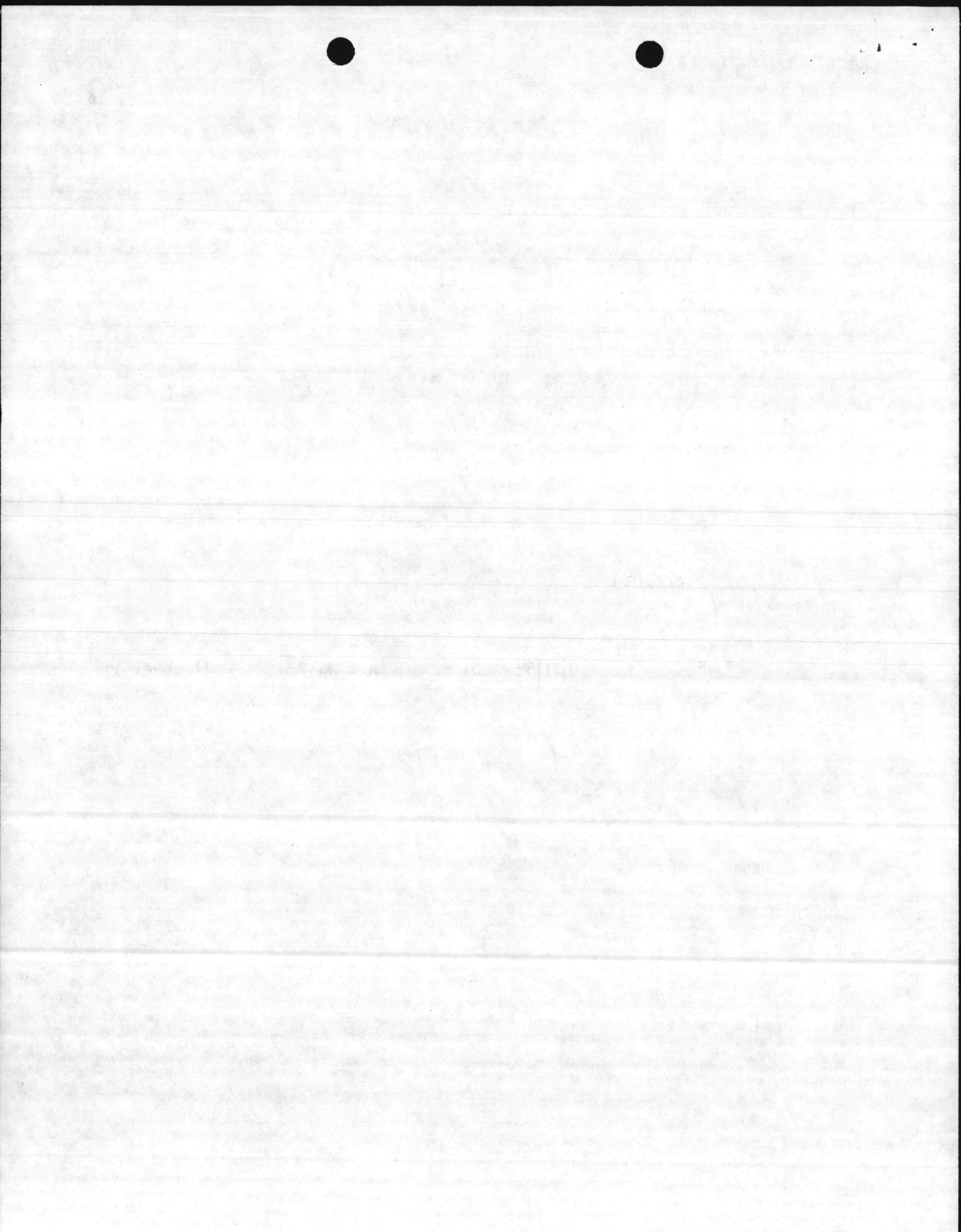
Lab Sample No.: 84-12021-24

Reported by: *Don Smith*

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	<u>4000</u>	<u>401</u>	<u>< 1.0</u>	<u>± -</u>	<u>1.0</u>
Gross Beta	<u>4100</u>	<u>401</u>	<u>1.5</u>	<u>± 0.9</u>	<u>1.0</u>
Radium 226	<u>4020</u>	<u>417</u>	_____	<u>±</u>	<u>0.6</u>
Radium 228	<u>4030</u>	<u>418</u>	_____	<u>±</u>	<u>0.4</u>
Total Uranium	<u>4006</u>	_____	_____	<u>±</u>	_____
Strontium 89	<u>4172</u>	_____	_____	<u>±</u>	_____
Strontium 90	<u>4174</u>	_____	_____	<u>±</u>	_____
Tritium	<u>4102</u>	_____	_____	<u>-</u>	_____
Cesium 134	<u>4270</u>	_____	_____	<u>±</u>	_____
Iodine 131	<u>4264</u>	_____	_____	<u>±</u>	_____
Other	_____	_____	_____	<u>±</u>	_____



RADIOLOGICAL ANALYSIS

0/9
T.C.12/17/0/0/
Analyzing Lab I.D.04 - 67 - 046
Water Supply I.D. No.Name of PWS: RIFLE RANGECounty: ONSLOWAddress: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542Type of Water:
() Raw (X) TreatedReport to: COMMANDING GENERALSource of Water:
(X) Ground () SurfaceAddress: ATTN: NREA, MARINE CORPS BASECAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

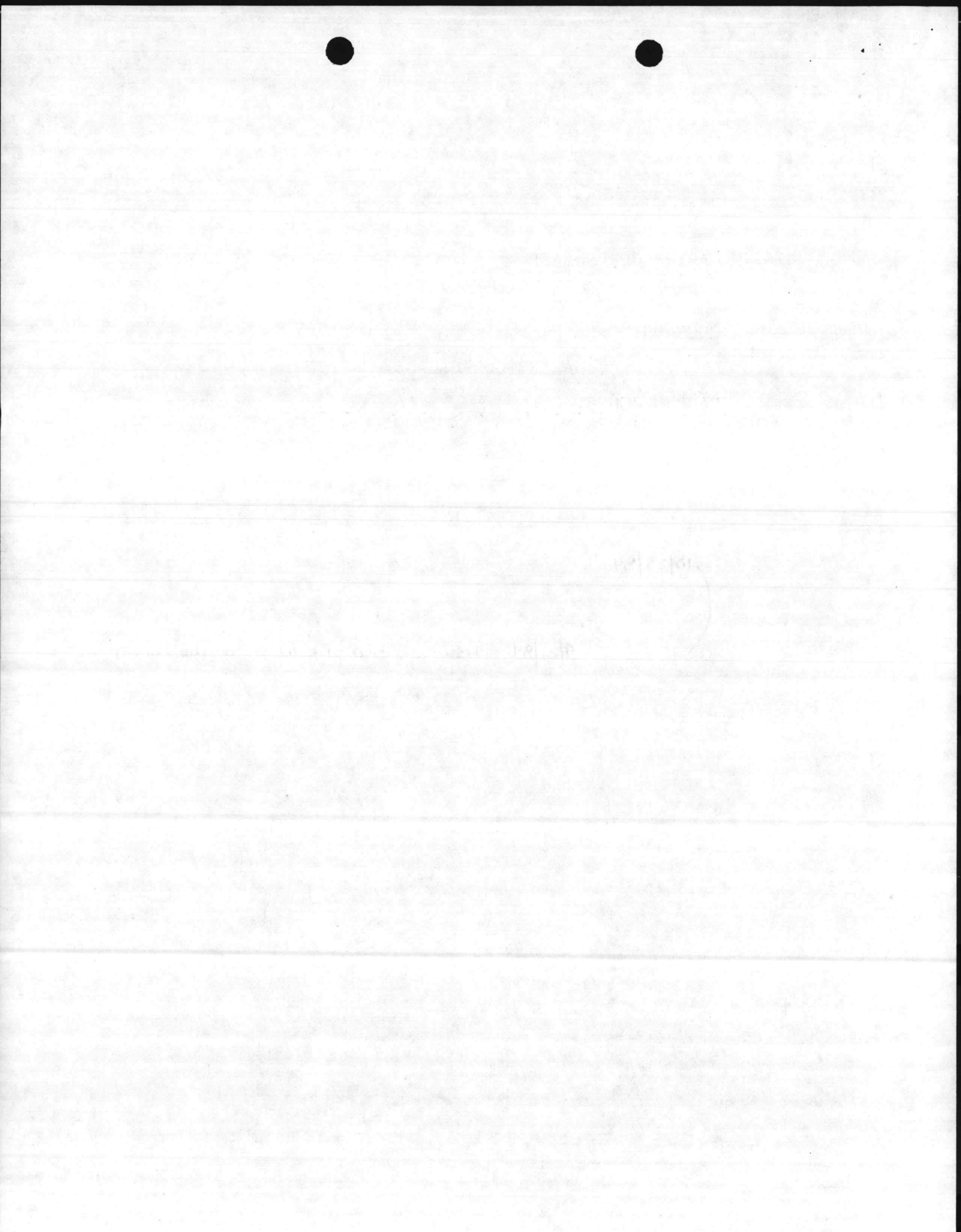
	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	10/25/84	_____	_____	_____	_____
First Quarter	_____	_____	_____	_____	_____
Second Quarter	_____	_____	_____	_____	_____
Third Quarter	_____	9/21/84	1135	BUDG RR-10	HONEYCUTT
Fourth Quarter	_____	_____	_____	_____	_____

Date Analyzed: 11/02/84Date Reported: 11/30/84Lab Sample No.: 84-12021-22Reported by: *R. Smith*

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	+ -	1.0
Gross Beta	4100	401	< 1.0	+ -	1.0
Radium 226	4020	417	_____	+ _____	0.6
Radium 228	4030	418	_____	+ _____	0.4
Total Uranium	4006	_____	_____	+ _____	_____
Strontium 89	4172	_____	_____	+ _____	_____
Strontium 90	4174	_____	_____	+ _____	_____
Tritium	4102	_____	_____	- _____	_____
Cesium 134	4270	_____	_____	+ _____	_____
Iodine 131	4264	_____	_____	+ _____	_____
Other	_____	_____	_____	+ _____	_____



RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/0/0/
Analyzing Lab I.D.

04 - 67 - 047
Water Supply I.D. No.

Name of PWS: COURTHOUSE BAY

County: ONslow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	10/25/84				
First Quarter					
Second Quarter					
Third Quarter		9/21/84	1312	Bldg BB-7	HUNECOTT
Fourth Quarter					

Date Analyzed: 11/02/84

Date Reported: 11/30/84

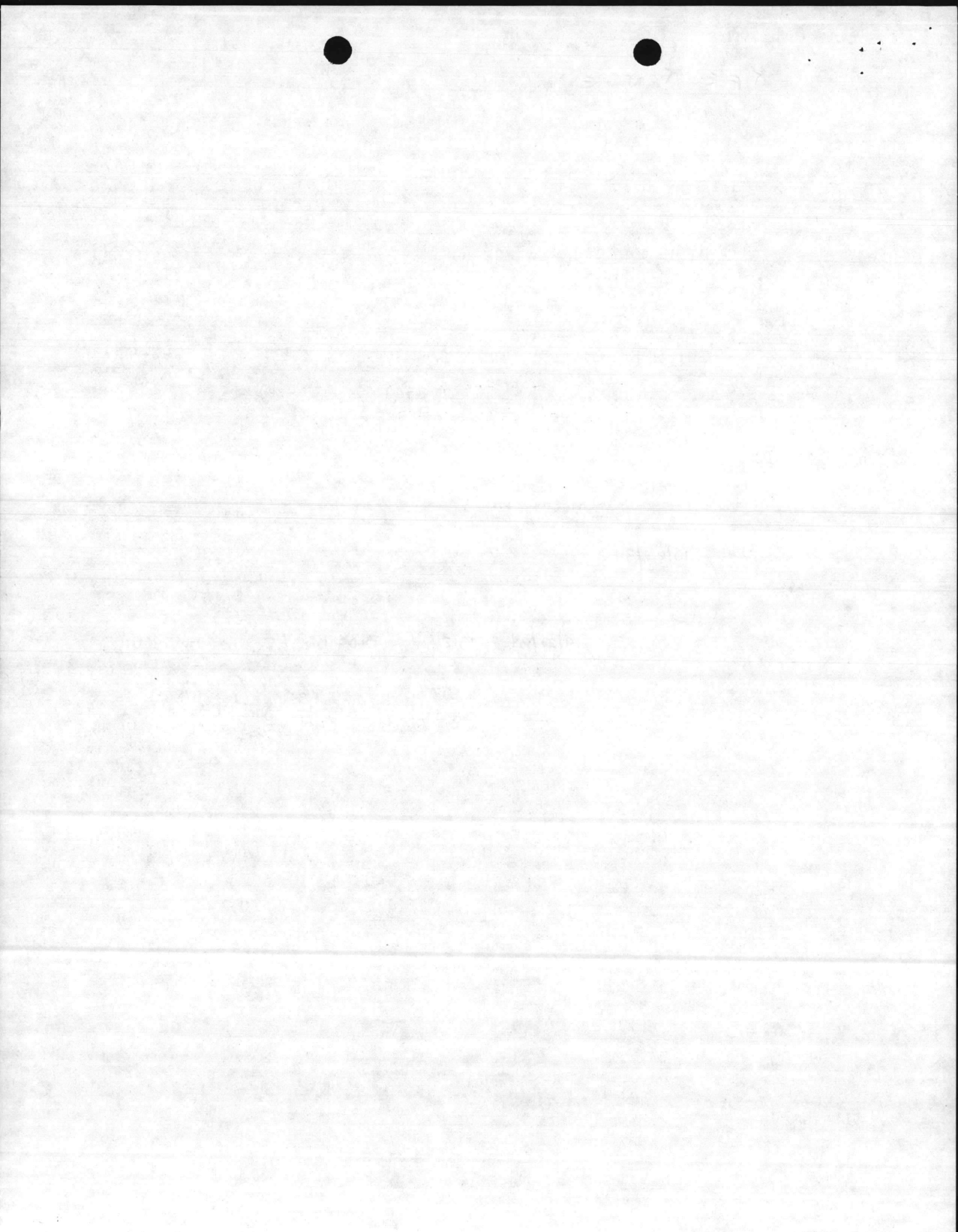
Lab Sample No.: 84-12021-21

Reported by: *Don Smith*

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	±	1.0
Gross Beta	4100	401	1.1	± 0.7	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	



RADIOLOGICAL ANALYSIS

0/9
T.C. 12/17/00/
Analyzing Lab I.D.

04 - 67 - 048
Water Supply I.D. No.

Name of PWS: ONSLow BEACH

County: ONSLow

Address: MARINE CORPS BASE

Telephone #: _____

CAMP LEJEUNE, NC Zip 28542

Type of Water:
() Raw (X) Treated

Report to: COMMANDING GENERAL

Source of Water:
(X) Ground () Surface

Address: ATTN: NREA, MARINE CORPS BASE

CAMP LEJEUNE, NC Zip 28542

Type of Sample: (X) D-Regular () C-Check () S-Special () E-Composite

COLLECTION DATA

	Date Received	Date Sample	Time	Sample Location	Collected By
Single Sample	10/25/84				
First Quarter					
Second Quarter					
Third Quarter		9/21/84	1343	BESIDE BA 197 COMPOSITE SPIGOT	HUNECUTT
Fourth Quarter					

Date Analyzed: 11/02/84

Date Reported: 11/30/84

Lab Sample No.: 84-12021-20

Reported by: Don Smith

McCoy & McCoy, Inc.

