

11330/1
NREAD
7 Aug 1984

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 July 1984. 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 Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities. Ms. Elizabeth Betz, Supervisory Chemist, Quality Control Laboratory, telephone (919) 451-5977 is the point of contact in this matter.

Sincerely,

C. D. PETERSON
Acting Director

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

Copy to:
LANTDIV (Code 114)

Blind copy to:
BMO (Attn: UtilDir)
SupvChem

CLW

0000004167

Writer: E. Betz, NREAD 5977
Typist: J. Cross, 7Aug84 5003

SERIAL # 04-67-041

DATE	RAW WATER COLIFORMS (HFP)									NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	FILTERED	TOTAL PLATE COUNT	FINISHED	HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM					REPEAT SAMPLES			INCUBATOR TEMP.			
	A			B			C										COLIFORMS (HFP)					ON 7/1	ON 7/2					
	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	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.				
3																0	9	0	0	0	0	0	0	0	0	0	35.2	
10																0.11	9	1	0	0	0	0	0	0	0	0	0	35.0
17																0	9	0	0	0	0	0	0	0	0	0	0	35.0
24																0	9	0	0	0	0	0	0	0	0	0	0	35.0
31																0	9	0	0	0	0	0	0	0	0	0	0	35.0
																0.02	DIST. SYSTEM	TOTAL NO. SAMPLES					SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml			45		
																1.0										0		

CLW
0000004168

Month 10/24
Year 1984

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

CONTAMINANT CODE: 3000

SERIAL # 04-67-042

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.			
	A		B		C							1	2	3	4	5	ON 1/11	ON 1/12					
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES													COLIFORMS per 100 ml.		COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
2																						35.0	
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24																							35.0
25																							
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27																							
28																							
29																							
30																							
31																							35.0
												DIST. SYSTEM		TOTAL NO. SAMPLES		SAMPLES EXCEEDING 3/50, (4/100), 7/200, 13/500ml							
HF MEDIA												0.34		35									
TPC MEDIA												1.07											

CLW
0000004169

Month JULY
 Year 1984

FOLLOWING PLANT

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

METHOD CODE: 303
 CONTAMINANT CODE: 3000

SERIAL # 04-67-043

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.			
	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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24																			35.0		
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27																					
28																					
29																					
30																					
31																			35.0		
MFP MEDIA		BBL M-ENDO		BACTERIAL DENSITY		ARITH. MEAN						0		DIST. SYSTEM		TOTAL NO. SAMPLES			35		
TPC MEDIA						GEO. MEAN						10				SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml			0		

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 000004170

SERIAL # 04 67-04

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.
	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	ON 7/25	ON 7/26						
1																									
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10																									35.0
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17																									35.0
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24																									35.0
25																									
26																									
27																									
28																									
29																									
30																									
31																									35.0
														0.27	DIST. SYSTEM	TOTAL NO. SAMPLES							15		
														1.00		SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500ml					0				

CLW
0000004171

MONTH YEAR 1984

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

CONTAMINANT CODE: 3000

SERIAL # 04-67-045

DATE	RAW WATER COLIFORMS (HFP)									NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	FILTERED HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	FINISHED HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM										INCUBATOR TEMP.
	A			B			C									COLIFORMS (HFP)					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	ON 7/25	ON 7/26		
3										0	3	0	0	0											35.2	
4																										
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10										0	3	0		0	0										35.0	
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16										0	2	0			0										35.0	
18																										
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22																										
23																										
24										1.67	3	0			5	0				0	0				35.0	
25																										
26																										
27																										
29																										
29																										
30																										
31										0	3	0								0	0				35.0	
HFP MEDIA										TOTAL NO. SAMPLES										14						
TPC MEDIA										SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml										1						
BBL m. ENDO																										
BACTERIAL DENSITY																										
ARITH. MEAN																										
GEO. MEAN																										

CLW
0000004172

0.36
1.02

DIST. SYSTEM

Year 1984

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
 No. 6, DEPARTMENT OF HUMAN RESOURCES

CONTAMINANT CODE: 3000

SERIAL # 04-67-046

DATE	RAW WATER COLIFORMS (HFP)						NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM					INCUBATOR TEMP.					
	A		B		C								COLIFORMS (HFP)						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.		
3												0	3	0	0	0				35.2			
4																							
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10												0	3	0	0		0			35.0			
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16												0	3	0	0		0			35.0			
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24												0	3	0	0		0			35.0			
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29																							
29																							
30																							
31												0	3	0	0		0			35.0			
												TOTAL NO. SAMPLES					15						
												SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml					0						
HF MEDIA <u>BBL M-ENDO</u> TPC MEDIA												BACTERIAL DENSITY		ARITH. MEAN		GEO. MEAN							

