

5096
~~6280/4~~11333/1
NREAD
28 Jan 87

Mr. Wallace E. Venrick
Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Mr. Venrick:

Enclosures (1), (2) and (3) are the Trihalomethane analysis of the Hadnot Point (HP) Water Treatment Plant, ID No. 04-67-041 the Marine Corps Air Station (MCAS), New River Water Treatment Plant, ID No. 04-67-042, and the Holcomb Blvd. (HB) Water Treatment Plant, ID No. 04-67-043. All samples were collected by the Environmental Chemistry and Microbiology Laboratory personnel and analyzed by Industrial and Environmental Analysts, Incorporated.

Point of contact in this matter is Ms. Elizabeth Betz, (919) 451-5977.

Sincerely,

J. I. WOOTEN, Director
Natural Resources Division
By direction of the Commanding General

Encls:

- (1) TTHM Analysis for HP
- (2) TTHM Analysis for MCAS
- (3) TTHM Analysis for HB

Copy to:
LANTDIV

Blind copy to:
EC & ML (2)
BMO (UITL DIR)

Writer/Typist

Date Typed

Word Processor Number

Betz / Dranasaki

28 Jan 87

11333/1

1001
C

Walter H. Taylor
Date: 1/1/31
113311

ORGANIC CHEMICAL ANALYSES - PUBLIC WATER SYSTEM

Water System I.D. Number

Complete All Items Above Heavy Line

4 - 6 7 - 0 4 1

(1-7)

Name of System: HADNOT POINT

Type of System:
 Community () Non-Community

Address: COMMANDING GENERAL, MARINE CORPS

Source of Water:

BASE CAMP LEJEUNE NC Zip 28542

Ground () Both
 Surface () Purchased

County: CRAWFORD

Report To: ARMY FACILITIES ATTN: NREAD

Source of Sample:

Address: SAME AS ABOVE

Distribution Tap () House Tap
 Plant Tap () Well Tap

Zip

Telephone Number: 919 (457) 451 - 5977

Type of Treatment:

Collected By: ENVIRONMENTAL CHEM. & MICRO. LABORATORY

None (X) Lime
 Chlorinated () Soda Ash
 Fluoridated () Polyphosphate
 Filtered (X) Water Softener
 Alum () Other

Date Collected: 12 31 86 Time: 11:58 AM
 MM DD YY (38-41) PM

(31-36)

Location of Sampling Point: FC-530

Address where sample was collected)

Loc. Code

Type of Sample: (37)

Remarks: (28-30)

D-Regular () M-M.R.T.
 C-Check () S-Special

State Drinking Water Parameters (Required)

Contaminant ID	Name	Method	Results Mg/l
0-13)		(14-16)	(17-21)
005	Endrin	<input type="checkbox"/>	<input type="checkbox"/>
010	Lindane	<input type="checkbox"/>	<input type="checkbox"/>
015	Methoxychlor	<input type="checkbox"/>	<input type="checkbox"/>
020	Toxaphene	<input type="checkbox"/>	<input type="checkbox"/>
105	2,4-D	<input type="checkbox"/>	<input type="checkbox"/>
110	2,4,5-TP (Silvex)	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

Optional Parameters (List as needed)

Contaminant ID	Name	Method	Results Mg/l
(10-13)		(14-16)	(17-21)
2941	Chloroform	<input type="checkbox"/>	<input type="checkbox"/>
2943	Bromochloromethane	<input type="checkbox"/>	<input type="checkbox"/>
2944	Chlorodibromomethane	<input type="checkbox"/>	<input type="checkbox"/>
2942	Bromoform	<input type="checkbox"/>	<input type="checkbox"/>
2950	THM	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

Date Received 1-6-87

Date Reported 1-8-87

Reported By JMA

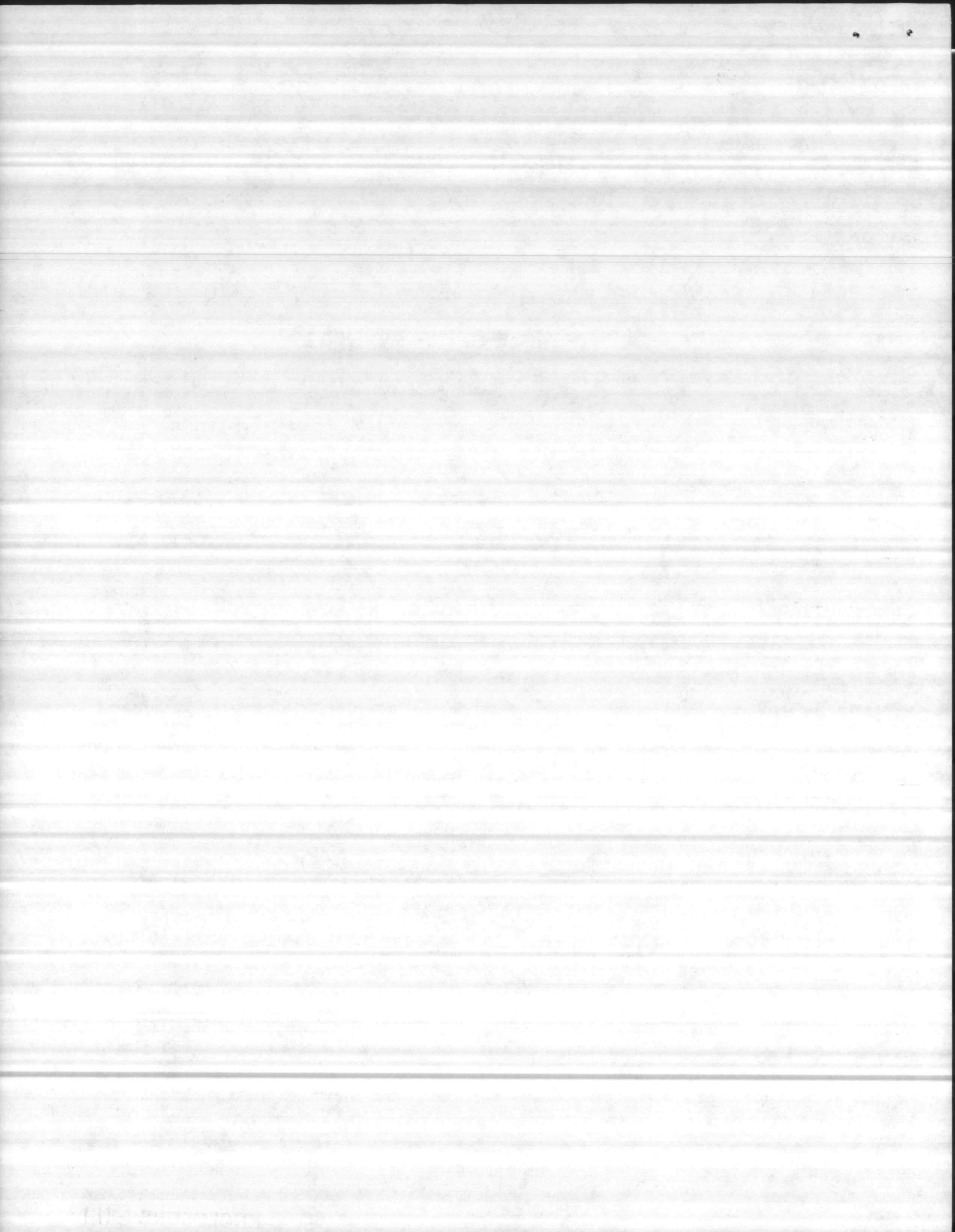
Date Extracted 1-8-87

Date Analyzed 1 9 87

Lab Number 231-20-6

Comments:

MM DD YY (27-27) ENCLOSURE 11



3 37720
C. Lab. ID



Industrial & Environmental Analysts, Inc.

P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919

WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04-67-042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY
 SYSTEM NAME: Marine Corps Air Station SOURCE OF WATER:
 ADDRESS: Commanding General, Marine Corps GROUND () BOTH
Base Camp LeJeune ZIP 28542 () SURFACE () PURCHASED
 COUNTY: Onslow TYPE OF TREATMENT:
 PORT TO: Facilities, NREAD () NONE (X) LIME
 ADDRESS: Same as above (X) CHLORINATED () SODA ASH
 ZIP () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 (X) FILTERED (X) WATER SOFTNER
 () ALUM, () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP (X) D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL
 SAMPLING LOCATION (Address): AS-4025
 DATE COLLECTED: 12-31-86 TIME COLLECTED: 9:56 (am) pm
 COLLECTED BY: Environmental Chemist - LOC. CODE: 004
Micro Laboratory

FOR LABORATORY USE ONLY

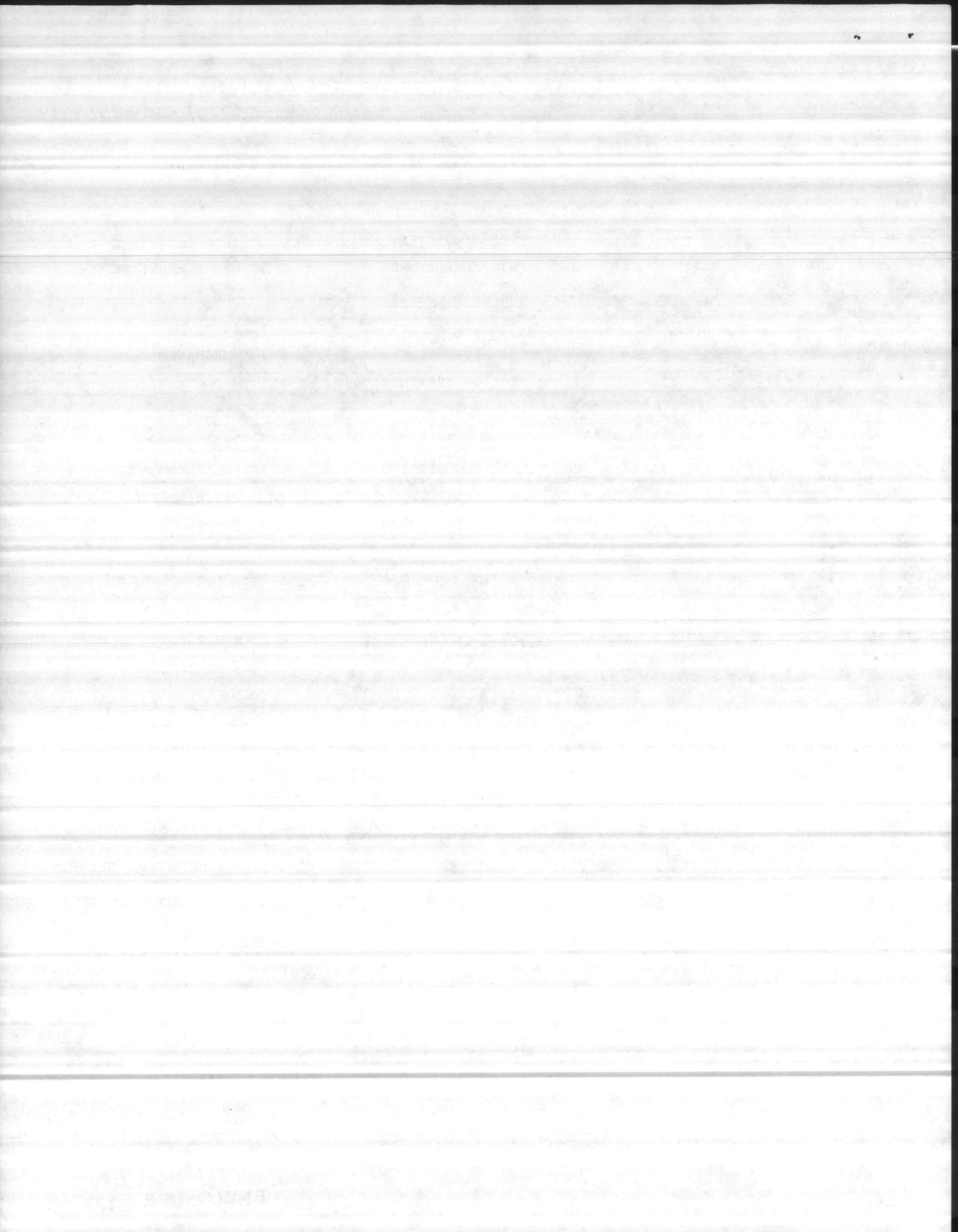
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	<u>0.005</u>
2010	Lindane	201	---	2943	Bromodichloromethane	215	<u>0.011</u>
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	<u>0.029</u>
2020	Toxaphene	201	---	2942	Bromoform	215	<u>0.063</u>
2105	2, 4-D	203	---	2950	Total THM	215	<u>0.108</u>
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 01-06-87 DATE ANALYZED 01-08-87 REPORTED BY E. Folk
 DATE EXTRACTED 01-08-87 DATE REPORTED 01-09-87 SAMPLE LAB 231-20-4

REMARKS:

ENCLOSURE (2)



3 37720
C. Lab. ID



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WATER-SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04-67-042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: Marine Corps Air Station SOURCE OF WATER:
 ADDRESS: Commanding General, Marine Corps () GROUND () BOTH
Base Camp LeJeune ZIP 28542 () SURFACE () PURCHASED

COUNTY: Onslow TYPE OF TREATMENT:
 REPORT TO: Facilities, NREAD () NONE () LIME
 ADDRESS: Same as above () CHLORINATED () SODA ASH
 ZIP () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 () FILTERED () WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP () D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): AS-2800

DATE COLLECTED: 12-31-86 TIME COLLECTED: 10:30 am pm
 COLLECTED BY: Environmental Chemist- LOC. CODE: 003
Micro Laboratory

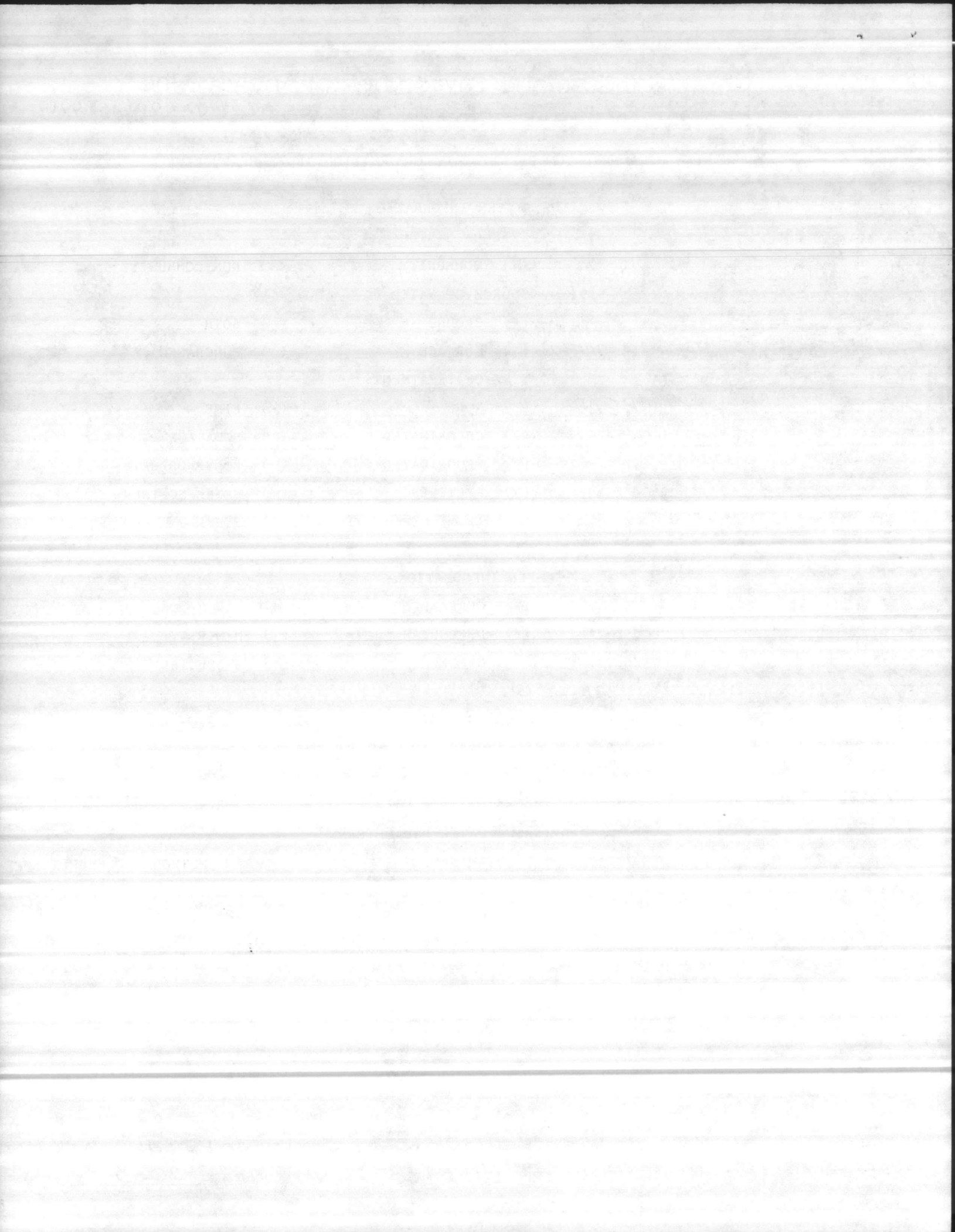
FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	<u>0.007</u>
2010	Lindane	201	---	2943	Bromodichloromethane	215	<u>0.015</u>
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	<u>0.037</u>
2020	Toxaphene	201	---	2942	Bromoform	215	<u>0.066</u>
2105	2, 4-D	203	---	2950	Total THM	215	<u>0.125</u>
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 01-06-87 DATE ANALYZED 01-08-87 REPORTED BY E. Folk
 DATE EXTRACTED 01-08-87 DATE REPORTED 01-09-87 SAMPLE LAB 231-20-3

REMARKS:



3 37720
C. Lab. ID



Industrial & Environmental Analysts, Inc.
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WATER-SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04-67-042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY
 SYSTEM NAME: Marine Corps Air Station SOURCE OF WATER:
 ADDRESS: Commanding General, Marine Corps GROUND () BOTH
Base Camp LeJeune ZIP 28542 () SURFACE () PURCHASED
 COUNTY: Onslow TYPE OF TREATMENT:
 REPORT TO: Facilities, NREAD () NONE (X) LIME
 ADDRESS: Same as above (X) CHLORINATED () SODA ASH
 ZIP () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 (X) FILTERED (X) WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 () DISTRIBUTION TAP () HOUSE TAP (X) D-REGULAR () M-M.R.T.
 () PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL
 SAMPLING LOCATION (Address): AS-710
 DATE COLLECTED: 12-31-86 TIME COLLECTED: 10:55 am pm
 COLLECTED BY: Environmental Chemist - LOC. CODE: 002
Micro Laboratory

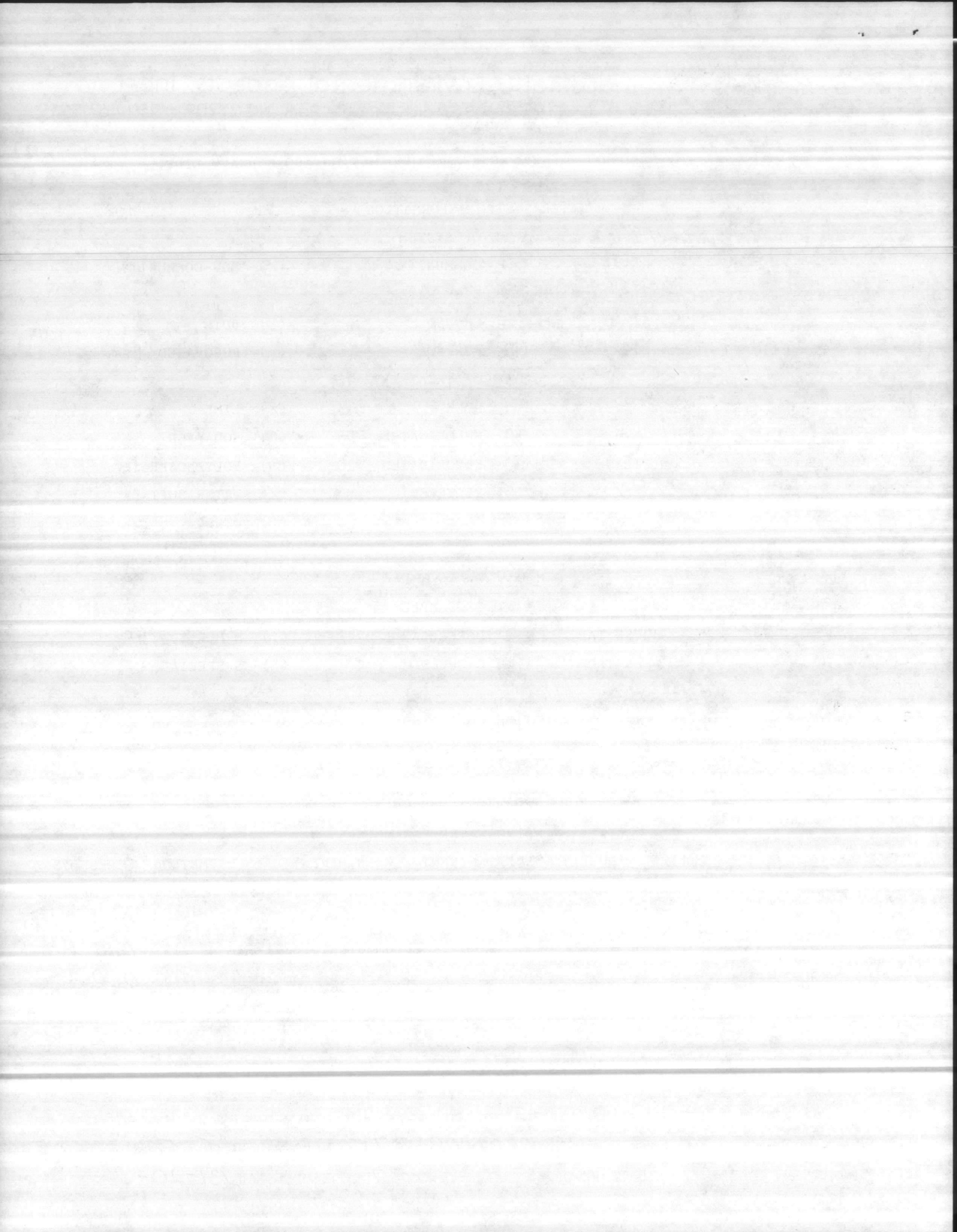
FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	<u>0.007</u>
2010	Lindane	201	---	2943	Bromodichloromethane	215	<u>0.014</u>
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	<u>0.035</u>
2020	Toxaphene	201	---	2942	Bromoform	215	<u>0.064</u>
2105	2, 4-D	203	---	2950	Total THM	215	<u>0.120</u>
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 01-06-87 DATE ANALYZED 01-08-87 REPORTED BY E. Folk
 DATE EXTRACTED 01-08-87 DATE REPORTED 01-09-87 SAMPLE LAB 231-20-2

REMARKS:



3 37720
C. Lab. ID



Industrial & Environmental Analysts, Inc.
P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919

WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04-67-042 TYPE OF SYSTEM:
 COMMUNITY NON-COMMUNITY

SYSTEM NAME: Marine Corps Air Station SOURCE OF WATER:
 GROUND BOTH

ADDRESS: Commanding General, Marine Corps GROUND BOTH
Base Camp LeJeune ZIP 28542 SURFACE PURCHASED

COUNTY: Onslow TYPE OF TREATMENT:
 NONE LIME

REPORT TO: Facilities, NREAD CHLORINATED SODA ASH
 FLUORIDATED POLYPHOSPHATE

ADDRESS: Same as above FILTERED WATER SOFTNER
 ALUM OTHER

ZIP

TELEPHONE: (919) 451-5977

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP HOUSE TAP D-REGULAR M-M.R.T.
 PLANT TAP WELL TAP C-CHECK S-SPECIAL

SAMPLING LOCATION (Address): AS-110

DATE COLLECTED: 12-31-86 TIME COLLECTED: 9:42 am pm

COLLECTED BY: Environmental Chemist - LOC. CODE: 001
Micro Laboratory

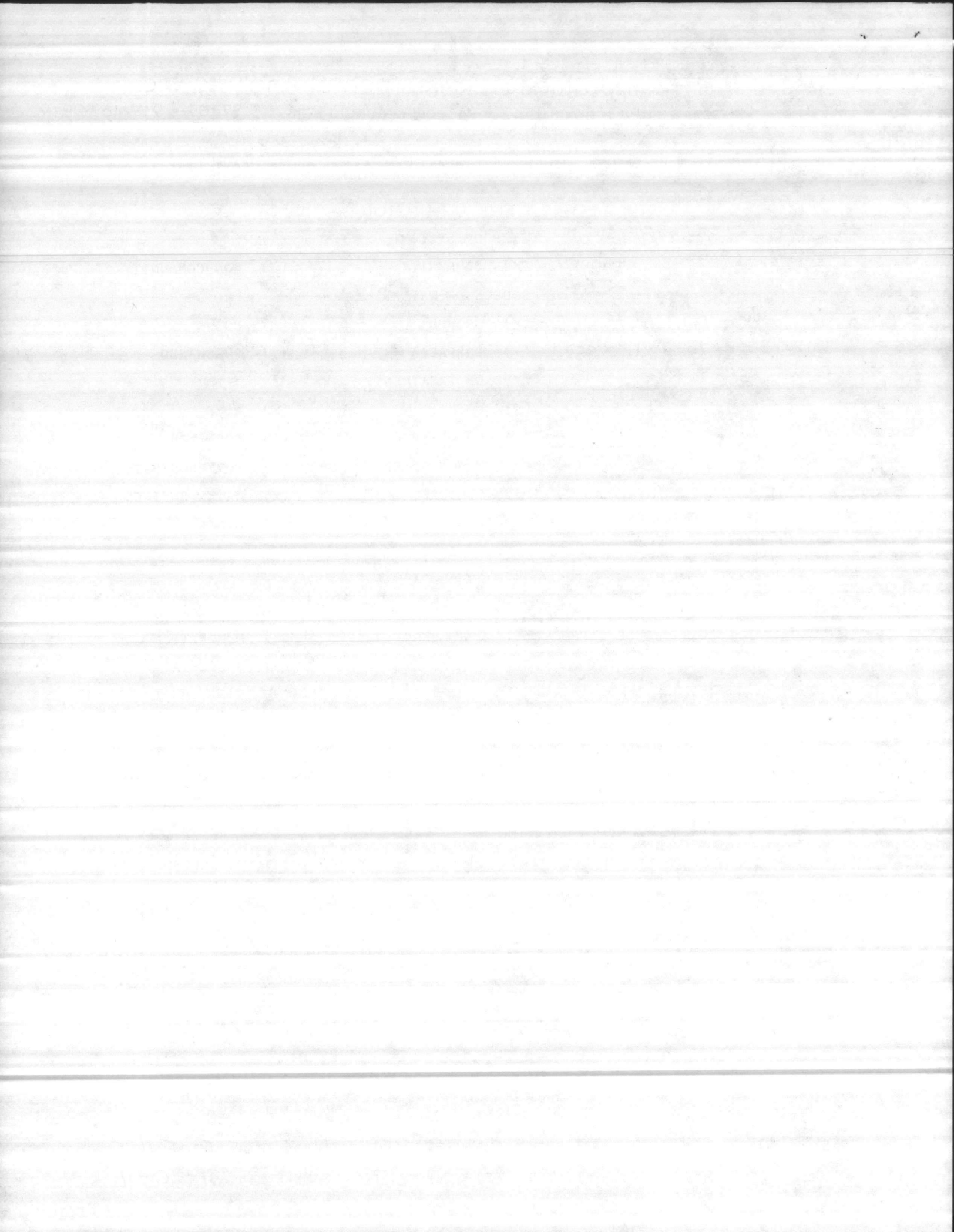
FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	<u>0.005</u>
2010	Lindane	201	---	2943	Bromodichloromethane	215	<u>0.007</u>
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	<u>0.016</u>
2020	Toxaphene	201	---	2942	Bromoform	215	<u>0.034</u>
2105	2, 4-D	203	---	2950	Total THM	215	<u>0.062</u>
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 01-06-87 DATE ANALYZED 01-08-87 REPORTED BY E. Folk
DATE EXTRACTED 01-08-87 DATE REPORTED 01-09-87 SAMPLE LAB 231-20-1

REMARKS:



3 37720
C. Lab. ID



Industrial & Environmental Analysts, Inc.