ANALYTICAL VALUES (pCi/liter)

	MSIS Contaminant Code	MSIS Method Code	Results	Counting Error	Detection Limit
Gross Alpha	4000	401	< 1.0	± -	1.0
Gross Beta	4100	401	1.3	± 0.8	1.0
Radium 226	4020	417		±	0.6
Radium 228	4030	418		±	0.4
Total Uranium	4006			±	
Strontium 89	4172			±	
Strontium 90	4174			±	
Tritium	4102			±	
Cesium 134	4270			±	
Iodine 131	4264			±	
Other				±	



Small handwritten marks or scribbles in the top right corner.

Site #3

WATER SYSTEM ID# 04 - 6 7 - 0 4 1 TYPE OF WATER:
 SYSTEM NAME: HADNOT POINT () RAW (x) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONSLow (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (x) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/27/84	1440	BLDC 65	HUNEYCUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	1.2	± 0.8	1.0
GROSS BETA	4100	401	2.5	± 0.7	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85

DATE REPORTED 5-31-85

LAB SAMPLE # 85-3238-003

REPORTED BY Paul Bufford

REMARKS:

ANALYZING LAB I.D. 0/9 21700

T.C. (ENCLOSURE 2)

1950

1950



Site #7

WATER SYSTEM ID# 04 - 6 7 - 0 4 2 TYPE OF WATER:
 SYSTEM NAME: MCAS - NEW RIVER () RAW (X) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONSLow (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (X) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/28/84	1030	Bldg G-770	HONEYCUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	<1.0	± —	1.0
GROSS BETA	4100	401	14.4	± 3.1	1.0
* RADIUM 226	4020	417	<0.6	±	0.6
* RADIUM 228	4030	418	0.43	±	0.4
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85

DATE REPORTED 5-31-85

LAB SAMPLE # 85-3238-007

REPORTED BY Paul Brufford

REMARKS: * SEE GLI LTR 29 JUL 85

ANALYZING LAB I.D. 0/9 2 1 7 0 0

T.C. (ENCLOSURE 2)

10/15/11 10:00 AM 10/15/11 10:00 AM

10/15/11
10/15/11

10/15/11
10/15/11

10/15/11
10/15/11

RADIOLOGICAL ANALYSIS

GRAINGER LABORATORIES,
5500 Commercial Avenue
Raleigh, NC 27612
TEL. 919-787-3061

Site #1

WATER SYSTEM ID# 04 - 67 - 043 TYPE OF WATER:
 SYSTEM NAME: HOLCOMB BLVD () RAW (X) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONSLow (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (X) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

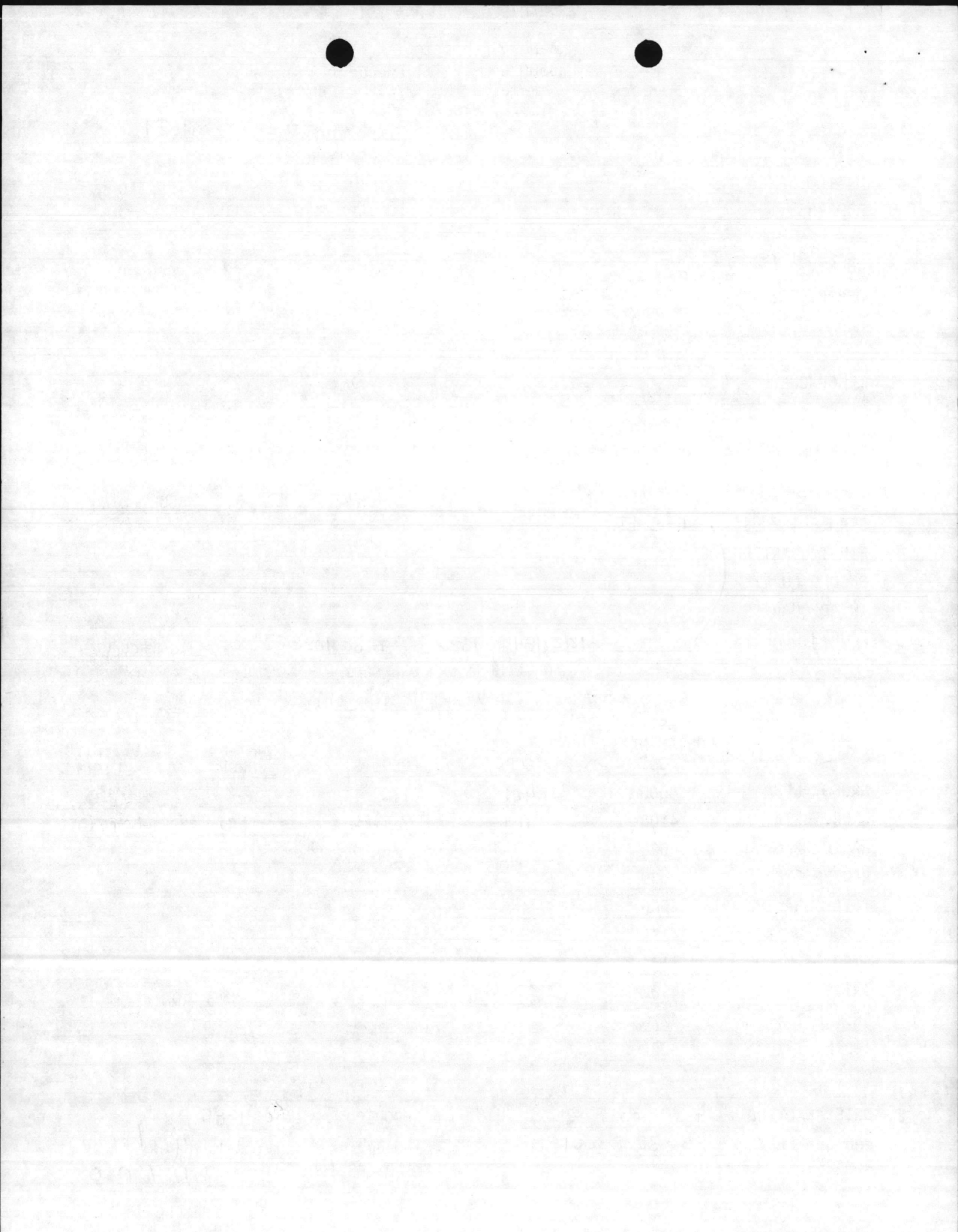
	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	<u>4-5-85</u>				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		<u>12/27/84</u>	<u>1326</u>	<u>BLDG 4022</u>	<u>HUNECUTT</u>

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	<u>4000</u>	<u>401</u>	<u>1.2</u>	<u>± 0.8</u>	<u>1.0</u>
GROSS BETA	<u>4100</u>	<u>401</u>	<u>3.0</u>	<u>± 1.0</u>	<u>1.0</u>
RADIUM 226	<u>4020</u>			<u>±</u>	
RADIUM 228	<u>4030</u>			<u>±</u>	
TOTAL URANIUM	<u>4006</u>			<u>±</u>	
STRONTIUM 89	<u>4172</u>			<u>±</u>	
STRONTIUM 90	<u>4174</u>			<u>±</u>	
TRITIUM	<u>4102</u>			<u>±</u>	
CESIUM 134	<u>4270</u>			<u>±</u>	
IODINE 131	<u>4264</u>			<u>±</u>	
OTHER				<u>±</u>	

DATE ANALYZED 4-30-85 DATE REPORTED 5-31-85
 LAB SAMPLE # 85-3238-001 REPORTED BY Paul Brufford
 REMARKS: ANALYZING LAB I.D. 0/9 21700
 T.C. (ENCLOSURE 2)



Site #2

WATER SYSTEM ID# 04 - 67 - 044 TYPE OF WATER:
 SYSTEM NAME: TARAWA TERRACE () RAW (X) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONslow (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (X) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/27/84	1352	Bldg TT-44	HONEYCUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	< 1.0	± -	1.0
GROSS BETA	4100	401	3.6	± 1.2	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85 DATE REPORTED 5-31-85
 LAB SAMPLE # 85-3238-002 REPORTED BY Paul Brefford
 REMARKS: ANALYZING LAB I.D. 0/9 21700

T.C. (ENCLOSURE 2)



12/21/04 1904
 Date II-41
 HIRSCHE



8

10-1-04

Site #8

WATER SYSTEM ID# 04 - 67 - 045 TYPE OF WATER:
 SYSTEM NAME: CAMP JOHNSON () RAW (X) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONslow (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (X) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/27/84	1409	Bldg M-231	HUNEYCUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	<1.0	± -	1.0
GROSS BETA	4100	401	<1.0	± -	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85

DATE REPORTED 5-31-85

LAB SAMPLE # 85-3238-008

REPORTED BY Paul Brufford

REMARKS:

ANALYZING LAB I.D. 0/9 21700

T.C. (ENCLOSURE 2)

1901

1902

1903

1904



Site #6

WATER SYSTEM ID# 04-67-046 TYPE OF WATER:
 SYSTEM NAME: RIFLE RANGE () RAW (X) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONSLow (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (X) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/28/84	0950	BLDG RR-10.	HUNECUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	<1.0	± -	1.0
GROSS BETA	4100	401	2.9	± 1.7	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85 DATE REPORTED 5-31-85
 LAB SAMPLE # 85-3238-006 REPORTED BY Paul Brifford
 REMARKS: ANALYZING LAB I.D. 0/9 21700
 T.C. (ENCLOSURE 2)

15/20/04 0103 6000 KK-10 1000000

Site #5

WATER SYSTEM ID# 04 - 67 - 047 TYPE OF WATER:
 SYSTEM NAME: COURTHOUSE BAY () RAW (X) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ONCLOW (X) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (X) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/28/84	0925	BLDG BB-7	HONEYCUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	<1.0	± -	1.0
GROSS BETA	4100	401	1.6	± 0.9	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85

DATE REPORTED 5-31-85

LAB SAMPLE # 85-3238-005

REPORTED BY Paul Brufford

REMARKS:

ANALYZING LAB I.D. 0/9 21700

T.C. (ENCLOSURE 2)



Handwritten text, possibly a signature or name, located in the middle of the page.

Site #4

WATER SYSTEM ID# 04 - 6 7 - 0 4 8 TYPE OF WATER:
 SYSTEM NAME: ON SLOW BEACH () RAW (x) TREATED
 ADDRESS: MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542 SOURCE OF WATER:
 COUNTY: ON SLOW (x) GROUND () SURFACE
 REPORT TO: COMMANDING GENERAL
 ADDRESS: ATTN: NREA, MARINE CORPS BASE
CAMP LEJEUNE, NC ZIP 28542
 TELEPHONE: ()

SAMPLE INFORMATION

TYPE OF SAMPLE: (x) D-REGULAR () C-CHECK () S-SPECIAL () E-COMPOSITE

	DATE RECEIVED	DATE SAMPLE	TIME	SAMPLE LOCATION	COLLECTED BY
SINGLE SAMPLE	4-5-85				
FIRST QUARTER					
SECOND QUARTER					
THIRD QUARTER					
FOURTH QUARTER		12/28/84	0910	BLDG SBA-107	HUNEYCUTT

FOR LABORATORY USE ONLY

ANALYTICAL VALUES (pCi/liter)

	MSIS CONTAMINANT CODE	MSIS METHOD CODE	RESULTS	COUNTING ERROR	DETECTION LIMITS
GROSS ALPHA	4000	401	<1.0	± -	1.0
GROSS BETA	4100	401	1.2	± 0.8	1.0
RADIUM 226	4020			±	
RADIUM 228	4030			±	
TOTAL URANIUM	4006			±	
STRONTIUM 89	4172			±	
STRONTIUM 90	4174			±	
TRITIUM	4102			±	
CESIUM 134	4270			±	
IODINE 131	4264			±	
OTHER				±	

DATE ANALYZED 4-30-85

DATE REPORTED 5-31-85

LAB SAMPLE # 85-3238-004

REPORTED BY Paul Bufford

REMARKS:

ANALYZING LAB I.D. 0/9 21700

T.C. (ENCLOSURE 2)



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RADIONUCLIDE SAMPLING

4TH QUARTER

<u>SAMPLE #</u>	<u>BLDG #</u>	<u>SYSTEM</u>	<u>DATE</u>	<u>TIME</u>	<u>COLLECTOR(S)</u>
25A+B SITE 1	4022 (FIRE STATION)	HB	12/27/84	1326	H:B
26A+B SITE 2	TT-44 (COMMUNITY BLDG)	TT	12/27/84	1352	H:B
27A+B SITE 3	65 (SEWAGE LAB)	HP	12/27/84 ###	1440	H+B
28A+B SITE 4	SBA-107 Sewage Plant CAMP SITE (BESIDE BA 197 THM SITE)	OB	12/28/84 12/29/84	0910 1:50	Humercutt Sarbec
29A+B SITE 5	BB-7 (MESS HALL)	CHB	12/28/84	0925	H:B
30A+B SITE 6	RR-10 (EXCHANGE)	RR	12/28/84	0950	H:B
31A+B SITE 7	G-770 (DISPENSARY)	MCA5	12/28/84	1030	H+B
32A+B SITE 8	M-231 (BOQ)	CJ	12/27/84	1409	H:B

W. H. 1914

W. H. 1915

W. H. 1916

W. H. 1917

W. H. 1918

W. H. 1919

W. H. 1920

W. H. 1921

PCUD
26 June



Grainger Laboratories Incorporated

DATE 6/18/85
GLI# 0853238

Analytical and Consulting Chemists
PAGE 1

Quality Control Lab, USMCB
Att: Elizabeth Betz, Supvsr
NREAD, Building 1103
Camp Lejeune, NC 28542

SUBJECT: ANALYSIS OF SAMPLES RECEIVED 4/05/85.

REFERENCE: PO NUMBER M67001-84-M-5159

RESULTS

SAMPLE NUMBER: 0853238-001
IDENTIFIER: SITE #1

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	1.2	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	3.0	1.0	MSIS MC 401

SAMPLE NUMBER: 0853238-002
IDENTIFIER: SITE #2

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	3.6	1.0	MSIS MC 401

SAMPLE NUMBER: 0853238-003
IDENTIFIER: SITE #3

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	1.2	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	2.5	1.0	MSIS MC 401

QUALITY CONTROL
DATE: 10/10/50
TIME: 10:00 AM

IDENTIFICATION NO. 100-100000
SAMPLE NO. 100-100000

ANALYST: J. H. ...

DATE: 10/10/50

PARAMETER	UNIT	MEASUREMENT	LIMIT
TOTAL ALPHA RADIATION	CPM	1.0	1.0
TOTAL BETA RADIATION	CPM	1.0	1.0

SAMPLE NUMBER: 100-100000

PARAMETER	UNIT	MEASUREMENT	LIMIT
TOTAL ALPHA RADIATION	CPM	1.0	1.0
TOTAL BETA RADIATION	CPM	1.0	1.0

SAMPLE NUMBER: 100-100000

PARAMETER	UNIT	MEASUREMENT	LIMIT
TOTAL ALPHA RADIATION	CPM	1.0	1.0
TOTAL BETA RADIATION	CPM	1.0	1.0

IDENTIFICATION NO. 100-100000

DATE: 10/10/50

ANALYST: J. H. ...



