

5 Apr 84
NREAD/DDS/jc
6280/1

APR 09 1984

From: Commanding General
To: Commanding Officer, Naval Hospital
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

1. In accordance with the reference, enclosures (1) through (4) are forwarded for information.
2. Questions regarding this matter should be forwarded to Mr. Danny Sharpe, Supervisory Ecologist, extensions 2083, 5003 or 1690.

J.I. Wooten
~~Major~~
By direction

Blind copy to:
SupvyChem

CLW

0000004113

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11030/3 (REV. 3-82)

DATE COLLECTED

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.8	7.3	7.7	7.5	8.4	8.3	8.9	8.7	
PENOLTHALEIN ALKALINITY	4	0	0	0	4	2	6	12	
METHYL ORANGE ALKALINITY	44	184	140	144	160	164	60	180	
CARBONATES AS CaCO ₃	8	0	0	0	8	4	12	24	
BICARBONATES AS CaCO ₃	35	154	140	144	152	160	48	156	
CHLORIDES AS Cl	10	30	14	14	20	20	10	86	
HARDNESS AS CaCO ₃	62	74	160	52	56	52	64	50	
IRON AS Fe	<0.04	0.53	0.08	0.20	<0.04	0.08	<0.04	0.10	
FLUORIDE	AM PM	0.13 0.12	0.16	0.63 0.66	0.19	0.09	0.10	0.20 0.18	0.82
CHLORINE RESIDUAL		1.0	1.3	1.0	1.0	1.0	0.9	1.3	
TURBIDITY	Machine down								
TOTAL PHOSPHATE		2.40			1.10				
ORTHO PHOSPHATE		1.09			0.19				
META PHOSPHATE		1.31			0.91				
STABILITY	+0.3	-0.6	-0.2	-0.5	+0.1	0.0	+0.3	0.0	

6 MARCH 1984

REMARKS

CLW

000004114

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

Luchezelle

DATE OF ANALYSIS

6 MARCH 1984

ENCLOSURE (1)

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBOL 11330/3 (REV. 3-82)

DATE COLLECTED

3-13-84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.8	7.4	8.2	7.7	8.6	8.1	8.9	8.6	
PENOLTHALEIN ALKALINITY	6	0	0	0	6	0	8	16	
METHYL ORANGE ALKALINITY	60	190	74	140	148	160	60	190	
CARBONATES AS CaCO ₃	12	0	0	0	12	0	16	32	
BICARBONATES AS CaCO ₃	48	190	74	140	136	160	44	158	
CHLORIDES AS Cl	10	30	8	20	10	20	8	90	
HARDNESS AS CaCO ₃	64	76	100	60	60	56	64	44	
IRON AS Fe	40.04	2.00	0.06	0.21	40.04	40.04	40.04	0.06	
FLUORIDE	0.75 0.46	0.16	0.37 0.42	0.18	0.11	0.10	0.36 0.36	0.76	
CHLORINE RESIDUAL	1.1	1.2	1.0	1.4	1.4	1.2	0.9	1.3	
TURBIDITY									
TOTAL PHOSPHATE		5.45			1.46				
ORTHO PHOSPHATE		2.26			0.28				
META PHOSPHATE		3.19			1.18				
STABILITY	+0.2	-0.6	0.0	-0.6	+0.2	-0.2	10.3	+0.1	

REMARKS

CLW

000004115

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. J. Burns

DATE OF ANALYSIS

3/13/84

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

DATE COLLECTED

20 March 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.7	7.4	8.8	7.5	8.1	8.3	8.9	8.5	
PENOLTHALEIN ALKALINITY	2	0	4	0	0	0	6	6	
METHYL ORANGE ALKALINITY	48	184	54	130	166	136	60	170	
CARBONATES AS CaCO ₃	4	0	8	0	0	0	12	12	
BICARBONATES AS CaCO ₃	44	184	46	130	166	136	48	158	
CHLORIDES AS Cl	6	30	10	16	20	20	18	100	
HARDNESS AS CaCO ₃	60	82	68	62	72	42	76	70	
IRON AS Fe	0.04	0.51	0.06	0.27	0.04	0.07	0.04	0.13	
FLUORIDE	an pm 0.70 0.74	0.16	1.06 1.02	0.18	0.09	0.08	1.29 1.15	0.58	
CHLORINE RESIDUAL	1.1	1.4	1.2	1.2	1.0	1.0	0.9	1.3	
TURBIDITY	Machine out								
TOTAL PHOSPHATE		4.80			1.26				
ORTHO PHOSPHATE		1.46			0.16				
META PHOSPHATE		3.34			1.10				
STABILITY	+0.2	-0.4	+0.3	-0.5	0.0	0.0	+0.4	+0.1	