P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919

WATER-SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04-67-042

TYPE OF SYSTEM:

COMMUNITY () NON-COMMUNITY

SYSTEM NAME: Marine Corps Air Station

SOURCE OF WATER:

ADDRESS: Commanding General, Marine Corps
Base Camp LeJeune ZIP 28542

GROUND () BOTH
() SURFACE () PURCHASED

COUNTY: Onslow

TYPE OF TREATMENT:

REPORT TO: Facilities, NREAD

() NONE LIME

ADDRESS: Same as above

CHLORINATED () SODA ASH

ZIP

() FLUORIDATED () POLYPHOSPHATE

TELEPHONE: (919) 451-5977

FILTERED WATER SOFTNER

() ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE

TYPE OF SAMPLE

DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): G 520

DATE COLLECTED: 12-31-86 TIME COLLECTED: 11:12 am pm

COLLECTED BY: Environmental Chemist - LOC. CODE: 007
Micro Laboratory

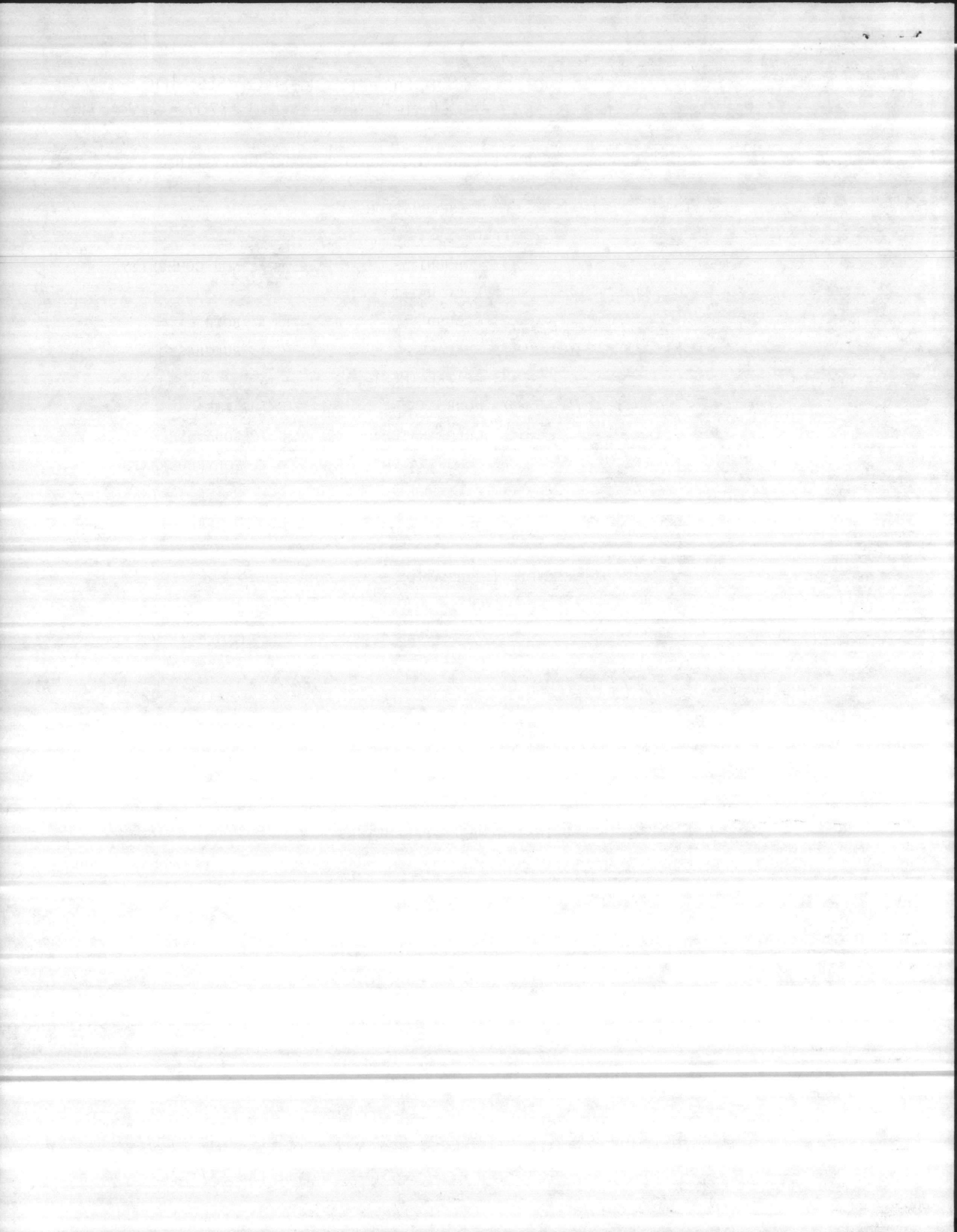
FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

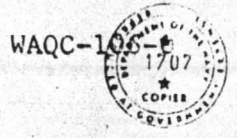
CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	<u>0.008</u>
2010	Lindane	201	---	2943	Bromodichloromethane	215	<u>0.013</u>
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	<u>0.028</u>
2020	Toxaphene	201	---	2942	Bromoform	215	<u>0.048</u>
2105	2, 4-D	203	---	2950	Total THM	215	<u>0.097</u>
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 01-06-87 DATE ANALYZED 01-08-87 REPORTED BY E. Folk
DATE EXTRACTED 01-08-87 DATE REPORTED 01-09-87 SAMPLE LAB 231-20-7

REMARKS:



3 3 7 7 2 0
 L.C. ID (42-46)
 -9)



ORGANIC CHEMICAL ANALYSES - PUBLIC WATER SYSTEM

Water System I.D. Number

Complete All Items Above Heavy Line

4 - 6 7 - 0 4 3
 (1-7)

Name of System: HOLCOMB BLVD

Type of System:
 Community () Non-Community

Address: COMMANDING GENERAL, MARINE CORPS
BASE CAMP LEBEUNE, NC Zip 28542

Source of Water:
 Ground () Both
 () Surface () Purchased

County: ONslow

Report To: FACILITIES ATTN: NREAD

Source of Sample:
 () Distribution Tap () House Tap
 Plant Tap () Well Tap

Address: SAME AS ABOVE
 Zip

Telephone Number: 919 (751) 451 - 5977

Type of Treatment:
 () None (X) Lime
 Chlorinated () Soda Ash
 Fluoridated () Polyphosphate
 Filtered (X) Water Softener
 () Alum () Other

Collected By: ENVIRONMENTAL CHEM. & MICRO. LABORATORY
 Date Collected: 12 31 86 Time: 9:12 AM
 MM DD YY (38-41)

Location of Sampling Point: BLDG 670
 (Address where sample was collected)

Remarks: Loc. Code
 (28-30)

Type of Sample: (37)
 D-Regular () M-M.R.T.
 () C-Check () S-Special

State Drinking Water Parameters (Required)

Contaminant ID	Name	Method (14-16)	Results Mg/l (17-21)
005	Endrin		
010	Lindane		
015	Methoxychlor		
020	Toxaphene		
105	2,4-D		
110	2,4,5-TP (Silvex)		

Optional Parameters (List as needed)

Contaminant ID	Name	Method (14-16)	Results Mg/l (17-21)
2941	chloroform	215	0.013
2943	Bromodichloromethane	215	0.002
2944	Chlorodibromomethane	215	0.001
2942	Bromoform	215	0.001
2950	TTHM	215	0.015

Date Received 1-6-87

Date Reported 1-8-87

Reported By JTH

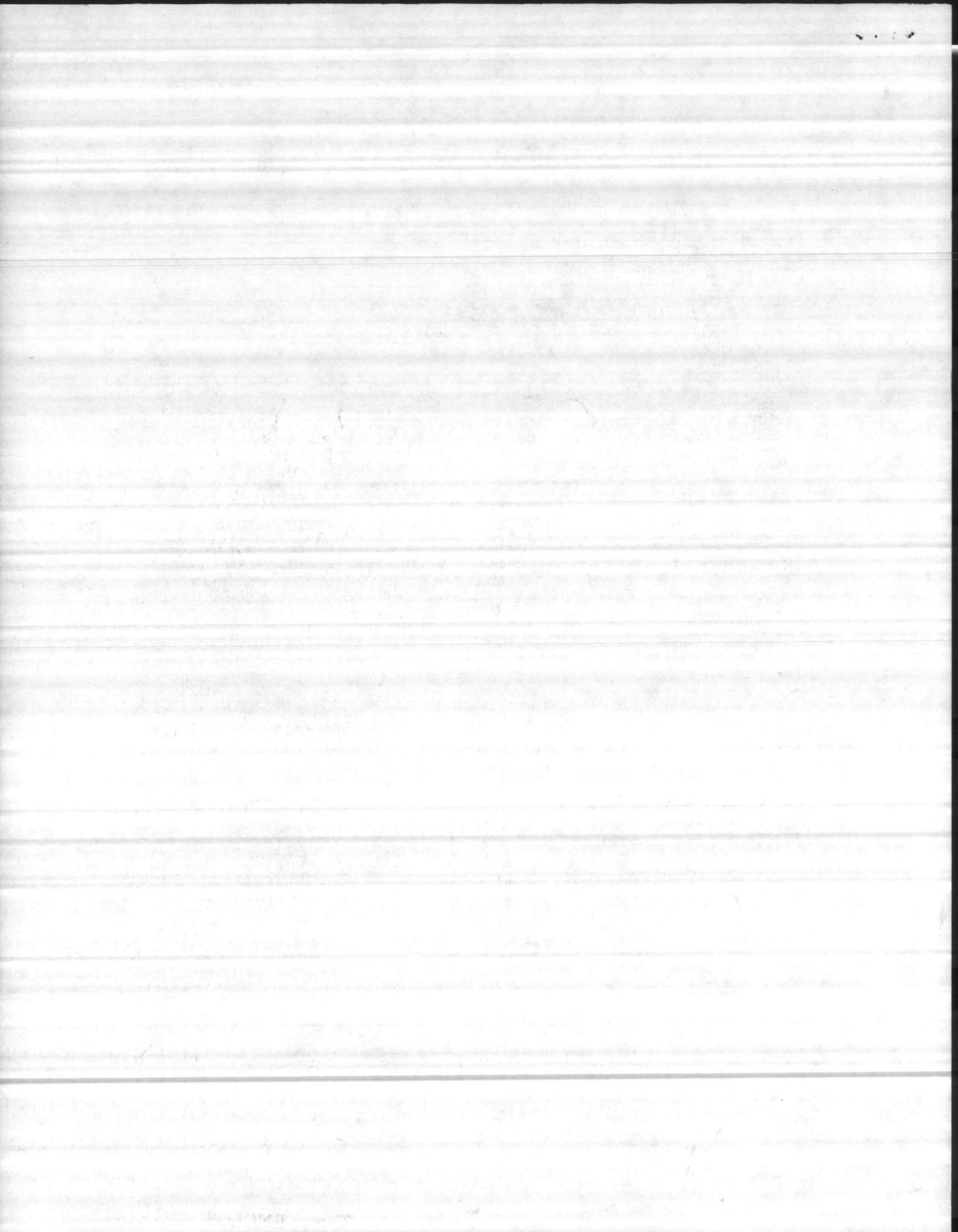
Date Extracted 1-8-87

Date Analyzed 1 7 87
 MM DD YY

Lab Number 231-20-5

Comments:

ENCLOSURE (5)



5096 FAC
76280/H

11331
NREAD
4 Mar 87

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

Dear Mr. McFadyen:

Enclosed are the completed Department of Health Forms (DHS 1942 2/74) for all water treatment plants aboard Marine Corps Base, Camp Lejeune for the period 1-28 February 1987. Also enclosed are the weekly Chemical Analysis Forms (MCECL 11330/3 Rev 3-82) for the same period, as requested in the 25 October 1982 letter from Mr. Charles Rundgren of your office.

One sample of the 3 February 1987 collection from the Holcomb Blvd. Water Treatment Plant was positive. On the membrane filter 45 colonies/100 ml were counted. Five colonies were picked off and run through Lauri Trypose Broth Tubes and Brilliant Green Bile Broth tubes. All five were confirmed to be coliforms. Check samples were collected on 4 and 5 February 1987 and were negative.

Although only nine samples are required of the Holcomb Blvd. System, 28 were collected in February 1987. Our determination of the enclosed data is that the contaminated sample was not a representative sample. It is requested that one of the 19 extra samples be submitted for the contaminated sample in computing the coliform density. This request is based on rules and regulations of the Safe Drinking Water Act published in the Federal Register, Volume 45, Number 168, dated 27 August 1980.

The analysis is run by the Environmental Chemistry and Microbiology Laboratory, located in the Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities. Ms. Betz, Supervisory Chemist, Environmental Chemistry and Microbiology Laboratory, telephone (919) 451-5977, is the point of contact in this matter.

Sincerely,

JULIAN I. WOOTEN
Director, Natural Resources Division
By direction of the Commanding General

Encls: (1) Dept of Health Forms
(2) Chemical Analysis Forms

Writer/Typist Betz / Miano
Date Typed 4 Mar 87
Word Processor Number 11331

Copy to:
LANTNAVFACENGCOM (Code 114)

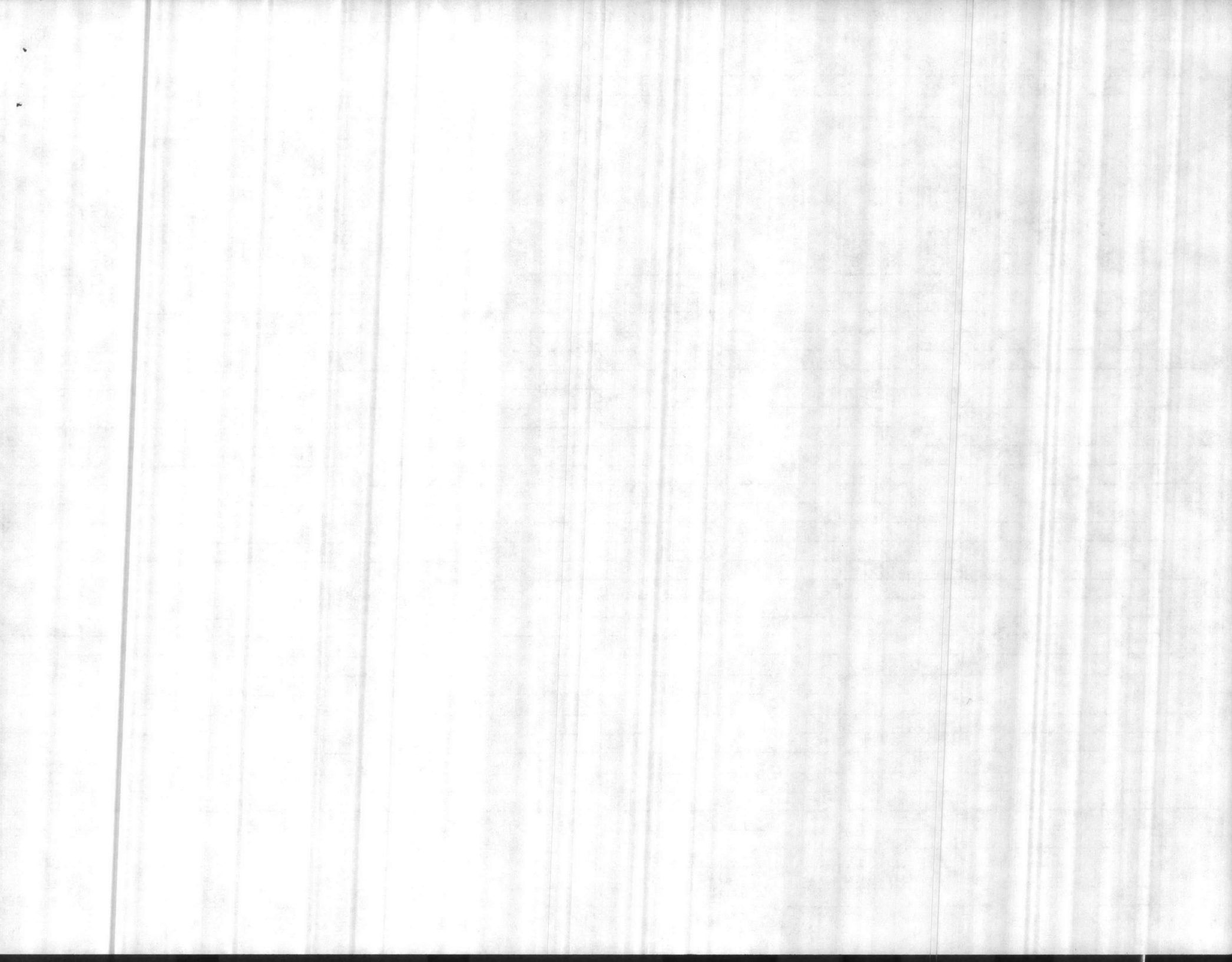
Blind copy to: BMO (Attn: Util Dir), Supvy Chem (2)

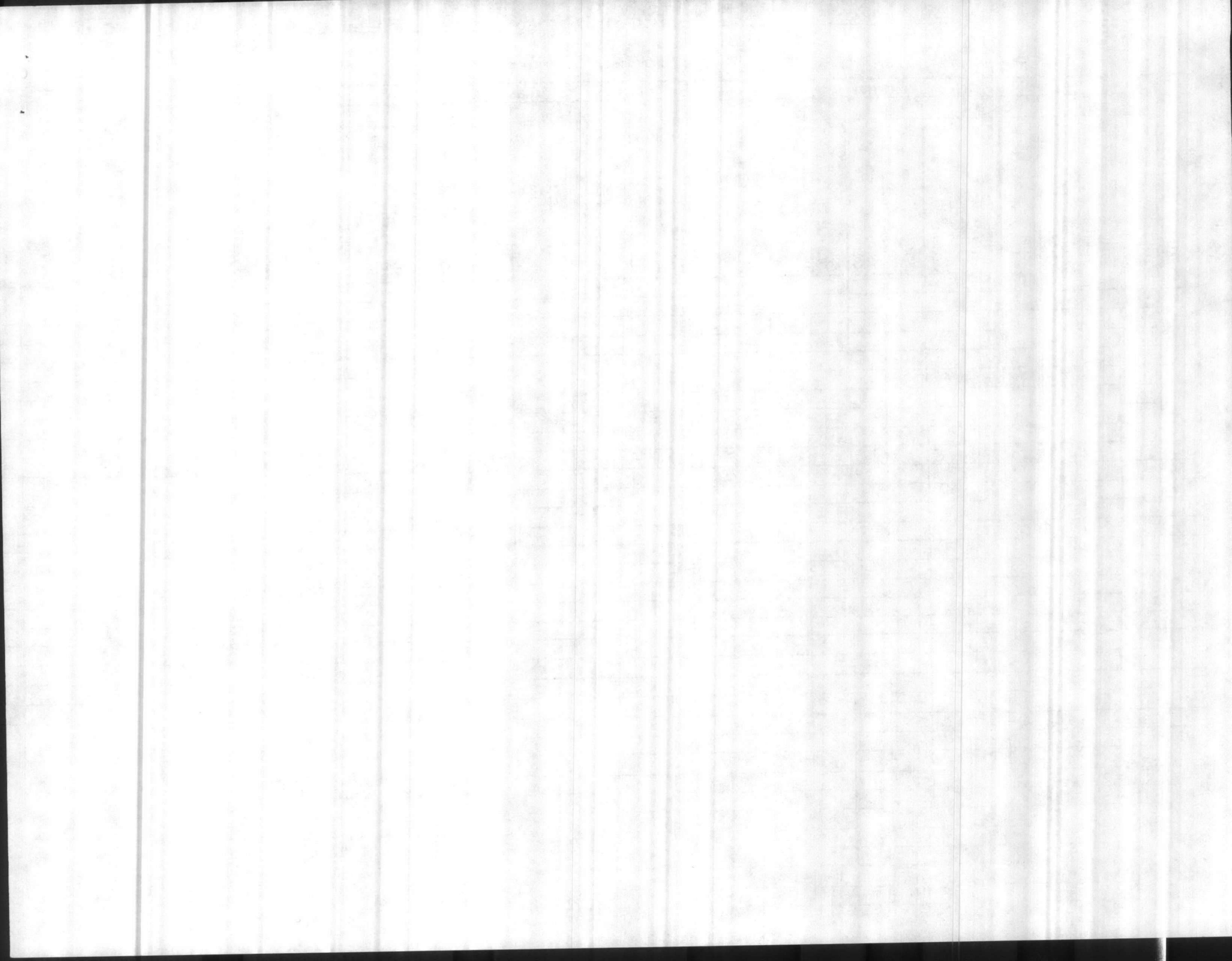
47

Word Processor Number: 11831
Date: 1/1/81
Word Processor: 11831

5096
Safe Drinking Water Act

Site: [illegible]
Date: [illegible]





DATE FEBRUARY
 YEAR 1987

HOLCOMB BLVD

MEMBRANE FILTER PROCEDURE
 WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
 Contaminant Code: 3000

Serial # 04-67-043

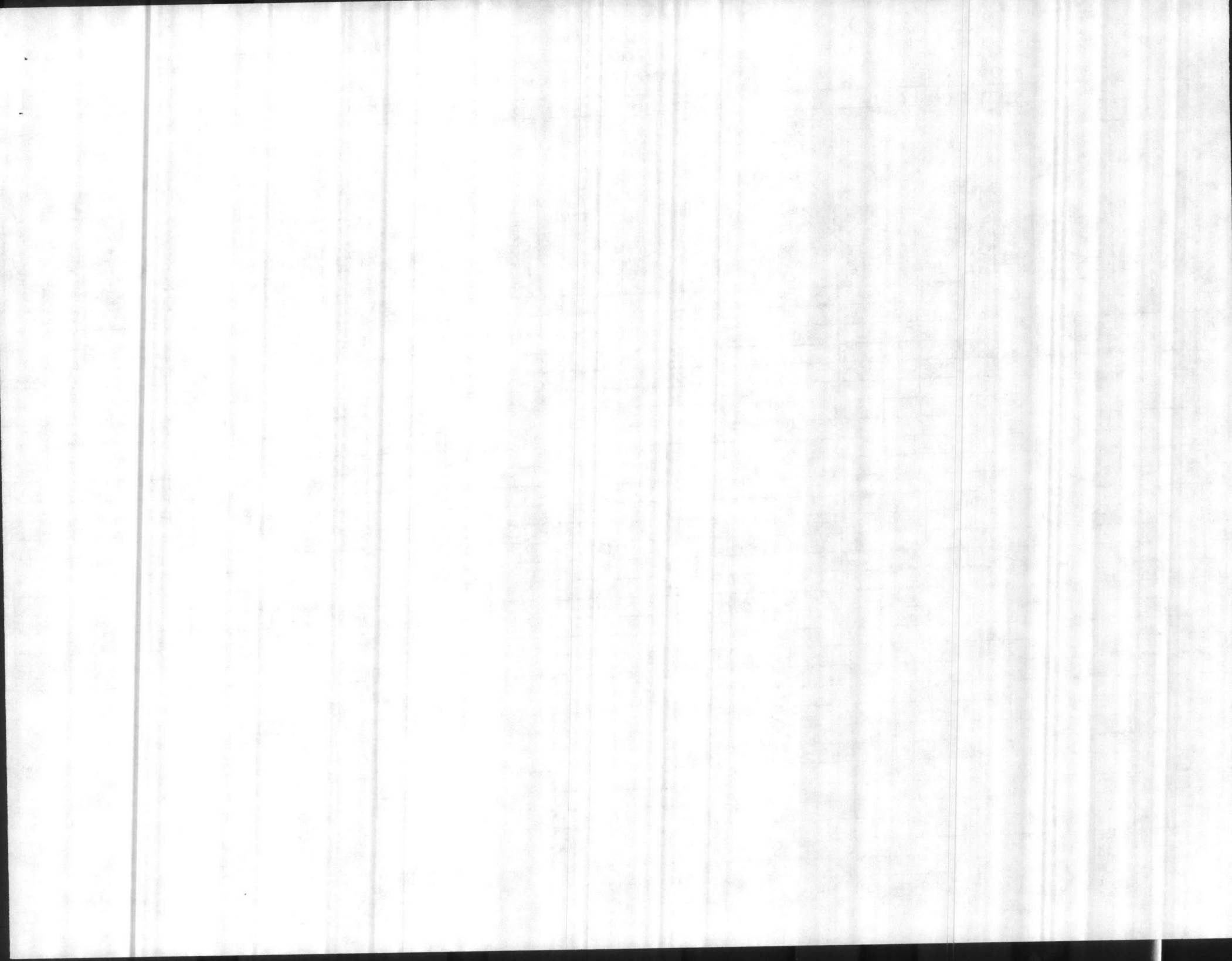
REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
 N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED		FINISHED		TOTAL PLATE COUNT	DISTRIBUTION SYSTEM										INCUBATOR TEMP.		
	A			B			C				TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.		COLIFORMS (MFP)					REPEAT SAMPLES							
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES							1	2	3	4	5	ON	OV	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.			
1																												
2																												
3																												
4																												
5															643	7	45	0	0	0	0	0	0			0	0	35
6																												
7																												
8																												
9																												
10																												
11																												
12															0	7	0	0	0	0	0	0	0	0	0		0	35
13																												
14																												
15																												
16																												
17																												
18																												
19															0	7	0	0	0	0	0	0	0	0	0		0	35.5
20																												
21																												
22																												
23																												
24																												
25																												
26															0	7	0	0	0	0	0	0	0	0	0		0	35
27																												
28																												
29																												
30																												