Grainger Laboratories Incorporated

DATE 6/18/85
GLI# 0853238

Analytical and Consulting Chemists
PAGE 2

SAMPLE NUMBER: 0853238-004
IDENTIFIER: SITE #4

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	1.2	1.0	MSIS MC 401

SAMPLE NUMBER: 0853238-005
IDENTIFIER: SITE #5

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	1.6	1.0	MSIS MC 401

SAMPLE NUMBER: 0853238-006
IDENTIFIER: SITE #6

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	2.9	1.0	MSIS MC 401

SAMPLE NUMBER: 0853238-007
IDENTIFIER: SITE #7

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	14.4	1.0	MSIS MC 401

SAMPLE NUMBER: 0853238-008
IDENTIFIER: SITE #8

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	MSIS MC 401
TOTAL BETA RADIATION	pCi/L	BDL	1.0	MSIS MC 401

BDL: Below detection limit

DATE: 10/15/77
SITE: 000000

SAMPLE NUMBER: 00000000
IDENTIFIER: SITE #

PARAMETER: TOTAL ALPHA RADIATION
TOTAL BETA RADIATION

SAMPLE NUMBER: 00000000
IDENTIFIER: SITE #

PARAMETER: TOTAL ALPHA RADIATION
TOTAL BETA RADIATION

SAMPLE NUMBER: 00000000
IDENTIFIER: SITE #

PARAMETER: TOTAL ALPHA RADIATION
TOTAL BETA RADIATION

SAMPLE NUMBER: 00000000
IDENTIFIER: SITE #

PARAMETER: TOTAL ALPHA RADIATION
TOTAL BETA RADIATION

SAMPLE NUMBER: 00000000
IDENTIFIER: SITE #

PARAMETER: TOTAL ALPHA RADIATION
TOTAL BETA RADIATION

NOTE: Below detection limit



Grainger Laboratories Incorporated

DATE 6/18/85
GLI# 0853238

Analytical and Consulting Chemists

APPROVED BY

Robert W. Harris (wrb)
LABORATORY SUPERVISOR

w. Paul Bedford
GENERAL LABORATORY MANAGER

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR CUSTOMER SERVICE DEPARTMENT AT 787-3061.

DATE 12/15/88
PAGE 00000001

APPROVED BY
LABORATORY SUPERVISOR

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR CUSTOMER SERVICE
DEPARTMENT AT 1-800-234-2345

FORM NO. 100-100

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100-100



Grainger Laboratories Incorporated

Analytical and Consulting Chemists

July 29, 1985
GLI #0853238

Quality Control Lab, USMCB
Attention: Elizabeth Betz, Supervisor
NREAD, Building 1103
Camp Lejeune, NC 28542

Subject: Analysis of Samples Received 04/05/85

Sample Identification: PO Number M67001-84-M-5159

0853238-007
Site #7

RESULTS

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECT LIMIT</u>	<u>METHOD</u>
Radium 226, pCi/Liter	< 0.6	0.6	MSIS MC 417
Radium 228, pCi/Liter	0.43	0.4	MSIS MC 418

W. Paul Brafford
General Laboratory Manager

WPB/km

1/18/88
10-23-88

Quality Control Dept.
Attention: Mr. Robert L. X, Supervisor
W. E. B. Building 1103
Comp. Science, Inc. 200-2

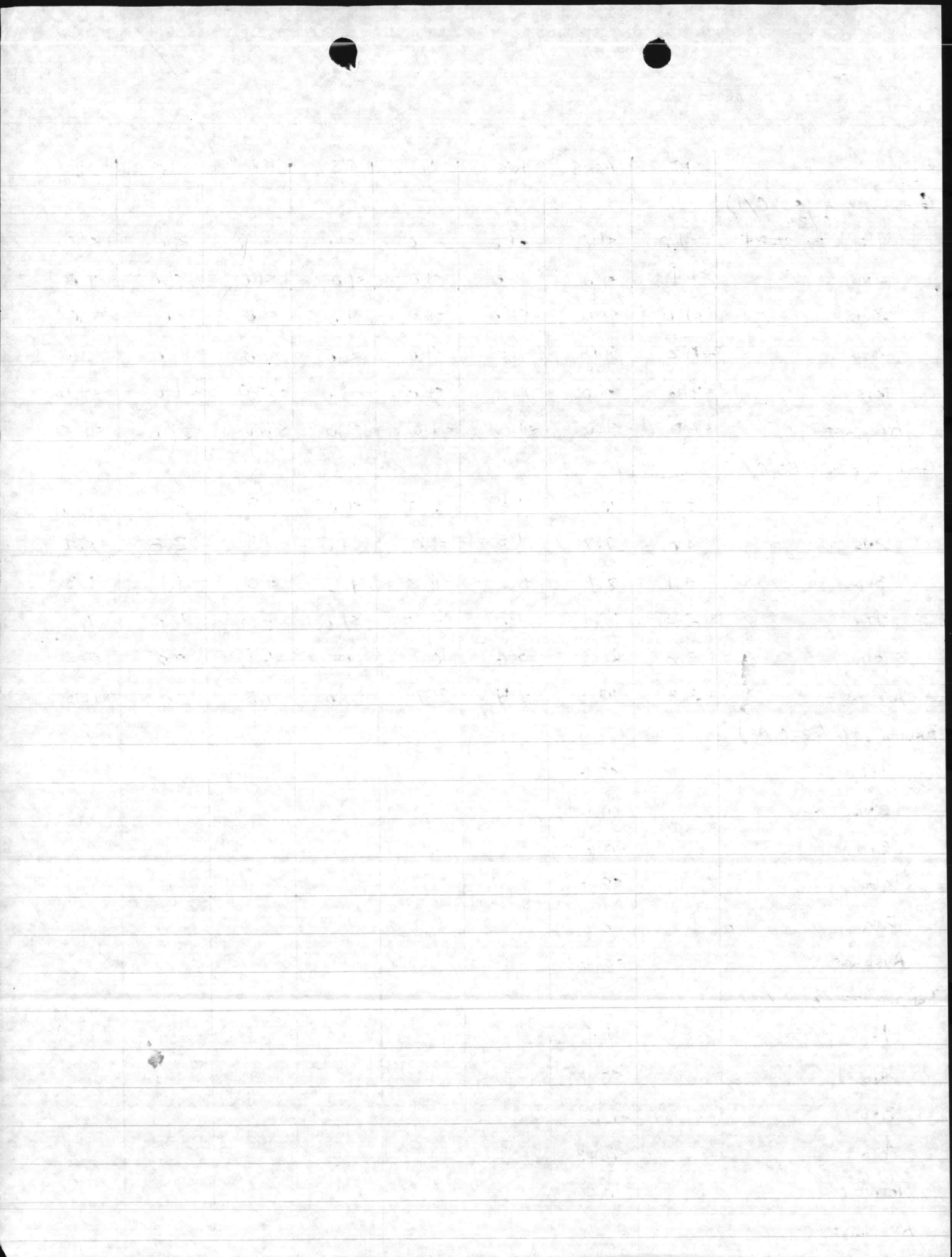
Subject: Analysis of samples received 1/10/88

Sample ID: 1003-01

RESULTS

PARAMETER	RESULT	DETECT	LIMIT	METHOD
Radium 226, pCi/liter	> 0.76	0.5	0.5	212S MC 418
Radium 228, pCi/liter	0.43	0.43	0.43	212S MC 418

W. Paul Bradford
General Labor for the Dept.



RADIONUCLIDE SAMPLING

3RD QUARTER

<u>SAMPLE #</u>	<u>BLDG #</u>	<u>SYSTEM</u>	<u>DATE</u>	<u>TIME</u>	<u>COLLECTOR(S)</u>
17 A+B	4022 (FIRE STATION)	HB	9/21/84	0857	H: B
18 A+B	TT-44 (COMMUNITY BLDG)	TT	9/21/84	0905	H: B
19 A+B	6 (SEWAGE LAB)	HP	9/21/84	0830	H: B
20 A+B	CAMP SITE (BESIDE BA 147 THM SITE)	OB	9/21/84	1343	H: B
21 A+B	BB-7 (MESS HALL)	CHB	9/21/84	1312	H: B
22 A+B	RR-10 (EXCHANGE)	RR	9/21/84	1135	H: B
23 A+B	G-770 (DISPENSARY)	MCAS	9/21/84	0945	H: B
24 A+B	M-231 (BOQ)	CJ	9/21/84	0924	H: B

11/10/1911

11/10/1911

11/10/1911

11/10/1911

11/10/1911

11/10/1911

11/10/1911

11/10/1911



Grainger Laboratories Incorporated

Analytical and Consulting Chemists

DATE 12/19/84
GLI# 0851190

PAGE 1

Quality Control Lab, USMCB
Att: Elizabeth Betz, Supvr
NREAD, Building 1103
Camp Lejeune, NC 28542

SUBJECT: ANALYSIS OF SAMPLES RECEIVED 10/25/84.

REFERENCE: PO NUMBER M67001-84-M-5159

RESULTS

SAMPLE NUMBER: 0851190-001
IDENTIFIER: 17 A&B

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	SM703
TOTAL BETA RADIATION	pCi/L	3.6	1.0	SM703

SAMPLE NUMBER: 0851190-002
IDENTIFIER: 18 A&B

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	SM703
TOTAL BETA RADIATION	pCi/L	4.2	1.0	SM703

SAMPLE NUMBER: 0851190-003
IDENTIFIER: 19 A&B

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
TOTAL ALPHA RADIATION	pCi/L	BDL	1.0	SM703
TOTAL BETA RADIATION	pCi/L	4.1	1.0	SM703

BDL: BELOW DETECTION LIMIT

SP. NO. 100-1148

RECEIVED

LABORATORY

LABORATORY

RECEIVED

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RECEIVED



Grainger Laboratories Incorporated

Analytical and Consulting Chemists

DATE 12/19/84
GLI# 0851190

PAGE 2

APPROVED BY

Robert W. Harris

LABORATORY SUPERVISOR

James H. Hester

GENERAL LABORATORY MANAGER

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR CUSTOMER SERVICE REPRESENTATIVE, ANITA STUTTS.

General Laboratory Services
Address of Laboratory

10000
10000

10000

DATE RECEIVED
BY

DATE

APPROVED BY

LABORATORY SUPERVISOR

GENERAL LABORATORY SERVICES

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT OUR CUSTOMER SERVICE REPRESENTATIVE AT 1-800-555-1234

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**Grainger
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Incorporated**

Analytical and
Consulting Chemists

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

**Analytical
Laboratory**

Environment Analysis
Materials
Identification of Unknowns
Agricultural Products
Fuels
Textiles
Hazardous Waste
GC/MS
ICP Metals
Priority Pollutants

Consultation

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA

December 13, 1984
GLI #84-12021

Camp Lejeune
QC Lab NREAD, Bldg. 1103
Camp Lejeune, NC 28542

Attention: Elizabeth Betz

Subject: Analysis of Samples Received 9-28-84

Reference: Purchase Order # M67001-84-M-5159
Identification of Samples:

1. 20A and B
2. 21A and B
3. 22A and B
4. 23A and B
5. 24A and B

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Gross Alpha, pCi/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gross Beta, pCi/L	1.3	1.1	< 1.0	8.7	1.5
Radium 226, pCi/L	-	-	-	< 0.6	-
Radium 228, pCi/L	-	-	-	< 0.4	-

W. Paul Brafford
W. Paul Brafford
General Laboratory Manager

WPF/km



Lab. No. 17-1024
611-8A-12021

Lab. No. 17-1024
611-8A-12021

Attention: Estimating Dept.

Substr.: Analysis of Sample Received 2-2-49

Reference: Bureau of Cotton Research
Lab. No. 17-1024

20A and B
19 and 20
18 and 19

Merino Bond

52% COTTON FIBER 2 1/2

Gross Alpha, pct	< 1.0	< 1.0	< 1.0	< 1.0
Gross Beta, pct	1.3	1.1	1.0	1.1
Polym 226, pct	-	-	-	-
Radio 229, pct	-	-	-	-

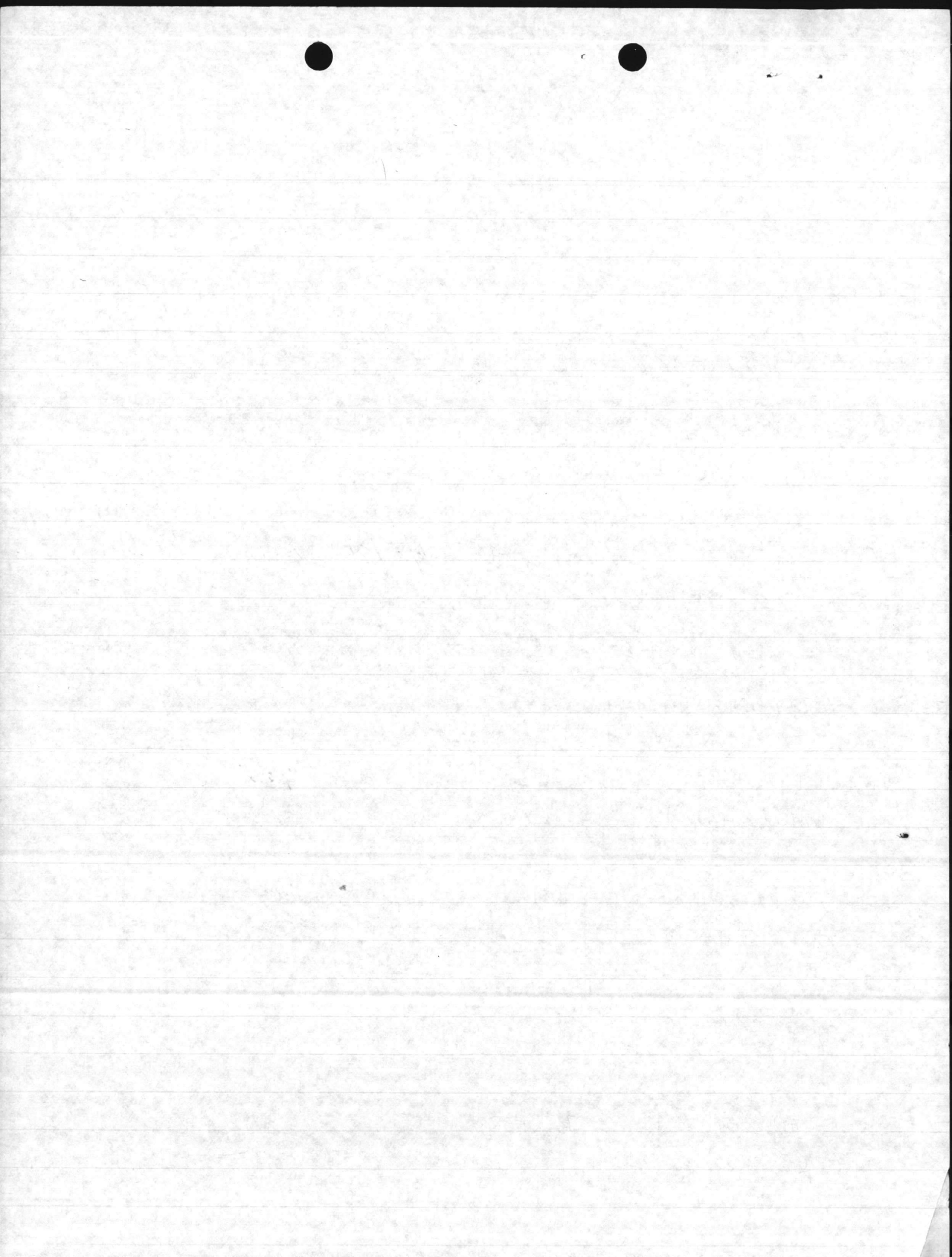
Lab. No. 17-1024
611-8A-12021

197 100

RADIONUCLIDE SAMPLING

2ND QUARTER

<u>SAMPLE #</u>	<u>BLDG #</u>	<u>SYSTEM</u>	<u>DATE</u>	<u>TIME</u>	<u>COLLECTOR</u>
9 A+B	4022 (MIDWAY PARK FIRE STATION)	HOLCOMB BLVD	6/27/84	0900	Huneycutt Barber
10 A+B	TT-44 (COMMUNITY BLDG)	TARAWA TERRACE	6/27/84	0922	
11 A+B	65 (SEWAGE LAB)	HADNOT POINT	6/27/84	1500	
12 A+B	CAMP SITE (BESIDE BA 197 THM SITE)	ON SLOW BEACH	6/27/84	1418	
13 A+B	BB-7 (MESS HALL)	COURTHOUSE BAY	6/27/84	1405	
14 A+B	RR-10 (EXCHANGE)	RIFLE RANGE	6/27/84	1340	
15 A+B	G-770 (DISPENSARY)	MCAS	6/27/84	1220	
16 A+B	M-231 (BOQ)	CAMP JOHNSON	6/27/84	0940	



25% COTTON FIBER



September 13, 1984
84-11360

**Grainger
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Incorporated**

Analytical and
Consulting Chemists

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 7-6-84

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

Sample Identification: Purchase Order M67001-84-M-5159

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

1. Sample #9A & 9B
2. Sample #10A & 10B
3. Sample #11A & 11B
4. Sample #12A & 12B
5. Sample #13A & 13B
6. Sample #14A & 14B
7. Sample #15A & 15B
8. Sample #16A & 16B

**Analytical
Laboratory**

Environment Analysis
Materials
Identification of Unknowns
Agricultural Products
Fuels
Textiles
Hazardous Waste
GC/MS
ICP Metals
Priority Pollutants

Consultation

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA

RESULTS

See results on attached page.

