

11331
NREAD
NOV 12 1986

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

Dear Mr. McPadyen:

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 October 1986. 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 Quality Control Laboratory, located in the NREAD, Assistant Chief of Staff, Facilities. Ms. Betz, Supervisory Chemist, Quality Control Laboratory, telephone (919) 451-5977, is the point of contact in this matter.

Sincerely,

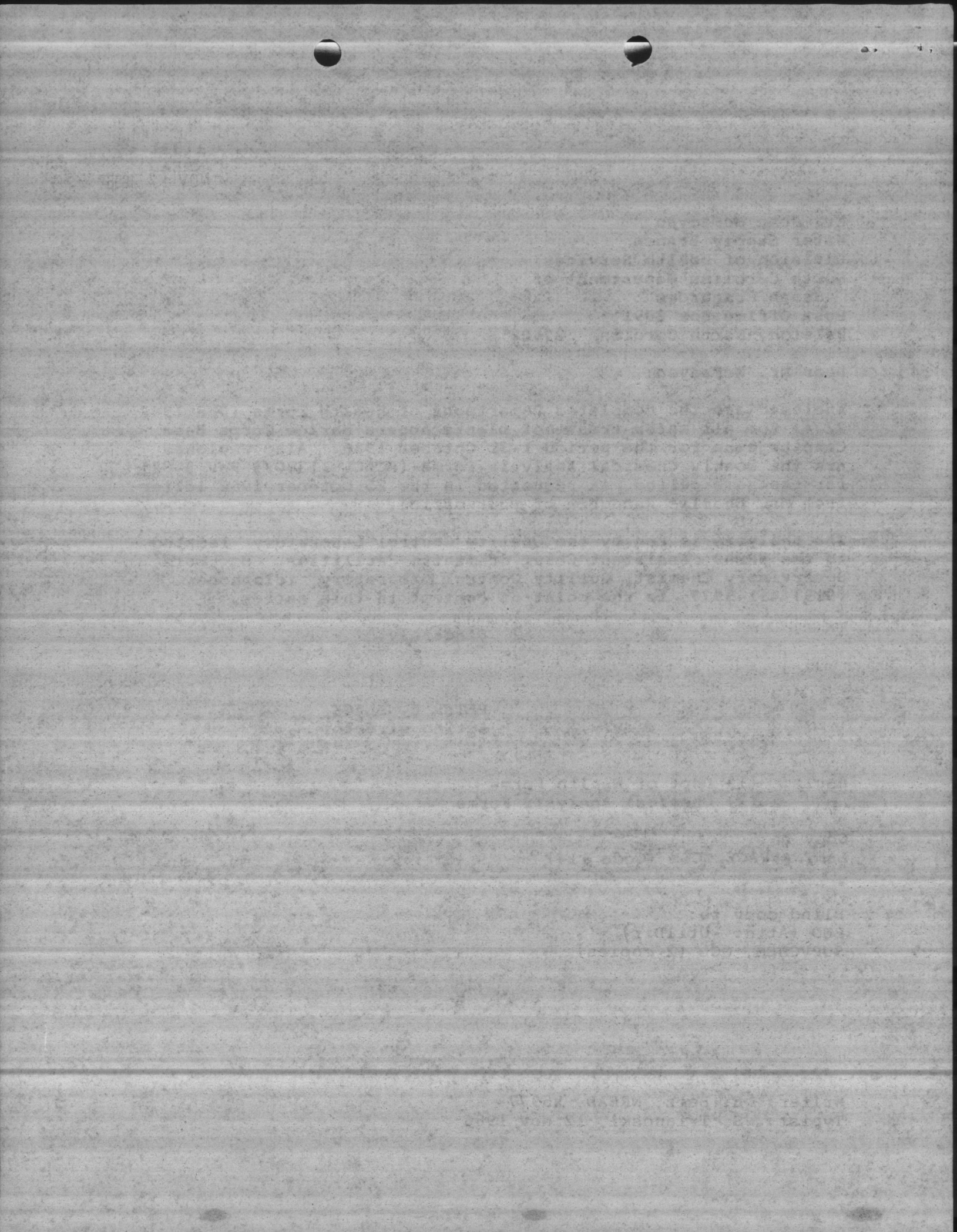
PETER E. BLACK
Acting Director

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

Copy to:
LANTNAVFACENGCOM (Code 114)

Blind copy to:
BMO (Attn: UtilDir)
SUPVCHEM, QCL (2 copies)

Writer: E. Betz, NREAD, x5977
Typist: S. Trianoski, 12 Nov 1986



Month OCTOBER
 Year 1986

FWD: NOT COUNT

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
 Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

