

NREAD/DDS/jc
6280/1
8 May 1984

From: Commanding General
To: Commanding Officer, Naval Regional Medical Center
Subj: Water Quality Monitoring and Related Environmental Health Considerations
Ref: (a) CG MCB CLNC ltr NREAD/DDS/th 11330/2 of 19 May 1983
Encl: (1) Weekly Chemical Analysis of Drinking Water
(2) Weekly Bacteriological Analysis of Drinking Water
(3) Weekly NRMC Ice Samples Bacteriological Analysis
(4) Analysis of Complaint Samples
(5) Analysis of Triangle Outpost Well

1. In accordance with the reference, enclosures (1) through (5) are forwarded for information.

2. Questions regarding this matter should be forwarded to Mr. Danny Sharpe, Supervisory Ecologist, extensions 2083/5003/1690.

J. I. WOOTEN
By direction

Blind copy to:
SupvChemist

CLW
0000004274

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

File
 DATE COLLECTED
 3/17/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.8	7.4	8.7	7.7	8.3	8.3	8.3	8.5	
PENOLTHALEIN ALKALINITY	4	0	8	0	8	8	18	24	
METHYL ORANGE ALKALINITY	16	150	56	156	180	176	58	166	
CARBONATES AS CaCO ₃	8	0	16	0	16	16	36	48	
BICARBONATES CaCO ₃	8	150	40	156	114	110	22	118	
CHLORIDES AS Cl	14	36	14	20	20	20	20	104	
HARDNESS AS CaCO ₃	6.2	76	66	58	64	54	66	78	
IRON AS Fe	0.04	0.55	0.04	0.32	0.04	0.08	0.04	0.08	
FLUORIDE	1.00 0.87	0.16	1.89 0.88	0.18	0.10	0.09	0.98 0.93	0.53	
CHLORINE RESIDUAL	1.1	1.3	1.0	1.1	1.3	1.0	0.9	1.3	
TURBIDITY	0.30	1.20	0.20 0.70	0.30	0.20	0.50	0.20 0.20	1.40	
TOTAL PHOSPHATE		3.85			1.30				
ORTHO PHOSPHATE		1.54			0.52				
META PHOSPHATE		2.31			0.78				
STABILITY	0.3	0.5	0.1	0.4	0.0	0.1	0.2	0.0	

REMARKS
 CLW
 0000004275

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
[Signature]

DATE OF ANALYSIS
 3/16/84

[Handwritten note]

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

White Deer

DATE COLLECTED

10 April 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	9.1	7.3	8.9	7.4	8.2	8.2	8.7	9.0
PENOLTHALEIN ALKALINITY	8	0	4	0	2	4	6	16
METHYL ORANGE ALKALINITY	60	190	54	160	176	170	70	154
CARBONATES AS CaCO ₃	16	0	8	0	4	8	12	32
BICARBONATES AS CaCO ₃	44	190	46	160	172	162	58	122
CHLORIDES AS Cl	8	32	8	16	14	14	10	98
HARDNESS AS CaCO ₃	62	84	64	58	62	64	70	48
IRON AS Fe	0.04	0.58	0.04	1.27	0.04	0.06	0.04	0.14
FLUORIDE	AM 0.85 PM 0.99	0.14	1.05 0.98	0.17	0.10	0.09	0.76 0.76	0.64
CHLORINE RESIDUAL	1.1	1.3	1.0	1.4	1.5	1.0	1.1	1.2
TURBIDITY	AM PM 1.40	0.76	0.29 0.38	1.2	0.30	0.30	0.18 0.20	1.30
TOTAL PHOSPHATE		2.60			1.40			
ORTHO PHOSPHATE		1.26			0.25			
META PHOSPHATE		1.34			1.15			
STABILITY	+0.5	-0.6	+0.3	-0.8	-0.1	-0.1	+0.3	+0.1