W. Paul Brafford

W. Paul Brafford
Laboratory Manager

WPB:sb



25% COTTON FIBER

September 12, 1984
24-11300

Quality Control Dept., WPTX
Facilities, MCP
Camp Lejeune, NC 28542

Attn: John, Esq., El Paso 97th

Subject: Analysis of sample # 10-11-84

Analysis of the specimen: Purchase Order # 1001-11-84

- 1. Sample # 10-11-84
- 2. Sample # 10-11-84
- 3. Sample # 10-11-84
- 4. Sample # 10-11-84
- 5. Sample # 10-11-84
- 6. Sample # 10-11-84
- 7. Sample # 10-11-84
- 8. Sample # 10-11-84

RESIN IS

See results on attached page.

M. Paul Preston
Laboratory Manager

WPTX

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
Gross Alpha, pCi/l	<1.0	<1.0	<1.4	<1.0	<1.0	<1.0	<1.0	<1.0
Gross Beta, pCi/l	1.5	<1.0	4.0	2.7	2.8	1.4	7.7	<1.0
Radium 226, pCi/l	-	-	-	-	-	-	<0.6	-
Radium 228, pCi/l	-	-	-	-	-	-	<0.4	-

Neenah Bond

25% COTTON FIBER 57 1/2

RADIONUCLIDE SYSTEM

1st QUARTER

<u>SAMPLE #</u>	<u>BLDG #</u>	<u>SYSTEM</u>	<u>DATE</u>	<u>TIME</u>	<u>COLLECTOR</u>
1A+B	4022 (M.P FIRE STATION)	HOLCOMB BLVD	3/27/84	1136	Honeycutt
2A+B	TT-44 (COMMUNITY BLDG)	TARAWA TERRACE	3/27/84	1125	Honeycutt
3A+B	65 (Q.C. LABS)	HADNOT POINT	3/30/84	0915	EO Betz
4A+B	Camp site BA-115 ^{near BA197 (TTHB site)} (OFFICER'S PAVILION) Secured	ONSLow BEACH	3/30/84	1315	Honeycutt
5A+B	BB-7 (MESS HALL)	COURTHOUSE TAY	3/30/84	1340	Honeycutt
6A+B	RR-10 (EXCHANGE)	RIFLE RANGE	3/30/84 1400	1400	Honeycutt
7A+B	G-770 (DISPENSARY)	MATING MCAS CAMP GEIGER	3/27/84	1047	Honeycutt
8A+B	M-231 (BOQ)	CAMP JOHNSON	3/27/84	1110	Honeycutt



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RADIONUCLIDE SAMPLING
INFORMATION

1st Quarter

Send To: Grainger Laboratories
5500 Commercial Avenue
Raleigh, NC 27612

<u>Sample #</u>	<u>System</u>	<u>Time</u>	<u>Date</u>
1 A&B	HB	1136	27 Mar 84
2 A&B	TT	1125	27 Mar 84
3 A&B	HP	0915	30 Mar 84

Purchase Order: M67001-84-M-5159

Point of Contact: Elizabeth A. Betz
Water Quality Control Lab
NREAD, Facilities, MCB
Camp Lejeune, NC 28542
(919) 451-5977

RADIONUCLIDE SAMPLING
INFORMATION

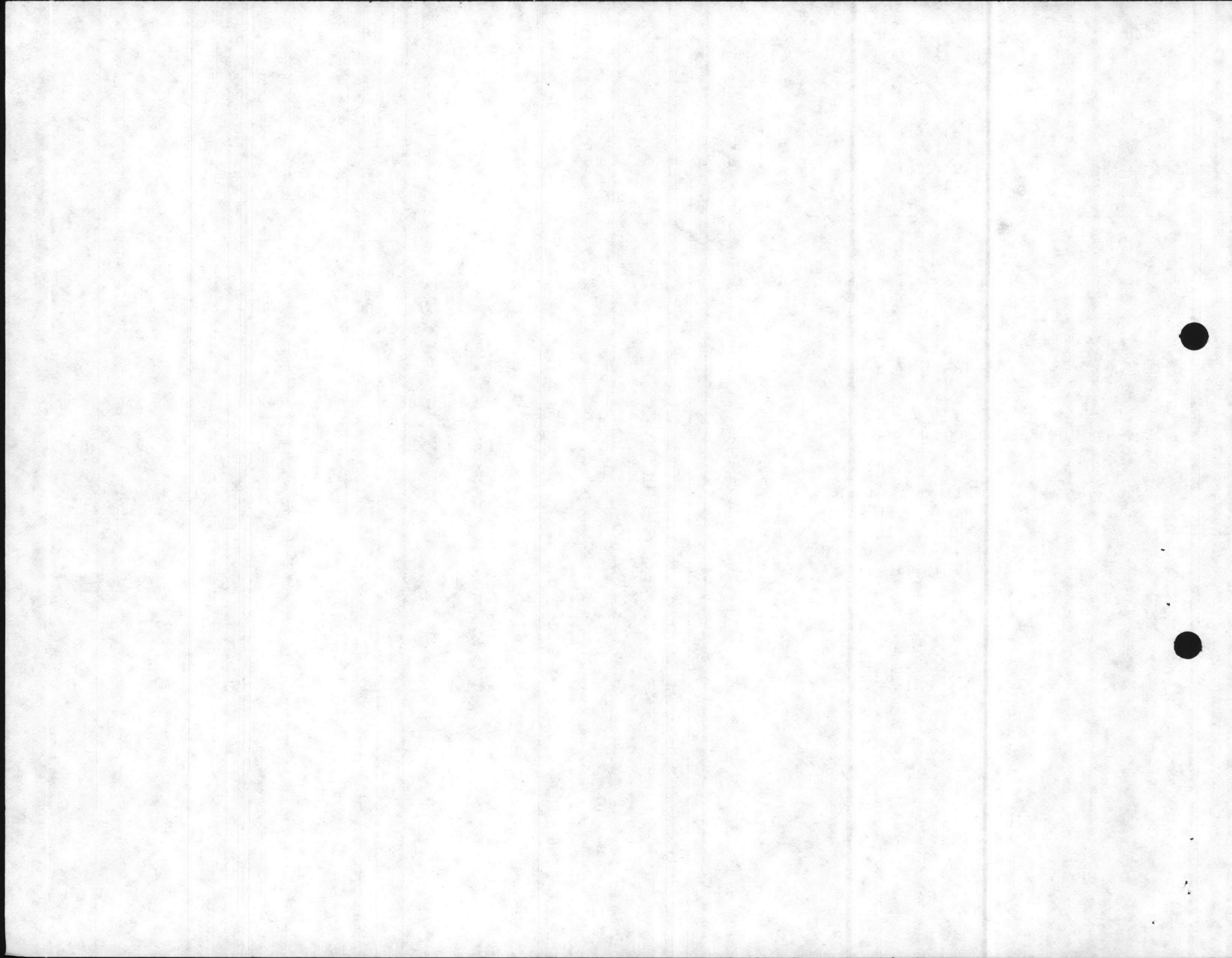
1st Quarter

Send To: Grainger Laboratories
5500 Commercial Avenue
Raleigh, NC 27612

<u>Sample #</u>	<u>System</u>	<u>Time</u>	<u>Date</u>
4 A&B	OB		30 Mar 84
5 A&B	CHB		30 Mar 84
6 A&B	RR		30 Mar 84

Purchase Order: M67001-84-M-5159

Point of Contact: Elizabeth A. Betz
Water Quality Control Lab
NREAD, Facilities, MCB
Camp Lejeune, NC 28542
(919) 451-5977



RADIONUCLIDE SAMPLING
INFORMATION

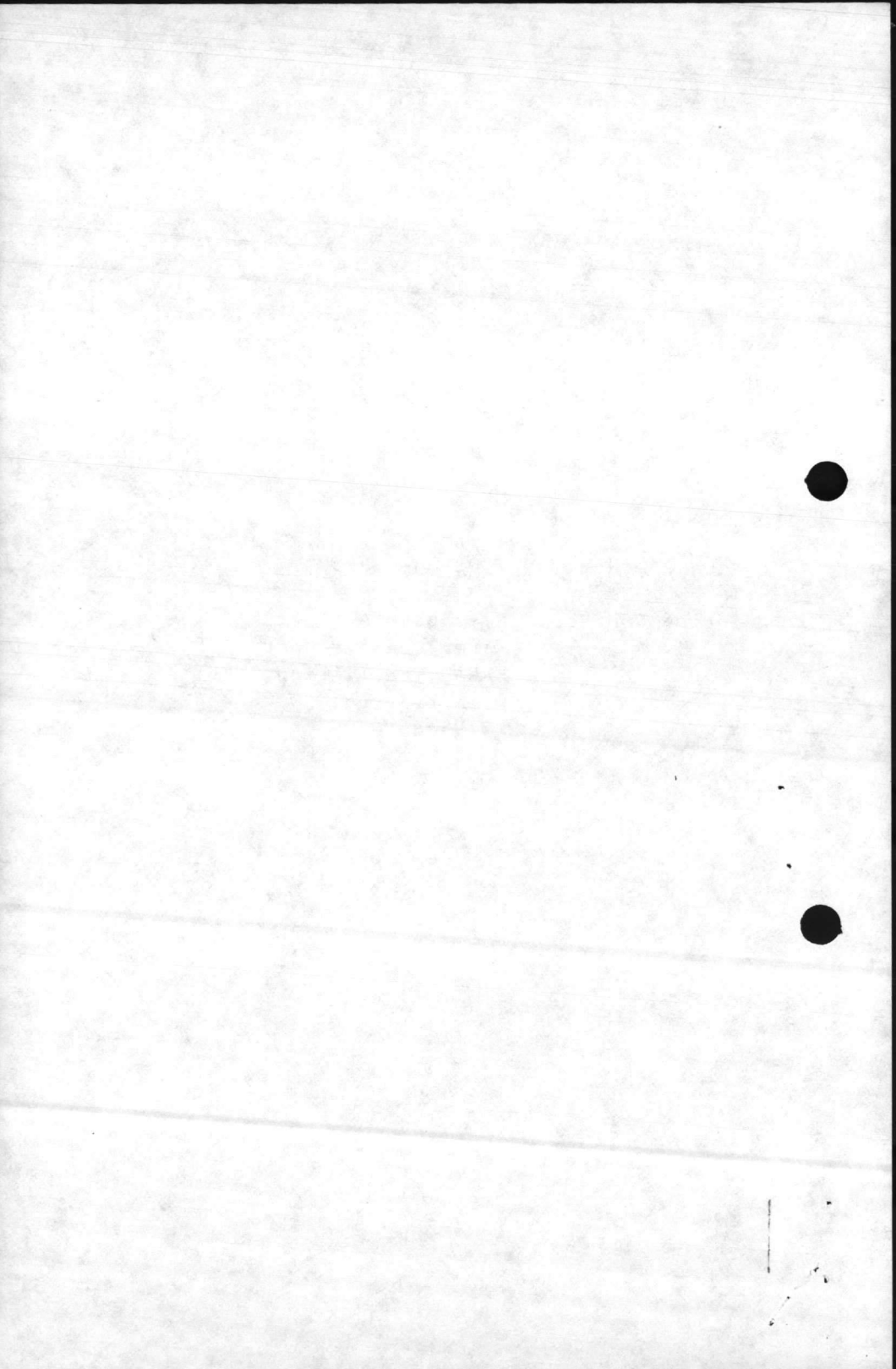
1st Quarter

Send To: Grainger Laboratories
5500 Commercial Avenue
Raleigh, NC 27612

<u>Sample #</u>	<u>System</u>	<u>Time</u>	<u>Date</u>
7 A&B	MCAS	1047	27 Mar 84
8 A&B	CJ	1110	27 Mar 84

Purchase Order: M67001-84-M-5159

Point of Contact: Elizabeth A. Betz
Water Quality Control Lab
NREAD, Facilities, MCB
Camp Lejeune, NC 28542
(919) 451-5977





May 22, 1984
84-10509

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Elizabeth A. Betz

Subject: Analyses of Samples Received 4-9-84

Sample Identification: Purchase Order No. M67001-84-M-5159

1. #1A + B, System HB, Time 11:36, Date 3-27-84
2. #2A + B, System TT, Time 11:25, Date 3-27-84
3. #3A + B, System HP, Time 09:15, Date 3-30-84

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>Detection Limit</u>
Gross Alpha, pCi/liter	<1.0	<1.0	<1.0	1.0
Gross Beta, pCi/liter	1.5 ± 1.0	2.9 ± 2.5	2.7 ± 2.3	1.0

**Analytical
Laboratory**

Environment Analysis
Materials
Identification of Unknowns
Agricultural Products
Fuels
Textiles
Hazardous Waste
GC/MS
ICP Metals
Priority Pollutants

Consultation

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA

W. Paul Brafford

W. Paul Brafford
General Laboratory Manager

WPB:pph

Customer #92400



EX-28, 1984
84-1082

Quality Control Lab, WREAR
Facilities, WTC
Camp, Lawrence, MO 64502

Attention: Elizabeth A. Ditt

Subject: Lot of 2 samples received 4-2-84

Sample Identification: Purchase Order No. 84-01-0152

1. 51A - 1. System No. 116, Date 3-17-84
2. 51A - 2. System No. 116, Date 3-17-84
3. 51A - 3. System No. 116, Date 3-17-84

Normal Bond

RESULTS
22% COTTON FIBER

Reference
Limit

Gross Fiber, % Cotton >1.0
Gross Fiber, % Cotton >1.0

Lab. No. 84-1082
Lab. No. 84-1082

Lab. No.