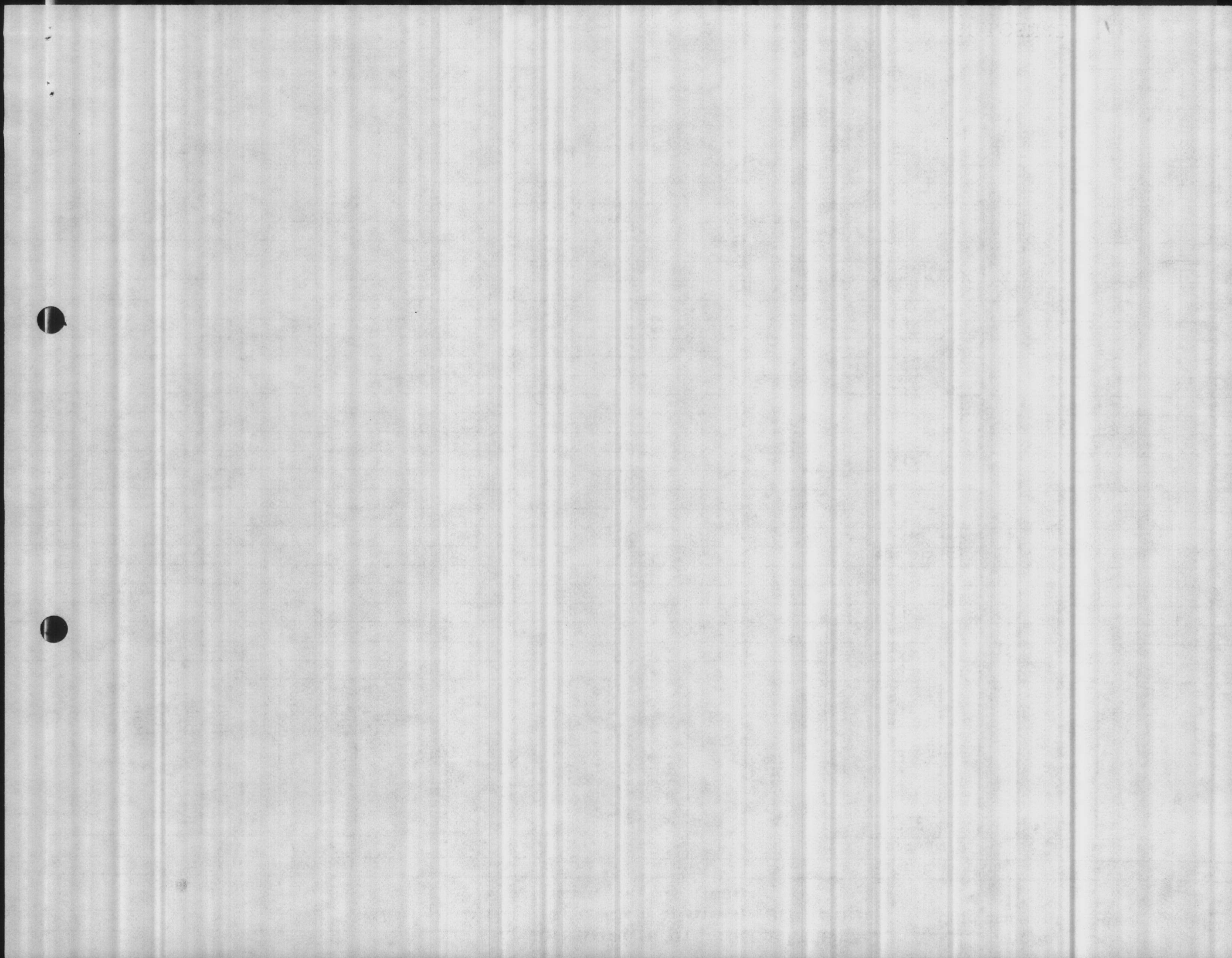
Serial # 04-67-041

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	FILTERED	TOTAL PLATE COUNT	FINISHED	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.	PLANKTON			
	A		B		C									1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	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																				
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MFP MEDIA	BRI mEndo						BACTERIAL DENSITY	ARITH. MEAN					0	DIST. SYSTEM	TOTAL FC. SAMPLES					SAMPLES EXCEEDING 3/30. (4/100, 6/200, 13/500) ml			35			
TPC MEDIA								GEO. MEAN					10							0						

LAB # 37307

Elizabeth A. Berg

ENCLOSURE 111 4087-W



Month OCT 1982
 Year 1982

HOLCOMB BLVD

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-043

N. C. DEPARTMENT OF HUMAN RESOURCES

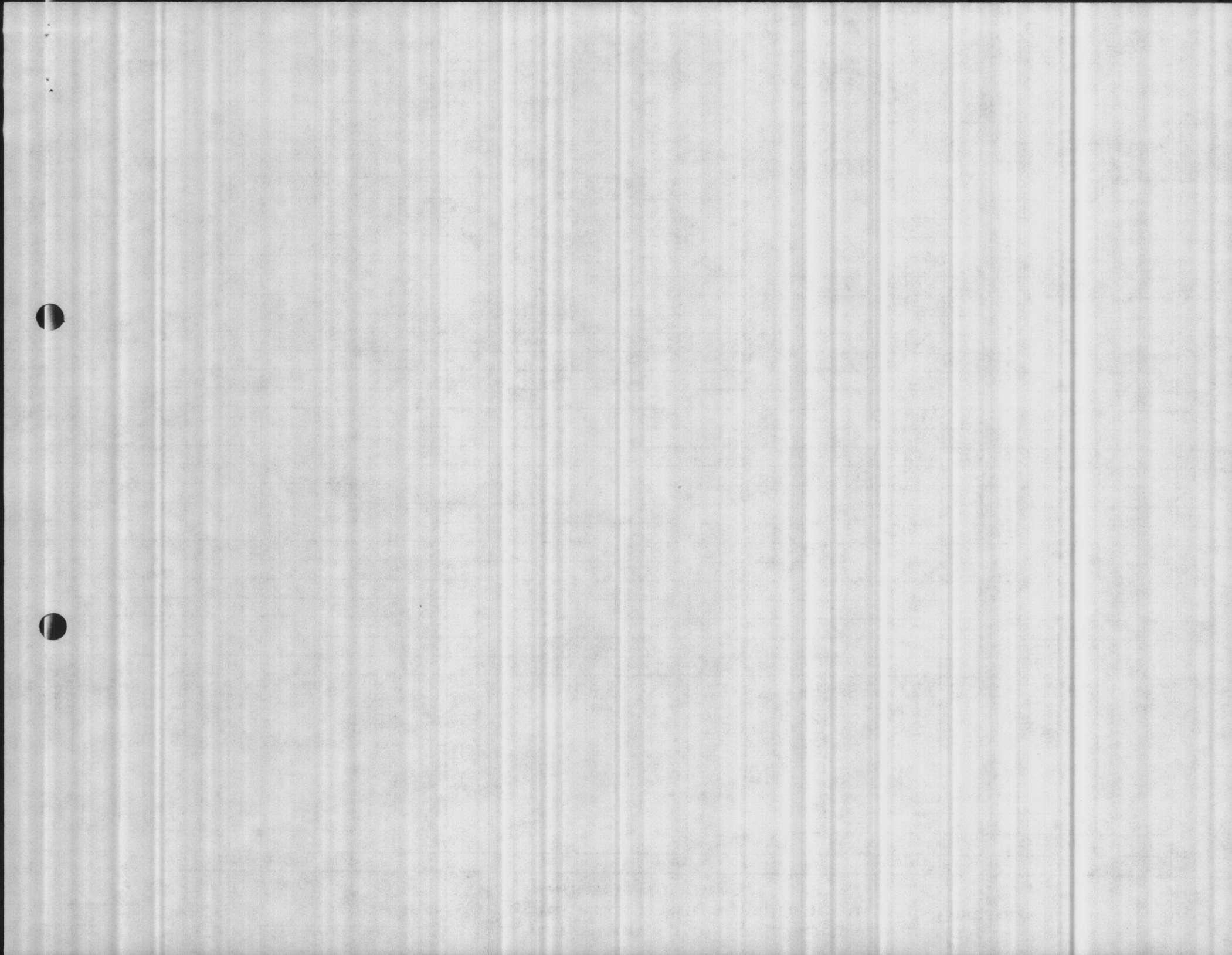
DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM										INCUBATOR TEMP.	PLANKTON					
	A			B			C							COLIFORMS (MFP)					REPEAT SAMPLES											
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM 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.			COLIFORMS per 100 ml.	COLIFORMS per 100 ml.			
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	MF MEDIA	BBI mEndo			BACTERIAL DENSITY	ARITH. MEAN								0	DIST. SYSTEM	TOTAL NO. SAMPLES														
	TPC MEDIA					GEO. MEAN								1.0		SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500ml					23									