MP MEDIA
 TPC MEDIA
 RRI mEndo
 BACTERIAL DENSITY
 ARITH. MEAN
 GEO. MEAN

LAB ID # 37307

6661
 1-124
 DIST. SYSTEM
 TOTAL NO. SAMPLES
 SAMPLES EXCEEDING 3/30 (4/100) 7/200 13/5000 1
 28



Month FEBRUARY

TARAWA TERRACE

MEMORANDUM FILTER PROCEDURE
WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

Year 1937

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 300

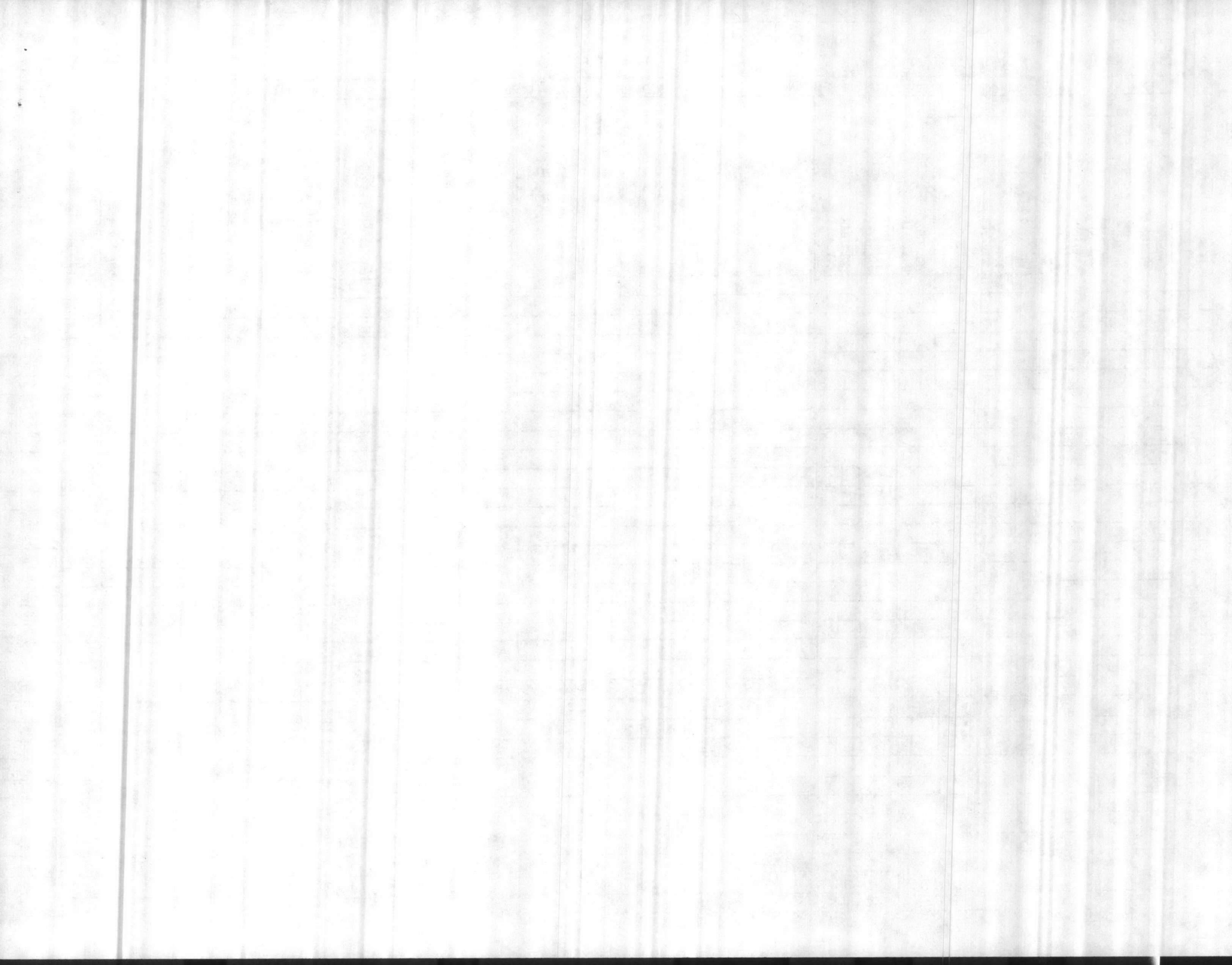
Serial # 04-67-044

N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	DISTRIBUTION SYSTEM										INCUBATOR TEMP.				
	A			B			C						COLIFORMS (MFP)					REPEAT SAMPLES									
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES				AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED	1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.					
1																											
2																											
3																											
4														0	4	0	0	0	0	0	0	0	0	0	0	35	
5																											
6																											
7																											
8																											
9																											
10														0	4	0	0	0	0	0	0	0	0	0	0	35	
11																											
12																											
13																											
14																											
15																											
16																											
17														0	4	0	0	0	0	0	0	0	0	0	0	35	
18																											
19																											
20																											
21																											
22																											
23																											
24														0	4	0	0	0	0	0	0	0	0	0	0	35	
25																											
26																											
27																											
28																											
29																											
30																											
31																											
MF MEDIA	BBL mEndo			BACTERIAL DENSITY		ARITH. MEAN		GEO. MEAN						0	DIST. SYSTEM	TOTAL NO. SAMPLES											16
TPC MEDIA														10		SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500 ml											0

LAB ID # 37807

Elizabeth A. Butz B. Wood 4087-W



Month FEBRUARY

CAMP JOHNSON

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

Year 1937

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 300

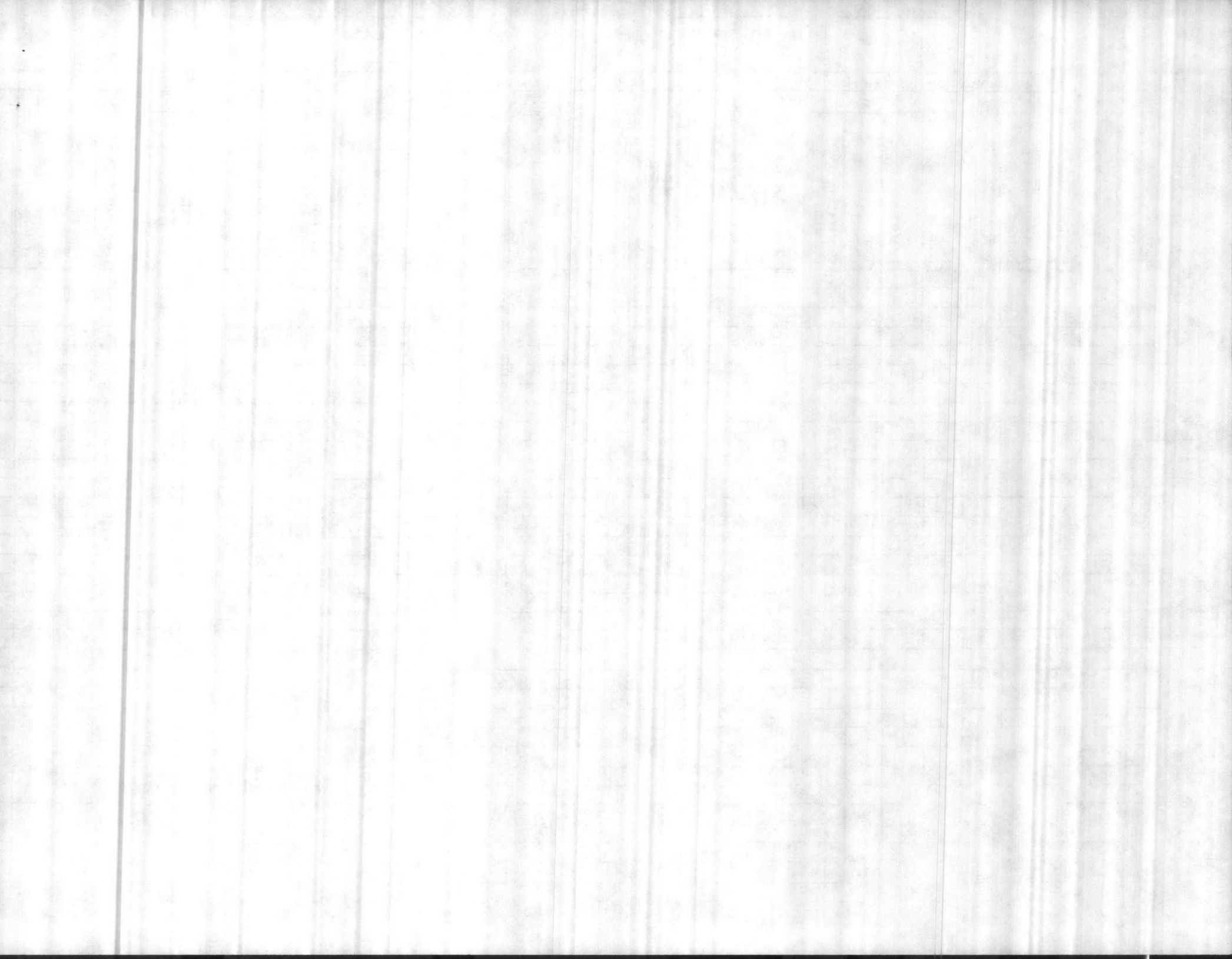
Serial # 04-67-045

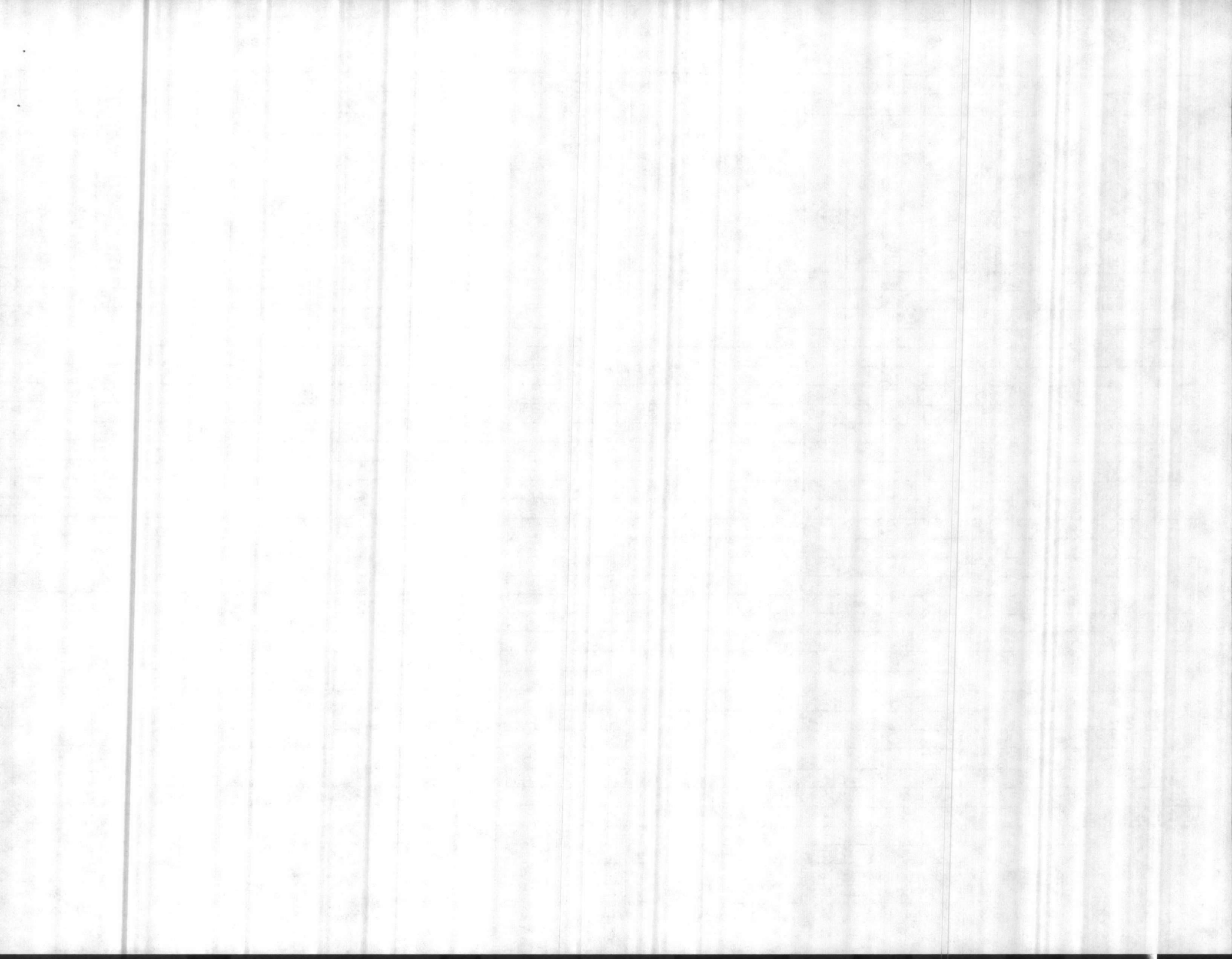
N. C. DEPARTMENT OF HUMAN RESOURCES

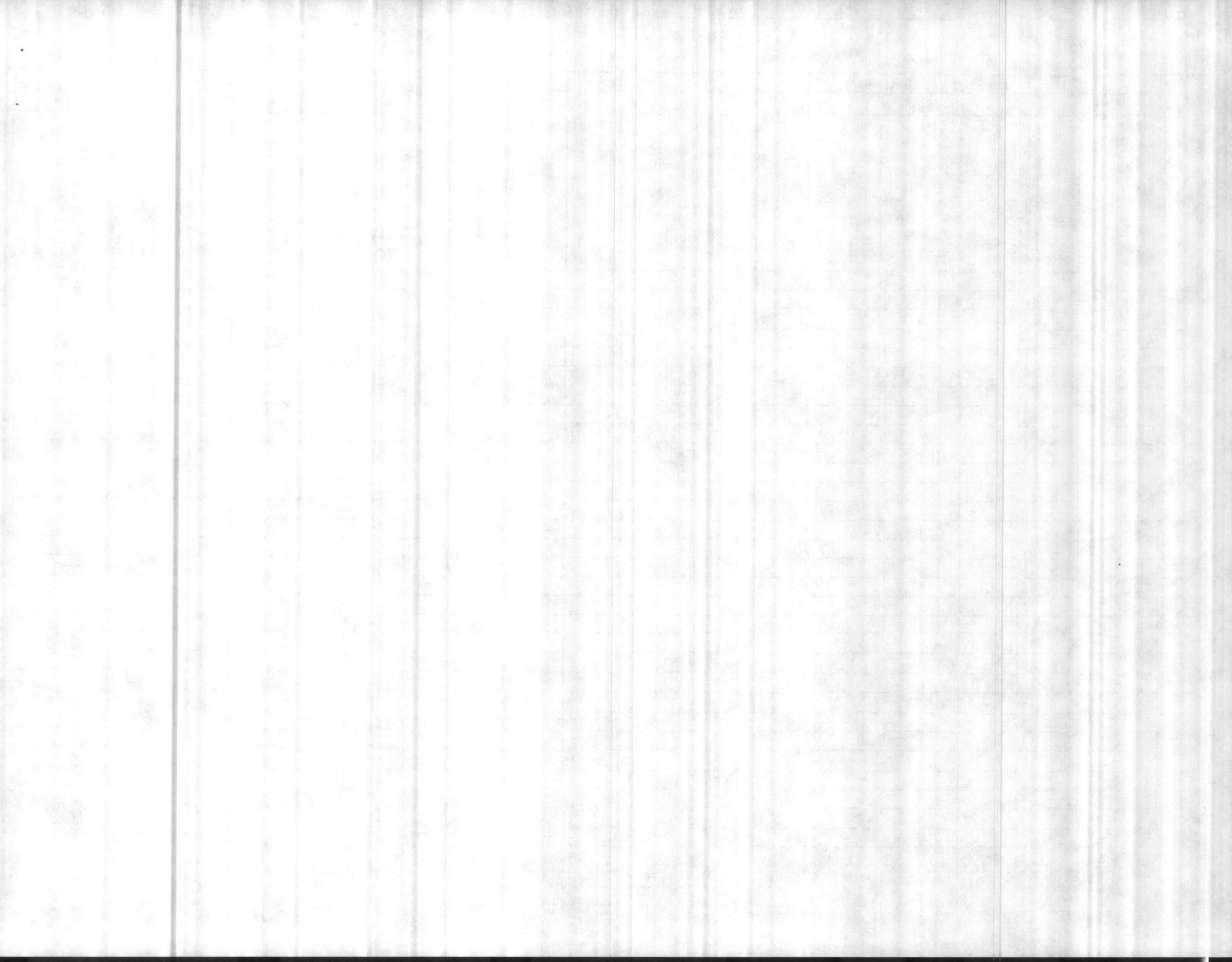
DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	FILTERED	MFP COLIFORMS per 100 ml.	FINISHED	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM					REPEAT SAMPLES		
	A		B		C									COLIFORMS (MFP)					REPEAT SAMPLES		
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES								1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
1																					
2																					
3																					
4													0	N	0	0					
5																					
6																					
7																					
8																					
9																					
10													0	N	0	0					
11																					
12																					
13																					
14																					
15																					
16																					
17													0	2	0		0				
18																					
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22																					
23																					
24													0	2	0		0				
25																					
26																					
27																					
28																					
29																					
30																					
31																					
MFP MEDIA		RBL mEndo		BACTERIAL DENSITY		ARITH. MEAN															
TPC MEDIA						GEO. MEAN															

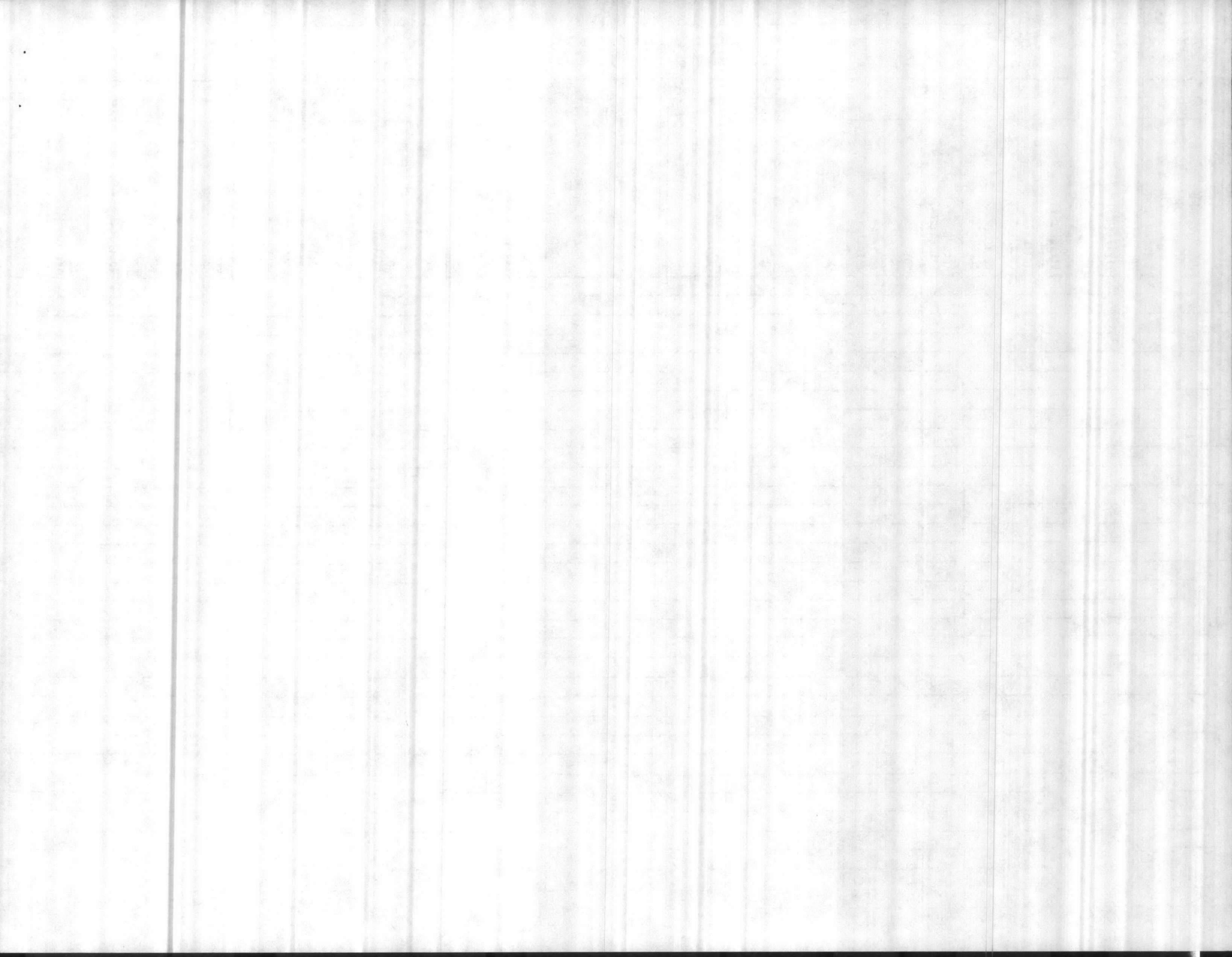
LAB ID # 37807

0 1.0 DIST. SYSTEM TOTAL NO. SAMPLES 8
 SAMPLES EXCEEDING 3/50. 4/100. 7/200. 13/500ml 0
 Ryeleth O. B. B-WELL 4087-W









CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330 3 (REV. 6-84)

DATE COLLECTED
 2-3-87

DATE OF ANALYSIS
 2-3-87

PARAMETER SERIAL #04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	8.4	7.2	8.4	7.4	7.9	8.0	8.3	8.5
PHENOLTHALEIN ALKALINITY	4	0	4	0	0	0	0	10
METHYL ORANGE ALKALINITY	56	174	50	174	178	168	74	144
CARBONATES AS CaCO ₃	8	0	8	0	0	0	0	20
BICARBONATES AS CaCO ₃	48	174	42	174	178	168	74	124
CHLORIDES AS Cl	12	12	16	18	18	48	10	56
HARDNESS AS CaCO ₃	62	68	74	52	60	62	76	54
IRON AS Fe	20.04	0.21	0.06	0.17	20.04	20.04	20.04	0.05
FLUORIDE	Am 1.17 Pm 1.21	0.14	0.76 0.79	0.13	0.10	0.09	1.00 1.04	0.53
CHLORINE RESIDUAL	1.0	1.2	1.0	1.5	1.3	1.0	1.0	1.0
TURBIDITY	Am 0.9 Pm 1.1	1.7	0.8 1.5	1.1	1.2	0.9	0.9 3.2	1.6
TOTAL PHOSPHATE		3.0						
ORTHO PHOSPHATE		1.2						
META PHOSPHATE		1.8						
STABILITY	+0.6	-0.7	+0.6	-0.7	-0.1	-0.1	+0.2	+0.1