REMARKS

CLW

0000004276

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

DATE OF ANALYSIS

10 April 1984

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

DATE COLLECTED

17 April 1984

PARAMETER	HADNOT POINT	MONTFORD POINT <i>OMP JOHNSON</i>	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CHB PLANT	TY 1539
PH	9.0	7.3	8.5	7.4	8.2	8.2	8.9	8.6	8.3	8.6
PENOLTHALEIN ALKALINITY	6	0	2	0	4	4	8	10	4	4
METHYL ORANGE ALKALINITY	54	184	64	138	170	170	60	150	174	64
CARBONATES AS CaCO ₃	12	0	4	0	8	8	16	20	8	8
BICARBONATES AS CaCO ₃	42	184	60	138	162	162	44	130	166	56
CHLORIDES AS Cl	8	36	12	18	14	20	8	64	16	10
HARDNESS AS CaCO ₃	58	78	74	68	60	56	58	50	60	76
IRON AS Fe	0.03	0.60	0.04	0.27	0.04	0.07	0.04	0.13	0.04	0.04
FLUORIDE	AM PM 1.15 1.19	0.16	0.98 0.01	0.19	0.12	0.10	0.98 0.89	0.60	0.12	1.01
CHLORINE RESIDUAL	1.0	1.2	1.1	1.0	0.9	1.0	0.9	1.2	0.8	1.0
TURBIDITY	AM PM 2.2	1.1	0.3 0.4	0.3	0.4	0.6	0.2 0.2	1.0	0.3	0.3
TOTAL PHOSPHATE		4.20			1.54					
ORTHO PHOSPHATE		1.54			0.23					
META PHOSPHATE		2.66			1.29					
STABILITY	+0.4	-0.5	+0.1	-0.5	+0.1	+0.1	+0.4	+0.2		

REMARKS

CLW

0000004277

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. Schmitt

DATE OF ANALYSIS
 17 April 1984

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

Dr Mill
 DATE COLLECTED
 24 APRIL 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSHOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CR 115
PH	8.8	7.2	8.5	7.4	8.1	8.2	8.7	8.8	7.2
PENOLTHALEIN ALKALINITY	6	0	4	0	6	2	6	14	0
METHYL ORANGE ALKALINITY	56	190	56	174	176	160	60	124	140
CARBONATES AS CaCO ₃	12	0	8	0	12	4	12	28	0
BICARBONATES AS CaCO ₃	44	190	48	174	164	156	48	96	140
CHLORIDES AS Cl	8	36	10	14	22	20	16	134	8
HARDNESS AS CaCO ₃	60	76	86	92	62	42	60	58	138
IRON AS Fe	0.04	0.54	0.04	0.24	0.06	0.07	0.04	0.31	0.51
FLUORIDE	AM 1.30 PM 1.26	0.79	1.3 1.33	0.58	0.58	0.34	1.13 0.83	1.06	0.34
CHLORINE RESIDUAL	1.0	1.3	1.0	1.2	1.2	1.0	1.0	1.3	—
TURBIDITY	AM 1.5 PM 0.5	0.7	0.4 0.5	0.3	0.4	0.4	0.3 0.3	1.4	3.3
TOTAL PHOSPHATE		4.60			1.92				
ORTHO PHOSPHATE		1.54			0.32				
META PHOSPHATE		3.06			1.60				
STABILITY	+0.4	-0.5	+0.2	-0.4	0.0	-0.1	+0.2	+0.2	—

REMARKS

CLW

0000004278

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*

DATE OF ANALYSIS 24 APRIL 1984

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 2	1	∅	0.9	0935	MCAS - 3502	24	∅	0.2	0920	TIME RECEIVED 1235-1355
RR - 15	2		0.9	0920	MCAS - 2002	25		0.5	0940	DATE RECEIVED 4/3/84
RR - 10	3		0.9	0930	MCAS - 2037	26		0.6	0930	ACCEPTED BY Lachapelle
	4				MCAS - 1184	27		0.9	1005	DATE ANALYZED 4/3/84
A-1	5		1.0	0850		28				ANALYSIS STARTED 1300-1355
BB - 7	6		1.2	0815	NRMC - food Service	29		0.6	1050	ANALYSIS FINISHED 1320-1420
BB - 49	7		1.0	0830	PP - 2615	30		0.6	1015	INCUBATOR TEMP 35.0° C
BB - 245	8		1.0	0820	PP - 2600	31		0.5	1020	PROCESSED BY Lachapelle
	9				BM - 5400	32		0.7	1035	
BA - 103	10		1.0	1045	BM - 1985	33		0.6	1030	CUSTODY DATA
BA - 101	11		1.0	1050	LCH - 4022	34		0.6	1100	DATE
	12				LCH - 4002	35		0.5	1105	TIME
TT - 38	13		1.0	0900		36				SIGNATURE
TT - 43	14		0.9	0915	H - 1	37		1.0	1000	DATE
TT - 2888	15		0.9	0930	H - 16	38		0.8	1005	TIME
	16				FC - 303	39		1.0	0850	SIGNATURE
1407	17		0.8	1000	FC - 420	40		1.0	0900	
M - 139	18		1.0	1115	FC - 540	41		1.0	0910	COPY TO:
M - 422	19		1.1	1030	HP - 236	42		0.8	0950	<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43		0.7	0840	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0830	HP - 1300	44		0.5	0830	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22		0.6	0910	HP - 15	45		1.0	1145	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - 501	23	∅	0.8	0900		146				<input type="checkbox"/>