REMARKS

CLW

0000004116

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

Richard H. Brown

DATE OF ANALYSIS

20 March 1984

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

DATE COLLECTED

27 March 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7	7.3	8.8	7.4	8.0	8.1	8.7	8.6
PENOLTHALEIN ALKALINITY	4	0	6	0	4	6	6	12
METHYL ORANGE ALKALINITY	60	188	54	160	178	172	66	162
CARBONATES AS CaCO ₃	8	0	12	0	8	12	12	24
BICARBONATES AS CaCO ₃	52	188	42	160	170	160	54	138
CHLORIDES AS Cl	10	34	12	14	20	20	12	110
HARDNESS AS CaCO ₃	66	76	64	60	66	48	66	58
IRON AS Fe	0.04	0.58	0.04	0.25	0.04	0.06	0.04	0.15
FLUORIDE	AM PM	0.98 0.95	0.16	1.07 1.03	0.18	0.11	0.77 0.74	0.63
CHLORINE RESIDUAL	1.0	1.2	1.2	1.3	1.2	0.9	1.1	1.3
TURBIDITY	MACHINE DOWN							
TOTAL PHOSPHATE		4.60			3.45			
ORTHO PHOSPHATE		1.68			0.48			
META PHOSPHATE		2.92			2.97			
STABILITY	+0.2	-0.6	+0.3	-0.6	-0.2	-0.2	CLW +0.3	+0.2

REMARKS

0000004117

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

Trubsville *Stuyvaert*

DATE OF ANALYSIS

27 March 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	φ	0.7	0735	MCAS - 3502	24	φ	0.7	0737	TIME RECEIVED
RR - 15	2	I	0.7	0730	MCAS - 2002	25	I	0.7	0741	DATE RECEIVED 3/10/84
RR - 10	3	I	0.8	0740	MCAS - 4157	26	I	0.6	0723	ACCEPTED BY
	4				MCAS - 2082	27	I	0.5	0753	DATE ANALYZED 3/11/84
A-1	5	φ	1.2	0700		28				ANALYSIS STARTED
7	6	I	1.1	0820	NRM -	29	NOT REPORTABLE			ANALYSIS FINISHED
BB - 49	7	I	0.7	0835	PP - 2615	30				
BB - 115	8	I	1.1	0825	PP - 2602	31	φ	0.7	0850	PROCESSED BY <i>Hemmy</i>
	9				BM - 5400	32	I	0.7	1015	CUSTODY DATA
BA - 103	10	φ	1.1	1050	BM - 5581	33	I	0.7	1000	
BA - 101	11	I	1.1	1100	LCH - 4022	34	NOT REPORTABLE			DATE
	12				LCH - 1405	35	I	0.6	1100	TIME
TT - 38	13	φ	1.0	0930		36				SIGNATURE
TT - 43	14	I	1.0	0900	H - 1	37	φ	0.7	1005	DATE
TT - 3370	15	I	0.9	0705	H - 24	38	I	0.6	0920	TIME
	16				FC - 303	39	I	0.7	1111	SIGNATURE
CK - 1423	17	φ	0.8	0745	FC - 420	40	I	0.7	1040	COPY TO:
M - 139	18	I	1.1	1100	FC - 360	41	I	0.7	1100	
M - 424	19	I	1.2	1015	HP - 236	42	I	0.7	0925	<input type="checkbox"/> UTIL DIR
	20				HP - 540	43	I	0.7	0845	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	φ	0.7	0916	HP - 1300	44	NOT REPORTABLE			<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	I	1.0	0906	HP - 211	45	I	0.6	1130	<input type="checkbox"/> NREAD <input checked="" type="checkbox"/> FILE
TC - 614	23	I	0.4	0858		46	CLW			<input type="checkbox"/>