REMARKS

COPY TO

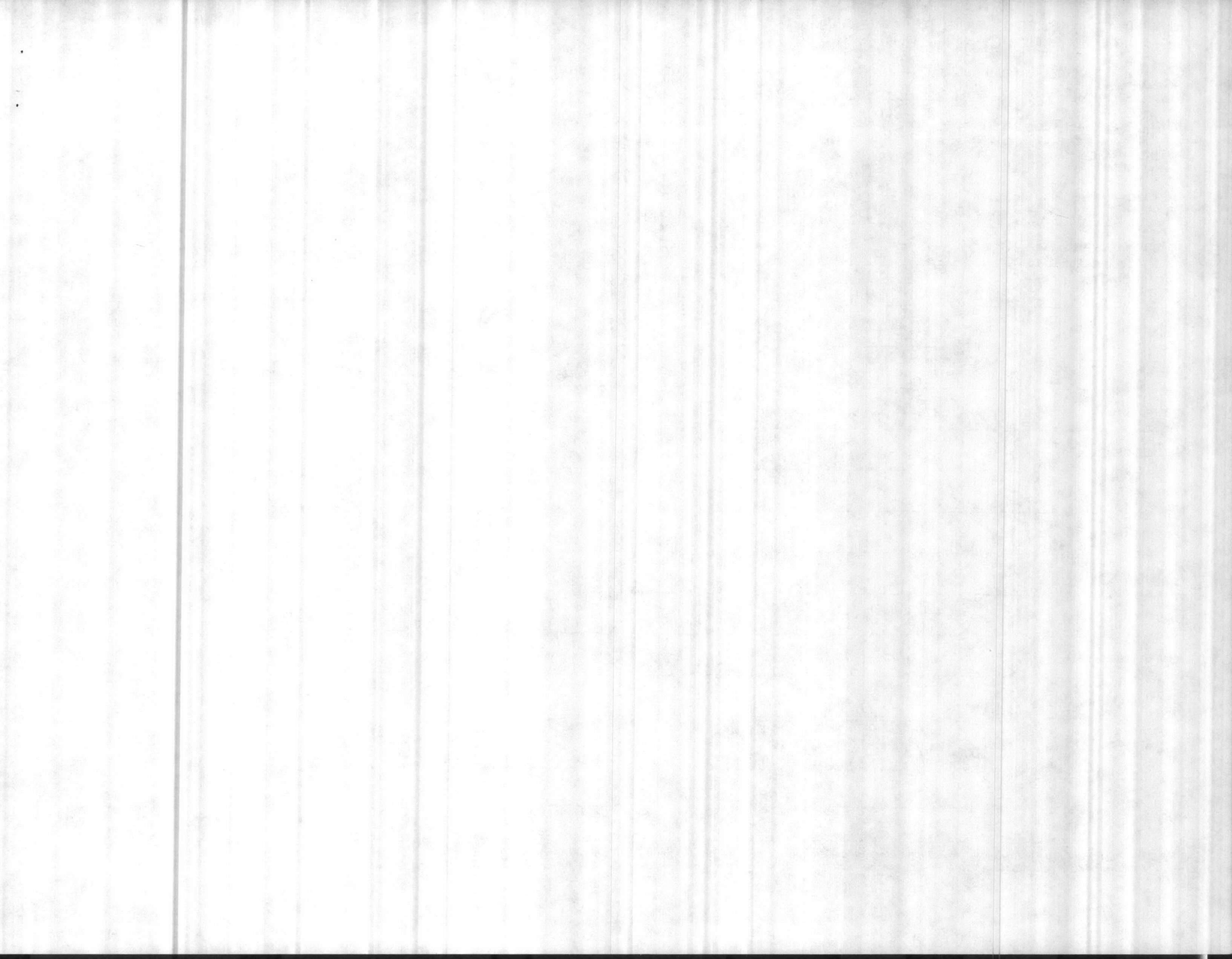
- UTIL DIR
- WATER TREATMENT
- PMU MCGAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

L. Lane & H. Burns

DATE RESULT 2/3/87



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

2-10-87

DATE OF ANALYSIS

2-10-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
SERIAL #04-67	-041	-045	-044	-048	-047	-046	-043	-042
PH (IN LAB NOT PLANT)	8.5	7.4	9.3	7.5	8.2	8.2	NO SAMPLE	8.8
PHENOLTHALEIN ALKALINITY	6	0	16	0	0	0	-	12
METHYL ORANGE ALKALINITY	60	180	36	166	174	160	-	146
CARBONATES AS CaCO ₃	12	0	32	0	0	0	-	24
BICARBONATES AS CaCO ₃	48	180	4	166	174	160	-	120
CHLORIDES AS Cl	12	10	16	20	18	50	-	60
HARDNESS AS CaCO ₃	66	64	62	62	54	54	-	50
IRON AS Fe	-	AA	DOWN	-	-	-	-	-
FLUORIDE	AM 0.82 PM 0.85	0.12	0.83 0.71	0.13	0.11	0.09	-	0.54
CHLORINE RESIDUAL	1.0	1.1	1.0	1.0	1.3	0.8	-	0.8
TURBIDITY	AM 1.9 PM 0.9	1.0	7.8 2.4	0.9	1.1	0.7	-	1.0
TOTAL PHOSPHATE		1.70						
ORTHO PHOSPHATE		1.00						
META PHOSPHATE		0.70						
STABILITY	+0.4	-0.7	+0.8	-0.6	0.0	0.0	-	+0.3

REMARKS

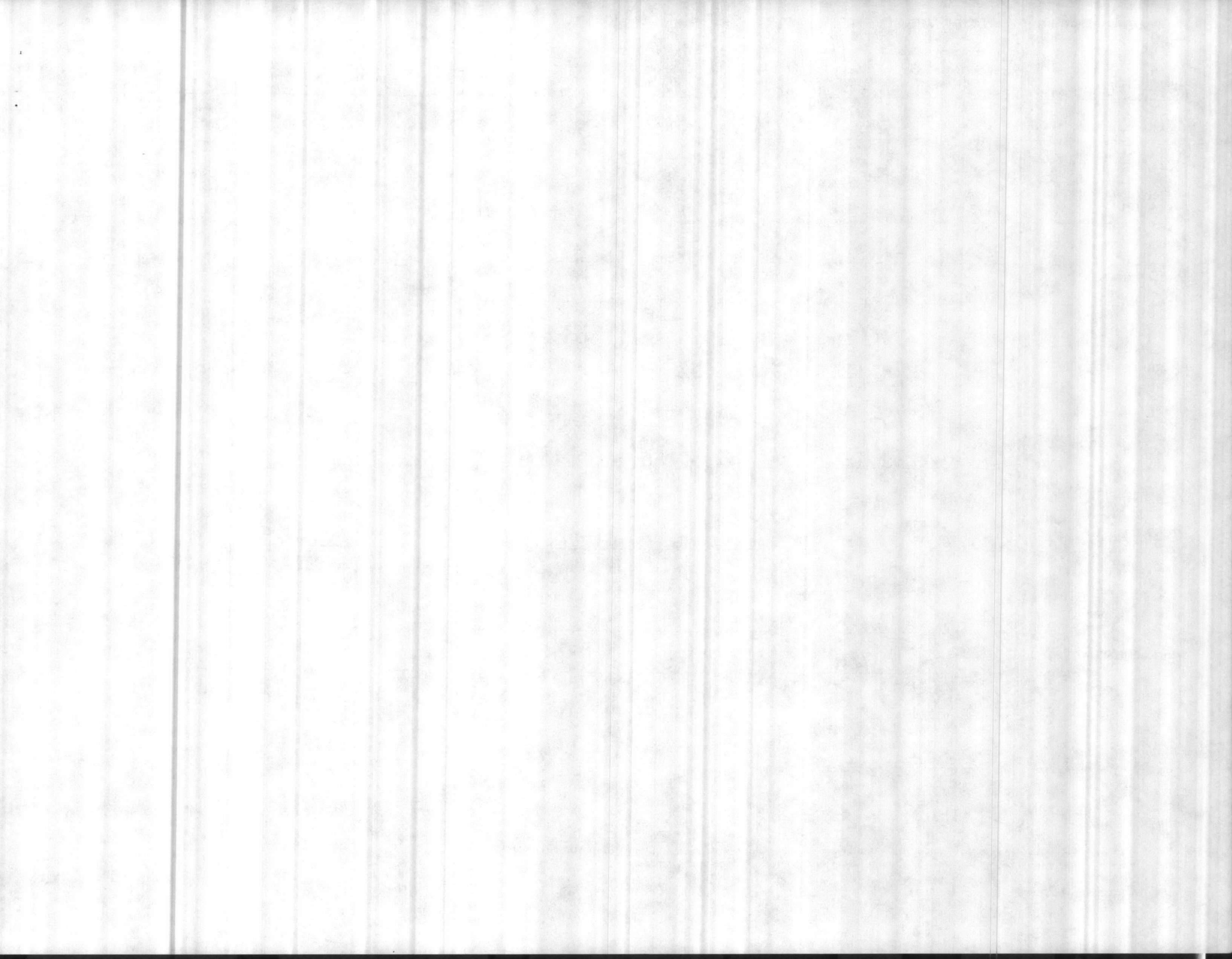
COPY TO

- UTIL DIR
- WATER TREATMENT
- PMU MCAS PMU
- NIPAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

L. KANE + BURNS



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330:3 (REV. 6-84)

DATE COLLECTED
2-17-87

DATE OF ANALYSIS
2-17-87

PARAMETER SERIAL#04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	9.3	8.0	9.7	7.9	8.6	8.7	NO SAMPLE	9.2
PHENOLTHALEIN ALKALINITY	8	0	20	0	6	6	—	20
METHYL ORANGE ALKALINITY	52	184	58	170	178	174	—	150
CARBONATES AS CaCO ₃	16	0	40	0	12	12	—	40
BICARBONATES AS CaCO ₃	36	184	18	170	166	162	—	110
CHLORIDES AS Cl	14	14	20	174	20	50	—	52
HARDNESS AS CaCO ₃	66	56	66	70	54	56	—	56
IRON AS Fe	—	—	A.A.	DOWN	—	—	—	—
FLUORIDE	Am 0.76 Pm 0.86	0.15	0.76 0.67	0.14	0.19	0.09	—	0.51
CHLORINE RESIDUAL	0.9	1.2	1.0	1.5	1.5	1.0	+	0.9
TURBIDITY	Am 1.7 Pm 1.6	3.3	2.0 4.1	3.1	1.2	1.4	—	1.4
TOTAL PHOSPHATE		2.4						
ORTHO PHOSPHATE		1.1						
META PHOSPHATE		1.3						
STABILITY	+1.3	-0.6	+2.0	-0.8	-0.2	0.0		0.5

REMARKS

COPY TO

- UTIL DIR
- WATER TREATMENT
- PMU MCAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

L. LANE & BURNS

CHEMICAL ANALYSIS WATER TREATMENT PLANTS

PARAMETER	WATER POINT	CAMP JOHNSON	TRIA	NEW BEACH	COURTNO
PH (in Lab + in Plant)	7.4	7.4	7.4	7.4	7.4
ALKALINITY	1	0	4	0	0
ALKALINITY ORANGE	14	13.5	4	12.4	12.4
CARBONATE HARDNESS	2	0	2	0	0
BICARBONATE	1.6	1.5	2.1	1.3	1.3
CHLORIDE	16	15	11	20	16
HARDNESS	18	15	13	20	16
IRON				AA	Down
FLUORIDE	1.16	0.17	1.1	0.2	0.1
CHLORIDE	1.1	1.5	1.1	1.1	1.1
ALKALINITY	1.1	1.1	1.1	1.1	1.1
TOTAL PHOSPHATE		5.4			
ORTHOPHOSPHATE		1.0			
METAPHOSPHATE		4.4			
STABILITY	-0.8	-0.2	1.1	-0.2	+0.1

DATE: 12/11/11

TIME: 11:00 AM

BY: [Signature]

NO. 1

1

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1

NOTE: All results reported in this report are based on the following methods: pH - 1589, Alkalinity - 1589, Chloride - 1589, Fluoride - 1589, Iron - 1589, Phosphate - 1589, Stability - 1589.

M. B.

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330.3 (REV. 6-84)

DATE COLLECTED
2-17-87

DATE OF ANALYSIS
2-17-87

PARAMETER SERIAL #04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ON SLOW BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	9.3	8.0	9.7	7.9	8.6	8.7	NO SAMPLE	9.2
PHENOLTHALEIN ALKALINITY	8	0	20	0	6	6	—	20
METHYL ORANGE ALKALINITY	52	184	58	170	178	174	—	150
CARBONATES AS CaCO ₃	16	0	40	0	12	12	—	40
BICARBONATES AS CaCO ₃	36	184	18	170	166	162	—	110
CHLORIDES AS Cl	14	14	20	174	20	50	—	52
HARDNESS AS CaCO ₃	66	56	66	70	54	56	—	56
IRON AS Fe	—	—	A.A.	DOWN	—	—	—	—
FLUORIDE	Am 0.76 Pm 0.86	0.15	0.76 0.67	0.14	0.10	0.09	—	0.51
CHLORINE RESIDUAL	0.9	1.2	1.0	1.5	1.5	1.0	+	0.9
TURBIDITY	Am 1.7 Pm 1.6	3.3	2.0 4.1	3.1	1.2	1.4	—	1.4
TOTAL PHOSPHATE		2.4						
ORTHO PHOSPHATE		1.1						
META PHOSPHATE		1.3						
STABILITY	+1.3	-0.6	+2.0	-0.8	-0.2	0.0		0.5

REMARKS

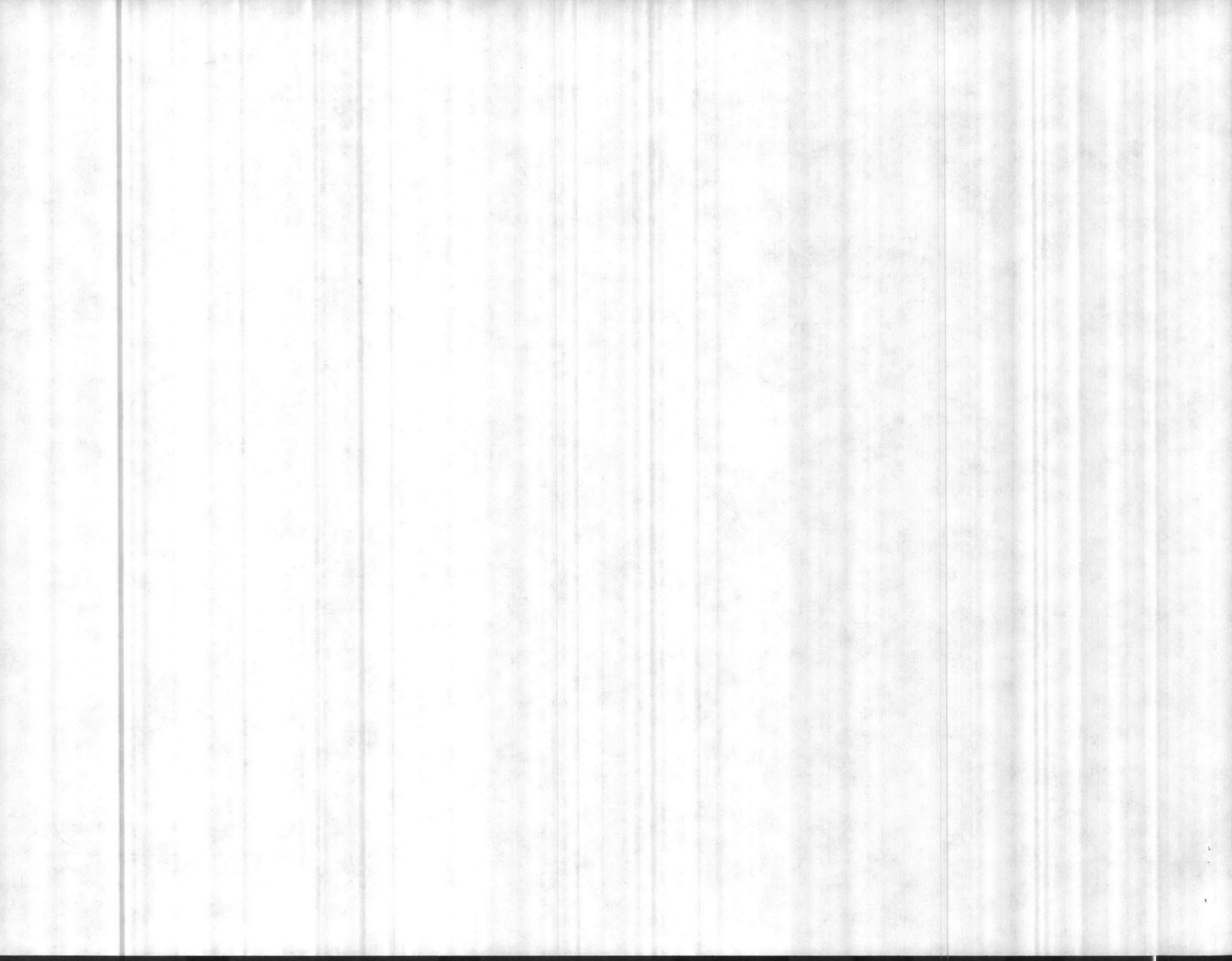
COPY TO

- UTIL DIR
- WATER TREATMENT
- PMU MCAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

L. LANE & BURNS



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

2-24-87

DATE OF ANALYSIS

2-24-87

PARAMETER SERIAL #04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ONSLow BEACH -043	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043 NO	NEW RIVER -042
PH (IN LAB NOT PLANT)	8.4	7.4	9.0	7.4	8.2	8.3	SAMPLE	8.9
PHENOLTHALEIN ALKALINITY	4	0	4	0	0	4	↑	20
METHYL ORANGE ALKALINITY	74	176	44	156	174	154		148
CARBONATES AS CaCO ₃	8	0	8	0	0	8		40
BICARBONATES AS CaCO ₃	66	176	36	156	174	146		108
CHLORIDES AS Cl	16	12	16	20	16	44		56
HARDNESS AS CaCO ₃	68	62	64	54	60	64		70
IRON AS Fe	← AA DOWN →							
FLUORIDE Am	1.14		1.60					
FLUORIDE Pm	1.16	0.17	1.47	0.15	0.12	0.10		0.55
CHLORINE RESIDUAL	1.1	1.2	1.0	1.1	1.4	1.0		0.8
TURBIDITY Am	0.7		1.9					
TURBIDITY Pm	1.1	1.1	1.9	0.6	0.3	1.0		0.7
TOTAL PHOSPHATE		2.4						
ORTHO PHOSPHATE		1.0						
META PHOSPHATE		1.4						
STABILITY	+0.8	-0.5	+1.4	-0.5	+0.1	+0.5	↓	+0.8

REMARKS

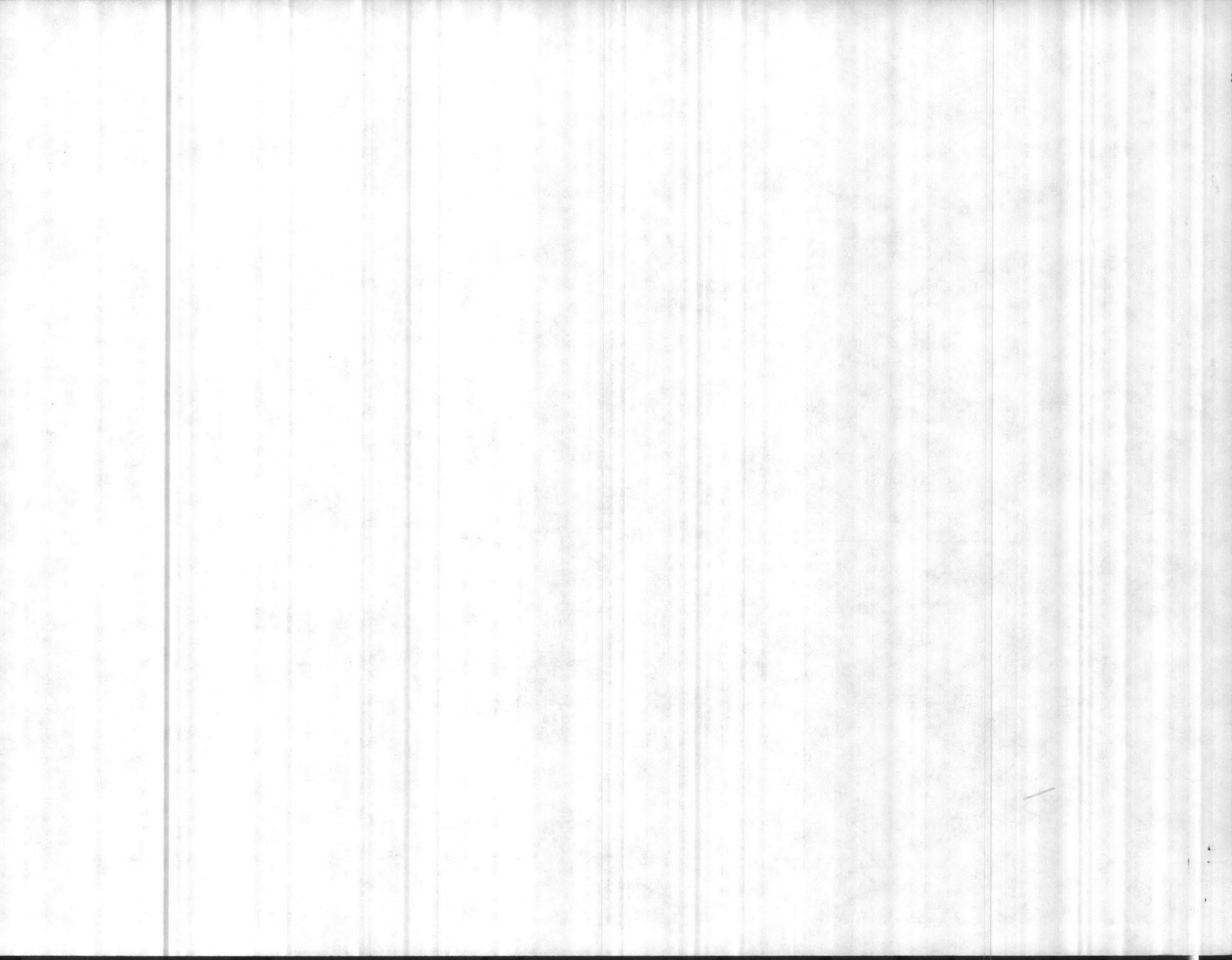
COPY TO

- UTIL DIR
- WATER TREATMENT
- PMU MCAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

H. Burns + L. Lane.



5096
~~TOP SECRET~~11333/1
NREAD
3 Apr 87

Mr. Wallace E. Venrick
Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Mr. Venrick:

Enclosures (1), (2) and (3) are the Trihalomethane analysis of the Hadnot Point (HP) Water Treatment Plant, ID No. 04-67-041 the Marine Corps Air Station (MCAS), New River Water Treatment Plant, ID No. 04-67-042, and the Holcomb Blvd (HB) Water Treatment Plant, ID No. 04-67-043. All samples were collected by the Environmental Chemistry and Microbiology Laboratory personnel and analyzed by Industrial and Environmental Analysts, Incorporated.

Point of contact in this matter is Ms. Elizabeth Betz, (919) 451-5977.