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REMARKS

Resample from MCAS 1277 Negative

000004279

SIGNATURE

Robert Lachapelle

Encl (2)

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		∅	0.5		0845
FC-19		∅	trace		0935
SH-8		∅	2.0+		0920
M.P. POOL		∅	1.0	7.0	1115
#2 POOL		∅	0.9	7.6	0950
#5 POOL		∅	0.8	7.6	0840
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
Ice Sample bldg 1300		∅			0830

REMARKS

FC-19-9 Non-coliform

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BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11330/4 (REV. 7-83)

DATE COLLECTED
10 APR 84

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	∅	1.0	0925	MCAS - 3502	24	∅	0.2	0925	TIME RECEIVED
RR - 15	2	I	1.0	0920	MCAS - 2002	25	I	0.9	0935	DATE RECEIVED 10 APR 84
RR - 6	3	I	1.0	0930	MCAS - 4157	26	I	0.7	0915	ACCEPTED BY
	4				MCAS - 1191	27	I	0.7	0945	DATE ANALYZED 10 APR 84
A-1	5	∅	1.0	0900		28				ANALYSIS STARTED
E	6	I	1.2	0825	NRMC - Food Service	29	∅	0.7	1222	ANALYSIS FINISHED
BB - 49	7	I	1.2	0850	PP - 2615	30	I	0.6	1210	INCUBATOR TEMP 35.0°C
BB - 45	8	I	1.2	0820	PP - 2602	31	I	0.6	1200	PROCESSED BY Huneycutt
	9				BM - 5400	32		0.5	1240	
BA - 103	10	∅	1.3	1030	BM - 5670	33	I	0.5	1252	CUSTODY DATA
BA - 101	11	I	1.3	1040	LCH - 4022	34	I	0.7	1303	DATE
	12				LCH - 4023	35	I	0.6	1317	TIME
TT - 38	13	∅	1.0	0830		36				SIGNATURE
TT - 43	14	I	1.0	0845	H - 1 ST Fl. Head	37	∅	0.5	1142	DATE
TT - 1373	15	I	0.9	0915	H - 16	38	I	0.5	1134	TIME
	16				FC - 303	39		0.7	1037	SIGNATURE
CK - 1502	17	∅	0.7	1015	FC - 420	40	I	0.6	1028	
M - 139	18	I	1.2	1100	FC New Snack Bar	41	I	0.6	1022	COPY TO:
M - 324	19	I	1.1	0945	HP - 236	42	I	0.5	1149	<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	I	0.6	1122	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	∅	0.2	0905	HP - 1300	44	I	0.4	1005	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	I	1.0	0850	HP - 1301	45	I	0.5	1016	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - 650	23	I	1.0	0840		46				<input type="checkbox"/>

REMARKS
 #2 had 137 non-coliform colonies
 #22 had 3 non-coliform colonies

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 0000004281

SIGNATURE
 Huneycutt 4/11/84

ACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	0.6		0840
FC-19		I	2.0		1103
SH-8		I	1.5		1047
I.P. L		Ø	1.5	7.4	1115
12 POOL		I	0.7	7.4	1156
15 POOL		I	1.3	7.2	1115
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
CE 8/d 1300		Ø			1040

REMARKS

CLW

0000004282

BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/4 (REV. 7-83)

