

11330/1  
NFRAD  
6 Sep 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 August 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,

J. I. WOOTEN  
Director

Encl:

- (1) Dept of Health Forms
- (2) Chemical Analysis Forms

Copy to:  
LANTDIV (Code 114)

Blind copy to:  
BMO (Attn: UtilDir)

SupvChem

Writer: E. Betz, NREAD, 5977  
Typist: J. Cross, 5Sep84, 5003

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SERIAL # 04-67-043

Year

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	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																				
4																				
5																				
6																				
7	37											0	7	0	0	0	0	0	0	35.2
8																				
9																				
10																				
11																				
12																				
13																				
14	37											0	7	0	0	0	0	0	0	35.2
15																				
16																				
18																				
19																				
20																				
21	37											0	7	0	0	0	0	0	0	35.0
22																				
23																				
24																				
25																				
26																				
27																				
28	37											0	7	0	0	0	0	0	0	35.0
29																				
30																				
31																				
MF MEDIA	BBL m-ENDO		BACTERIAL DENSITY	ARTH. MEAN		GEO. MEAN						0	DIST. SYSTEM	TOTAL NO. SAMPLES					28	
TPC MEDIA												10		SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500ml					0	

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YEAR 1937

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

SERIAL # 04-67-04

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED	FINISHED	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	OK	DN									
2																									
3																									
4																									
5																									
6																									
7											0	3	0	0	0									35.2	
8																									
9																									
10																									
11																									
12																									
13																									
14											0	3	0	0	0									35.2	
15																									
16																									
18																									
19																									
20																									
21											0	3	0	0										35.0	
22																									
23																									
24																									
25																									
26																									
27																									
28											0.33	3	0	0							11	0	0	35.0	
29																									
30																									
31																									
HF MEDIA		BBL M-ENDO		BACTERIAL DENSITY		ARITH. MEAN																		12	
TPC MEDIA						GEO. MEAN																		0	

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

7 AUGUST 84

PARAMETER SERIAL # 04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -043	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -046
PH (IN LAB NOT PLANT)	8.7	7.6	8.6	7.4	8.5	8.1	8.8	8.7
PENOLTHALEIN ALKALINITY	4	0	2	0	4	0	2	12
METHYL ORANGE ALKALINITY	56	168	60	162	156	172	60	174
CARBONATES AS CaCO <sub>3</sub>	8	0	4	0	8	0	4	24
BICARBONATES AS CaCO <sub>3</sub>	48	168	56	162	148	172	56	150
CHLORIDES AS Cl	14	34	14	20	24	46	14	170
HARDNESS AS CaCO <sub>3</sub>	64	90	78	74	66	46	60	50
IRON AS Fe	0.06	0.68	0.06	0.22	0.04	0.11	0.04	0.04
FLUORIDE	AM PM 0.97 1.04	0.19	0.96 1.00	0.16	0.12	0.12	1.01 1.05	0.76
CHLORINE RESIDUAL	1.0	1.3	1.0	1.1	1.5	1.0	1.1	1.2
TURBIDITY	AM PM 0.4 0.7	1.57	0.5 0.6	0.3	0.3	0.5	0.3 0.3	0.8
TOTAL PHOSPHATE		3.30			0.73			
ORTHO PHOSPHATE		1.46			0.16			
META PHOSPHATE		1.84			0.57			
STABILITY	+0.2	-0.7	+0.2	-1.0	-0.1	-0.5	+0.3	0.0

REMARKS

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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  
 LACHAPELLE, BURNS, BARAFF