Sincerely,

J. I. WOOTEN, Director
Natural Resources Division
By direction of the Commanding General

Encls:

- (1) TTHM Analysis for HP
- (2) TTHM Analysis for MCAS
- (3) TTHM Analysis for HB

Copy to:
LANTDIV

Blind copy to:
EC & ML (2)
BMO (Util Dir)

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

5300 S. DICKINSON DRIVE

CHICAGO, ILLINOIS 60637

TEL: 773-936-3700

FAX: 773-936-3700

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PHYSICS 101

PHYSICS 102

PHYSICS 103

PHYSICS 104

PHYSICS 105

PHYSICS 106

PHYSICS 107

PHYSICS 108

PHYSICS 109

PHYSICS 110

37720
C. Lab. ID



Industrial & Environmental Analysts, Inc
P.O. Box 12542 • Research Triangle Park, NC 27709 • 919 467-9000

WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 04 1 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: HADNOT POINT SOURCE OF WATER:
 GROUND () BOTH
 ADDRESS: COMMANDING GENERAL, MCB
CAMPLEJEUNE, NC ZIP 28542 () SURFACE () PURCHASED

COUNTY: ONSLow TYPE OF TREATMENT:
 REPORT TO: AC/S FACILITIES (NREAD) () NONE LIME
 ADDRESS: SAME AS ABOVE CHLORINATED () SODA ASH
ZIP FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 () PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): BLDG FC-580

DATE COLLECTED: 17 MARCH 1987 TIME COLLECTED: 1220 am pm

COLLECTED BY: Env. Chem + Micro. LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

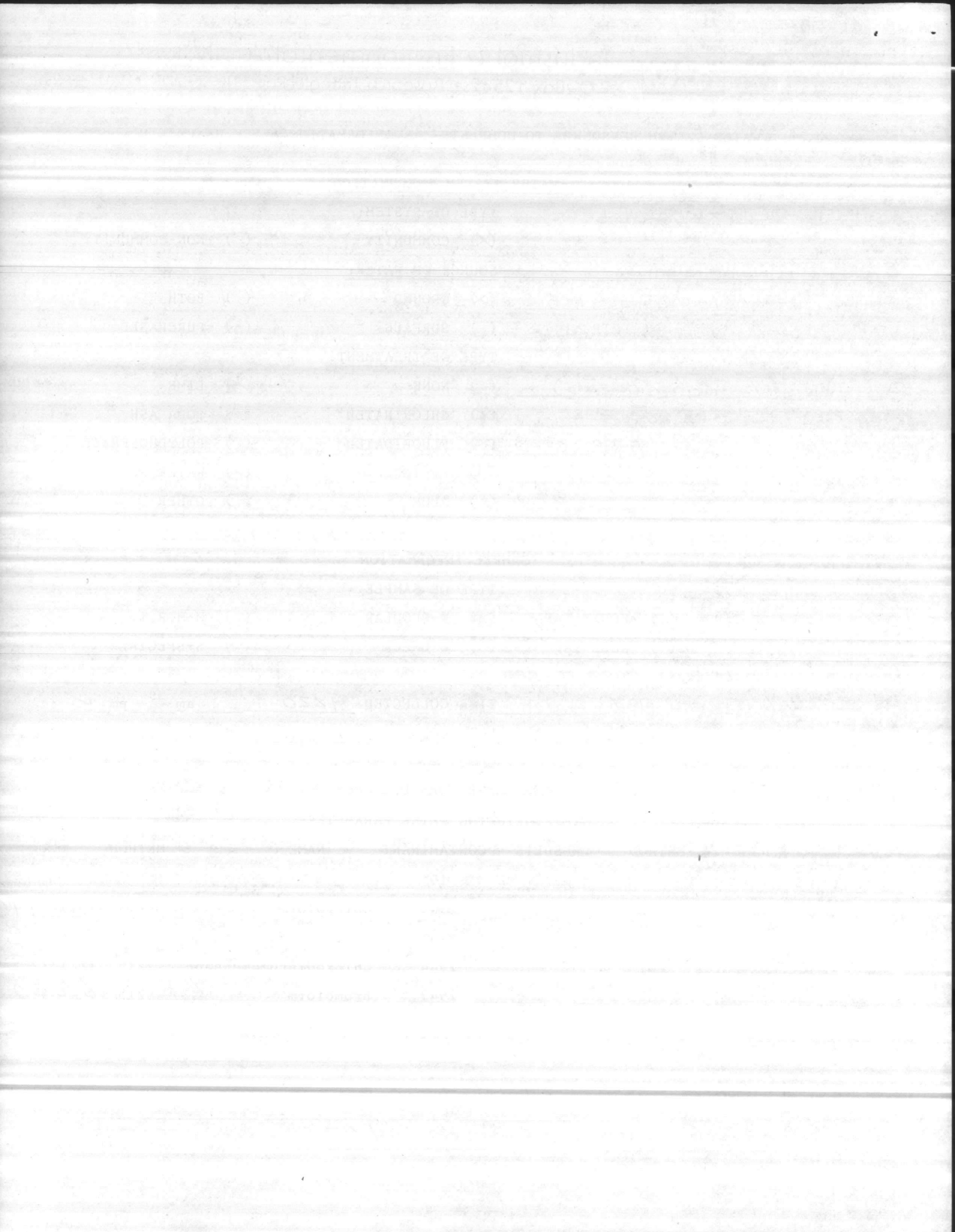
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	_____	2941	Chloroform	215	0.011
2010	Lindane	201	_____	2943	Bromodichloromethane	215	0.008
2015	Methoxychlor	201	_____	2944	Chlorodibromomethane	215	0.005
2020	Toxaphene	201	_____	2942	Bromoform	215	0.002
2105	2, 4-D	203	_____	2950	Total THM	215	0.026
2110	2, 4, 5-TP	203	_____				

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Folk
 DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-6

REMARKS:

ENCL (1)



37220
C. Lab. ID



Industrial & Environmental Analysts, Inc.
P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919

WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: NAVY CORPS AIR STATION SOURCE OF WATER:
 GROUND () BOTH
 SURFACE () PURCHASED

ADDRESS: COMMANDING GENERAL MCB
CAMP LEJEUNE, NC ZIP 28542

COUNTY: ONSCOW TYPE OF TREATMENT:
 NONE LIME
 CHLORINATED () SODA ASH
 FLUORIDATED () POLYPHOSPHATE
 FILTERED WATER SOFTNER
 ALUM () OTHER

REPORT TO: N/C FACILITIES (NREAD)

ADDRESS: SAME AS ABOVE ZIP _____

TELEPHONE: (919) 451-5777

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): BLDG AS-110 WATER TREATMENT PLANT

DATE COLLECTED: 17 MARCH 1987 TIME COLLECTED: 1020 am pm

COLLECTED BY: ENV. CHEM + MICRO LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

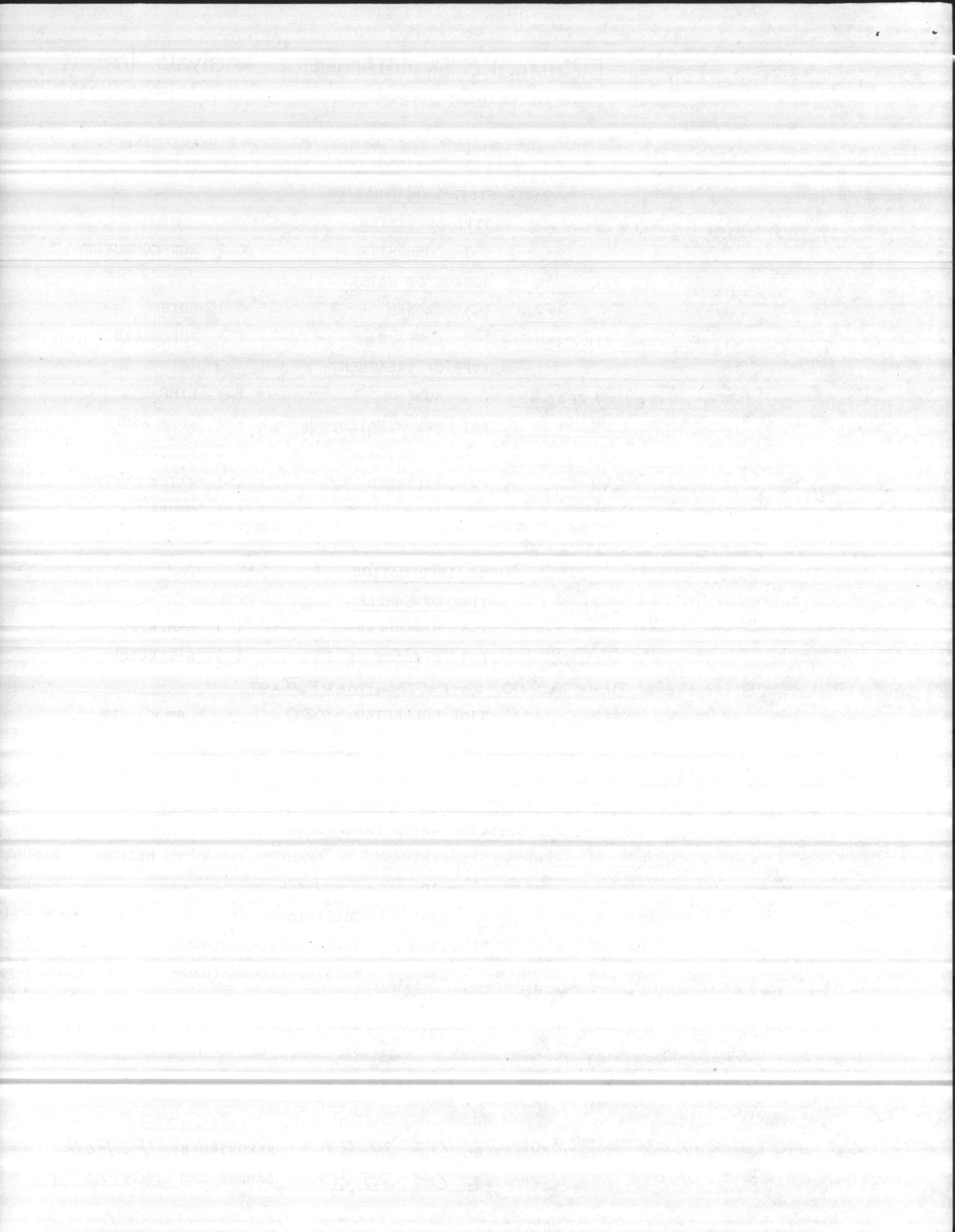
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.006
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.008
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.018
2020	Toxaphene	201	---	2942	Bromoform	215	0.036
2105	2, 4-D	203	---	2950	Total THM	215	0.068
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Folk
DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-1

REMARKS:

Encl (2)



37780
C. Lab. ID



Industrial & Environmental Analysts, Inc.
P.O. Box 12542 • Research Triangle Park, NC, 27709 • 919-467-9919



ENTER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: NAVY CORPS AIR STATION SOURCE OF WATER:
 GROUND () BOTH
 SURFACE () PURCHASED

ADDRESS: COMMANDING GENERAL MCB
CAMP LEJEUNE, NC ZIP 28542

COUNTY: ONSONG TYPE OF TREATMENT:
 NONE LIME
 CHLORINATED () SODA ASH
 FLUORIDATED () POLYPHOSPHATE

REPORT TO: NO. FACILITIES (NEED)
 FILTERED WATER SOFTNER
 ALUM () OTHER

ADDRESS: SAME AS ABOVE ZIP _____

TELEPHONE: (919) 451-5977

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): A5-4025

DATE COLLECTED: 17 March 1987 TIME COLLECTED: 1040 am pm

COLLECTED BY: Env. Chem + Micro LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

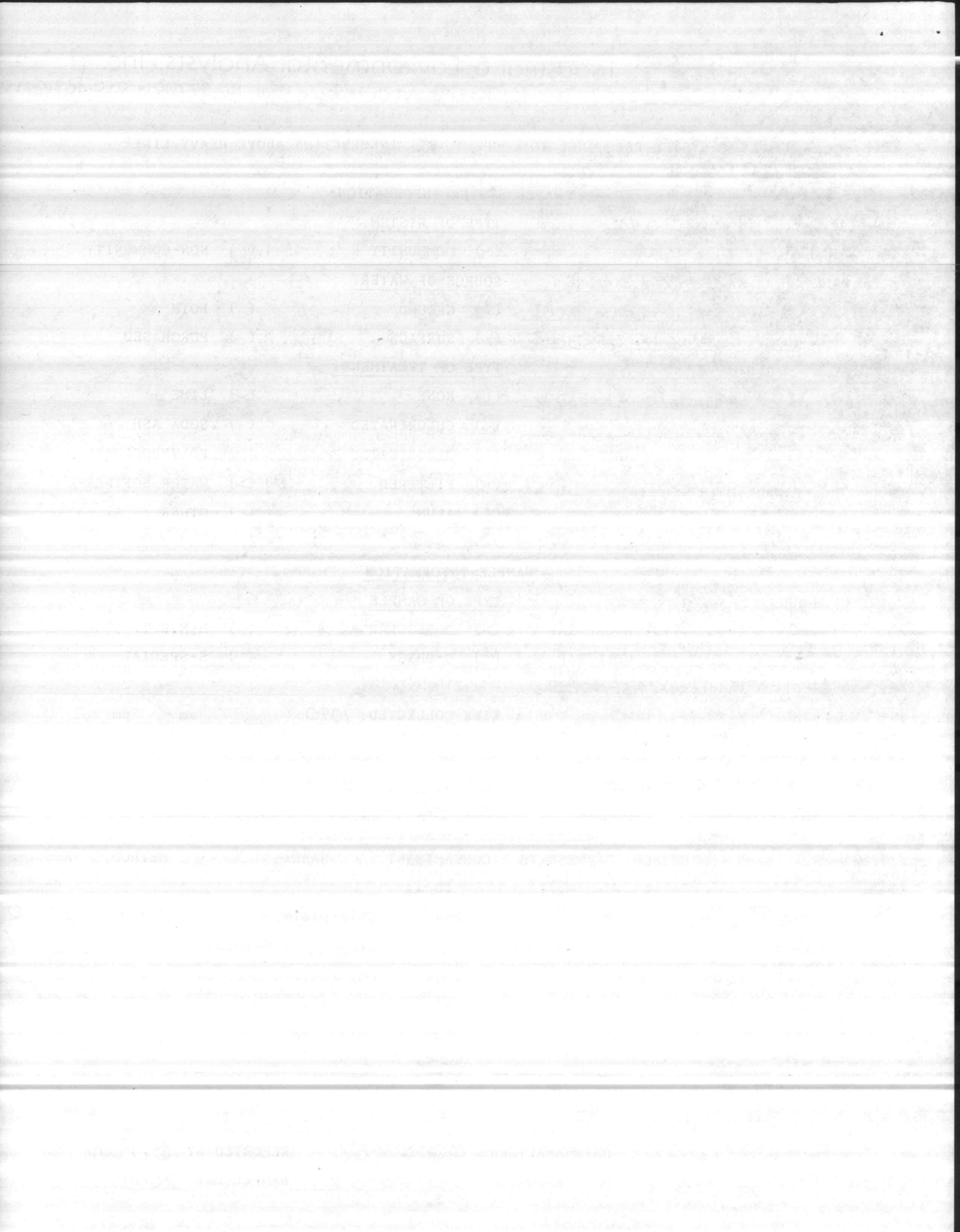
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.010
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.014
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.031
2020	Toxaphene	201	---	2942	Bromoform	215	0.057
2105	2, 4-D	203	---	2950	Total THM	215	0.412
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Follis
DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-4

REMARKS:

ENCL (2)





PLEASE SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY
 SYSTEM NAME: NAVY CORPS AIR STATION SOURCE OF WATER:
 ADDRESS: COMMANDING GENERAL MCB GROUND () BOTH
CAMP LEJEUNE, NC ZIP 28542 () SURFACE () PURCHASED
 COUNTY: ONSONG TYPE OF TREATMENT:
 REPORT TO: AC/3 FACILITIES (NREAD) () NONE LIME
 ADDRESS: SAME AS ABOVE CHLORINATED () SODA ASH
 _____ ZIP _____ () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 () PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL
 SAMPLING LOCATION (Address): BLDG A3-705
 DATE COLLECTED: 17 MARCH 1987 TIME COLLECTED: 11.35 am pm
 COLLECTED BY: ENV. CHEM + MICRO LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

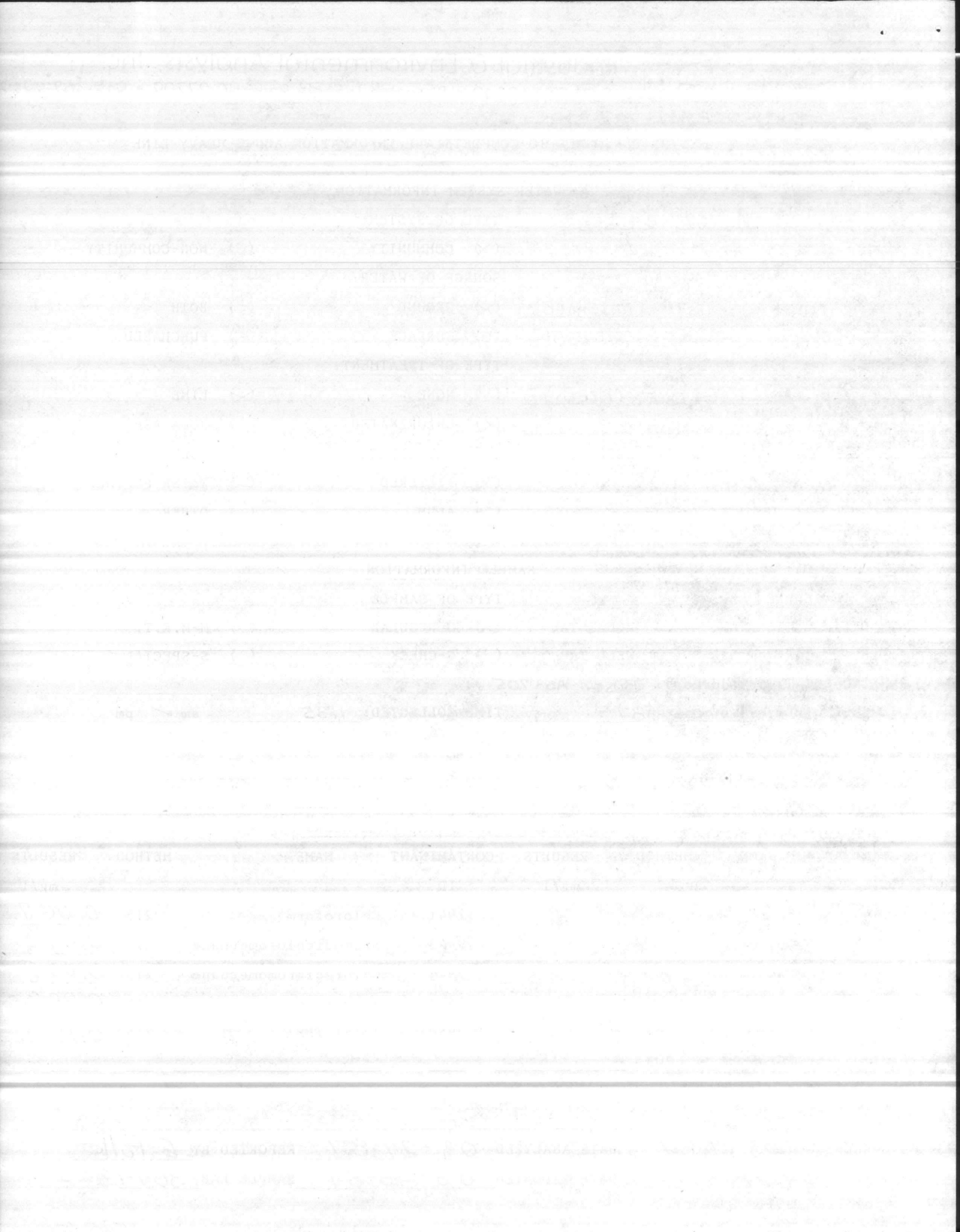
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.007
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.012
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.028
2020	Toxaphene	201	---	2942	Bromoform	215	0.053
2105	2, 4-D	203	---	2950	Total THM	215	0.100
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Folk
 DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-2

MARKS:

ENCL (2)





Industrial & Environmental Analysts, Inc.

P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919



WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY
 SYSTEM NAME: NAVY CORPS AIR STATION SOURCE OF WATER:
 ADDRESS: COMMANDING GENERAL MCB GROUND () BOTH
CAMP LEJEUNE NC ZIP 28542 () SURFACE () PURCHASED
 COUNTY: ONKAW TYPE OF TREATMENT:
 REPORT TO: NC'S FACILITIES (NREAD) () NONE LIME
 ADDRESS: SAME AS ABOVE CHLORINATED () SODA ASH
 ZIP _____ () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL
 SAMPLING LOCATION (Address): BLDG G-520
 DATE COLLECTED: 17 MARCH 1987 TIME COLLECTED: 1145 am pm
 COLLECTED BY: ENV. CHEM + MICRO LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	<u>0.007</u>
2010	Lindane	201	---	2943	Bromodichloromethane	215	<u>0.012</u>
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	<u>0.025</u>
2020	Toxaphene	201	---	2942	Bromoform	215	<u>0.048</u>
2105	2, 4-D	203	---	2950	Total THM	215	<u>0.092</u>
2110	2, 4, 5-TP	203	---				---

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Folk
 DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-7

REMARKS:

ENCL (2)

GENERAL INFORMATION

DATE OF SAMPLE

SOURCE OF WATER

DATE

TIME

LOCATION

SURFACE

TYPE OF TREATMENT

LINE

CHLORINATED

SOFTENED

FILTRATED

BOILED

OTHER

WATER

ANALYSIS

RESULTS

ANALYSIS INFORMATION

TEST METHOD

TESTER

LABORATORY

REFERENCE

REMARKS

COMMENTS

ADDITIONAL

NOTES

DATE

TIME

LOCATION

SURFACE

TYPE OF TREATMENT

CHLORINATED

FILTRATED

OTHER

ANALYSIS

TEST METHOD

TESTER

LABORATORY

REFERENCE

REMARKS

COMMENTS

Lab. ID



Industrial & Environmental Analysts, Inc.
P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9919



WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04-67-042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: PLANTINE CORP'S AIR STATION SOURCE OF WATER:
 GROUND () BOTH
 ADDRESS: COMMANDING GENERAL MCB
CAMP LEJEUNE, NC ZIP 28542 () SURFACE () PURCHASED

COUNTY: DURHAM TYPE OF TREATMENT:
 REPORT TO: PLANT FACILITIES (NREAD) () NONE LIME
 ADDRESS: same as above () CHLORINATED () SODA ASH
 ZIP () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 () FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): BLDG AS-2800

DATE COLLECTED: 17 MARCH 1987 TIME COLLECTED: 1055 am pm
 COLLECTED BY: ENV. CHEM + MICRO LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.008
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.016
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.036
2020	Toxaphene	201	---	2942	Bromoform	215	0.064
2105	2, 4-D	203	---	2950	Total THM	215	0.124
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Folk
 DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-3

REMARKS:

ENCL (2)

STATE OF NEW YORK

IN SENATE

JANUARY 19, 1934

REPORT

OF THE

COMMISSIONER

OF LABOR

AND

INDUSTRIES

IN RESPONSE TO

RESOLUTION PASSED

AT THE REGULAR

SESSION OF THE SENATE

ON JANUARY 10, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON JANUARY 17, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON JANUARY 24, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON JANUARY 31, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON FEBRUARY 7, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON FEBRUARY 14, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON FEBRUARY 21, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON FEBRUARY 28, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MARCH 7, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON MARCH 14, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MARCH 21, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON MARCH 28, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON APRIL 4, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON APRIL 11, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON APRIL 18, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON APRIL 25, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MAY 2, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON MAY 9, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MAY 16, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON MAY 23, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MAY 30, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON JUNE 6, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON JUNE 13, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON JUNE 20, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON JUNE 27, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON JULY 4, 1934

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AT THE REGULAR

SESSION OF THE SENATE

ON JULY 11, 1934

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AT THE SPECIAL

SESSION OF THE SENATE

ON JULY 18, 1934

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AT THE REGULAR

SESSION OF THE SENATE

ON JULY 25, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON AUGUST 1, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON AUGUST 8, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON AUGUST 15, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON AUGUST 22, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON AUGUST 29, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON SEPTEMBER 5, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON SEPTEMBER 12, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON SEPTEMBER 19, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON SEPTEMBER 26, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON OCTOBER 3, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON OCTOBER 10, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON OCTOBER 17, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON OCTOBER 24, 1934

AND

AT THE REGULAR

SESSION OF THE SENATE

ON NOVEMBER 7, 1934

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON NOVEMBER 14, 1934

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AT THE REGULAR

SESSION OF THE SENATE

ON NOVEMBER 21, 1934

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ON NOVEMBER 28, 1934

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AT THE REGULAR

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ON DECEMBER 5, 1934

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ON DECEMBER 12, 1934

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AT THE REGULAR

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ON DECEMBER 19, 1934

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AT THE SPECIAL

SESSION OF THE SENATE

ON DECEMBER 26, 1934

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AT THE REGULAR

SESSION OF THE SENATE

ON JANUARY 2, 1935

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON JANUARY 9, 1935

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AT THE REGULAR

SESSION OF THE SENATE

ON JANUARY 16, 1935

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AT THE SPECIAL

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ON JANUARY 23, 1935

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AT THE SPECIAL

SESSION OF THE SENATE

ON FEBRUARY 6, 1935

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ON MARCH 20, 1935

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AT THE REGULAR

SESSION OF THE SENATE

ON MARCH 27, 1935

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AT THE SPECIAL

SESSION OF THE SENATE

ON APRIL 3, 1935

AND

AT THE REGULAR

SESSION OF THE SENATE

ON APRIL 10, 1935

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON APRIL 17, 1935

AND

AT THE REGULAR

SESSION OF THE SENATE

ON APRIL 24, 1935

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON APRIL 30, 1935

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MAY 7, 1935

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON MAY 14, 1935

AND

AT THE REGULAR

SESSION OF THE SENATE

ON MAY 21, 1935

AND

AT THE SPECIAL

SESSION OF THE SENATE

ON MAY 28, 1935

AND

AT THE REGULAR

SESSION OF THE SENATE

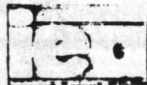
ON JUNE 4, 1935

AND

AT THE SPECIAL

SESSION OF THE SENATE

37720
C. Lab. ID



Industrial & Environmental Analysts, Inc.
P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-407-0000



WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 043 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: HOLCOMB BLVD SOURCE OF WATER:
 GROUND () BOTH
 SURFACE () PURCHASED

ADDRESS: COMMANDING GENERAL, MCB
CAMP LEJEUNE, NC ZIP 28542

COUNTY: ONslow TYPE OF TREATMENT:
 NONE LIME
 CHLORINATED () SODA ASH
 FLUORIDATED () POLYPHOSPHATE
 FILTERED WATER SOFTNER
 ALUM () OTHER

REPORT TO: AC/S FACILITIES (NREAD)

ADDRESS: same as above ZIP _____

TELEPHONE: (919) 451-5977

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): BLDG 670, WATER TREATMENT PLANT

DATE COLLECTED: 17 MARCH 1987 TIME COLLECTED: 0945 am pm

COLLECTED BY: ENV. CHEM + MICRO. LAB LOC. CODE: _____

FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	_____	2941	Chloroform	215	0.008
2010	Lindane	201	_____	2943	Bromodichloromethane	215	0.003
2015	Methoxychlor	201	_____	2944	Chlorodibromomethane	215	0.002
2020	Toxaphene	201	_____	2942	Bromoform	215	<0.001
2105	2, 4-D	203	_____	2950	Total THM	215	0.013
2110	2, 4, 5-TP	203	_____				

DATE RECEIVED 03-19-87 DATE ANALYZED 03-24-87 REPORTED BY E. Folk
DATE EXTRACTED 03-24-87 DATE REPORTED 03-25-87 SAMPLE LAB 304-13-5

REMARKS:

ENCL (3)

Journal of Evolutionary Biology

Volume 15, Number 1, February 2002

CONTENTS

1. *Genetic structure and divergence in the genus *Drosophila**

2. *Phylogenetic relationships among the major groups of the order *Diptera**

3. *Evolution of the *Adaptation* gene in *Drosophila**

4. *Genetic divergence and speciation in the genus *Drosophila**

5. *Phylogenetic relationships among the major groups of the order *Diptera**

6. *Evolution of the *Adaptation* gene in *Drosophila**

7. *Genetic divergence and speciation in the genus *Drosophila**

8. *Phylogenetic relationships among the major groups of the order *Diptera**

9. *Evolution of the *Adaptation* gene in *Drosophila**

10. *Genetic divergence and speciation in the genus *Drosophila**

11. *Phylogenetic relationships among the major groups of the order *Diptera**

12. *Evolution of the *Adaptation* gene in *Drosophila**

13. *Genetic divergence and speciation in the genus *Drosophila**

14. *Phylogenetic relationships among the major groups of the order *Diptera**

15. *Evolution of the *Adaptation* gene in *Drosophila**

16. *Genetic divergence and speciation in the genus *Drosophila**

17. *Phylogenetic relationships among the major groups of the order *Diptera**

18. *Evolution of the *Adaptation* gene in *Drosophila**

19. *Genetic divergence and speciation in the genus *Drosophila**

20. *Phylogenetic relationships among the major groups of the order *Diptera**

21. *Evolution of the *Adaptation* gene in *Drosophila**

22. *Genetic divergence and speciation in the genus *Drosophila**

23. *Phylogenetic relationships among the major groups of the order *Diptera**

24. *Evolution of the *Adaptation* gene in *Drosophila**

25. *Genetic divergence and speciation in the genus *Drosophila**

26. *Phylogenetic relationships among the major groups of the order *Diptera**

27. *Evolution of the *Adaptation* gene in *Drosophila**

28. *Genetic divergence and speciation in the genus *Drosophila**

29. *Phylogenetic relationships among the major groups of the order *Diptera**

30. *Evolution of the *Adaptation* gene in *Drosophila**

31. *Genetic divergence and speciation in the genus *Drosophila**

32. *Phylogenetic relationships among the major groups of the order *Diptera**

33. *Evolution of the *Adaptation* gene in *Drosophila**

34. *Genetic divergence and speciation in the genus *Drosophila**

35. *Phylogenetic relationships among the major groups of the order *Diptera**

36. *Evolution of the *Adaptation* gene in *Drosophila**

37. *Genetic divergence and speciation in the genus *Drosophila**

38. *Phylogenetic relationships among the major groups of the order *Diptera**

39. *Evolution of the *Adaptation* gene in *Drosophila**

40. *Genetic divergence and speciation in the genus *Drosophila**

41. *Phylogenetic relationships among the major groups of the order *Diptera**

5096
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4 2

11331
NREAD
9 June 87

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

Dear Mr. McFadyen:

Enclosed are the completed Department of Health Forms (DHS 1942 2/74) for all water treatment plants aboard Marine Corps Base, Camp Lejeune for the period 1-31 May 1987. Also enclosed are the weekly Chemical Analysis Forms (MCBCL 11330/3 Rev 3-82) for the same period, as requested in the 25 October 1982 letter from Mr. Charles Rundgren of your office.