DATE COLLECTED

4/17/84

File

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	φ	0.8	0910	MCAS - 3502	24	φ	0.3	0940	TIME RECEIVED 12 35 - 1345
RR - 15	2	↓	0.4	0900	MCAS - 2002	25	↓	0.6	0949	DATE RECEIVED 4/17/84
RR - 6	3	φ	0.8	0915	MCAS - 4157	26	↓	0.5	0932	ACCEPTED BY 13 vents
	4				MCAS - E-1012	27	φ	0.6	0958	DATE ANALYZED 4/17/84
A-1	5	φ	0.6	0935		28				ANALYSIS STARTED 1245
BB - 49	6	↓	0.8	1105	NRMC Food SERVICE	29	φ	0.6	1130	ANALYSIS FINISHED 1420
BB - 9	7	↓	0.5	1050	PP - 2615	30	↓	0.6	1050	INCUBATOR TEMP 35°
	8	φ	0.8	1115	PP - 2600	31	↓	0.7	1100	PROCESSED BY 13 vents
	9				BM - 5400	32	↓	0.6	1120	
BA - 103	10	φ	0.8	1025	BM - 1985	33	↓	0.5	1110	CUSTODY DATA
BA - 101	11	φ	0.9	1035	LCH - 4022	34	↓	0.6	1140	DATE
	12				LCH - 4002	35	φ	0.5	1145	TIME
TT - 38	13	φ	1.1	0845		36				SIGNATURE
TT - 43	14	↓	1.0	0900	H-1 12A WARD	37	φ	0.6	1040	DATE
TT - 1545	15	φ	0.9	0915	H - 16	38	↓	0.5	1030	TIME
	16				FC - 303	39	↓	0.8	0920	SIGNATURE
1005	17	φ	0.8	0945	FC - 420	40	↓	0.7	0925	
M - 139	18	↓	1.2	1100	FC - 540	41	↓	0.8	0935	COPY TO:
M - 424	19	φ	1.2	1130	HP - 236	42	↓	0.7	1070	<input type="checkbox"/> UTIL DIR
	20				HP - 540	43	↓	0.9	0910	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	φ	0.3	0921	HP - 1300	44	↓	0.2	0845	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	↓	1.3	0908	HP - 15	45	φ	0.8	1020	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - 640	23	φ	0.5	0858		46				<input type="checkbox"/>

REMARKS

EXTRA SAMPLE: R.R. 15 = φ

COMPLAINT: TT 1539 Cl. 1.0 = φ

CLW

000004283

SIGNATURE

16 J. Burns

4/18/84

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		ϕ	0.2		1120
FC-19		ϕ	TRACE		0955
SH-8		ϕ	2.0 ⁺		0945
M.P. POOL		ϕ	0.5	7.4	1115
#2 POOL		ϕ	0.5	7.6	1010
#5 POOL		ϕ	1.5	8.0	0910
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
BLDG 1300		ϕ			0850
ICE					

REMARKS

FC-19 : NON-COLIFORM TNTC
CLW

000004284

BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/4 (REV. 7-83)

DATE COLLECTED

24 APR 84

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	0	0.8	0845	MCAS - 3502	24	0	0.7	1000	TIME RECEIVED
RR - 15	2	I	0.6	0855	MCAS - 2002	25	I	0.7	1030	DATE RECEIVED
RR - 10	3	I	0.7	0900	MCAS - 4157	26	I	0.7	0950	ACCEPTED BY
	4				MCAS - E-1142	27	I	0.8	1020	DATE ANALYZED 4/24/84
A-1	5	0	0.6	0915		28				ANALYSIS STARTED
B-7	6	I	1.0	1055	NRMC - Food Service	29	0	0.8	1130	ANALYSIS FINISHED
BB - 49	7	I	0.6	1020	PP - 2615	30	I	0.5	1107	INCUBATOR TEMP 35.0
BB - 255	8	I	0.8	1105	PP - 2604	31	I	0.5	1116	PROCESSED BY Hurreycutt
	9				BM - 5400	32	I	0.5	1143	
BA - 103	10	0	0.9	0955	BM - 5662	33	I	0.5	1150	CUSTODY DATA
BA - 113	11	I	0.8	0945	LCH - 4022	34	I	0.4	1230	DATE
	12				LCH - 4000	35	I	0.5	1241	TIME
TT - 38	13	0	1.0	1100		36				SIGNATURE
TT - 43	14	I	0.9	1045	H - 1 st Fl. Head	37	0	0.5	1050	DATE
TT - 1538	15	I	1.0	1030	H - 23	38	I	0.5	1056	TIME
	16				FC - 303	39	I	0.7	0947	SIGNATURE
1509	17	0	0.9	1000	FC - 420	40	I	0.7	0941	
M - 139	18	I	1.2	0945	FC - E-Club	41	I	0.7	0936	COPY TO:
M - 522	19	I	1.1	0930	HP - 236	42	I	0.5	1043	<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	I	0.6	1032	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	0	0.5	1100	HP - 1300	44	I	0.4	0905	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	I	0.7	0915	HP - 1504	45	I	0.7	0913	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G - 640	23	I	0.7	0900						<input type="checkbox"/>