GLW
 0000004173

MONTH
YEAR

1984

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

CONTAMINANT CODE: 3600

SERIAL # 04-67-047

DATE	RAW WATER COLIFORMS (MFP)								NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	FINISHED	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	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	1	2	3	4		5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
2																								
3																			35.2					
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24													0	4	0	0	0	0	0	35.0				
25													0000004174											
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29																								
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31													0	4	0	0	0	0	0	35.0				
HF MEDIA	BBL M-ENDO		DACTERIAL DENSITY		ARTH. MEAN		GEO. MEAN						0	4	TOTAL NO. SAMPLES					20				
TPC MEDIA													10		SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500ml					0				

CLW

0000004174

Month JULY
Year 1984

UNCLASSIFIED

WATER TREATMENT PLANT AT LAKEVIEW RESERVOIR

METHOD CODE: 3000
CONTAMINANT CODE: 3000

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

SERIAL # 04 67-048

DATE	RAW WATER COLIFORMS (MFP)								NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.			
	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																	
2																							
3												0	2	0	0						35.2		
4																							
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17												0	2	0		0					35.0		
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28																							
29																							
30																							
31												0	2	0		0					35.0		
HF MEDIA	<u>BBL m-ENDO</u>		DACTERIAL DENSITY	ARITH. MEAN																			
TPC MEDIA				GEO. MEAN																			
												1.0	DIST. SYSTEM	TOTAL NO. SAMPLES					SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml			10	

CLW
0000004175

CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED
 3 JULY 84

PARAMETER SERIAL #04.67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE DAY -047	RIFLE RANGE -046	HOLCOMB BLYO -043	NEW RIVER -042	
PH (IN LAB NOT PLANT)	8.36	7.52	7.73	7.64	8.57	8.55	8.78	8.90	
PENOLTHALEIN ALKALINITY	4	0	0	0	4	2	4	10	
METHYL ORANGE ALKALINITY	54	178	148	124	166	158	70	162	
CARBONATES AS CaCO ₃	8	0	0	0	8	4	8	20	
CARBONATES AS CaCO ₃	46	178	148	124	158	154	62	142	
CHLORIDES AS Cl	10	18	16	28	20	16	14	134	
HARDNESS AS CaCO ₃	58	54	154	56	60	52	70	56	
IRON AS Fe	< 0.04	0.48	0.10	0.25	< 0.04	0.05	< 0.04	0.09	
FLUORIDE	AM 0.17 PM 0.99	0.16	0.79 0.70	0.19	0.10	0.08	0.90 0.88	0.73	
CHLORINE RESIDUAL	1.1	1.3	1.0	1.6	1.2	1.0	0.9	1.3	
TURBIDITY	AM 0.63 PM 0.83	0.44	0.51 0.50	0.38	0.25	0.30	0.28 0.20	2.64	
TOTAL PHOSPHATE		1.54			1.13				
ORTHO PHOSPHATE		1.04			0.25				
META PHOSPHATE		0.50			0.88				
STABILITY	-0.35	-0.81	-0.49	-0.71	+0.07	0	CLW.28	+0.10	

REMARKS 0000004176

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
 Th Barbee

RJ LACHAPPELLE

DATE OF ANALYSIS
 3 JULY 84

Anal (2)

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED

10 JULY 84

PARAMETER SERIAL # 04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE DAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042	
PH (IN LAB NOT PLANT)	8.8	7.5	8.7	7.6	8.5	8.3	8.9	8.9	
PENOLTHALEIN ALKALINITY	4	0	4	0	4	2	6	4	
METHYL ORANGE ALKALINITY	64	170	56	150	170	150	60	150	
CARBONATES AS CaCO ₃	8	0	8	0	8	4	12	8	
BICARBONATES AS CaCO ₃	56	170	48	150	162	146	48	142	
CHLORIDES AS Cl	10	30	10	14	18	10	10	134	
HARDNESS AS CaCO ₃	72	68	70	64	64	38	60	58	
IRON AS Fe	0.06	0.68	<0.04	0.40	<0.04	0.05	<0.04	0.08	
FLUORIDE	AM 1.17 PM 1.10	0.16	0.93 0.91	0.17	0.09	0.08	1.30 1.25	0.60	
CHLORINE RESIDUAL	1.1	1.4	1.0	1.3	1.3	1.0	0.8	1.2	
TURBIDITY	AM 3.3 PM 3.3	1.4	0.2 0.6	0.52	0.40	0.40	0.2 0.57	1.00	
TOTAL PHOSPHATE		4.80			0.92				
ORTHO PHOSPHATE		1.66			0.22				
META PHOSPHATE		3.14			0.70				
STABILITY	+0.5 +0.05	-0.8	+0.3	-0.8	+0.1	-0.2	+0.5	+0.3	