The analysis is run by the Environmental Chemistry and Microbiology Laboratory, located in the Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities. Ms. Betz, Supervisory Chemist, telephone (919) 451-5977, is the point of contact in this matter.

Sincerely,

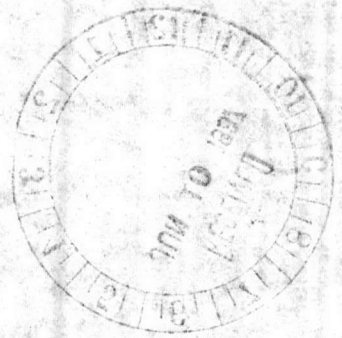
JULIAN I. WOOTEN
Director, Natural Resources Division
By direction of the Commanding General

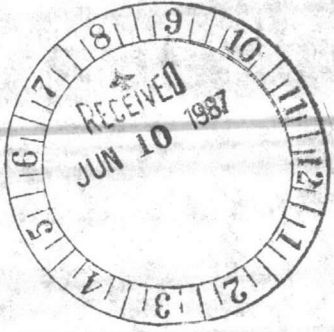
Encls: (1) Dept of Health Forms
(2) Chemical Analysis Forms

Copy to:
LANTNAVFACENGCOM (Code 114)

Blind copy to:
BMO (ATTN: UTIL DIR)
Supvy Chem (2)

Writer/typist Betz / Trianodi
Date Typed 9 June 87
Word Processor Number 11331



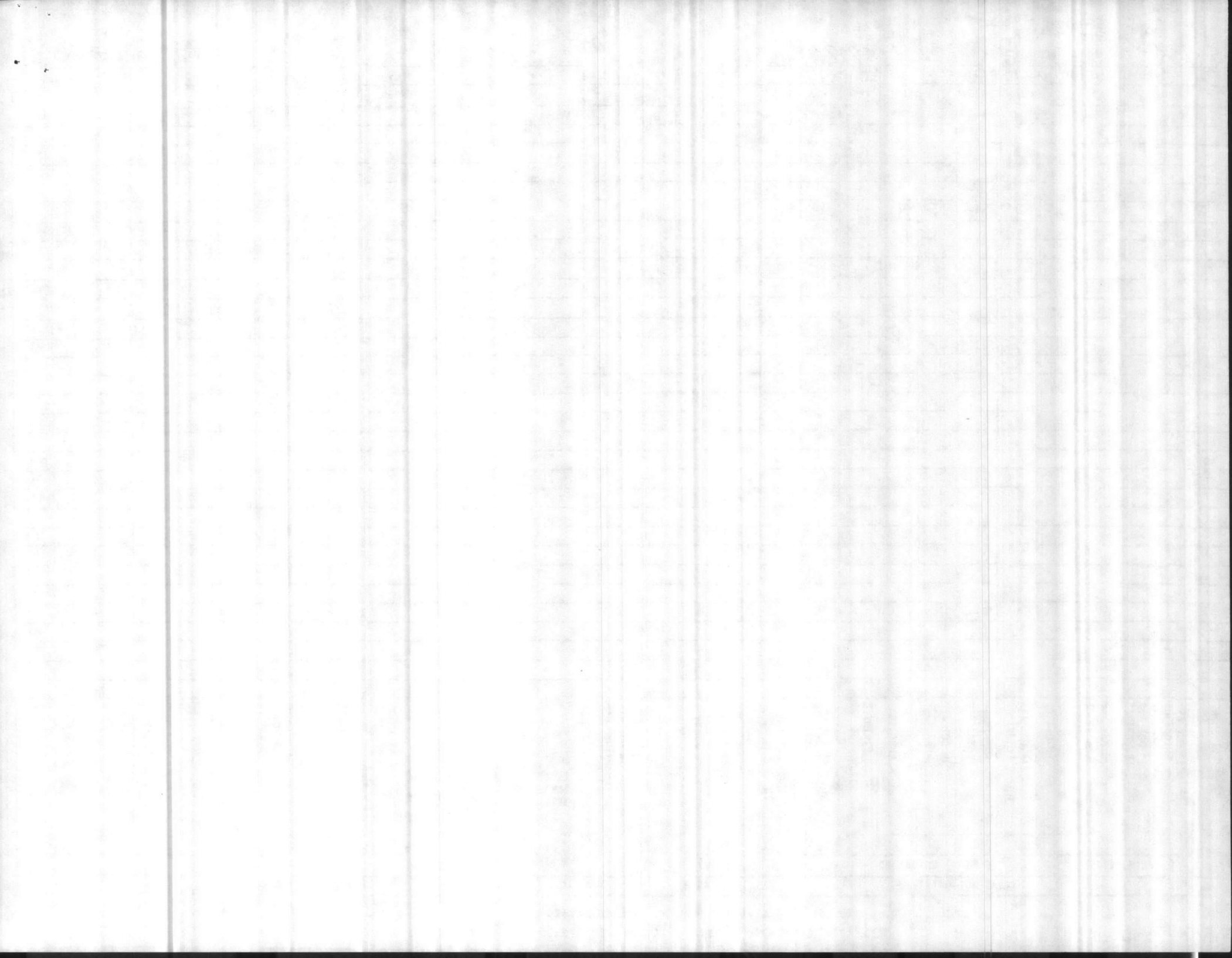


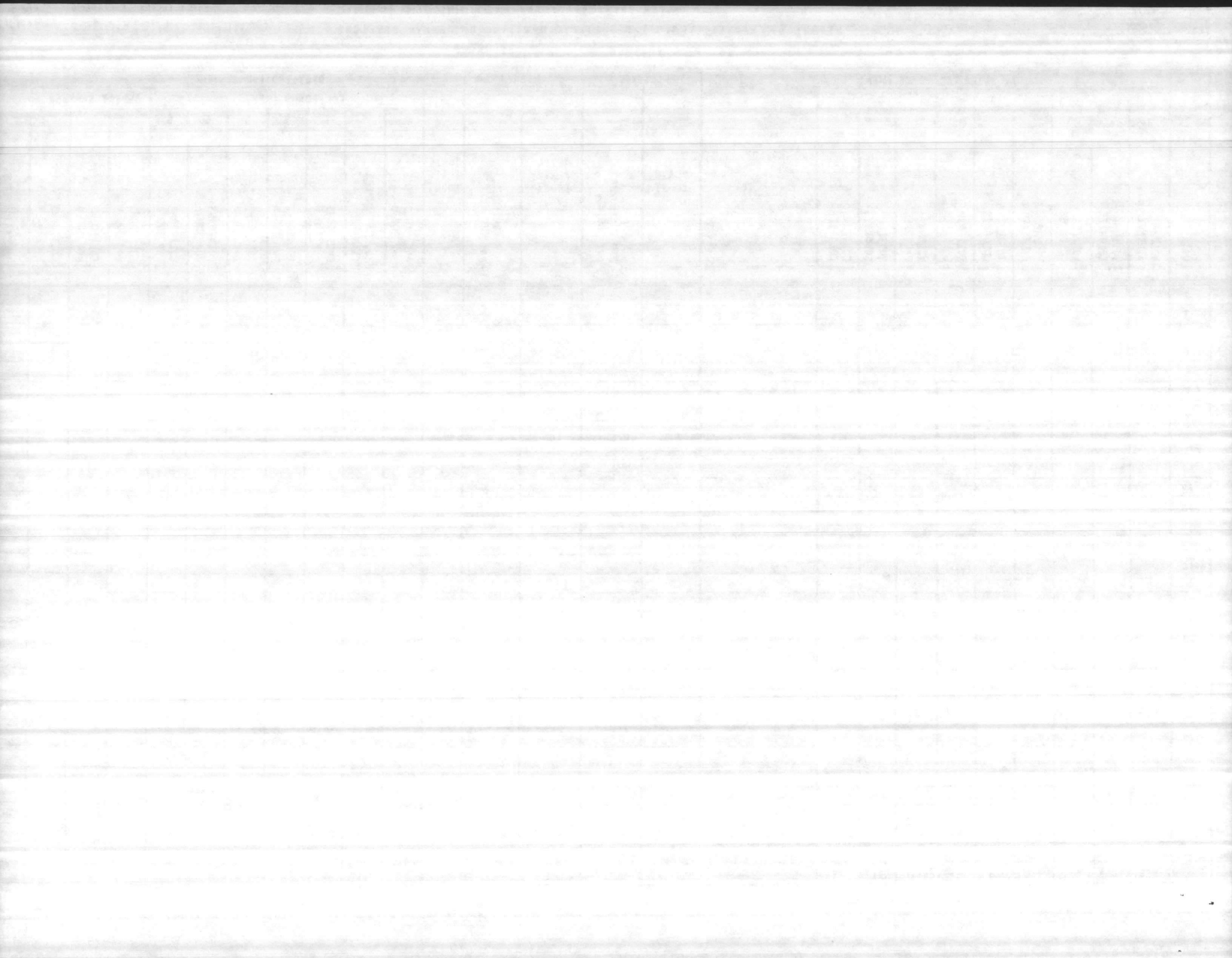
183)

J. Jones 87
B. G. / G. H. / G. I.

247

30





Month MAY
Year 1987

MARINE CORPS AIR STATION

WATER TREATMENT PLANT AT Camp Lejeune
REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES

Method Code: 303
Contaminant Code: 3000

Serial # 04-67-04Z

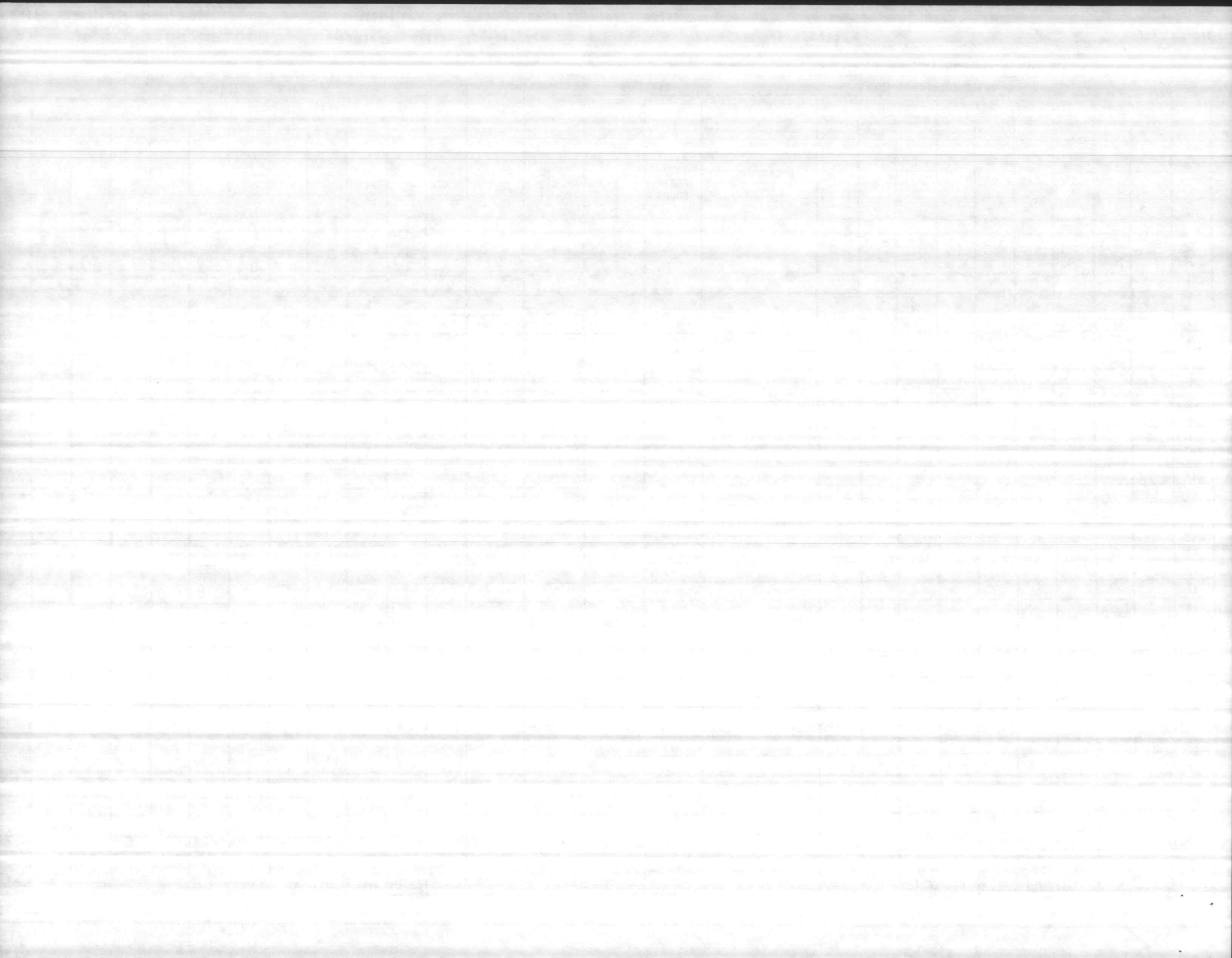
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	A		B		C								COLIFORMS (MFP)						REPEAT SAMPLES		
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES							1	2	3	4	5		COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
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MFP MEDIA		BBL mEndo		BACTERIAL DENSITY		ARITH. MEAN				0		DIST. SYSTEM		TOTAL NO. SAMPLES					28		
TPC MEDIA						GEO. MEAN				1.0				SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500=1					0		

LAB ID # 37807

Elizabeth A. Betty

CERT GRADE B-WELL # 4087-W
ENCLOSURE (11)





Month MAY
Year 1987

CAMP JOHNSON

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

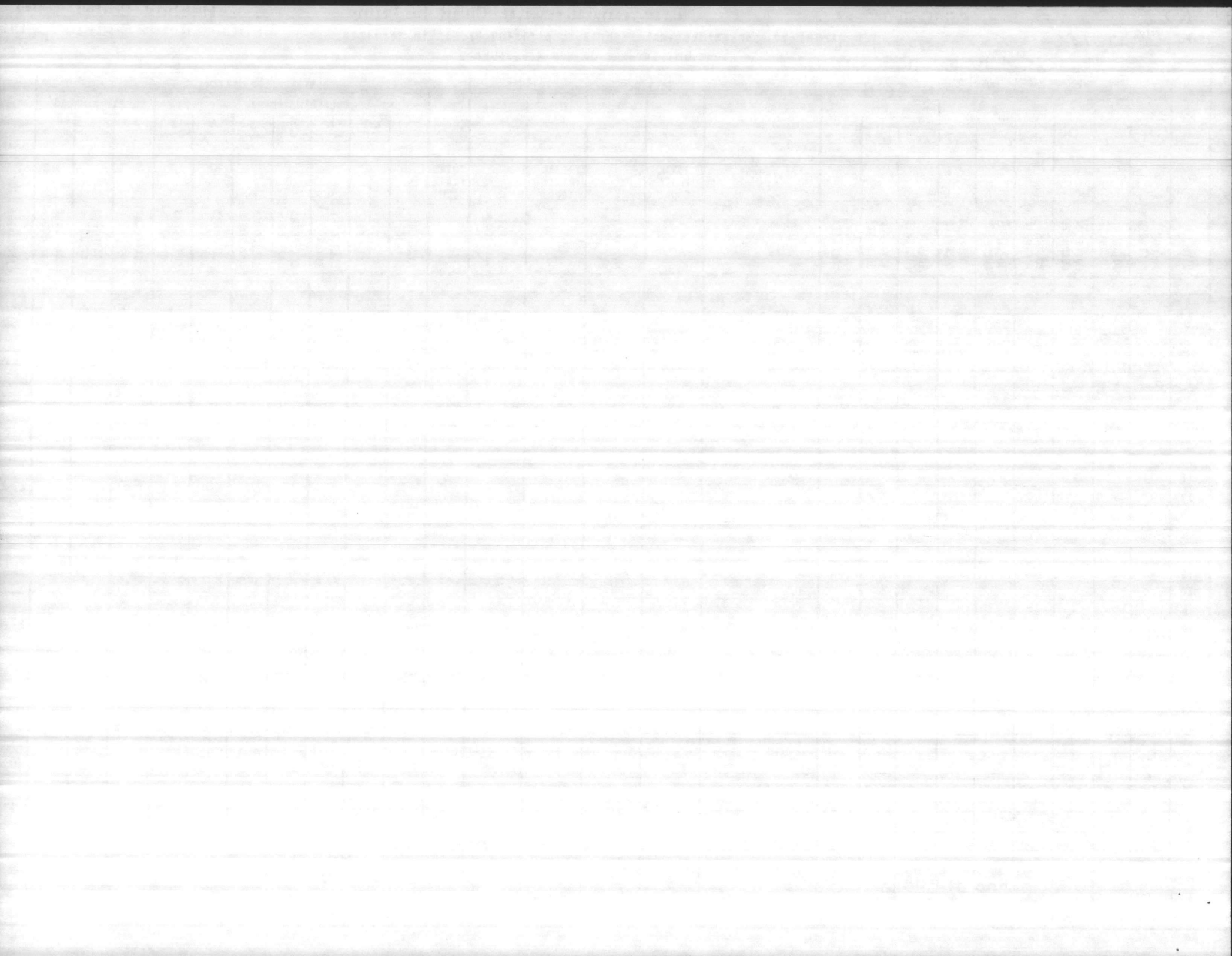
N. C. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-045

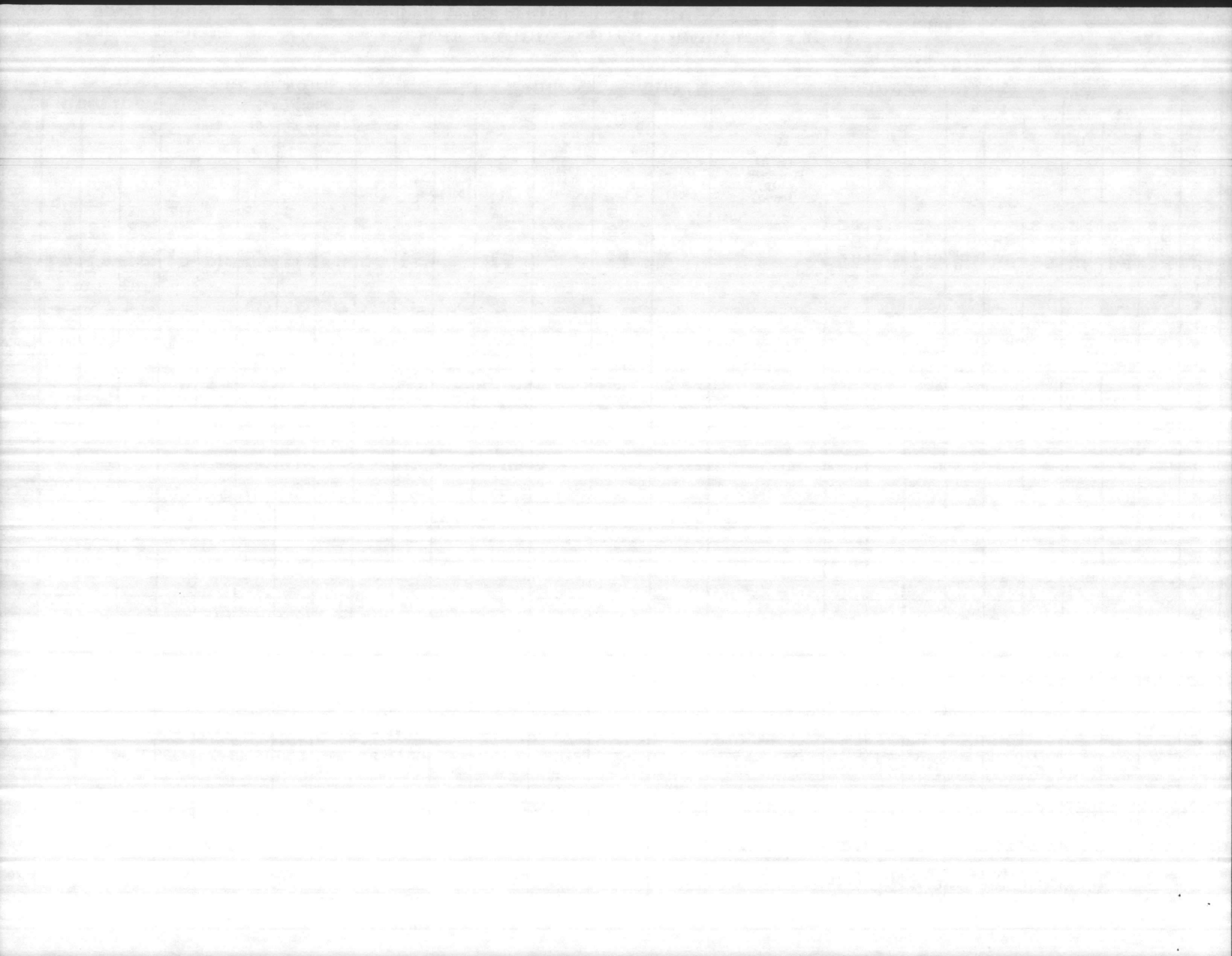
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	A		B		C								1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.					
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES																AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
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MFP MEDIA		RBI mEndo		BACTERIAL DENSITY		ARITH. MEAN						0		DIST. SYSTEM		TOTAL NO. SAMPLES								8	
TPC MEDIA						GEO. MEAN						1.0				SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500ml								0	

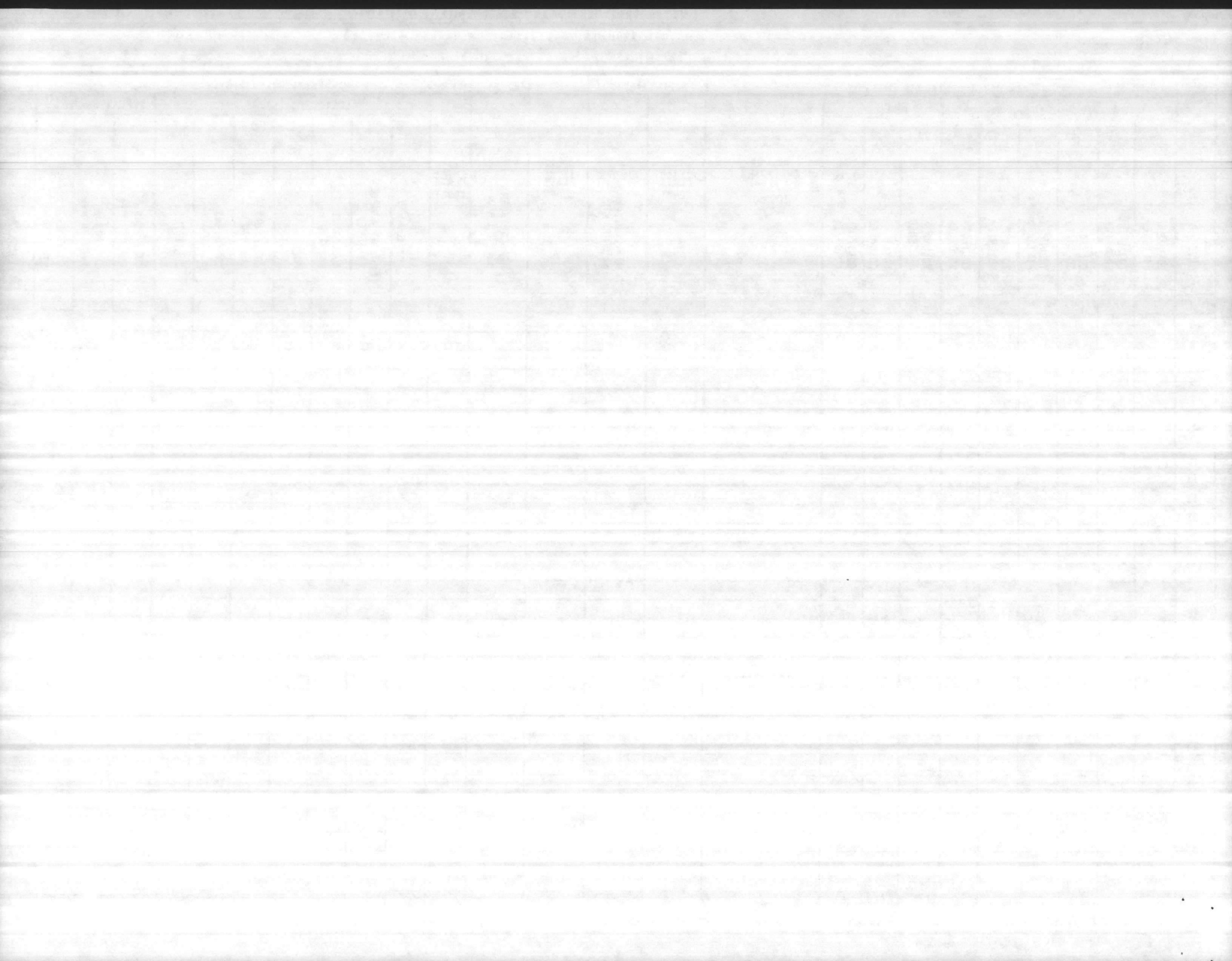
LAB ID # 37807

Elyabeth CERT GRADE B-WELL # 4087-W
11









DATE COLLECTED
 5-26-87

DATE OF ANALYSIS
 5-26-87

PARAMETER SERIAL #04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042		
PH (IN LAB NOT PLANT)	8.7			7.4	8.0	8.3	8.7	8.9		
PHENOLTHALEIN ALKALINITY	20			0	0	4	14	12		
METHYL ORANGE ALKALINITY	58			176	186	200	72	120		
CARBONATES AS CaCO ₃	40			0	0	8	28	24		
BICARBONATES AS CaCO ₃	18			176	186	192	44	96		
CHLORIDES AS Cl	16			48	20	44	18	60		
HARDNESS AS CaCO ₃	60			44	54	58	62	64		
IRON AS Fe	A.A.	DOWN.								
FLUORIDE	Am 1.11 pm 1.42			0.18	0.16	0.12	0.65 1.07	0.54		
CHLORINE RESIDUAL	0.9			1.4	1.4	1.0	1.2	1.0		
TURBIDITY	Am 0.1 pm 0.2			0.2	0.1	0.1	1.0 0.5	0.4		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.4			-0.9	-0.4	-0.1	+0.3	+0.1		