LAP # 37307

Elizabeth Betz

B-Well

4087-W



Month October
 Year 1934

HEINE WELLS AIR STATION

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
 Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-042

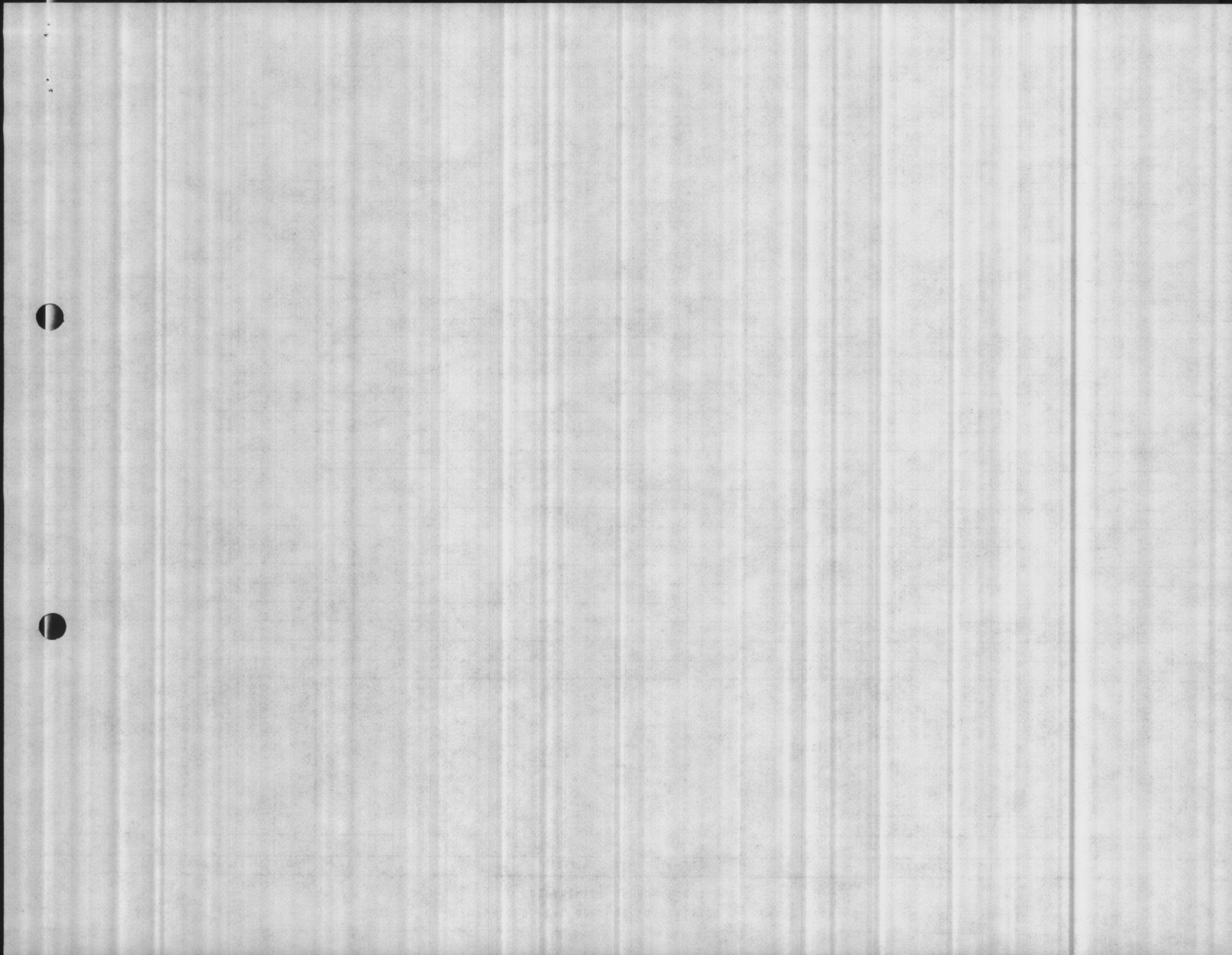
DATE	RAW WATER COLIFORMS (MFP)								NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.	PLANKTON				
	A		B		C		AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED					1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.						
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES																				
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28													0	7	0	0	0	0	0	0	0	0			34.5	
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MEDIA: BBL mEndo
 BACTERIAL DENSITY
 ARITH. MEAN
 GEO. MEAN

AVE. COLIFORMS per 100 ml. 0
 NO. OF SAMPLES EXAMINED 10
 TOTAL NO. SAMPLES 28
 SAMPLES EXCEEDING 3/50. 4/100 7/200. 13/500ml 0

LAB # 37807

Elysetta Betty B-Well 4087-W



UBA
1984

TARAWA TERRACE

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

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.	PLANKTON			
	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.			COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	
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	MF MEDIA	BBI mEndo			DACTERIAL DENSITY	ARITH. MEAN								0	DIST. SYSTEM	TOTAL NO. SAMPLES					16						
	TPC MEDIA					GEO. MEAN								1.0		SAMPLES EXCEEDING 3/500 4/100 7/200 13/500ml					0						