REMARKS

* Valid information not reported on field sheet
 * 3/11/84 reported with same turbine

0000004118

SIGNATURE
Hemmy
 ENCLOSURE (2)

6 MAR 84

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		∅	1.5		0845
FC-19		I	0.8		1020
SH-8		I	0.7		0700
M.P. POOL		∅	0.8	7.6	
#2 POOL		I	0.6	7.3	0843
#5 POOL		I	0.6	7.8	0825
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
ICE Sample 1311 1300		∅			

REMARKS

1311 1300 ICE Sample time was not reported.
M.P. Pool time was not reported. W

0000004119

MCBCL 11880/4 (A)

12-11-84

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	1.0	1023	MCAS - 3502	24	0	0.6	1030	TIME RECEIVED
RR-15	2	0	1.0	0918	MCAS - 2002	25	0	0.6	1110	DATE RECEIVED 3/11/84
RR-6	3	0	1.0	0925	MCAS - 4157	26	0	0.6	0950	ACCEPTED BY
	4				MCAS - E 2059	27	0	0.6	1105	DATE ANALYZED 3/11/84
A-1	5	0	1.0	0959		28				ANALYSIS STARTED
7	6	0	1.2	0823	NRMC - Fuel Service	29	0	0.7	0925	ANALYSIS FINISHED
BB-49	7	0	1.2	0951	PP-2815	30	0	0.5	0940	INCUBATOR TEMP 35.0°C
BB-41	8	0	1.2	0933	PP-3600	31	0	0.5	0935	PROCESSED BY H. H. H. H.
	9				BM-5400	32		0.7	0910	
BA-103	10	0	1.3	1030	BM-1785	33	0	0.6	0915	CUSTODY DATA
BA-101	11	0	1.3	1035	LCH-4022	34	0	0.5	0945	DATE
	12				LCH-4002	35	0	0.4	0955	TIME
TT-38	13	0	1.0	0900		36				SIGNATURE
TT-43	14	0	0.9	0915	H-1	37	0	0.5	1000	DATE
TT-2525	15	0	0.8	0930	H-18	38	0	0.4	1010	TIME
	16				FC-303	39		1.0	1100	SIGNATURE
CK-1200	17	0	0.7	1100	FC-420	40		0.8	1110	
M-139	18	0	1.3	1045	FC-540	41		0.8	1130	COPY TO:
M-331	19	0	1.1	1130	HP-236	42		0.6	1020	<input type="checkbox"/> UTIL DIR
	20				HP-540	43		0.7	1030	<input type="checkbox"/> WATER TREATMENT
CG-1	21	0	0.6	0930	HP-1300	44		0.2	1045	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC-830	22	0	0.7	0915	HP-15	45		0.7	1240	<input type="checkbox"/> NREAD <input checked="" type="checkbox"/> FILE
TC-100	23	0	0.7	0900		46				<input type="checkbox"/>

REMARKS

SIGNATURE

0000004120

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13 MAR 84

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		✓	0.6		0846
FC-19		I	3.0 ⁺		1140
SH-8		I	0.0		1130
M.P. POOL		✓	0.6	7.2	1045
#2 POOL		I	0.6	7.3	1020
#3 POOL		I	1.0	7.6	1030
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
EC E Sample 1300		✓			1045