REMARKS

COPY TO

UTIL DIR

WATER TREATMENT

PMU MCAS PMU

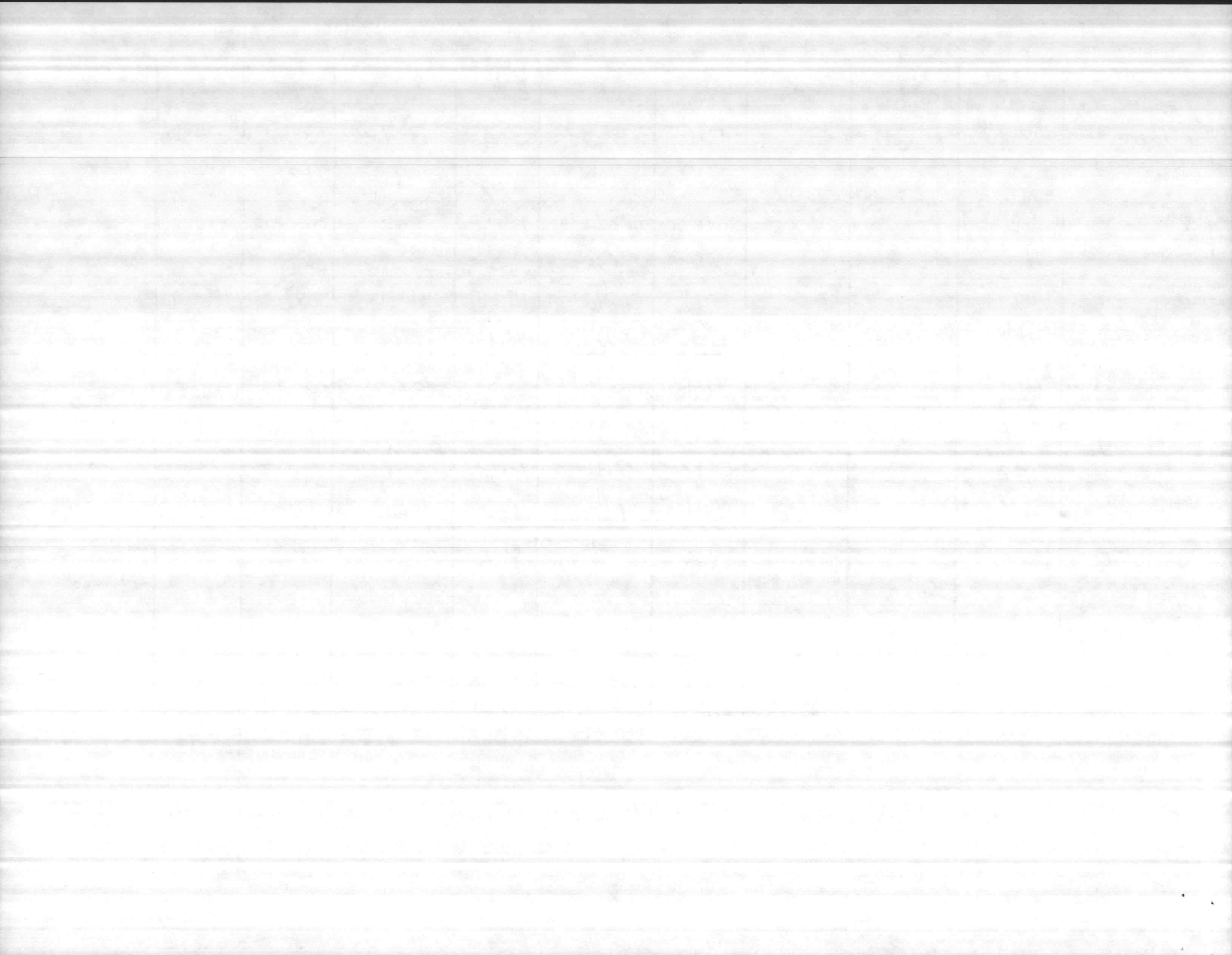
NREAD FILE

ENCLOSURE 61

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram

LABORATORY ANALYSIS BY

CAROL SHORES



CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS
 MCBCL 11330.3 (REV 6-84)

DATE COLLECTED
 5-19-87

DATE OF ANALYSIS
 5-19-87

PARAMETER SERIAL#04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042		
PH (IN LAB NOT PLANT)	8.8			7.6	8.0	8.4	8.6	8.8		
PHENOLTHALEIN ALKALINITY	4			0	0	2	4	14		
METHYL ORANGE ALKALINITY	60			170	182	170	66	120		
CARBONATES AS CaCO ₃	8			0	0	4	8	28		
BICARBONATES AS CaCO ₃	52			170	182	166	58	92		
CHLORIDES AS Cl	14			24	18	26	12	66		
HARDNESS AS CaCO ₃	60			52	50	48	78	50		
IRON AS Fe	A.A.	DOWN								
FLUORIDE	Am 0.80 pm 0.63			0.15	0.12	0.09	1.14 0.96	0.43		
CHLORINE RESIDUAL	1.0			1.4	1.5	1.1	1.0	0.8		
TURBIDITY	Am 0.2 pm 0.3			0.1	0.1	0.1	0.2 0.3	0.5		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.4			+0.6	-0.2	+0.1	+0.3	+0.3		

REMARKS

COPY TO

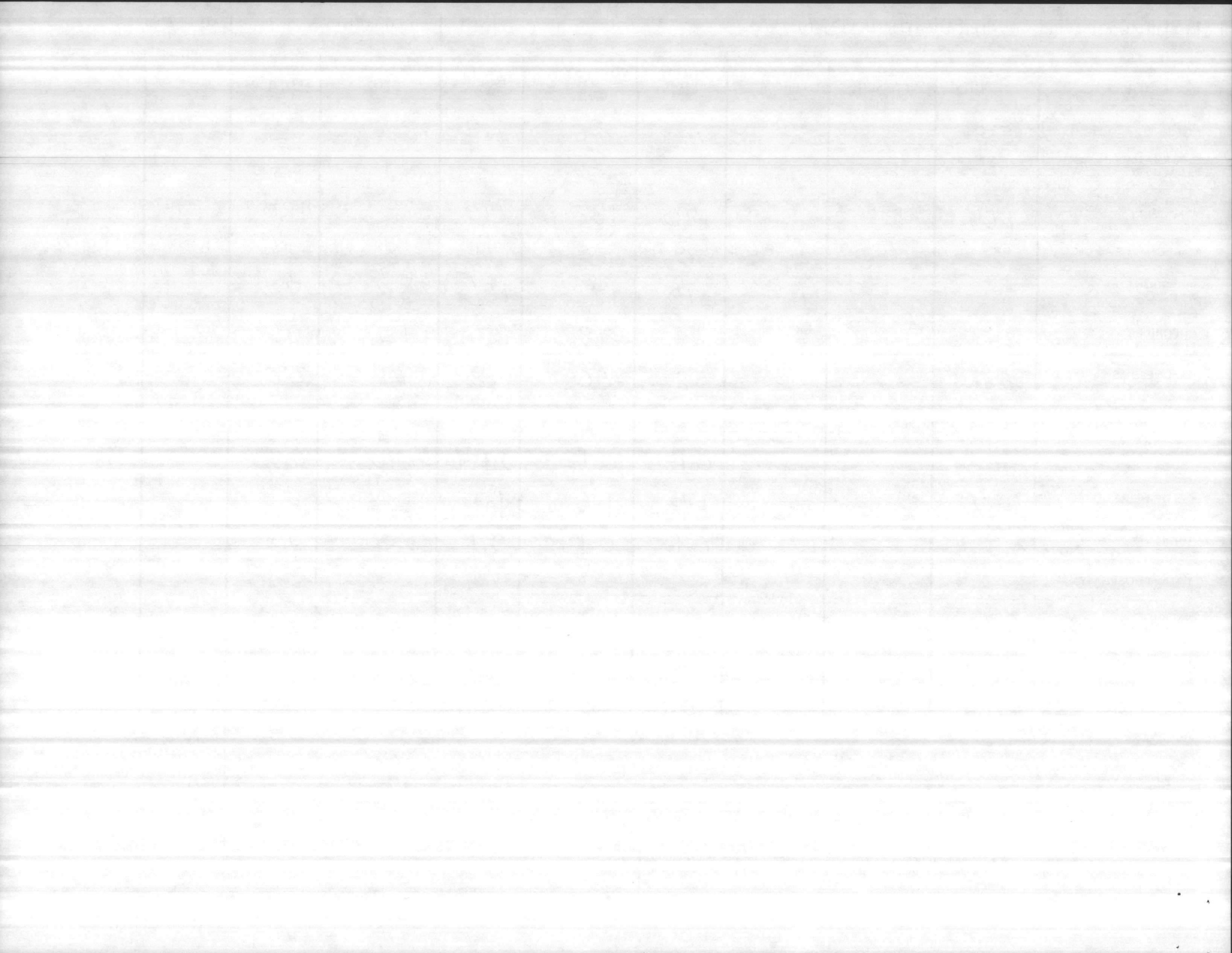
- UTIL DIR
- WATER TREATMENT
- PMU MCAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

CAROL SNOKES

ENCLOSURE (2)



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV 6-84)

DATE COLLECTED

5-12-87

DATE OF ANALYSIS

5-12-87

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
SERIAL #0467	-041	-045	-044	-048	-047	-046	-043	-042		
PH (IN LAB NOT PLANT)	8.8			7.7	7.9	7.9	8.6	9.0		
PHENOLTHALEIN ALKALINITY	14			0	0	0	2	12		
METHYL ORANGE ALKALINITY	62			172	178	176	62	118		
CARBONATES AS CaCO ₃	28			0	0	0	4	24		
BICARBONATES AS CaCO ₃	34			172	178	176	58	94		
CHLORIDES AS Cl	26			38	36	64	26	68		
HARDNESS AS CaCO ₃	82			60	48	72	98	78		
IRON AS Fe	A.A.	DOWN								
FLUORIDE	Am 0.89 Pm 0.88			0.14	0.11	0.09	0.93 0.97	0.40		
CHLORINE RESIDUAL	1.0			1.2	1.2	1.0	1.2	0.8		
TURBIDITY	Am 0.2 Pm 0.3			0.1	0.1	0.1	0.5 0.3	0.4		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.3			-0.5	-0.4	-0.3	+0.1			

REMARKS

COPY TO

- UTIL DIR
- WATER TREATMENT
- PMU MCAS PMU
- NREAD FILE

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

CAROL SHORIS

ENCLOSURE (2)



CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS

MCBCL 11330/3 (REV 6-84)

DATE COLLECTED

5-5-87

DATE OF ANALYSIS

5-5-87

PARAMETER SERIAL #04-67	HADNOT POINT -041	CAMP JOHNSON -045	TARAWA TERRACE -044	ONSLow BEACH -043	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042		
PH (IN LAB NOT PLANT)	8.4			7.4	7.9	8.3	8.3	8.4		
PHENOLTHALEIN ALKALINITY	4			0	0	4	2	8		
METHYL ORANGE ALKALINITY	68			134	188	186	56	130		
CARBONATES AS CaCO ₃	8			0	0	8	4	16		
BICARBONATES AS CaCO ₃	60			134	188	178	52	114		
CHLORIDES AS Cl	16			26	20	30	10	58		
HARDNESS AS CaCO ₃	104			60	52	74	78	70		
IRON AS Fe	A.A.	DOWN								
FLUORIDE	Am	1.03					0.98			
	Pm	1.08		0.16	0.11	0.09	0.94	0.41		
CHLORINE RESIDUAL		1.0		1.3	1.5	1.0	1.1	0.8		
TURBIDITY	Am	3.1					0.2			
	Pm	0.2		0.2	0.1	0.1	0.6	0.8		
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.2			-0.5	-0.2	+0.2	0.0	+0.2		

REMARKS

COPY TO

UTIL DIR

WATER TREATMENT

PMU MCAS PMU

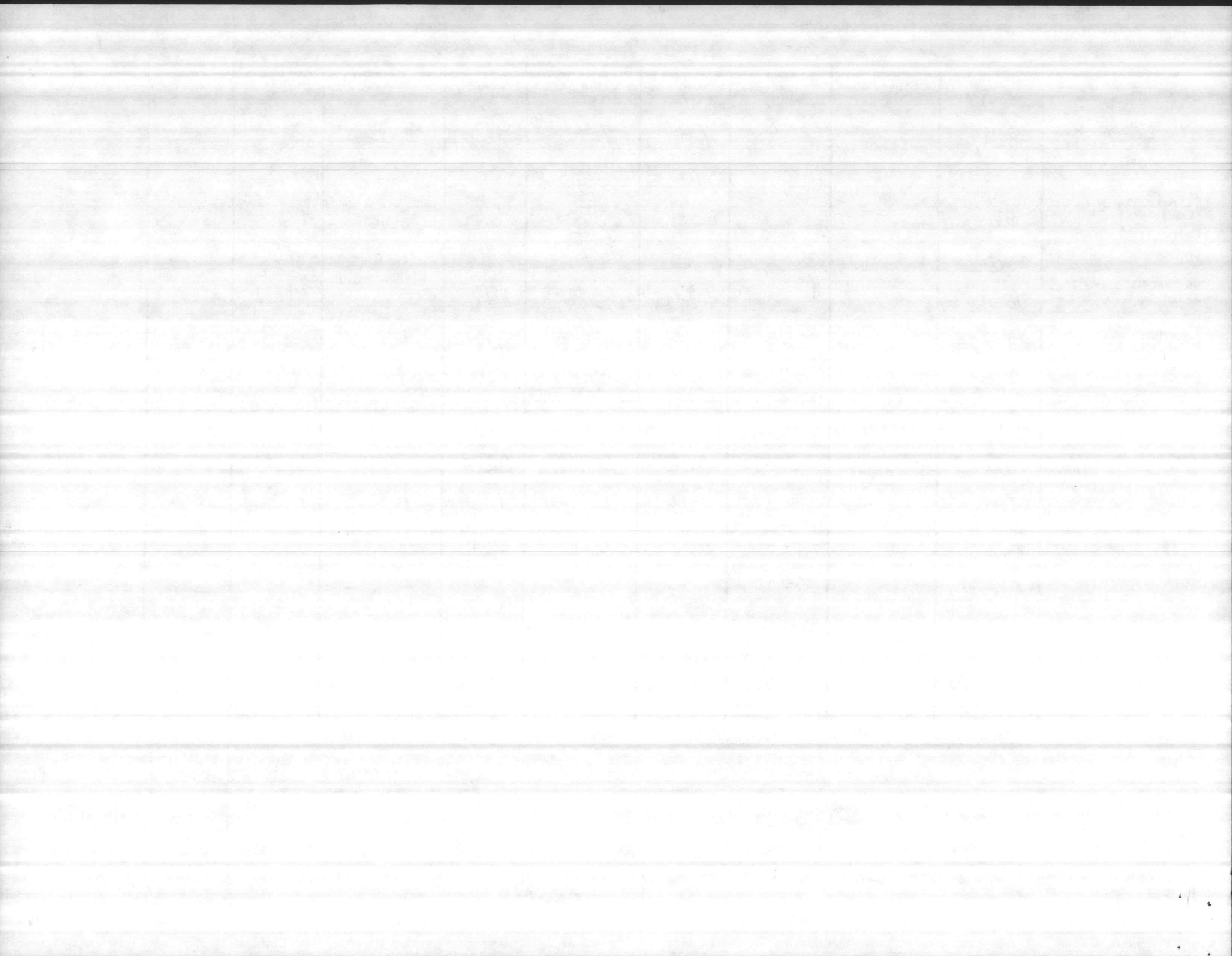
NREAD FILE

NOTE All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

CAROL SHORES

ENCLOSURE (2)



T-628014

5096

u 4

11333/1
NREAD
23 Jun 87

Mr. Wallace E. Venrick
Water Supply Branch
Division of Health Services
Post Office Box 2091
Raleigh, North Carolina 27602-2091

Dear Mr. Venrick:

Enclosures (1), (2) and (3) are the Trihalomethane analysis of the Hadnot Point (HP) Water Treatment Plant, ID No. 04-67-041 the Marine Corps Air Station (MCAS), New River Water Treatment Plant, ID No. 04-67-042, and the Holcomb Blvd (HB) Water Treatment Plant, ID No. 04-67-043. All samples were collected by the Environmental Chemistry and Microbiology Section personnel and analyzed by Industrial and Environmental Analysts, Incorporated.

Point of contact in this matter is Ms. Elizabeth Betz, (919) 451-5977.

Sincerely,

J. I. WOOTEN, Director
Natural Resources Division
By direction of the Commanding General

Encls:

- (1) TTHM Analysis for HP
- (2) TTHM Analysis for MCAS
- (3) TTHM Analysis for HB

Copy to:
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Blind copy to:
EC&MS (2)
BMO (Util Dir)

Writer/Typist

Betz / Ornanoski

Date Typed

23 June 87

Word Processor Number

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Account Number 1123
Date Label 5/20/87
Account Number 1123

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✓

37720
Lab. ID



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WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 041

TYPE OF SYSTEM:

COMMUNITY () NON-COMMUNITY

SYSTEM NAME: HADNOT POINT

SOURCE OF WATER:

ADDRESS: COMMANDING GENERAL, MCB

GROUND () BOTH

CAMP LEJEUNE, NC ZIP 28542

() SURFACE () PURCHASED

COUNTY: ONSLow

TYPE OF TREATMENT:

REPORT TO: AC/S FACILITIES (NREAD)

() NONE LIME

ADDRESS: SAME AS ABOVE

CHLORINATED () SODA ASH

ZIP _____

FLUORIDATED () POLYPHOSPHATE

TELEPHONE: (919) 451-5977

FILTERED WATER SOFTNER

() ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE

TYPE OF SAMPLE

DISTRIBUTION TAP () HOUSE TAP

D-REGULAR () M-M.R.T.

() PLANT TAP () WELL TAP

() C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): FC530

DATE COLLECTED: 6-11-87

TIME COLLECTED: 1227 am pm

COLLECTED BY: EC & MS PERSONNEL

LOC. CODE: _____

FOR LABORATORY USE ONLY

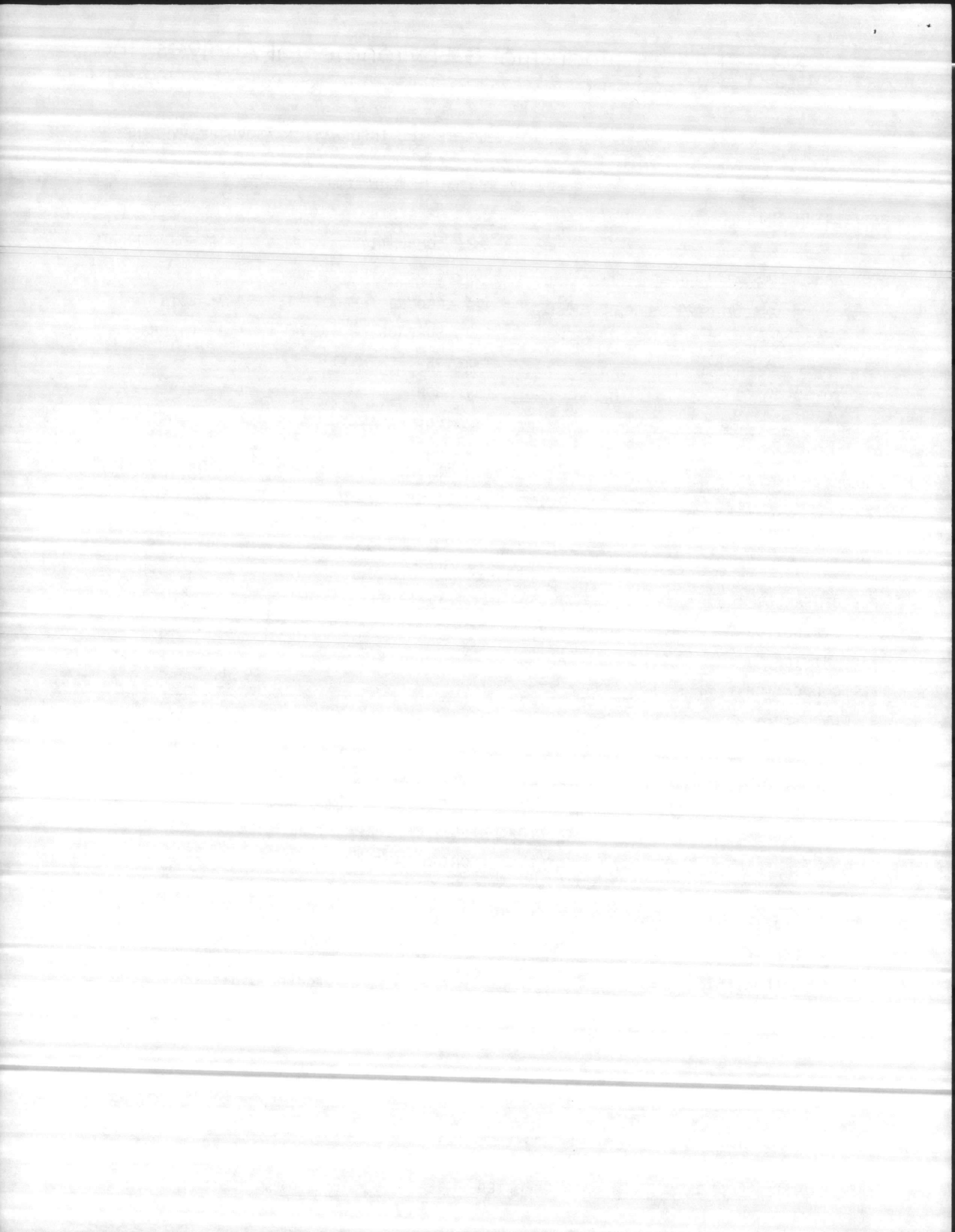
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	_____	2941	Chloroform	215	<u>0.006</u>
2010	Lindane	201	_____	2943	Bromodichloromethane	215	<u>0.006</u>
2015	Methoxychlor	201	_____	2944	Chlorodibromomethane	215	<u>0.005</u>
2020	Toxaphene	201	_____	2942	Bromoform	215	<u><0.001</u>
2105	2, 4-D	203	_____	2950	Total THM	215	<u>0.017</u>
2110	2, 4, 5-TP	203	_____				

DATE RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folk
DATE EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-6

REMARKS:

ENCLOSURE (11)



37720
Lab. ID



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WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: MARINE CORPS AIR STATION SOURCE OF WATER:
 GROUND () BOTH
 ADDRESS: COMMANDING GENERAL MCB
CAMP LEJEUNE, NC ZIP 28542 () SURFACE () PURCHASED

COUNTY: ONSLOW TYPE OF TREATMENT:
 REPORT TO: NC/S FACILITIES (NREAD) () NONE LIME
 ADDRESS: SAME AS ABOVE CHLORINATED () SODA ASH
 ZIP: _____ () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