LAB # 37370
37807

Elizabeth R. Berg

B-Well

4087-W



Month OCTOBER
 Year 1986

CAMP JOHNSON

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-045

N. C. DEPARTMENT OF HUMAN RESOURCES

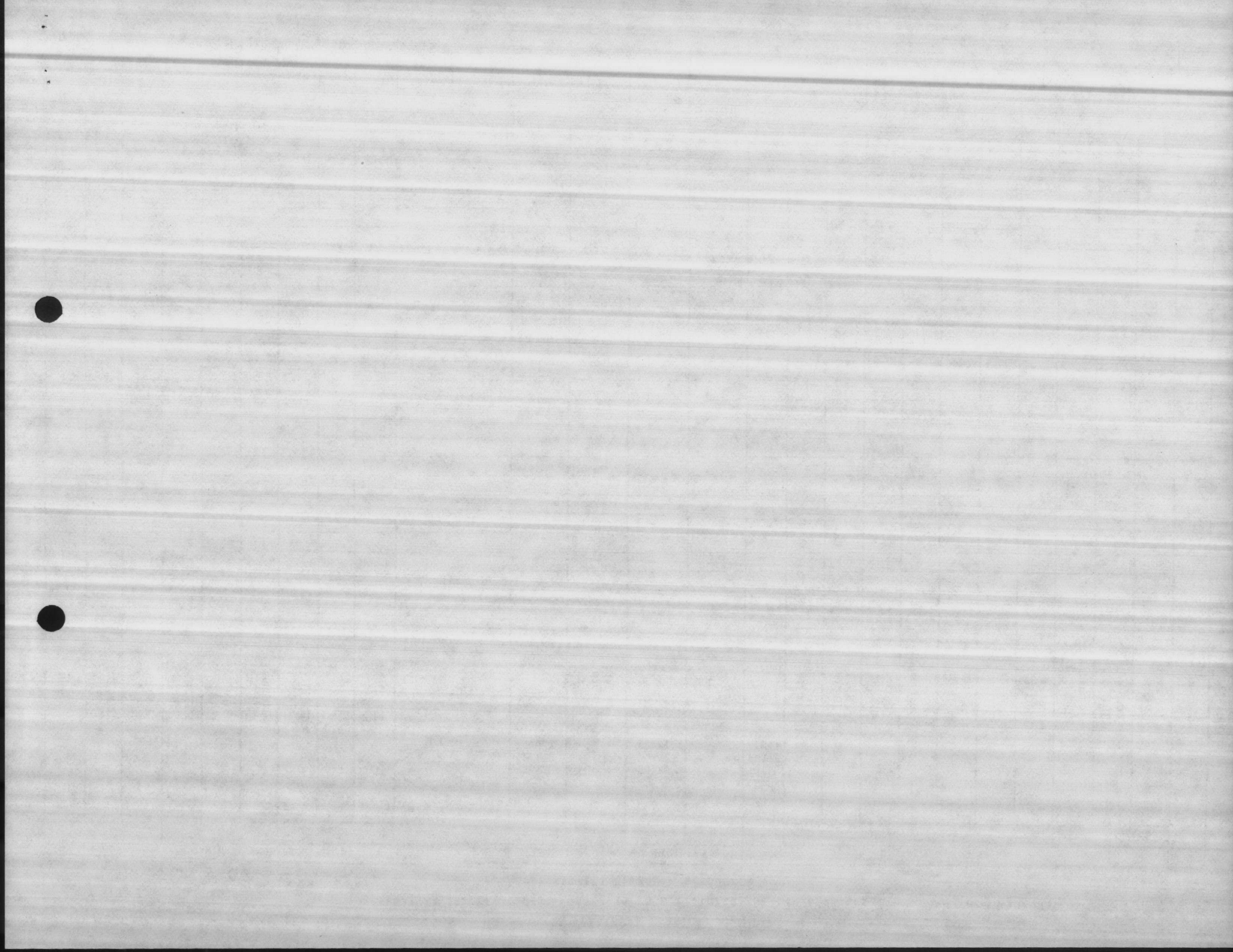
DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM										INCUBATOR TEMP.	PLANKTON				
	A			B			C							COLIFORMS (MFP)					REPEAT SAMPLES										
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM 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.			COLIFORMS per 100 ml.	COLIFORMS per 100 ml.		
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MF MEDIA		BBI mEndo		BACTERIAL DENSITY		ARITH. MEAN		GEO. MEAN																					
TPC MEDIA																													

LAD # 37807

Elyse H. O'Boyle

B-well 4087-W

0 DIST. SYSTEM TOTAL NO. SAMPLES 8
 1.0 SYSTEM SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500 ml 0



Month OCTOBER
 Year 1986

RIFLE RANGE

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

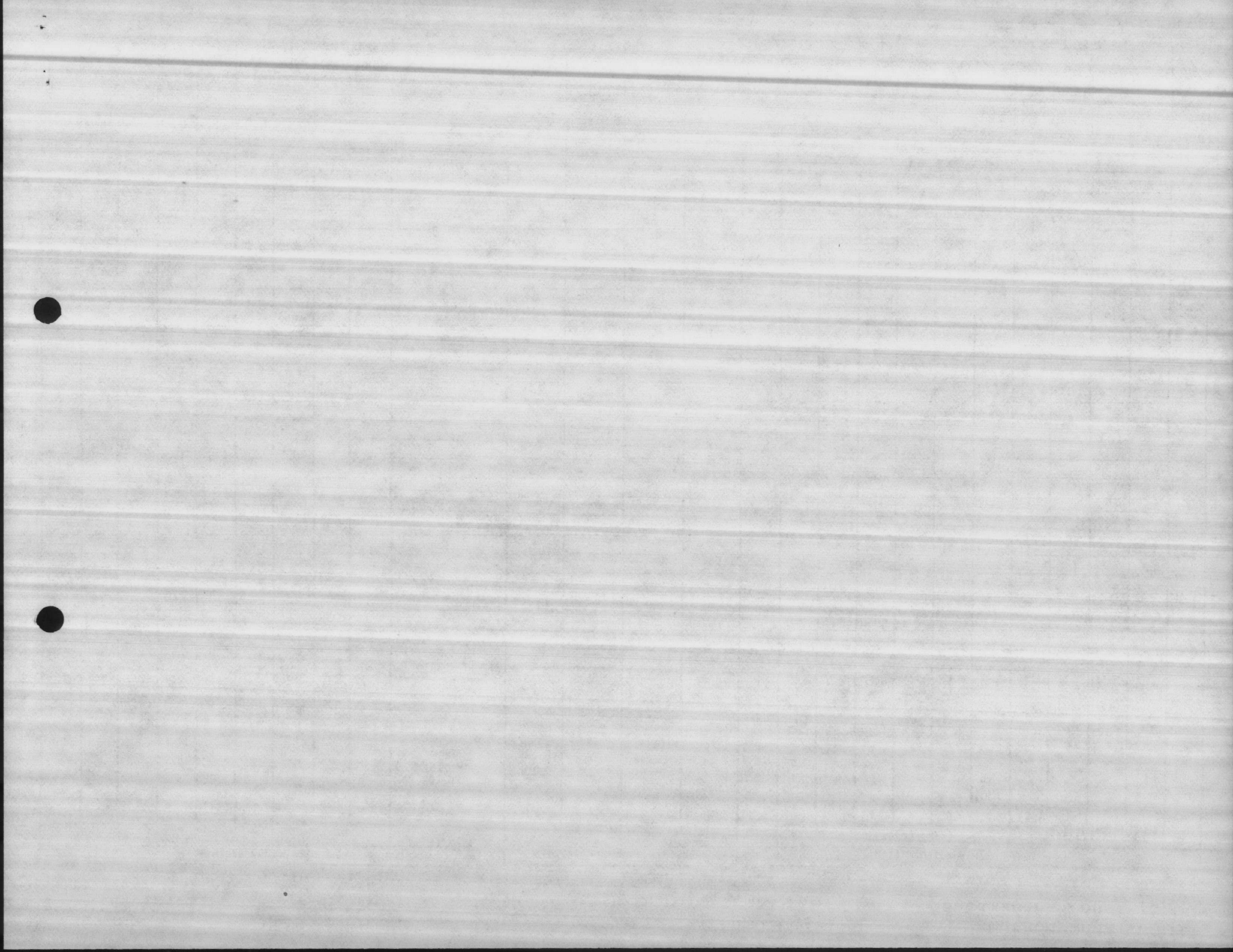
U. S. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-046