Customer #23400



May 22, 1984
84-10508

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

Water Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Elizabeth Betz

Subject: Analyses of Samples Received 4-9-84

Sample Identification: Purchase Order No. M67001-84-M-5159

1. #4A + B, System OB, Time 13:15, Date 3-30-84
2. #5A + B, System CHB, Time 13:40, Date 3-30-84
3. #6A + B, System RR, Time 14:00, Date 3-30-84

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>Detection Limit</u>
Gross Alpha, pCi/liter	<1.0	<1.0	<1.0	1.0
Gross Beta, pCi/liter	<1.0	2.3 ± 2.0	1.8 ± 1.5	1.0

**Analytical
Laboratory**

Environment Analysis
Materials
Identification of Unknowns
Agricultural Products
Fuels
Textiles
Hazardous Waste
GC/MS
ICP Metals
Priority Pollutants

Consultation

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA

W. Paul Brafford

W. Paul Brafford
General Laboratory Manager

WPB:pph

Customer #92400



W. Paul Brafford
25% COTTON FIBER

May 22, 1984
04-10873

Water Quality Control Lab. WREAO
Fayetteville, NC
Camp Lejeune, NC 28543

Attention: Fitz John Beck

Subject: Analysis of samples received 4-9-84
Sample identification: purchase order # 16-001-04-1-870

1. 4A + B, System CR, Time 10:17, Date 3-30-84
2. 4BA + B, System CRD, Time 10:40, Date 3-30-84
3. 4BA + B, System RR, Time 14:00, Date 3-30-84

RESULTS

Parameter	1	2	3	Detection Limit
Gross Alpha, pCi/liter	<1.0	<1.0	<1.0	1.0
Gross Beta, pCi/liter	<1.0	1.3 ± 0.2	1.8 ± 0.3	1.0

M. Paul Barford
General Laboratory Manager

Customer # 402 00
Nestlé Bond

55% COTTON FIBER 2 1/2



July 10, 1984
84-10510

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

Water Quality Control Lab,
NREAD, Facilities, MCB
Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 4/9/84

Sample Identification: Purchase Order No. M67001-84-M-5159

1. Sample #7A & B
2. Sample #8A & B

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

RESULTS

	<u>1</u>	<u>2</u>
Gross Alpha, pCi/liter	<1.0	<1.0
Gross Beta, pCi/liter	10.4	<1.0
Radium 226, pCi/liter	<0.6	-
Radium 228, pCi/liter	1.4	-

**Analytical
Laboratory**

Environment Analysis
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Textiles
Hazardous Waste
GC/MS
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Pollution Abatement
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SDWA
NPDES
USDA
USEPA

w. Paul Brafford

W. Paul Brafford
General Laboratory Manager

WPB:ss

Customer #92400



MAIN/EAB/mac
6280/7

4 May 1981

Mr. John Nantz
Water Supply Branch
Division of Health Services
North Carolina Department of Human Resources
Post Office Box 2092
Raleigh, North Carolina 27602

Dear Mr. Nantz:

Enclosed are copies of the results of the Radionuclide and Inorganic Chemical Analysis on the eight water treatment plant systems aboard Camp Lejeune Marine Corps Base. The Radionuclide sampling was conducted by the Water Quality Control Laboratory, Natural Resources and Environmental Affairs Division, Base Maintenance Department, from September 1979 through June 1980.

The samples were collected once every three months for a year, as required by the Safe Drinking Water Act. At the end of the sampling year the samples were sent to the Laboratory at the U. S. Army Environmental Hygiene Agency, Aberdeen Proving Ground, Maryland, for composite and analysis, as had been arranged by the Atlantic Division of the Naval Facilities Engineering Command, Norfolk, Virginia.

The Inorganic Chemical Analysis, for all parameters required by the Safe Drinking Water Act, except nitrates, was conducted in August 1979 by Jennings Laboratories, Incorporated, of Virginia Beach, Virginia. The nitrate analysis was conducted by the Water Quality Control Laboratory, Base Maintenance Department, Camp Lejeune, North Carolina, in September 1979.

Below is a table relating the sample identification number, for the radionuclide and inorganic chemical results, to the name of the water treatment plant serving each system.

<u>Sample Identification Number</u>	<u>Water Treatment Plant</u>
1	Holcomb Boulevard
2	Tarawa Terrace
3	Hadnot Point
4	Onslow Beach
5	Courthouse Bay
6	Rifle Range
7	New River
8	Montford Point

1000

1000

1000

1000

1000

MAIN/EAB/mac
6280/7

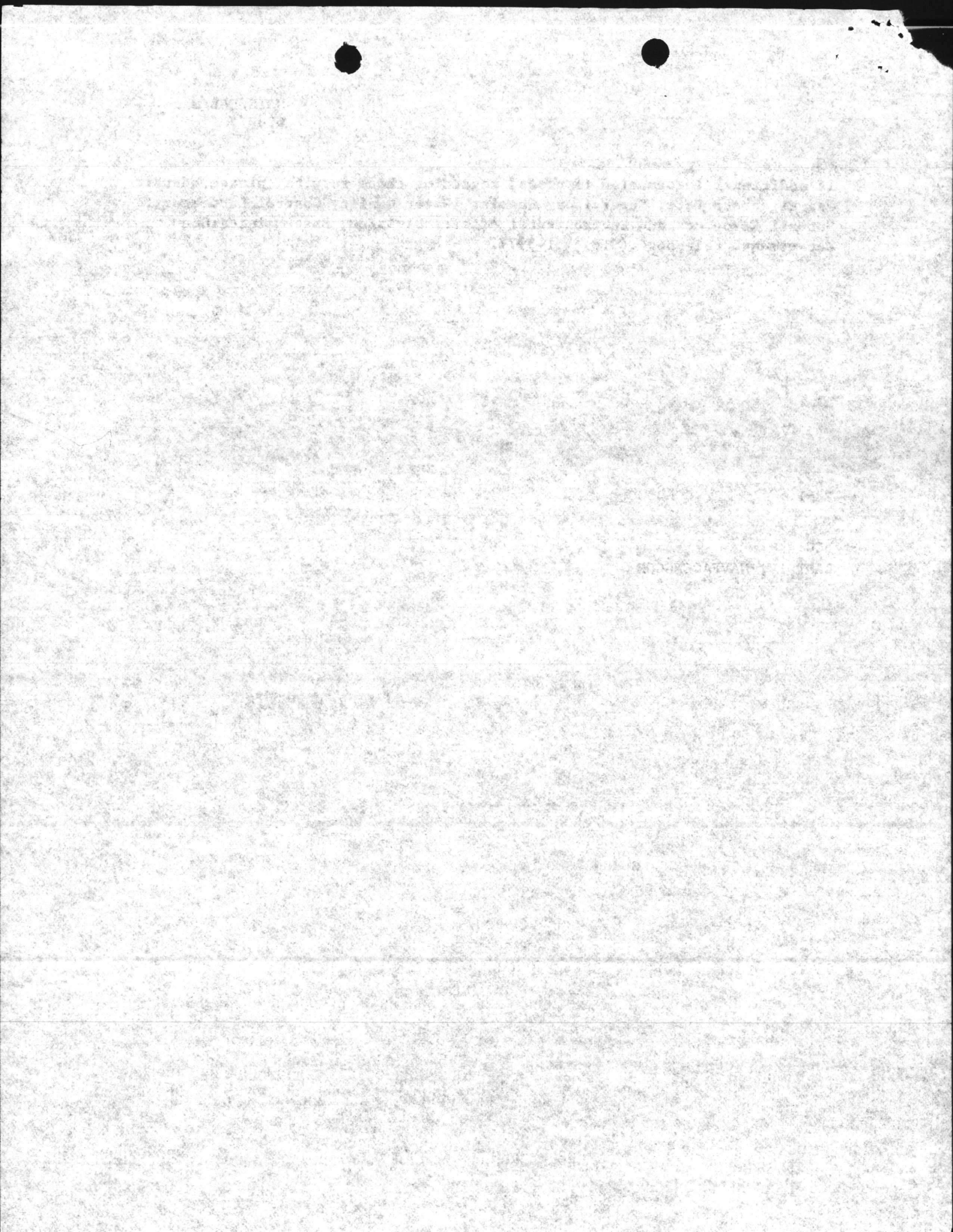
If additional information is needed regarding these results, please contact Ms. Elizabeth Betz, Supervisory Chemist, Water Quality Control Laboratory, Natural Resources and Environmental Affairs Division, Base Maintenance Department, telephone (919) 451-5977.

Sincerely,

Encl

BCC:

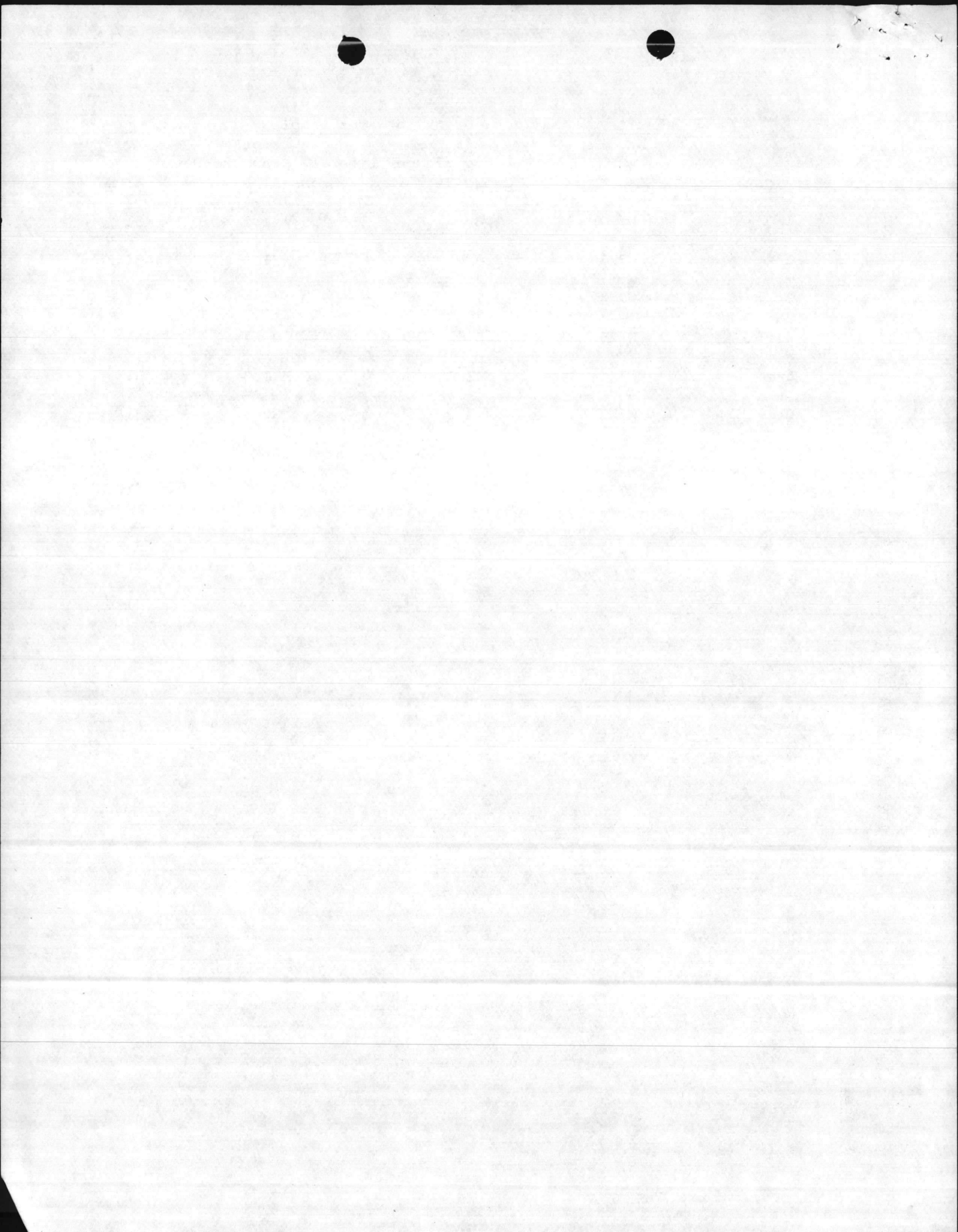
LANTDIV, NAVFACENGCOM



Results of Analyzing Drinking Water Samples

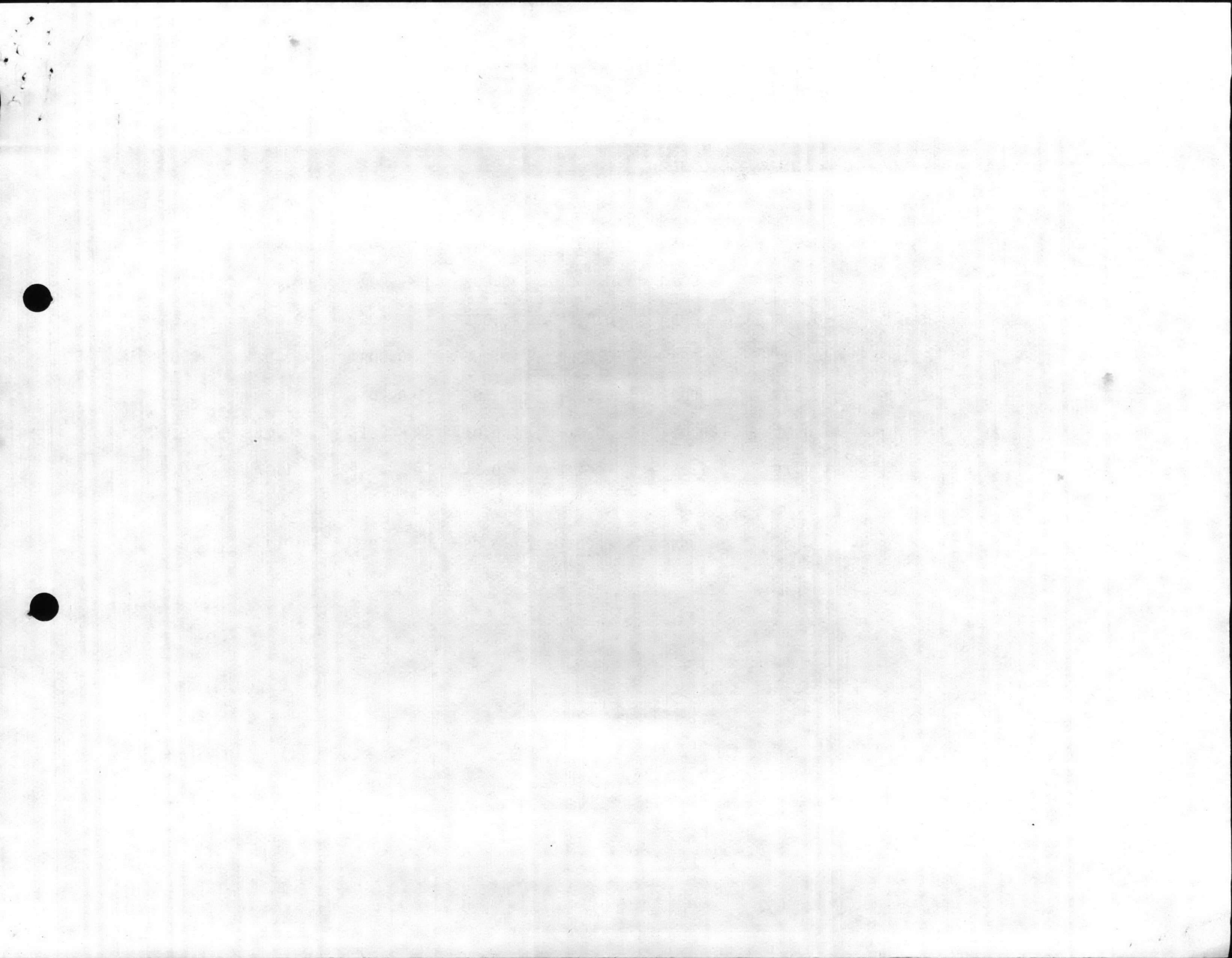
<u>Sample Identification</u>	<u>RCB Lab No.</u>	<u>Picocurie per Liter ±2 Standard Deviations</u>		
		<u>Gross Beta</u>	<u>Gross Alpha</u>	<u>Tritium</u>
1	W722	1.8 ± 1.0	1.5 ± 1.1	< 451
2	W723	3.3 ± 1.0	1.3 ± 1.0	< 451
3	W724	2.7 ± 0.9	3.0 ± 1.2	< 451
4	W725	1.9 ± 0.9	< 1.3	< 451
5	W726	< 1.3	1.6 ± 1.3	< 451
6	W727	< 1.3	< 1.3	< 451
7	W728	6.0 ± 1.3	< 1.6	< 451
8	W729	< 1.6	< 1.6	< 451