REMARKS

CLW

0000004177

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

HJ BURNS

DATE OF ANALYSIS

10 JULY 84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED

7/31/84

PARAMETER SERIAL #0467	HADNOT POINT -041	MONTFORD POINT -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	8.3	8.3	7.4	8.4	8.2	8.7	8.7
PENOLTHALEIN ALKALINITY	6	0	0	0	2	0	4	10
METHYL ORANGE ALKALINITY	54	192	66	150	142	168	66	176
CARBONATES AS CaCO ₃	12	0	0	0	4	0	8	20
BICARBONATES AS CaCO ₃	42	192	66	150	138	168	58	156
CHLORIDES AS Cl	14	48	14	26	26	44	20	180
HARDNESS AS CaCO ₃	56	154	78	46	46	52	60	56
IRON AS Fe	0.04	1.10	<0.04	0.08	0.05	<0.04	0.05	0.04
FLUORIDE	AM PM 1.17 1.14	0.19	1.24 1.07	0.19	0.14	0.11	0.81 0.82	0.76
CHLORINE RESIDUAL	1.1	1.3	1.0	1.2	1.5	1.0	0.9	1.2
TURBIDITY	AM PM 0.6 0.6	1.1	0.60 1.0	0.30	0.20	0.40	0.20 0.30	0.60
TOTAL PHOSPHATE		1.17			1.21			
ORTHO PHOSPHATE		0.88			0.25			
META PHOSPHATE		0.29			0.96			
STABILITY	+0.6	-0.3	+0.1	-0.6	+0.1	-0.1	OLW +0.5	+0.2
REMARKS								

0000004178

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

BURNS + BARBER

DATE OF ANALYSIS

7/31/84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED

24 JULY 84

PARAMETER SERIAL #0467	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	8.9	7.2	8.6	7.4	8.4	8.4	8.9	8.4
PENOLTHALEIN ALKALINITY	4	0	4	0	4	4	6	6
METHYL ORANGE ALKALINITY	56	190	58	160	170	164	62	178
CARBONATES AS CaCO ₃	8	0	8	0	8	8	12	12
NON-CARBONATES AS CaCO ₃	48	190	50	160	162	156	50	166
CHLORIDES AS Cl	12	48	16	24	22	20	18	156
HARDNESS AS CaCO ₃	60	86	80	72	60	48	58	76
IRON AS Fe	<0.04	0.77	<0.04	0.12	<0.04	<0.04	<0.04	<0.04
FLUORIDE	AM PM 1.00 1.06	0.17	0.97 1.04	0.18	0.12	0.10	0.78 0.90	0.72
CHLORINE RESIDUAL	1.0	1.5	1.1	1.4	1.5	1.0	0.9	1.3
TURBIDITY	AM PM 3.1 3.7	0.9	0.4 1.7	0.4	0.3	0.4	0.2 0.2	0.6
TOTAL PHOSPHATE		3.45			0.92			
ORTHO PHOSPHATE		1.38			0.13			
META PHOSPHATE		2.07			0.79			
STABILITY	+0.6	-0.9	+0.2	-0.8	+0.1W	0.0	+0.5	0.0

REMARKS

0000004179

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

LACHAPELLE & TH BARBIE

DATE OF ANALYSIS

24 JULY 84

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED

17 July 84

PARAMETER SERIAL #04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	9.1	7.4	9.3	7.6	8.4	8.3	8.8	8.9
PENOLTHALEIN ALKALINITY	10	0	10	0	2	2	4	10
METHYL ORANGE ALKALINITY	40	180	30	154	140	146	60	160
CARBONATES AS CaCO ₃	20	0	20	0	4	4	8	20
BICARBONATES AS CaCO ₃	20	180	10	154	136	142	52	140
CHLORIDES AS Cl	10	40	10	16	10	10	10	150
HARDNESS AS CaCO ₃	48	70	50	60	58	42	66	60
IRON AS Fe	<0.04	0.49	<0.04	0.21	<0.04	0.08	0.06	0.06
FLUORIDE	AM 1.01 PM 1.05	0.17	0.99 0.99	0.19	0.10	0.07	1.40 1.30	0.67
CHLORINE RESIDUAL	1.0	1.4	1.0	1.9	1.3	1.0	0.9	1.3
TURBIDITY	AM 1.5 PM 0.7	1.0	0.7 5.6	0.3	0.20	0.4	0.20 0.30	0.90
TOTAL PHOSPHATE		4.05			0.92			
ORTHO PHOSPHATE		1.35			0.16			
META PHOSPHATE		2.70			0.76			
STABILITY	+0.3	-0.6	+0.3	-0.6	+0.1	-0.1	+0.2	+0.1

REMARKS

CLW

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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

HJBUENS

TH BARBER

DATE OF ANALYSIS

17 JULY 84