DATE	RAW WATER COLIFORMS (MFP)								NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.	PLANKTON
	A		B		C		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.		
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES																
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7												0	W	0	0	0					35.5	
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MFP MEDIA		BBL mEndo		BACTERIAL DENSITY		ARITH. MEAN						0	DIST. SYSTEM		TOTAL NO. SAMPLES						11	
TPC MEDIA						GEO. MEAN						1.0			SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500 ml						0	

LAS ID # 37807

Elizabeth A. Betty B-Well 4087-W



Month 02/05/47
 Year 1947

COURTHOUSE - 1547 WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
 Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

U. S. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-047

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM					INCUBATOR TEMP.	PLANKTON			
	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 GEO. MEAN

DIST. SYSTEM TOTAL NO. SAMPLES SAMPLES EXCEEDING 3/50. (4/100) 7/200. 12/500. 15/1000.

LAP # 37807

Elizabeth C. Bay B. WEL 4087





Month OCTOBER
 Year 1986

UNSLIM DESIGN

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-048

N. C. DEPARTMENT OF HUMAN RESOURCES

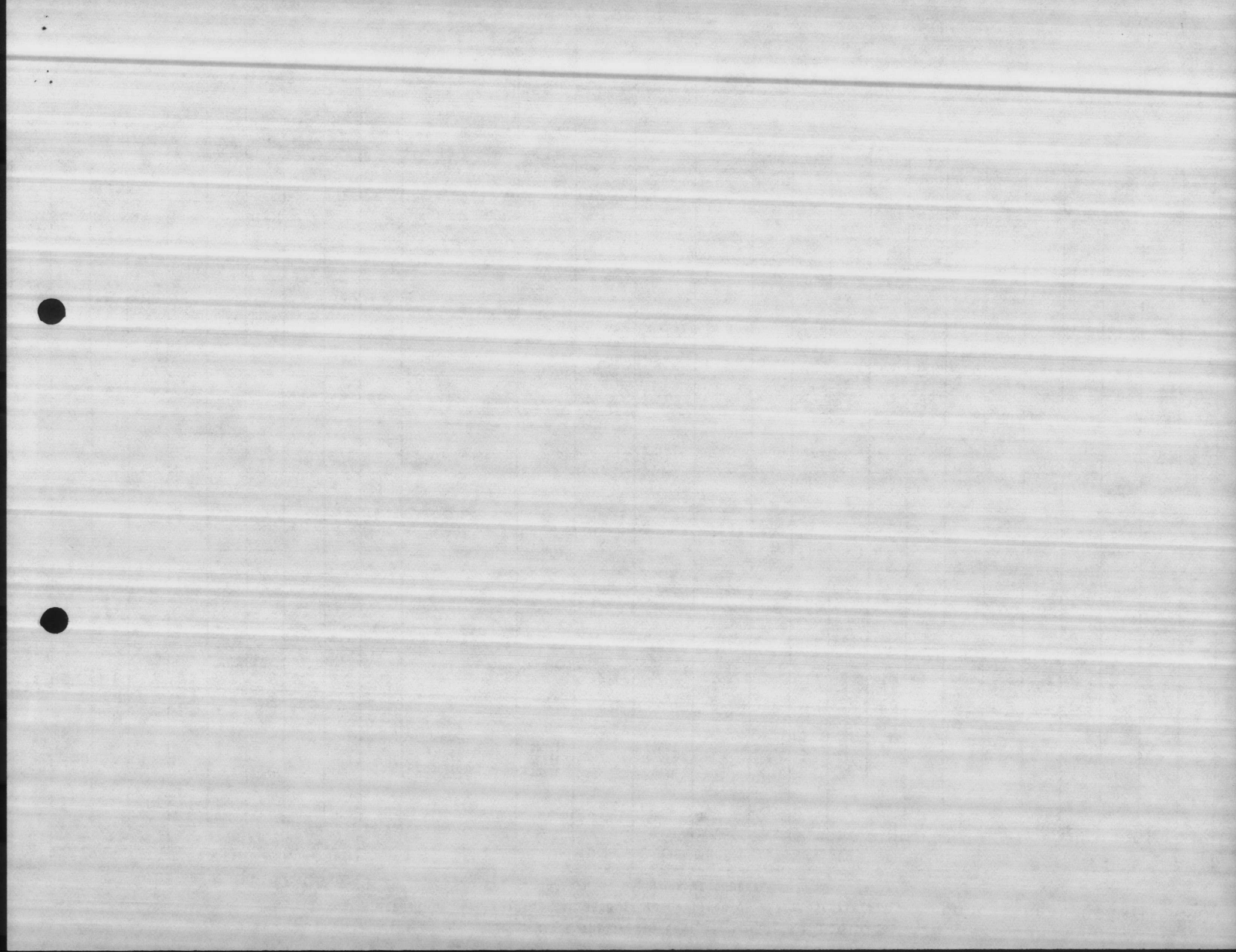
DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.	PLANKTON		
	A		B		C						AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED	1	2	3	4	5	COLIFORMS per 100 ml.			COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES																
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MF MEDIA BBL mEndo BACTERIAL DENSITY ARITH. MEAN
 TPC MEDIA