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REMARKS

0000004285

SIGNATURE

Hurreycutt, S. 4/29/84

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	1.2		1035
FC-19		I	2.0 ⁺		1016
SH-8		I	2.0		1000
M.P. POOL		Ø	1.0	7.3	0945
#2 POOL		Secured			
#5 POOL		Ø	0.9	7.2	1027
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
ICE Plant		Ø			0910

REMARKS

CLW

0000004286

QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11390/8 (REV. 4/78)

Infection Control Naval Hospital

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED	
		TOTAL	FECAL
ICE	Am 2 Bue +	24 Apr 84	
LOCATION	MARKED	TOTAL	FECAL
E.P.			
ICU			
LFO			
R.P.			
4A			
4W			
3W			
3E			
CCU			
2E			
2W			

REMARKS

Resd 1220 4/24/84 H

CLW

0000004287

SIGNATURE

[Handwritten Signature]

DATE

4/25/84

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File

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

DATE COLLECTED
 26 Apr 84

PARAMETER	HADNOT POINT HP 135	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.6								
PENOLTHALEIN ALKALINITY	6								
METHYL ORANGE ALKALINITY	52								
CARBONATES AS CaCO ₃	72								
BICARBONATES AS CaCO ₃	40								
CHLORIDES AS Cl	8								
HARDNESS AS CaCO ₃	58								
IRON AS Fe	10.04								
FLUORIDE									
CHLORINE RESIDUAL	0.4								
TURBIDITY	1.4								
TOTAL PHOSPHATE									
PHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

CLW

0000004288

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. S. ...

DATE OF ANALYSIS
 26 Apr 84

encl (4)

3-82) **SIS — WATER TREATMENT PLANTS**

TT
5/1/1553

DATE COLLECTED

11/10/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
pH			8.1						
PENOLTHALEIN ALKALINITY			10						
METHYL ORANGE ALKALINITY			64						
CARBONATES AS CaCO ₃			20						
BICARBONATES AS CaCO ₃			44						
CHLORIDES AS Cl			10						
HARDNESS AS CaCO ₃			86						
IRON AS Fe			0.05						
FLUORIDE			1.04						
CHLORINE RESIDUAL			1.2						
TURBIDITY			7.1						
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

CLW

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
Spencer

0000004292

DATE OF ANALYSIS

18/11/84

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11390/8 (REV. 4/78)

WATER TYPE <i>1-4 Wc</i>	SAMPLE COLLECTED BY <i>H11</i>	DATE COLLECTED <i>11 APR 84</i>		
		LOCATION	MARKED	TOTAL
<i>Stid 1533</i>			<i>0</i>	

REMARKS

CLW
0000004293

SIGNATURE *H. H. H.* DATE *18 APR 84*

- COPY TO
- NREAD
 - UTILITIES DIRECTOR
 - WATER TREATMENT PLANT (GENERAL FOREMAN)
 - BASE PREVENTIVE MEDICINE
 - MCAS PREVENTIVE MEDICINE
 - F.L.*

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

DATE COLLECTED
 24 APRIL 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CR 115
PH	8.8	7.2	8.5	7.4	8.1	8.2	8.7	8.8	7.2
PENOLTHALEIN ALKALINITY	6	0	4	0	6	2	6	14	0
METHYL ORANGE ALKALINITY	56	190	56	174	176	160	60	124	140
CARBONATES AS CaCO ₃	12	0	8	0	12	4	12	28	0
BICARBONATES AS CaCO ₃	44	190	48	174	164	156	48	96	140
CHLORIDES AS Cl	8	36	10	14	22	20	16	134	8
HARDNESS AS CaCO ₃	60	76	86	92	62	42	60	58	138
IRON AS Fe	0.04	0.54	0.04	0.24	0.06	0.07	0.04	0.31	0.51
FLUORIDE	AM 1.30 PM 1.26	0.79	1.3 1.33	0.58	0.58	0.34	1.13 0.83	1.06	0.34
CHLORINE RESIDUAL	1.0	1.3	1.0	1.2	1.2	1.0	1.0	1.3	—
TURBIDITY	AM 1.5 PM 0.5	0.7	0.4 0.5	0.3	0.4	0.4	0.3 0.3	1.4	3.3
TOTAL PHOSPHATE		4.60			1.92				
ORTHO PHOSPHATE		1.54			0.32				
META PHOSPHATE		3.06			1.60				
STABILITY	+0.4	-0.5	+0.2	-0.4	0.0	-0.1	+0.2	+0.2	—

REMARKS

CLW

0000004295

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. Schaeffer & Burns

DATE OF ANALYSIS

24 APRIL 1984