PLACE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): * AS 110

SAMPLE COLLECTED: * 6-11-87 TIME COLLECTED: * 1008 am pm
 COLLECTED BY: EC & MS PERSONNEL LOC. CODE: _____

FOR LABORATORY USE ONLY

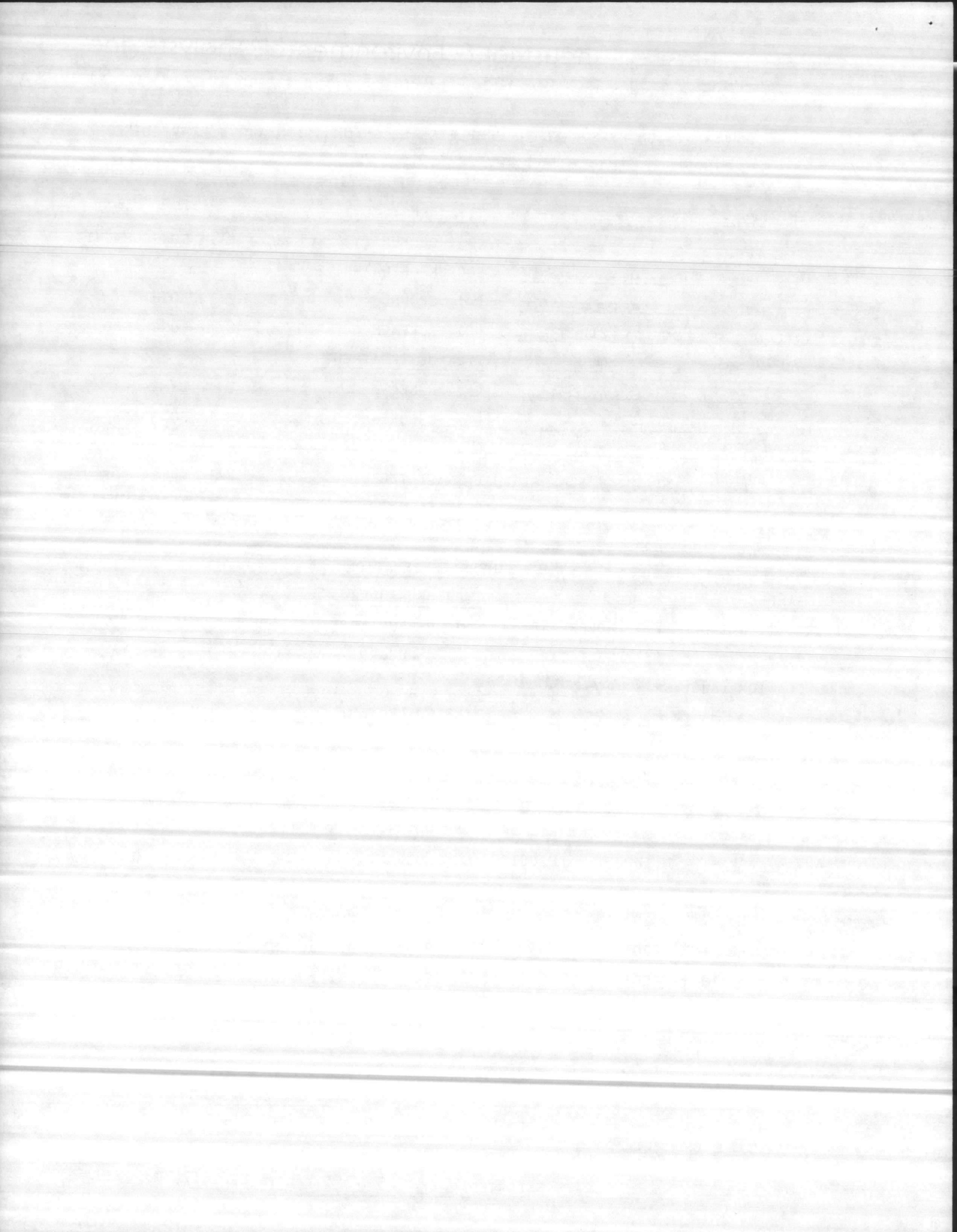
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	_____	2941	Chloroform	215	<0.00
2010	Lindane	201	_____	2943	Bromodichloromethane	215	0.00
2015	Methoxychlor	201	_____	2944	Chlorodibromomethane	215	0.01
2020	Toxaphene	201	_____	2942	Bromoform	215	0.01
2105	2, 4-D	203	_____	2950	Total THM	215	0.03
2110	2, 4, 5-TP	203	_____				

RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folk
 EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-1

REMARKS:

ENCLOSURE (2)



37720
Lab. ID



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WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY NON-COMMUNITY

SYSTEM NAME: MARINE CORPS AIR STATION SOURCE OF WATER:
 GROUND BOTH
 SURFACE PURCHASED

ADDRESS: COMMANDING GENERAL MCB
CAMP LEJEUNE NC ZIP 28542

CITY: ONSCOW TYPE OF TREATMENT:
 NONE LIME
 CHLORINATED SODA ASH
 FLUORIDATED POLYPHOSPHATE
 FILTERED WATER SOFTNER
 ALUM OTHER

REPORT TO: NC/S FACILITIES (NREAD)
 ADDRESS: SAME AS ABOVE ZIP _____
 TELEPHONE: (919) 451-5977

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP HOUSE TAP D-REGULAR M-M.R.T.
 PLANT TAP WELL TAP C-CHECK S-SPECIAL

SAMPLING LOCATION (Address): AS 4025

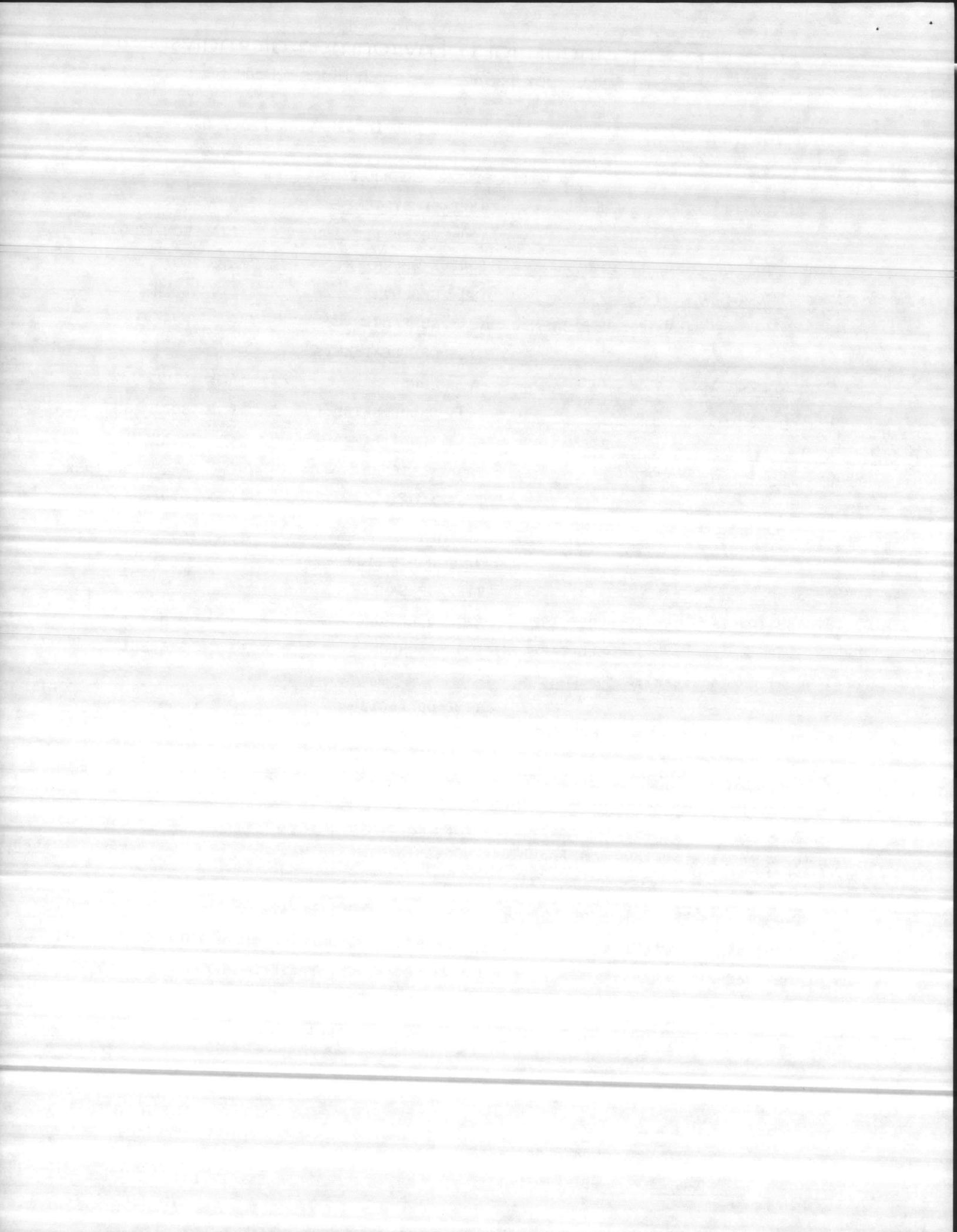
DATE COLLECTED: 6-11-87 TIME COLLECTED: 1028 am pm
 COLLECTED BY: EC & MS PERSONNEL LOC. CODE: _____

FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.00
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.01
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.02
2020	Toxaphene	201	---	2942	Bromoform	215	0.02
2105	2, 4-D	203	---	2950	Total THM	215	0.07
2110	2, 4, 5-TP	203	---				

RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folk
 SAMPLE EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-4
 REMARKS: ENCLOSURE



37720
C. Lab. ID



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WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: MARINE CORPS AIR STATION SOURCE OF WATER:
 GROUND () BOTH
 ADDRESS: COMMANDING GENERAL MCB
CAMP LEJEUNE, NC ZIP 28542 () SURFACE () PURCHASED

COUNTY: ONSONG TYPE OF TREATMENT:
 REPORT TO: NC/S FACILITIES (NREAD) () NONE LIME
 ADDRESS: SAME AS ABOVE CHLORINATED () SODA ASH
 ZIP () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 () PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): AS 705

DATE COLLECTED: 6-11-87 TIME COLLECTED: 1112 am pm
 COLLECTED BY: EC & MS PERSONNEL LOC. CODE: _____

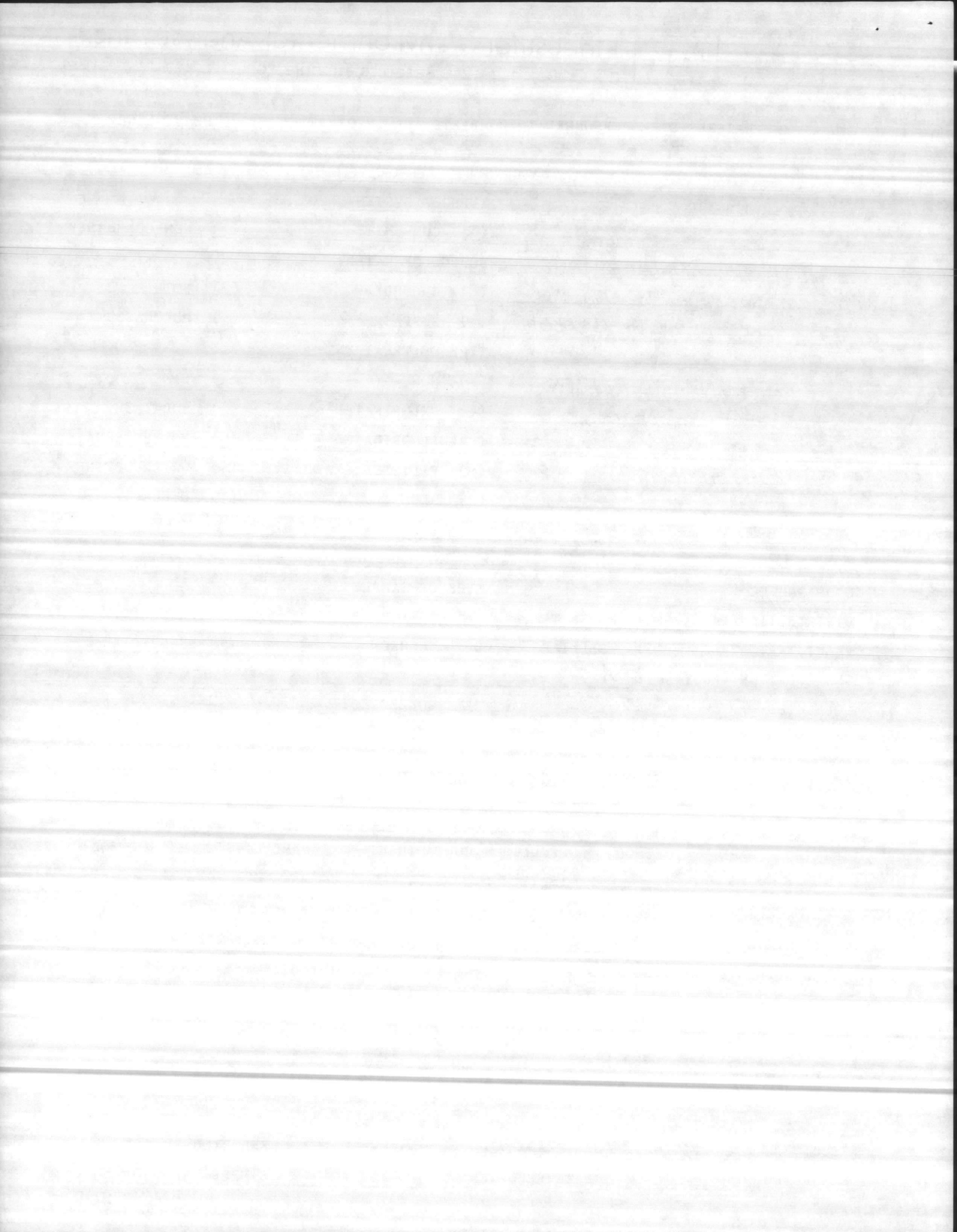
FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	_____	2941	Chloroform	215	<u>0.00</u>
2010	Lindane	201	_____	2943	Bromodichloromethane	215	<u>0.01</u>
2015	Methoxychlor	201	_____	2944	Chlorodibromomethane	215	<u>0.02</u>
2020	Toxaphene	201	_____	2942	Bromoform	215	<u>0.02</u>
2105	2, 4-D	203	_____	2950	Total THM	215	<u>0.06</u>
2110	2, 4, 5-TP	203	_____				

RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folk
 EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-2

ENCLOSURE (2)



37720
Lab. ID



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WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 07 - 042 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: MARINE CORPS AIR STATION SOURCE OF WATER:
 ADDRESS: COMMANDING GENERAL MCB GROUND () BOTH
CAMP LEJEUNE NC ZIP 28542 () SURFACE () PURCHASED

COUNTY: ONSLow TYPE OF TREATMENT:
 REPORT TO: NC/S FACILITIES (NREAD) () NONE LIME
 ADDRESS: SAME AS ABOVE CHLORINATED () SODA ASH
 ZIP _____ () FLUORIDATED () POLYPHOSPHATE
 TELEPHONE: (919) 451-5977 FILTERED WATER SOFTNER
 () ALUM () OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 () PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): G-520

DATE COLLECTED: 6-11-87 TIME COLLECTED: 1130 am pm
 COLLECTED BY: EC & MS PERSONNEL LOC. CODE: _____

FOR LABORATORY USE ONLY

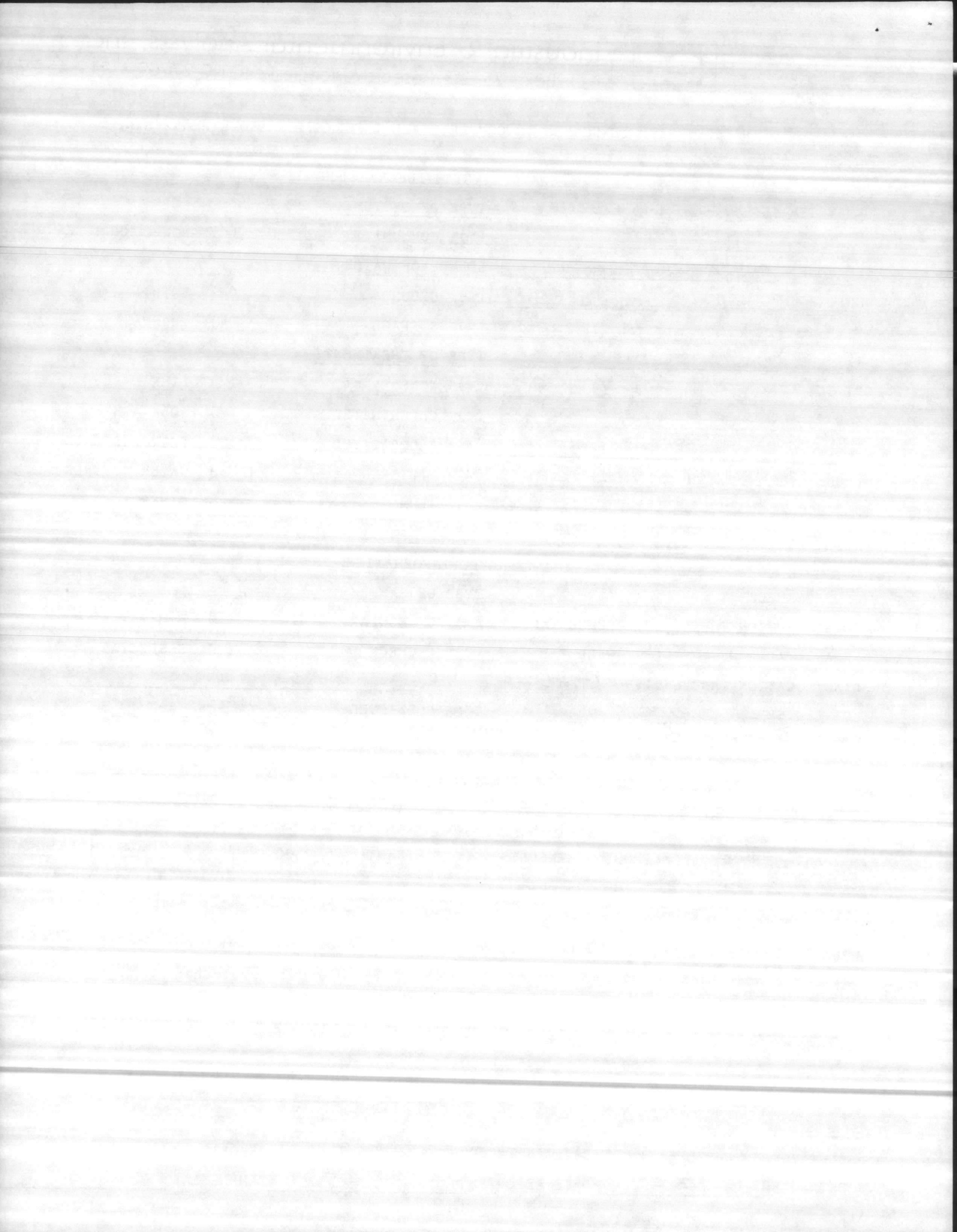
STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	_____	2941	Chloroform	215	<u>0.01</u>
2010	Lindane	201	_____	2943	Bromodichloromethane	215	<u>0.02</u>
2015	Methoxychlor	201	_____	2944	Chlorodibromomethane	215	<u>0.04</u>
2020	Toxaphene	201	_____	2942	Bromoform	215	<u>0.025</u>
2105	2, 4-D	203	_____	2950	Total THM	215	<u>0.11</u>
2110	2, 4, 5-TP	203	_____				

DATE RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folle
 DATE EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-7

REMARKS:

ENCLOSURE



37720
Lab. ID



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WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 042 TYPE OF SYSTEM:
 COMMUNITY NON-COMMUNITY

SYSTEM NAME: MARINE CORPS AIR STATION SOURCE OF WATER:
 GROUND BOTH
 ADDRESS: COMMANDING GENERAL MCB SURFACE PURCHASED
CAMP LEJEUNE NC ZIP 28542

COUNTY: ONSONG TYPE OF TREATMENT:
 NONE LIME
 REPORT TO: NC/S FACILITIES (NREAD) SODA ASH
 ADDRESS: SAME AS ABOVE POLYPHOSPHATE
ZIP WATER SOFTNER
 TELEPHONE: (919) 451-5977 ALUM OTHER

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP HOUSE TAP D-REGULAR M-M.R.T.
 PLANT TAP WELL TAP C-CHECK S-SPECIAL

SAMPLING LOCATION (Address): AS 2800

DATE COLLECTED: 6-11-87 TIME COLLECTED: 1055 am pm

COLLECTED BY: EC & MS PERSONNEL LOC. CODE:

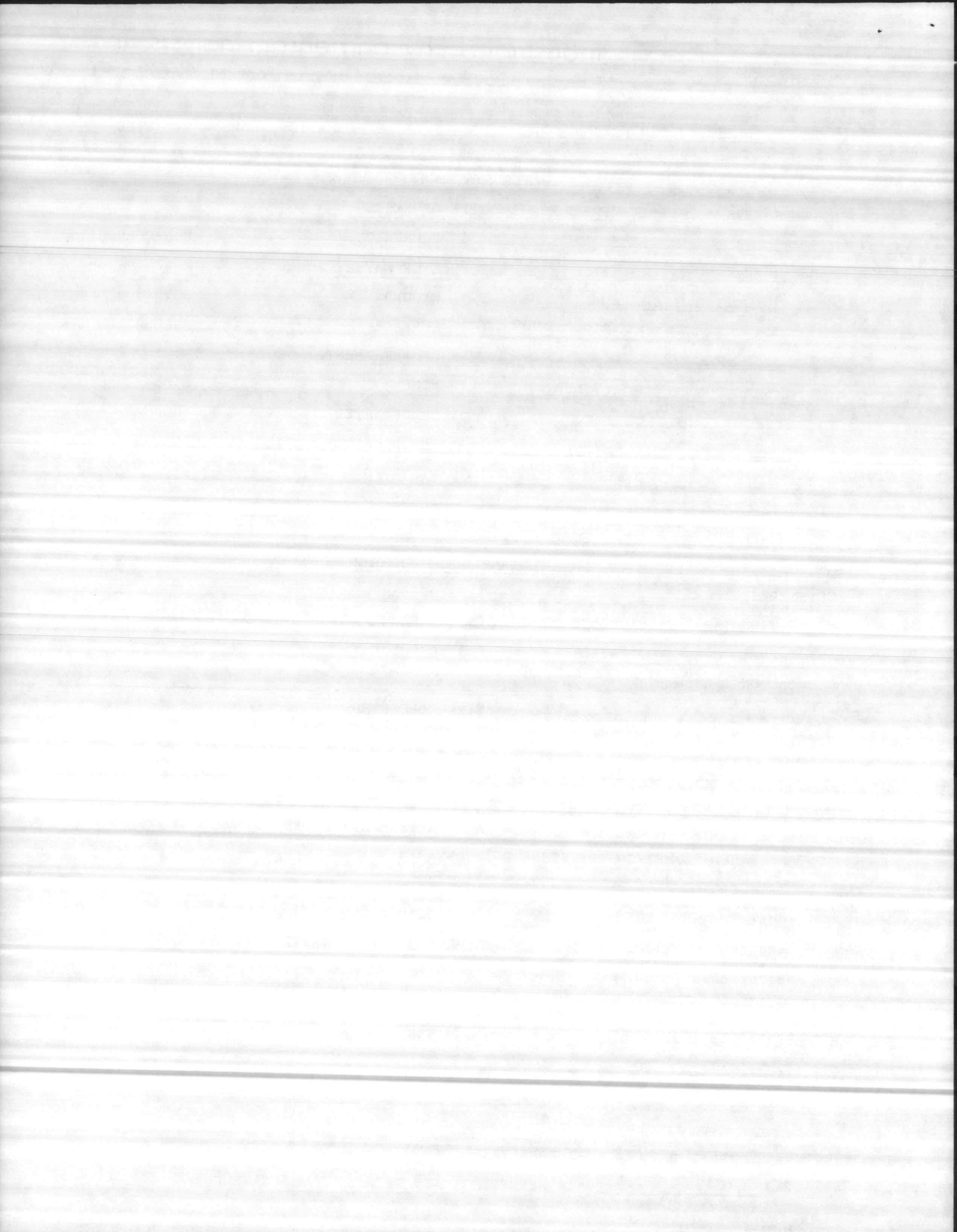
FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.00
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.01
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.03
2020	Toxaphene	201	---	2942	Bromoform	215	0.03
2105	2, 4-D	203	---	2950	Total THM	215	0.08
2110	2, 4, 5-TP	203	---				

DATE RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folk
 DATE EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-3

ENCLOSURE 12



37720
Lab. ID



Industrial & Environmental Analysts, Inc.
P.O. Box 12542 • Research Triangle Park, NC 27709 • 919-467-9000

WATER SYSTEM PERSONNEL TO COMPLETE ALL INFORMATION ABOVE HEAVY LINE

WATER SYSTEM INFORMATION

WATER SYSTEM ID# 04 - 67 - 043 TYPE OF SYSTEM:
 COMMUNITY () NON-COMMUNITY

SYSTEM NAME: HOLCOMB BLVD SOURCE OF WATER:
 GROUND () BOTH
 SURFACE () PURCHASED

ADDRESS: COMMANDING GENERAL, MCB
CAMPLEJEUNE, NC ZIP 28542

COUNTY: ONSLOW TYPE OF TREATMENT:
 NONE LIME
 CHLORINATED () SODA ASH
 FLUORIDATED () POLYPHOSPHATE
 FILTERED WATER SOFTNER
 ALUM () OTHER

PORT TO: AC/S FACILITIES (NREAD)

ADDRESS: SAME AS ABOVE ZIP _____

TELEPHONE: (919) 451-5977

SAMPLE INFORMATION

SOURCE OF SAMPLE TYPE OF SAMPLE
 DISTRIBUTION TAP () HOUSE TAP D-REGULAR () M-M.R.T.
 PLANT TAP () WELL TAP () C-CHECK () S-SPECIAL

SAMPLING LOCATION (Address): X B 670

DATE COLLECTED: X 6-11-87 TIME COLLECTED: X 12:02 pm

COLLECTED BY: EC + MS PERSONNEL LOC. CODE: _____

FOR LABORATORY USE ONLY

STATE DRINKING WATER PARAMETERS

CONTAMINANT ID	NAME	METHOD	RESULTS mg/l	CONTAMINANT ID	NAME	METHOD	RESULTS mg/l
2005	Endrin	201	---	2941	Chloroform	215	0.006
2010	Lindane	201	---	2943	Bromodichloromethane	215	0.006
2015	Methoxychlor	201	---	2944	Chlorodibromomethane	215	0.004
2020	Toxaphene	201	---	2942	Bromoform	215	<0.001
2105	2, 4-D	203	---	2950	Total THM	215	0.016
2110	2, 4, 5-TP	203	---				

RECEIVED 06-12-87 DATE ANALYZED 06-12-87 REPORTED BY E. Folk
EXTRACTED 06-12-87 DATE REPORTED 06-15-87 SAMPLE LAB 304-14-5

REMARKS:

ENCLOSURE (1)