0 DIST. SYSTEM TOTAL NO. SAMPLES
 SAMPLES EXCEEDING 3/500 4/100 7/200 18/300

LAB ID # 37807

Elizabeth A. Bell B+Well 4087



CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS

MCBCL 11330 3 (REV 6-84)

DATE COLLECTED

10-7-86

DATE OF ANALYSIS

10-7-86

PARAMETER	HADNOT POINT -041	CAMP JOHNSON -043	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	8.5	7.4	9.7	7.4	7.8	8.1	8.5	8.6
PHENOLTHALEIN ALKALINITY	4	0	18	0	0	0	4	14
METHYL ORANGE ALKALINITY	54	176	40	160	170	140	56	160
CARBONATES AS CaCO ₃	8	0	36	0	0	0	8	28
BICARBONATES AS CaCO ₃	46	176	4	160	170	140	48	132
CHLORIDES AS Cl	10	10	10	18	16	20	10	64
HARDNESS AS CaCO ₃	64	72	50	54	64	52	64	60
IRON AS Fe	<0.04	0.23	<0.04	0.18	<0.04	<0.04	<0.04	<0.04
FLUORIDE	Am 0.56 Pm 0.53	0.15	0.18 0.71	0.16	0.11	0.09	0.94 0.93	0.62
CHLORINE RESIDUAL	1.1	1.2	1.0	1.4	1.4	1.0	1.1	0.8
TURBIDITY	Am 0.2 Pm 0.2	1.6	6.3 0.8	0.2	0.2	0.2	0.4 1.7	0.4
TOTAL PHOSPHATE		1.8						
ORTHO PHOSPHATE		0.9						
META PHOSPHATE		0.9						
STABILITY	+0.5	-0.6	+0.7	-0.7	-0.3	-0.1	+0.4	+0.2

REMARKS

COPY TO:

UTIL DIR

WATER TREATMENT

PMU MCAS PMU

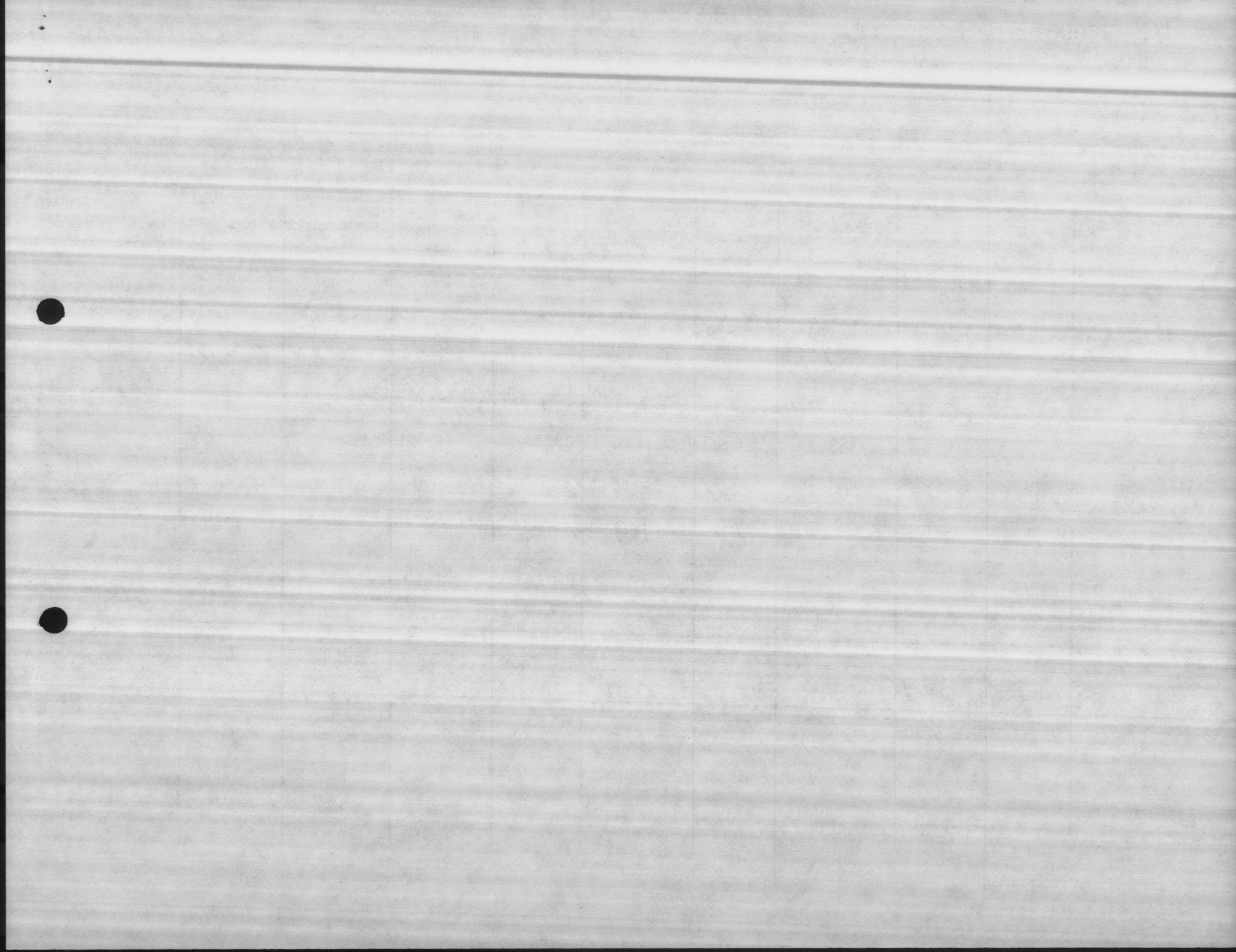
ENCLOSURE

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 BUENS + L LANIK



CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS

MCBCL 11330 3 (REV 6-84)