200



Inorganic Chemical Analysis Results

<u>Parameter</u>	<u>Unit</u>	<u>Sample Identification</u>							
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
Arsenic	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Barium	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Lead	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	1.05	0.71	1.01	0.42	0.34	0.34	1.07	0.47
Nitrate	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.05



ODS

DEPARTMENT OF THE NAVY

Memorandum

DATE: 20 October 1980

FROM: Ms. Betz, Chemist

TO: Mr. Sharpe, Ecologist

SUBJ: Letter from U. S. Army Environmental Hygiene Agency

of 29 Sept 1980

Encl: Letter from U.S. Army Environmental Hygiene Agency

of 29 Sept 1980

1. The letter encloses the results of the Radionuclide Analysis of our eight potable water systems.

2. The analysis was arranged through Lant Div (Contact Point-Wallace Carter). We collected the samples, one sample from each system for each quarter for a year. The samples were collected as follows:

Sample	System	Bldg	Location	Dates
1	Holcomb Blvd.	4022	Midway Park Fire Station	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
2	Tarawa Terr.	TT-44	Community Bldg.	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
3	Hadnot Point	65	Quality Control Lab.	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
4	Onslow Beach	BA-115	Officer's Pavilion	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
6	Rifle Range	RR-10	Exchange	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
7	Camp Geiger	G-770	Dispensary	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
8	Montford Point	M-231	BOQ	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
5	Courthouse Bay	BB-7	Mess Hall	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80

Sample points were selected by Lant Div. On 7 August 1980, the samples were sent directly to U. S. Army Environmental Hygiene Agency for analysis, as directed by Lant Div. The quarterly samples were to be composited by the Army's Lab and run as one sample from each system.

3. The limits are, According to the S. D. W. A., as follows:

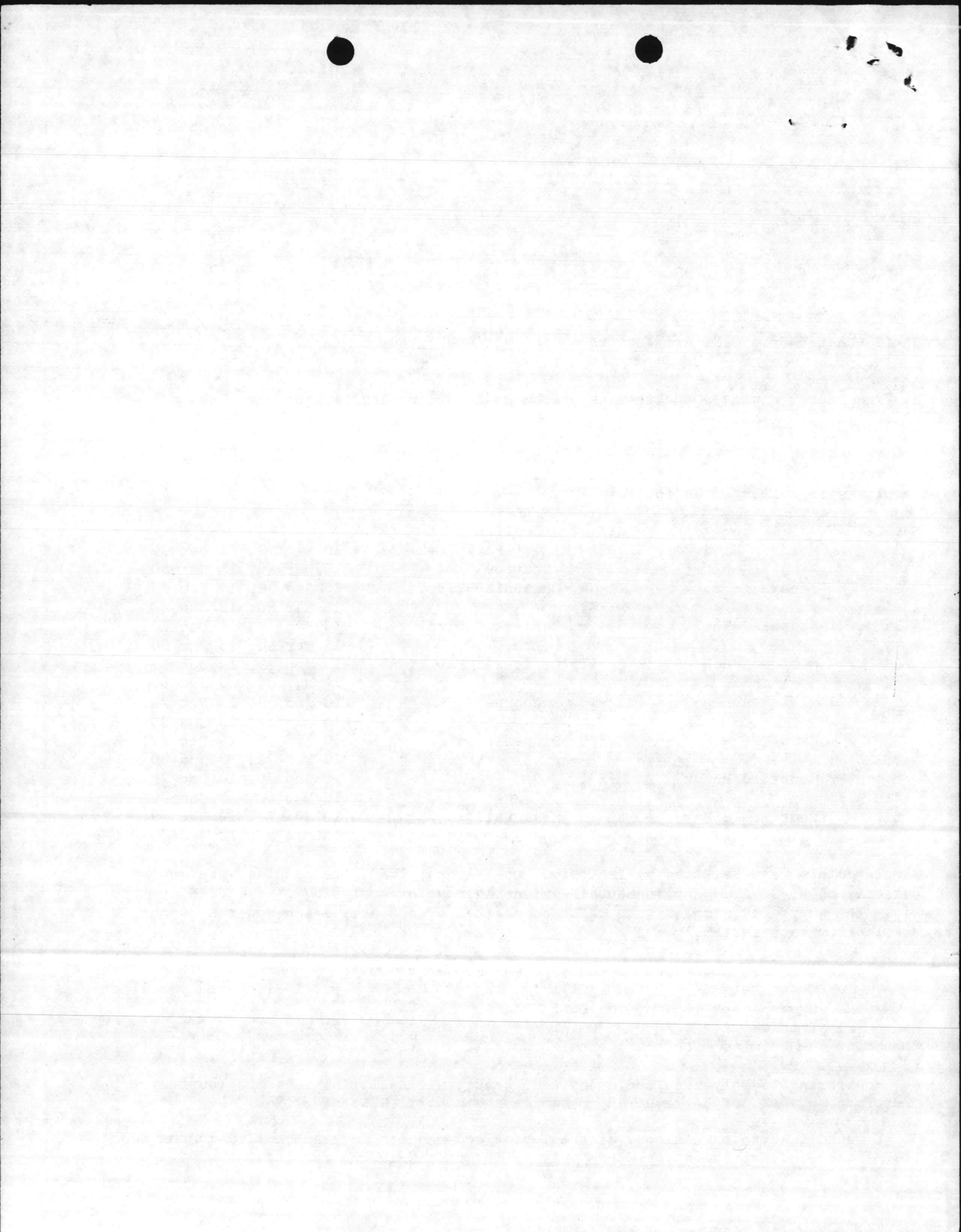
Gross Beta	50 pCi/l	pCi/l=Picocurie per liter
Gross Alpha	15 pCi/l	
Tritium	20,000 pCi/l	

Comparing the results with the limits shows that we are well under the limits.

4. Monitoring is only required every four years, with sampling done the fourth year. Therefore we will not be required to sample again until September 1983.

5. I would like to have a copy of the letter and results to keep on file in the lab. Mr. Hatcher and Mr. Price would probably be interested in the results.

EAB





DEPARTMENT OF THE ARMY Mr. Swatski/gll/584-2619/2637
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010

HSE-LR-R

29 SEP 1980

SUBJECT: Results of Analyzing NIPDWR Samples

Commander
Quality Control Lab
NREA Div., Base Maintenance Dept.
MCB Camp Lejeune, NC 28542

1. Reference:

a. Title 40, Code of Federal Regulations (CFR), 1979 ed., Part 141, National Interim Primary Drinking Water Regulations (NIPDWR).

b. Ltr, 1122C/WMK, Naval Facilities Engineering Command, 11 Jun 79, subject: Radionuclide for Potable Water.

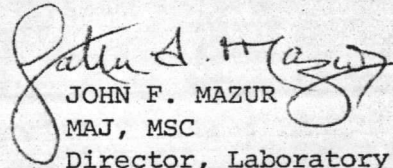
c. Memo, Camp Lejeune, 6 Aug 80, subject: Radionuclide Analysis for Potable Water.

2. Results of analyzing NIPDWR samples for gross beta, gross alpha, and tritium are attached as Inclosure 1.

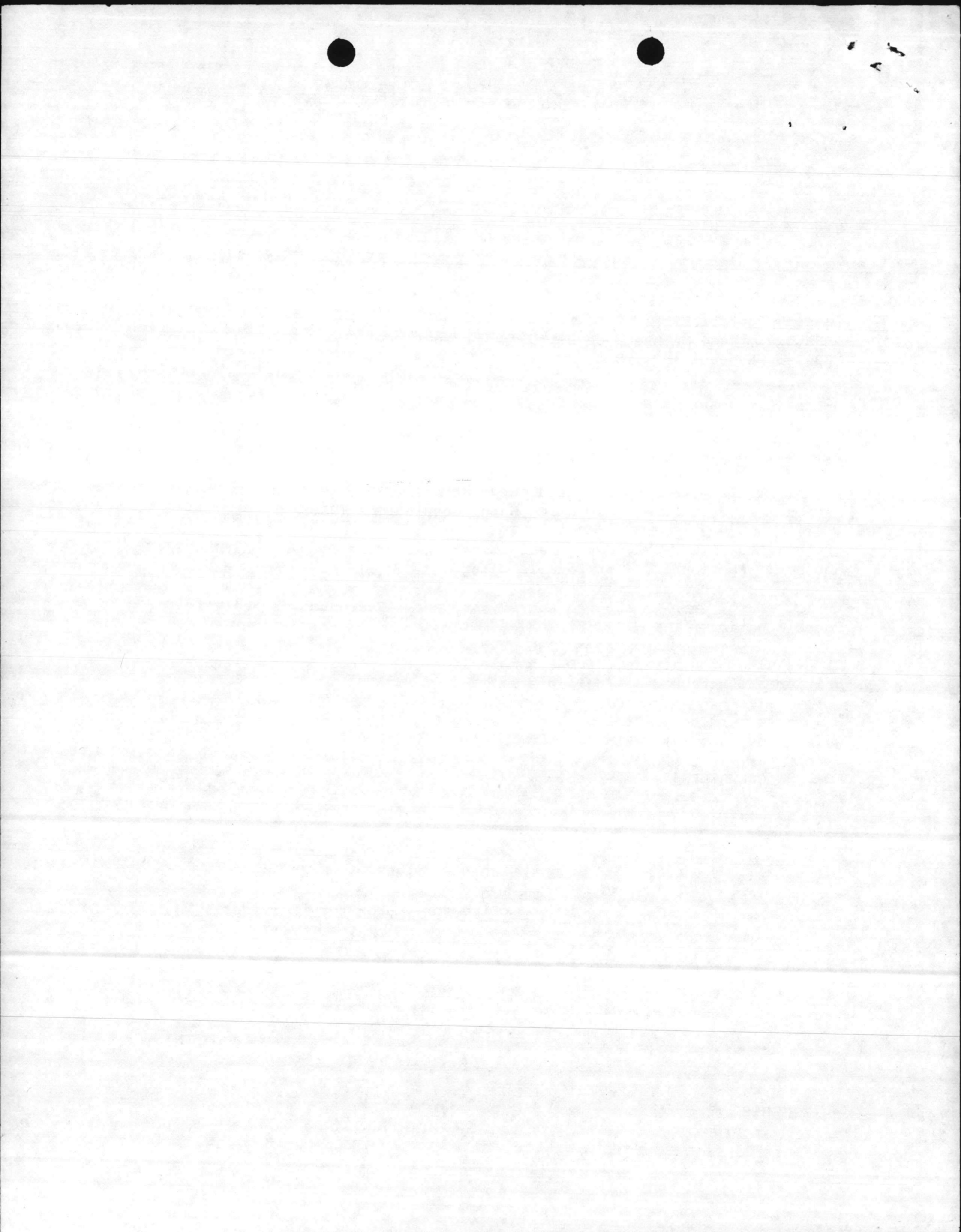
3. These results are below the screening tests for radioactivity in drinking water (ref para 1a).

FOR THE COMMANDER:

1 Incl
as


JOHN F. MAZUR
MAJ, MSC
Director, Laboratory Services

CF:
NAVFACENGCOMHQ, ATTN: Code 1122C

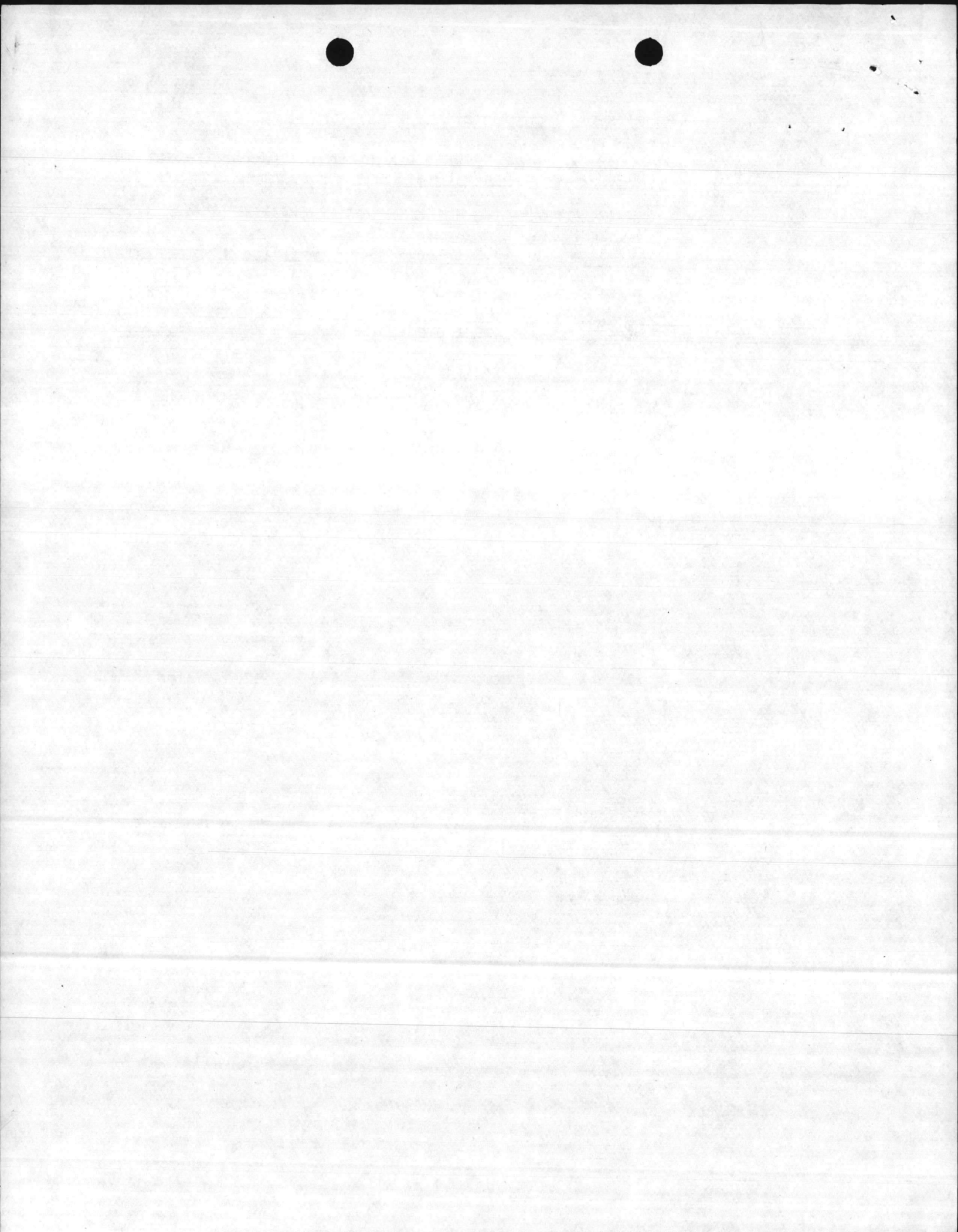


To Lab
H/W

Results of Analyzing Drinking Water Samples

<u>Sample Identification</u>	<u>RCB Lab No.</u>	<u>Picocurie per Liter ± 2 Standard Deviations</u>		
		<u>Gross Beta</u>	<u>Gross Alpha</u>	<u>Tritium</u>
1	W722	1.8 \pm 1.0	1.5 \pm 1.1	< 451
2	W723	3.3 \pm 1.0	1.3 \pm 1.0	< 451
3	W724	2.7 \pm 0.9	3.0 \pm 1.2	< 451
4	W725	1.9 \pm 0.9	< 1.3	< 451
5	W726	< 1.3	1.6 \pm 1.3	< 451
6	W727	< 1.3	< 1.3	< 451
7	W728	6.0 \pm 1.3	< 1.6	< 451
8	W729	< 1.6	< 1.6	< 451