DATE OF ANALYSIS  
 7 AUG. 1984

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

14 AUGUST 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 -046
PH (IN LAB NOT PLANT)	9.3	7.6	8.7	7.7	8.3	8.1	8.8	8.8
PENOLTHALEIN ALKALINITY	6	0	2	0	2	0	4	8
METHYL ORANGE ALKALINITY	46	184	50	160	152	176	56	180
CARBONATES AS CaCO <sub>3</sub>	12	0	4	0	4	0	8	16
DI-CARBONATES AS CaCO <sub>3</sub>	34	184	46	160	148	176	48	164
CHLORIDES AS Cl	14	30	10	20	14	48	10	190
HARDNESS AS CaCO <sub>3</sub>	56	74	68	50	70	72	70	50
IRON AS Fe	0.04	0.49	<0.04	0.09	0.06	<0.04	<0.04	<0.04
FLUORIDE	AM PM 1.02 1.05	0.2	0.96 1.00	0.21	0.14	0.13	0.95 0.96	0.82
CHLORINE RESIDUAL	1.1	1.2	1.0	1.6	1.3	1.1	1.0	1.3
TURBIDITY	AM PM 0.8 1.0	1.52	0.2 0.72	0.6	0.3	0.4	0.2 0.2	0.70
TOTAL PHOSPHATE		2.80			1.35			
ORTHO PHOSPHATE		1.17			0.22			
META PHOSPHATE		1.63			1.13			
STABILITY	+0.8	-0.6	+0.4	-0.6	0.0	-0.1	+0.3	0.0

REMARKS

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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  
 BURNS & HONEYCUTT

DATE OF ANALYSIS  
 14 AUG 84

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

8/21/84

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)	8.7	7.4	8.5	7.5	8.6	8.3	8.7	8.7
PENOLTHALEIN ALKALINITY	4	0	4	0	4	0	4	10
METHYL ORANGE ALKALINITY	60	190	66	160	140	176	70	200
● CARBONATES AS CaCO <sub>3</sub>	8	0	8	0	8	0	8	20
BICARBONATES AS CaCO <sub>3</sub>	52	190	58	160	132	176	62	180
CHLORIDES AS Cl	10	40	16	24	20	50	12	180
HARDNESS AS CaCO <sub>3</sub>	60	80	90	64	54	78	64	60
IRON AS Fe	<0.04	1.52	<0.04	0.12	<0.04	<0.04	<0.04	<0.04
FLUORIDE	AM 1.03 PM 1.05	0.16	0.96 1.00	0.17	0.11	0.11	1.11 1.02	0.92
CHLORINE RESIDUAL	1.0	1.4	1.0	1.5	1.6	1.0	1.0	1.4
TURBIDITY	AM 0.50 PM 0.80	2.9	0.30 0.70	0.30	0.40	0.40	0.30 0.30	0.60
● TOTAL PHOSPHATE		2.05			1.30			
ORTHO PHOSPHATE		1.46			0.35			
META PHOSPHATE		0.59			0.95			
STABILITY	+0.5	-0.7	+0.3	-0.7	+0.2	0.0 GLW	+0.5	+0.1

REMARKS

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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

BURNS & LACAPPELLE

DATE OF ANALYSIS

8/21/84

28 AUG. 1984

PARAMETER SERIAL # 04:61	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	7.4	8.4	7.4	8.4	8.1	8.9	8.7
PENOLTHALEIN ALKALINITY	4	0	2	0	6	3	6	12
METHYL ORANGE ALKALINITY	60	190	74	160	164	184	60	214
CARBONATES AS CaCO <sub>3</sub>	8	0	4	0	12	6	12	24
CARBONATES AS CaCO <sub>3</sub>	52	190	70	160	152	178	48	190
CHLORIDES AS Cl	14	42	14	24	18	52	16	184
HARDNESS AS CaCO <sub>3</sub>	70	78	96	62	58	70	62	60
IRON AS Fe	<0.04	0.52	<0.04	0.14	<0.04	0.15	<0.04	<0.04
FLUORIDE	Am PM <del>1.09</del> 1.06	0.16	<del>1.02</del> 1.11	0.15	0.11	0.11	<del>0.67</del> 1.07	0.93
CHLORINE RESIDUAL	1.0	1.3	1.0	1.3	1.3	1.1	0.9	1.2
TURBIDITY	Am PM <del>0.4</del> 0.5	1.5	<del>0.2</del> 8.6	0.2	0.4	0.6	<del>0.2</del> 0.2	0.6
TOTAL PHOSPHATE		2.80			1.26			
ORTHO PHOSPHATE		1.10			0.35			
META PHOSPHATE		1.70			0.91			
STABILITY	+0.5	-0.7	+0.2	-0.7	0.0	+0.2	+0.6	+0.2

REMARKS

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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

LACHAPPELLE & BURNS

DATE OF ANALYSIS

28 AUG. 1984