DATE COLLECTED

10-21-86

DATE OF ANALYSIS

10-21-86

PARAMETER	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 vs Plant)	9.1	7.3	8.4	7.2	7.8	7.9	8.3	8.4
PHENOLTHALEIN ALKALINITY	14	0	4	0	0	0	4	10
METHYL ORANGE ALKALINITY	56	178	56	164	186	162	96	160
CARBONATES AS CaCO ₃	28	0	8	0	0	0	8	20
BICARBONATES AS CaCO ₃	28	178	48	164	186	162	88	140
CHLORIDES AS Cl	10	12	14	20	22	38	16	66
HARDNESS AS CaCO ₃	64	70	74	52	64	70	90	44
IRON AS Fe	20.04	0.20	<0.04	0.18	<0.04	<0.04	<0.04	<0.04
FLUORIDE	Am 0.93 Pm 1.08	0.17	0.64	0.14	0.10	0.09	0.84 0.83	0.53
CHLORINE RESIDUAL	1.1	1.0	1.0	1.3	1.6	1.1	0.9	0.8
TURBIDITY	Am 0.9 Pm 0.4	1.1	0.2 0.5	0.3	0.2	0.3	0.2 0.5	0.6
TOTAL PHOSPHATE		1.8						
ORTHO PHOSPHATE		0.9						
META PHOSPHATE		0.9						
STABILITY	+0.7	-0.6	+0.2	-0.7	-0.2	-0.1	+0.3	+0.2

REMARKS

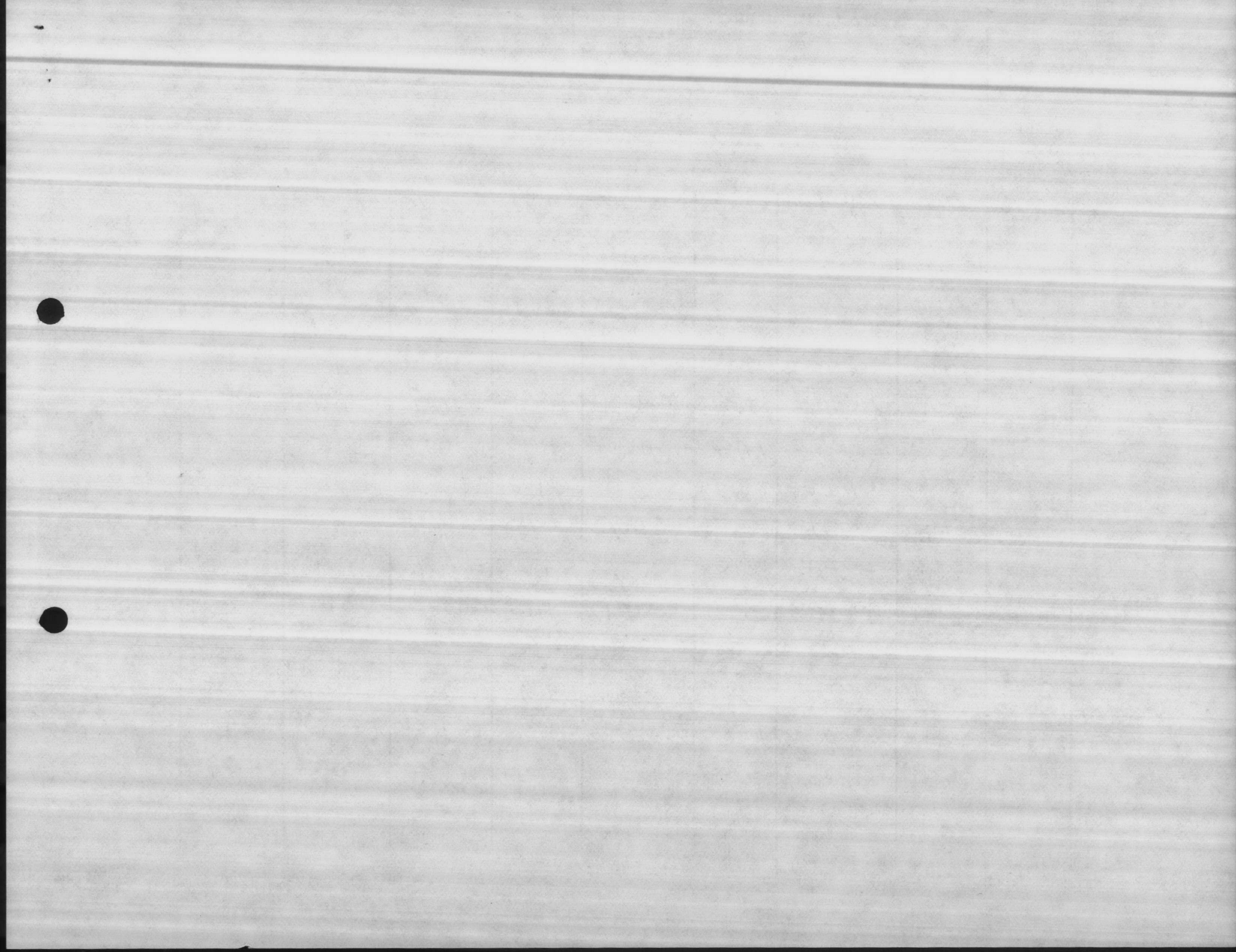
COPY TO:

- 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

L. LAWRE + T. BARBER



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBL 11330/3 (REV 6-84)