Duc



DEPARTMENT OF THE NAVY

Memorandum

DATE: 20 October 1980

FROM: Ms. Betz, Chemist

TO: Mr. Sharpe, Ecologist

SUBJ: Letter from U. S. Army Environmental Hygiene Agency

Encl: Letter from U.S. Army Environmental Hygiene Agency

1. The letter encloses the results of the Radionuclide Analysis of our eight potable water systems.
2. The analysis was arranged through Lant Div (Contact Point-Wallace Carter). We collected the samples, one sample from each system for each quarter for a year. The samples were collected as follows:

Sample	System	Bldg	Location	Dates
1	Holcomb Blvd.	4022	Midway Park Fire Station	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
2	Tarawa Teer.	TT-44	Community Bldg.	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
3	Hadnot Point	65	Quality Control Lab.	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
4	Owslow Beach	BA-115	Officer's Pavilion	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
5	Rifle Range	RR-10	Exchange	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
6	Camp Gæger	G-770	Dispensary	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
8	Montford Point	M-231	BOQ	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
5	Courthouse Bay	BB-7	Mess Hall	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80

Sample points were selected by Lant Div. On 7 August 1980, the samples were sent directly to U. S. Army Environmental Hygiene Agency for analysis, as directed by Lant Div. The quarterly samples were to be composited by the Army's Lab and run as one sample from each system.

3. The limits are, According to the S. D. W. A., as follows:

Gross Beta	50 pCi/l	pCi/l=Picocurie per liter
Gross Alpha	15 pCi/l	
Tritium	20,000 pCi/l	

Comparing the results with the limits shows that we are well under the limits.

4. Monitoring is only required every four years, with sampling done the fourth year. Therefore we will not be required to sample again until September 1983.

5. I would like to have a copy of the letter and results to keep on file in the lab, Mr. Hatcher and Mr. Price would probably be interested in the results.

10 October 1980

Mr. Bates, Chester

Mr. Shaver, Raleigh

Letter from U.S. Army Environmental Hygiene Agency

Encl: Letter from U.S. Army Environmental Hygiene Agency

1. The letter encloses the results of the radiometric analysis of our eight drinking water systems.

2. The analysis was arranged through Lane Div (Contract Fair-William Bates), who collected the samples, one sample from each system for each quarter for a year. The samples were collected as follows:

Sample	System	Bldg	Location	Dates
1	Holcomb Blvd.	4032	Midway Park Line Station	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
2	Tarva Terr.	TF-44	Commandery Bldg.	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
3	Hobart Pointe	65	Quality Control Lab.	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
4	Quail Hollow Beach	BA-115	Officer's Pavilion	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
5	Bills Range	BP-10	Exchange	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80
6	Camp Gager	G-370	Dispensary	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
7	Montford Pointe	M-231	Pod	10 Sep 79, 14 Dec 79, 10 Mar 80, 13 Jun 80
8	Courthouse Bay	BB-7	Mess Hall	10 Sep 79, 14 Dec 79, 14 Mar 80, 13 Jun 80

Sample points were selected by Lane Div. On 7 August 1980, the samples were sent directly to U.S. Army Environmental Hygiene Agency for analysis, as directed by Lane Div. The quarterly samples were to be completed by the Army's laboratory for each sample from each system.

3. The limits are, according to the U.S. Army, as follows:
Gross Beta 30 dpm/l
Gross Alpha 15 dpm/l
Tritium 20,000 dpm/l

Comparing the results with the limits shows that we are well under the limits.

4. Monitoring is only required every four years, with sampling done the fourth year. Therefore we will not be required to sample again until September 1983.

5. I would like to have a copy of the letter and results to keep on file in the lab. Mr. Hatcher and Mr. Price would probably be interested in the results.

DEPARTMENT OF THE NAVY

Memorandum

DATE: 6 August 1980

FROM: Quality Control Lab., NREA Div., Base Maintenance Dept., MCB Camp Lejeune, NC

TO: US Army Environmental Hygiene Agency, Attn: ^{ABERDEEN PROVINC} HSE-1A

SUBJ: Radionuclide Analysis for Potable Water

ENCL: (1) Potable Water Samples-32 total

These samples are from the eight potable water systems aboard MCB Camp Lejeune. There are four samples from each system, one for each quarter, to be composited and analyzed for radionuclide content in accordance with the Safe Drinking Water Act.

ANCE

ONE IN EACH BOX

6 BOXES 5 OF 6 EACH, 1 OF 2 EACH " 32

for radionuclide content in accordance with the Safe Drinking Water Act.
Six four samples from each system, one for each quarter, to be composited and analyzed.
These samples are from the eight potable water systems aboard MCB Camp Lejeune. There

ENCL: (1) Potable Water Samples-32 total

Radionuclide Analysis for Potable Water

US Army Environmental Hygiene Agency, Attn: HSE-1A

Quality Control Lab., WEA Div., Base Maintenance Dept., MCB Camp Lejeune, NC

6 August 1980

20 MAY 1980

DATE

FROM Commander, Atlantic Division, Naval Facilities Engineering Command FILE NUMBER _____

SUBJECT Radionuclide analysis for potable water

REFERENCE (a) P.L. 93-523, Safe Drinking Water Act

TO: Miss Elizabeth Betz
 Water Quality Laboratory
 Natural Resources and Environmental
 Affairs Division
 Base Maintenance Department
 Camp Lejeune, NC 28542

ENCLOSURE
 (1) Radionuclide sampling bottles - 8 total

This form may be used in a window envelope.

VIA _____ Endorsement on _____

FORWARDED RETURNED FOLLOW-UP REQUEST ADVISE SUBMIT

X	MESSAGE	X	MESSAGE	X	MESSAGE
<input checked="" type="checkbox"/>	FOR APPROPRIATE ACTION		SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO YOUR OFFICE _____ AS A MATTER UNDER YOUR JURISDICTION.		CERTIFY ENCLOSURE _____ AS TO RECEIPT AND ACCEPTANCE OF MATERIAL AND FORWARD TO _____
	FOR INFORMATION OR CERTIFICATION AND/OR FILE.		SUBJECT DOCUMENTS WAS/WERE APPROVED _____ AND FORWARDED TO YOU.		_____ COPIES OF SUBJECT CHANGE ORDER AMENDMENT OR MODIFICATION
	<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		_____ COPY(IES) OF THIS CORRESPONDENCE WITH YOUR REPLY.		CHANGE NOTICE TO THE SUPPLIER
	APPROVAL <input type="checkbox"/> IS <input type="checkbox"/> IS NOT RECOMMENDED		ENCLOSURE(S) _____ IS/ARE FORWARDED AS REQUESTED BY REFERENCE _____		_____ COPIES OF APPLICABLE PLANS AND/OR SPECIFICATIONS.
	CONCURRING IN RECOMMENDATIONS MADE IN THE BASIC CORRESPONDENCE.		ENCLOSURE(S) IS/ARE RETURNED FOR CORRECTION AS INDICATED.		FOR PLAN ACTION AS INDICATED
	COMMENTS AND/OR RECOMMENDATIONS.		CORRECTED ENCLOSURE(S) AS REQUESTED		CLASSIFICATIONS OF DEFECTS FOR SUBJECT ITEMS
	MAILING LIST ACTION		SUBJECT PERSON'S ATTENTION SHOULD BE INVITED TO THIS MATTER		CONFIRMATION THAT INSPECTION OR SOURCE INSPECTION IS NOT REQUIRED
	FOR ASSIGNMENT OF BUREAU FILE NUMBER(S)		SUBJECT PERSON(S) REPORTED TO THIS COMMAND _____		INSPECTION UNDER THE SUBJECT SUBCONTRACT IS NOT REQUIRED
	ON A LOAN BASIS RETURN BY _____		SUBJECT PERSON(S) COMPLETED HIS/THEIR DUTY AND WAS/WERE DETACHED FROM THIS COMMAND _____		_____ COPIES OF SUBJECT PURCHASE DOCUMENT. IF SOURCE INSPECTION OR PROGRESSING IS REQUIRED
	SIGN ORIGINAL RECEIPT AND RETURN TO THIS OFFICE.		NAME AND LOCATION OF SUPPLIER OF SUBJECT ITEMS.		STATUS OF MATERIAL ON SUBJECT PURCHASE DOCUMENT
	SUBJECT FILES, WHICH ARE LOCATED IN BOX NO. _____ SHIPMENT NO. _____		SUBCONTRACT NUMBER FOR SUBJECT ITEM		CLEARANCE AS INDICATED IN BASIC CORRESPONDENCE VERIFIED. NO REPLY UNLESS NEGATIVE.
	REPLY TO THE ABOVE REFERENCE(S) BY _____		SUBJECT PURCHASE DOCUMENT HAS BEEN REQUESTED AND WILL BE FORWARDED WHEN RECEIVED.		VERIFICATION OF NEED-TO-KNOW FOR VISIT PERSONNEL CLEARANCES VERIFIED.
	_____ COPY(IES) OF REFERENCE DESCRIBED ABOVE WAS/WERE NOT RECEIVED.		ENDORSEMENT _____ OF SUBJECT SUBCONTRACT IS BEING DELAYED PENDING RECEIPT OF BASIC PURCHASE DOCUMENT.		
	SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO _____		APPROPRIATION SYMBOL SUBHEAD AND CHARGEABLE ACTIVITY		
	SUBJECT DOCUMENT(S) IS/ARE WAS/WERE RETURNED FOR _____		WHETHER SUBJECT ITEMS ARE TO BE COMMERCIALY SHIPPED OR AT GOVERNMENT EXPENSE		
			A CERTIFICATE IN LIEU OF SUBJECT BILL OF LADING WHICH HAS BEEN LOST.		SEE REMARKS ON THE REVERSE SIDE.

COPY TO _____ SIGNATURE Wallace Carter

ROUTING AND TRANSMITTAL SLIP

Date

19 May 80

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1.		
2.		
3.		
4.		
5.		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

Re: Naval activities requiring radionuclide analysis for potable water. Return address for label attached. Questions may be addressed to Mr. Jones C, RBCD - USAEHA; 301-671-2619.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
	Phone No. 3269

5041-102

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

20 MAY 1980

DATE

FROM Commander, Atlantic Division, Naval Facilities Engineering Command FILE NUMBER

SUBJECT Radionuclide analysis for potable water

REFERENCE (a) P.L. 93-523, Safe Drinking Water Act

TO: Miss Elizabeth Betz
 Water Quality Laboratory
 Natural Resources and Environmental
 Affairs Division
 Base Maintenance Department
 Camp Lejeune, NC 28542

ENCLOSURE
 (1) Radionuclide sampling bottles - 8 total

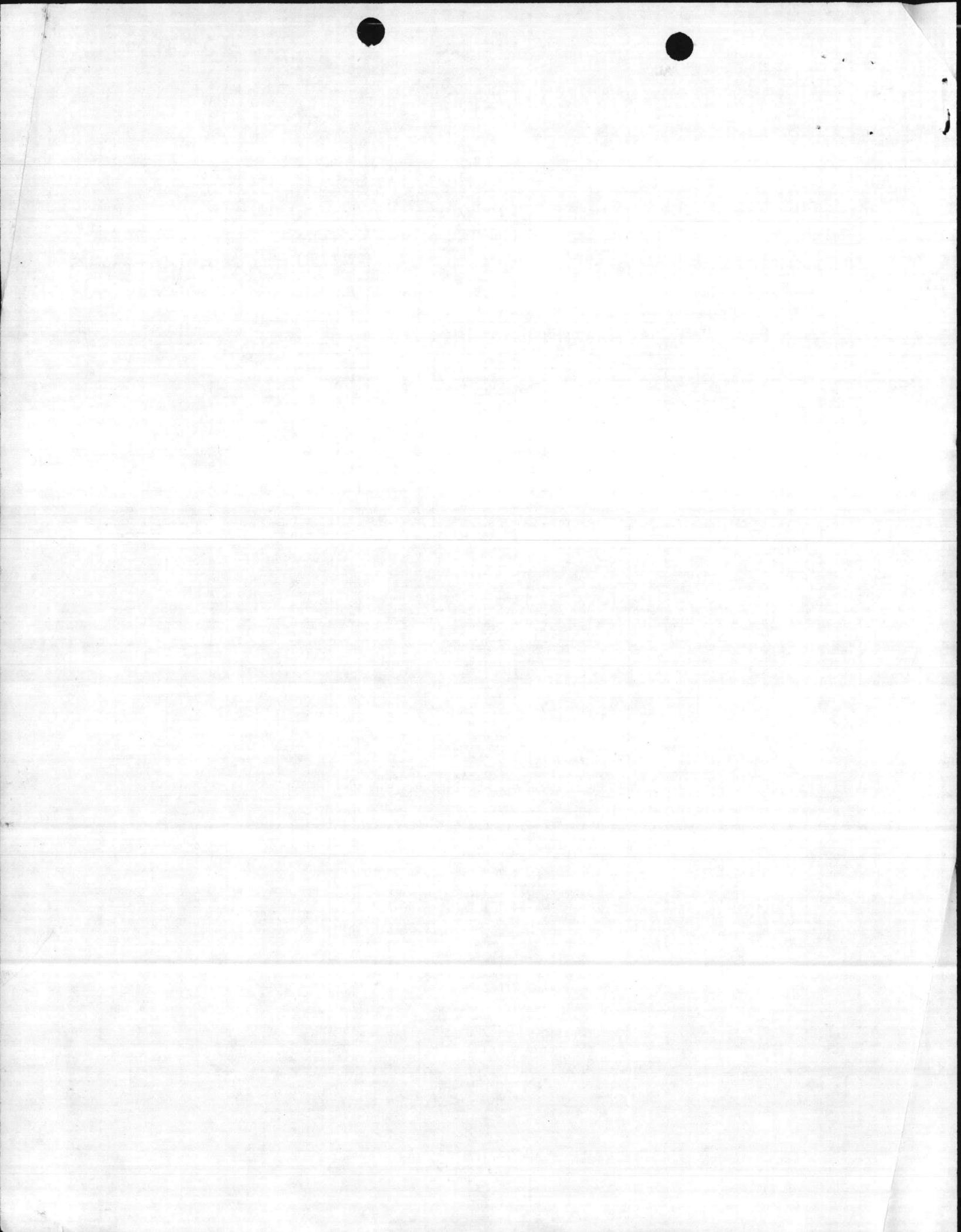
This form may be used in a window envelope.