DATE COLLECTED

14 OCT 86

DATE OF ANALYSIS

14 OCT 86

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.0	7.3	8.6	7.8	8.4	8.5	8.4	8.7
PHENOLTHALEIN ALKALINITY	0	0	8	0	8	4	2	8
METHYL ORANGE ALKALINITY	58	194	60	162	168	162	64	164
CARBONATES AS CaCO ₃	0	0	16	0	16	8	4	16
BICARBONATES AS CaCO ₃	58	194	44	162	152	154	60	148
CHLORIDES AS Cl	10	8	12	18	14	18	12	54
HARDNESS AS CaCO ₃	60	70	78	64	46	50	72	54
IRON AS Fe	<0.04	0.19	<0.04	0.15	<0.04	<0.04	<0.04	<0.04
FLUORIDE Am/Pm	1.08/1.13	0.16	1.03/0.93	0.15	0.11	0.09	0.95/0.93	0.63
CHLORINE RESIDUAL	1.0	1.5	1.0	1.4	1.4	1.2	1.1	0.7
TURBIDITY Am/Pm	0.2/0.2	0.9	0.4/1.0	0.2	0.2	0.5	0.2/0.5	0.3
TOTAL PHOSPHATE		1.4						
ORTHO PHOSPHATE		0.8						
META PHOSPHATE		0.6						
STABILITY	-0.4	-1.0	+0.2	-0.6	-0.2	0	+0.1	0

REMARKS

OB POND PH = 8.3

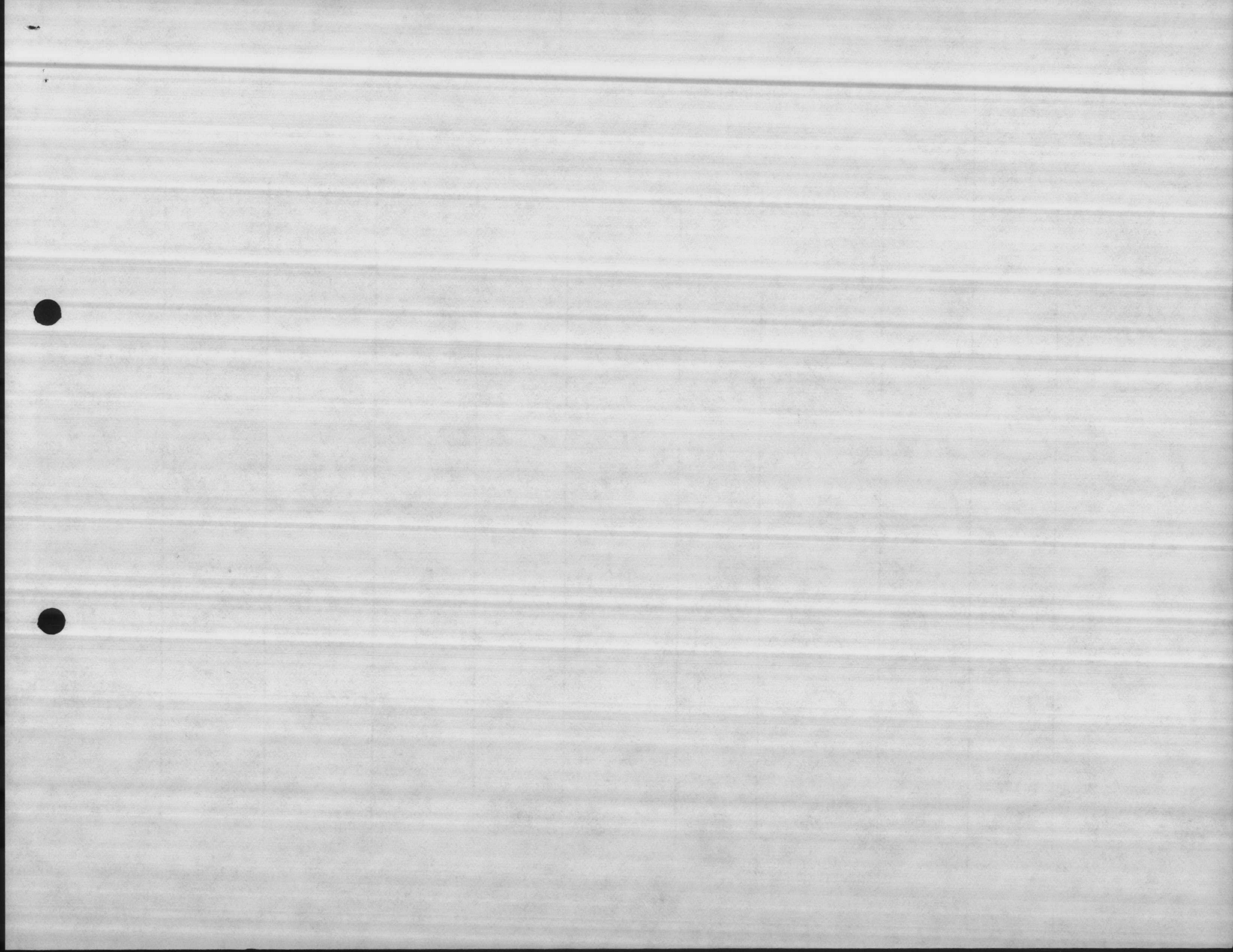
COPY TO:

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 WATER TREATMENT
 PMU MCAS PMU
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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

McBarbee



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330 3 (REV 6-84)

DATE COLLECTED
10-28-86

DATE OF ANALYSIS
10-28-86

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.3	7.2	8.5	7.6	8.0	8.2	8.6	8.7
PHENOLTHALEIN ALKALINITY	4	0	4	0	0	0	4	22
METHYL ORANGE ALKALINITY	54	170	58	160	170	170	50	150
CARBONATES AS CaCO ₃	8	0	8	0	0	0	8	44
BICARBONATES AS CaCO ₃	46	170	50	160	170	170	42	106
CHLORIDES AS Cl	14	10	10	20	14	38	10	64
HARDNESS AS CaCO ₃	64	60	70	72	62	60	60	48
IRON AS Fe	20.04	0.20	20.04	0.19	20.04	20.04	20.04	20.04
FLUORIDE	AM 1.05 PM 1.06	0.17	AM 0.55 PM 0.48	0.17	0.13	0.11	AM 0.87 PM 0.90	0.59
CHLORINE RESIDUAL	1.0	1.0	1.0	1.4	1.3	1.0	0.8	0.8
TURBIDITY	AM 0.5 PM 0.4	1.0	AM 0.6 PM 0.6	0.5	0.5	0.5	AM 1.3 PM 4.9	1.0
TOTAL PHOSPHATE		2.7						
ORTHO PHOSPHATE		1.5						
META PHOSPHATE		1.2						
STABILITY	-0.2	-1.0	+0.3	-0.6	-0.2	-0.1	+0.3	+0.7

REMARKS
DB Pond = 7.8 pH

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

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