VIA _____ Endorsement on

FORWARDED RETURNED FOLLOW-UP REQUEST ADVISE SUBMIT

X	MESSAGE	X	MESSAGE	X	MESSAGE
<input checked="" type="checkbox"/>	FOR APPROPRIATE ACTION		SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO YOUR OFFICE AS A MATTER UNDER YOUR JURISDICTION.		CERTIFY ENCLOSURE _____ AS TO RECEIPT AND ACCEPTANCE OF MATERIAL AND FORWARD TO _____
	FOR INFORMATION OR CERTIFICATION AND/OR FILE.		SUBJECT DOCUMENTS WAS/WERE APPROVED _____ AND FORWARDED TO YOU.		_____ COPIES OF SUBJECT CHANGE ORDER AMENDMENT OR MODIFICATION
	<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		_____ COPY(IES) OF THIS CORRESPONDENCE WITH YOUR REPLY.		CHANGE NOTICE TO THE SUPPLIER
	APPROVAL <input type="checkbox"/> IS <input type="checkbox"/> IS NOT RECOMMENDED		ENCLOSURE(S) _____ IS/ARE FORWARDED AS REQUESTED BY REFERENCE _____		_____ COPIES OF APPLICABLE PLANS AND/OR SPECIFICATIONS.
	CONCURRING IN RECOMMENDATIONS MADE IN THE BASIC CORRESPONDENCE.		ENCLOSURE(S) IS/ARE RETURNED FOR CORRECTION AS INDICATED.		FOR PLAN ACTION AS INDICATED
	COMMENTS AND/OR RECOMMENDATIONS.		CORRECTED ENCLOSURE(S) AS REQUESTED		CLASSIFICATIONS OF DEFECTS FOR SUBJECT ITEMS
	MAILING LIST ACTION		SUBJECT PERSON'S ATTENTION SHOULD BE INVITED TO THIS MATTER		CONFIRMATION THAT INSPECTION OR SOURCE INSPECTION IS NOT REQUIRED
	FOR ASSIGNMENT OF BUREAU FILE NUMBER(S)		SUBJECT PERSON(S) REPORTED TO THIS COMMAND _____		INSPECTION UNDER THE SUBJECT SUBCONTRACT IS NOT REQUIRED
	ON A LOAN BASIS RETURN BY _____		SUBJECT PERSON(S) COMPLETED HIS/THEIR DUTY AND WAS/WERE DETACHED FROM THIS COMMAND _____		_____ COPIES OF SUBJECT PURCHASE DOCUMENT, IF SOURCE INSPECTION OR PROGRESSING IS REQUIRED
	SIGN ORIGINAL RECEIPT AND RETURN TO THIS OFFICE.		NAME AND LOCATION OF SUPPLIER OF SUBJECT ITEMS.		STATUS OF MATERIAL ON SUBJECT PURCHASE DOCUMENT
	SUBJECT FILES, WHICH ARE LOCATED IN BOX NO. _____ SHIPMENT NO. _____		SUBCONTRACT NUMBER FOR SUBJECT ITEM		CLEARANCE AS INDICATED IN BASIC CORRESPONDENCE VERIFIED, NO REPLY UNLESS NEGATIVE.
	REPLY TO THE ABOVE REFERENCE(S) BY _____		SUBJECT PURCHASE DOCUMENT HAS BEEN REQUESTED AND WILL BE FORWARDED WHEN RECEIVED.		VERIFICATION OF NEED-TO-KNOW FOR VISIT PERSONNEL CLEARANCES VERIFIED.
	_____ COPY(IES) OF REFERENCE DESCRIBED ABOVE WAS/WERE NOT RECEIVED.		ENDORSEMENT _____ OF SUBJECT SUBCONTRACT IS BEING DELAYED PENDING RECEIPT OF BASIC PURCHASE DOCUMENT.		
	SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO _____		APPROPRIATION SYMBOL SUBHEAD AND CHARGEABLE ACTIVITY		
	SUBJECT DOCUMENT(S) IS/ARE WAS/WERE RETURNED FOR _____		WHETHER SUBJECT ITEMS ARE TO BE COMMERCIALY SHIPPED OR AT GOVERNMENT EXPENSE		
			A CERTIFICATE IN LIEU OF SUBJECT BILL OF LADING WHICH HAS BEEN LOST.		SEE REMARKS ON THE REVERSE SIDE.

COPY TO _____ SIGNATURE Wallace Carter



ROUTING AND TRANSMITTAL SLIP

Date

19 May 80

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1.		
2.		
3.		
4.		
5.		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

Re: Naval Activities Requiring radionuclide analysis for potable water. Return address, for label, attached. Questions may be addressed to Mr. Jones, C, RBCD - USAEHA.

301-671-2619

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post) <div style="font-size: 1.2em; font-weight: bold; text-align: center;">USAEHA - AROAD</div>	Room No.—Bldg. <hr/> Phone No. <div style="font-size: 1.2em; font-weight: bold; text-align: center;">3269</div>
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5041-102

☆ U.S. G.P.O. 1979-285-092

OPTIONAL FORM 41 (Rev. 7-76)
 Prescribed by GSA
 FPMR (41 CFR) 101-11.206

FALL QUARTER '79
RADIONUCLIDE SAMPLES

10 SEPT, '79

ANDREW LUKE

SAMPLE #	DIST SYSTEM	BLDG #	TIME
1	HOLC. BLVD	4022	1115AM
2	TT	TT-44	1145AM
3	HADNOT PT	65	1130PM
4	ONS BEACH	BA-115	1330PM
5	C'HOUSE BAY	BB-7	1400PM
6	R RANGE	RR-10	1420PM
7	CAMP GEEGER	G-770	1450PM
8	MONTFORD POINT	M-231	1510PM

MID PARK FIRE STA.
COMMUNITY BLDG
QC LAB
OFFICER'S PAVILION
MESS HALL
EXCHANGE
DISPENSARY
BOQ

WINTER QUARTER '79
14 DEC 79 ANDREW LUKE

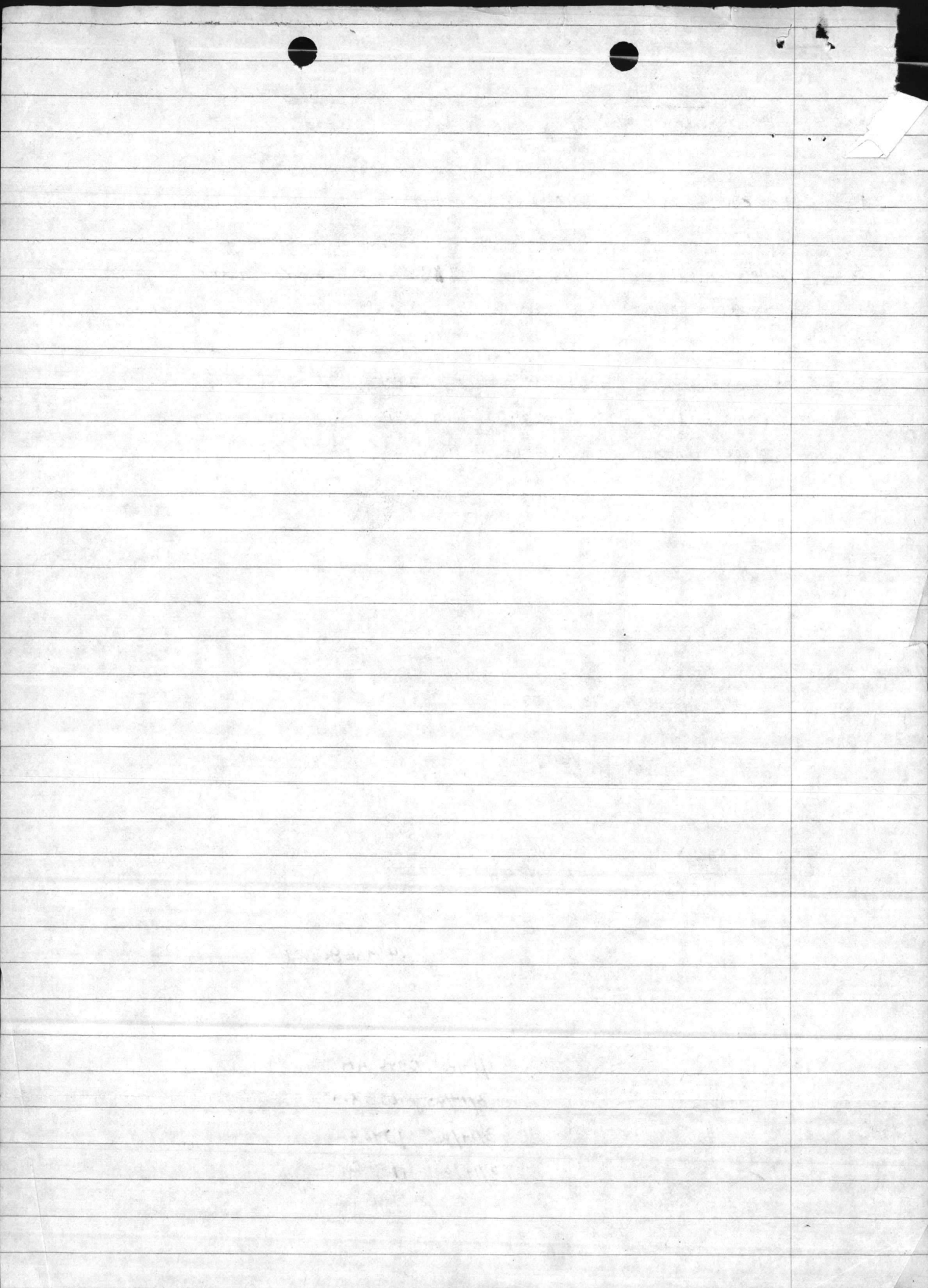
SAMPLE #	DIST SYSTEM	BLDG #	TIME
1	HOLC BLVD	4022	0905 AM
2	TT	TT-44	0925 AM
3	HAD PT.	65	1200 N
4	ONS BEACH	BA-101	1130
5	C'HOUSE BAY	BB-7	1115
6	R RANGE	RR-10	1040 AM
7	CAMP GEEGER	G-770	1005 AM
8	MONTFORD POINT	M-231	0940 AM

MID PK FIRE STA
COMM. BLDG
QC LAB
EXCHANGE SNACKBAR
MESS HALL
EXCHANGE
DISPENSARY
BOQ

SPRING QUARTER '80
14 MAR 80 and 10 MAR 80 LUKE + BETZ

1	HOLC BLVD	4022	0945AM
2	TT	TT-44	1000AM
3	HAD. PT	65	3/14/80 0945 AM
4	ONS BEACH	BA-101	3/14/80 1020AM
5	C'HOUSE BAY	BB-7	3/14/80 1040AM
6	R. RANGE	RR-10	3/14/80 1200 AM
7	CAMP GEEGER	G-770	1120AM
8	MONTFORD POINT	M-231	1020 AM

MID PK FIRE STA
COMM. BLDG
Q.C. LAB
EXCHANGE SNACKBAR
MESS HALL
EXCHANGE
DISPENSARY
BOQ

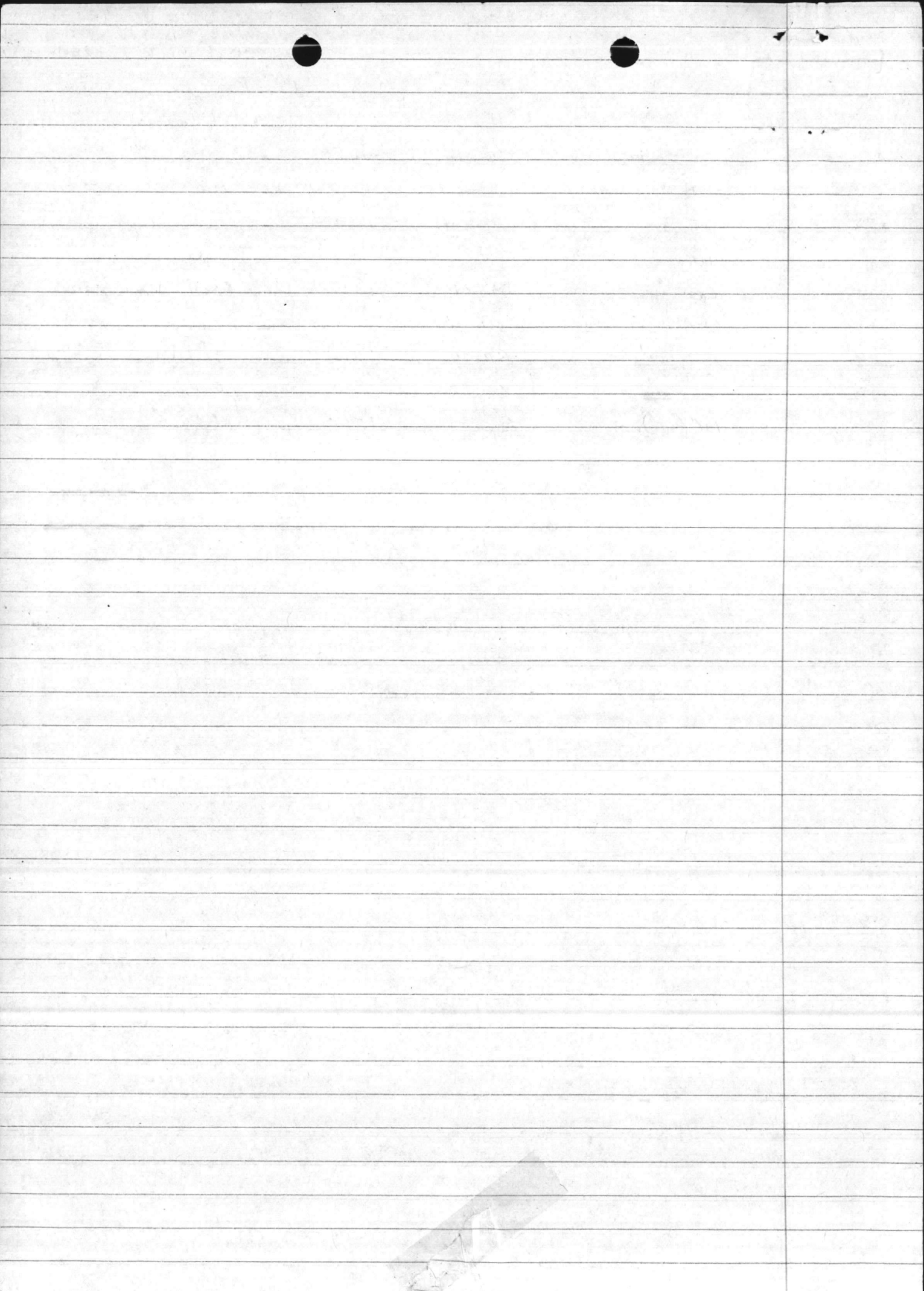


SUMMER QUARTER, 1980

13 JUNE 80

ANDREW LUNG

SAMPLE #	DIST. SYSTEM	BLOG #	TIME	
1	HB	4022	1200N	MID PARK FINE STA
2	TT	TT-44	1210PM	COMM BLOG
3	HP	65		CXC LAB
4	OB	BA-101	1335PM	EXCH SNACK BAR
5	CHB	BB-7	1350PM	MESS HALL
6	RR	RR-10	1420	EXCHANGE
7	CL	G-770	1510	DISPENSARY
8	MP(CJ)	M-231	1550	BOQ



RADIOACTIVITY - RESULTS

11335