REMARKS

CLW

0000004121

30.11.84

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	Ø	0.6	1035	MCAS - 3502	24	Ø	0.2	0915	TIME RECEIVED
RR - 15	2	I	0.6	1016	MCAS - 2002	25	I	0.1	0925	DATE RECEIVED 5/10/84
RR - 12	3	I	1.0	1000	MCAS - 4151	26	I	0.3	0905	ACCEPTED BY
	4				MCAS - 1277	27	I	0.6	0940	DATE ANALYZED 5/10/84
A-1	5	Ø	1.0	0926		28				ANALYSIS STARTED
● 7	6	I	1.0	0848	NRMC - Fuel Services	29	Ø	0.5	1118	ANALYSIS FINISHED
BB - 49	7	I	1.1	0919	PP - 2615	30	I	0.5	1141	INCUBATOR TEMP 35.0°C
BB - 9	8	I	1.2	0913	PP - 2611	31	I	0.5	1130	PROCESSED BY H. H. H. H.
	9				BM - 5400	32		0.5	1111	
BA - 103	10	Ø	1.1	1135	BM - 5846	33	I	0.4	1055	CUSTODY DATA
BA - 101	11	I	1.2	1140	LCH - 4022	34	I	0.5	1251	DATE
	12				LCH - 4000	35	I	0.5	1242	TIME
TT - 38	13	Ø	1.2	0930		36				SIGNATURE
TT - 43	14	I	1.1	0945	H - 1/2" Flare thread	37	Ø	0.6	1040	DATE
TT - 2410	15	I	1.0	1000	H - 1/2"	38	I	0.5	1146	TIME
	16				FC - 303	39	I	0.9	0922	SIGNATURE
● CK - 1105	17	I	0.8	1030	FC - 420	40	I	0.7	0912	
M - 139	18	I	1.1	1100	FC - 323	41	I	0.7	0900	COPY TO:
M - 134	19	I	1.2	1130	HP - 236	42	I	0.6	1035	<input type="checkbox"/> UTIL DIR
	20				HP - 540	43	I	0.1	1018	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	Ø	0.2	1055	HP - 1300	44	I	0.6	0842	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	I	1.0	0945	HP - 1407	45	I	0.6	0951	<input type="checkbox"/> NREAD <input checked="" type="checkbox"/> FILE
TC - 150	23	I	0.5	0835		48				<input type="checkbox"/>

CLW

REMARKS

#27 was confirmed positive coliform

0000004122

SIGNATURE

[Handwritten Signature]

20 MAR 84

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		φ	1.5		0707
FC-19		φ	2.0		0755
SH-8		+	2.0		0740
M.P. POOL		φ	0.9	7.2	1100
#2 POOL		φ	0.9	7.8	1031
#5 POOL		φ	1.0	7.4	1014
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL		No Ice			0845

REMARKS

SH 8 had numerous non-coliform colonies. Another sample was taken 3/21/84 to be submitted for MPN. Results are pending.

27 11/18 84

RECEIPT BOOK # 255WA

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	✓	0.8	1014	MCAS - 3502	24	✓	0.3	0943	TIME RECEIVED
RR - 15	2	I	0.8	1050	MCAS - 2002	25	I	0.7	0954	DATE RECEIVED
RR - 41	3	I	0.8	1105	MCAS - 4157	26	I	0.5	0935	ACCEPTED BY
	4				MCAS - 1277	27	✓	0.6	1006	DATE ANALYZED 3/27/84
A-1	5	✓	1.2	1011		28				ANALYSIS STARTED
	6	I	0.9	0827	NRMC - Food Service	29	✓	1.0	1055	ANALYSIS FINISHED
BB - 49	7	I	1.2	0836	PP - 2615	30	I	0.6	1025	INCUBATOR TEMP 35.0°C
BB - 27	8	I	0.9	0845	PP - 2600	31	I	0.5	1030	PROCESSED BY Murray
	9				BM - 5400	32	I	0.7	1045	
BA - 103	10	✓	1.2	0932	BM - 1785	33	I	0.7	1040	CUSTODY DATA
BA - 107	11	I	1.2	0955	LCH - 4022	34	I	0.7	1105	DATE
	12				LCH - 4002	35	I	0.6	1115	TIME
TT - 38	13	✓	1.2	0930		36				SIGNATURE
TT - 43	14	I	1.0	1000	H-1 wcl - 1205	37	✓	1.0	1010	DATE
TT - 2055	15	I	1.0	1030	H - 18	38	I	0.7	1015	TIME
	16				FC - 303	39	I	1.0	0920	SIGNATURE
CK - 1308	17	✓	0.8	1055	FC - 420	40	I	1.0	0910	
M - 139	18	I	1.1	1130	FC - 540	41	I	1.0	0900	COPY TO:
M - 19	19	I	1.2	1145	HP - 236	42	I	0.7	1000	<input type="checkbox"/> UTIL DIR
	20				HP - 540	43	I	0.7	0845	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	✓	0.3	0924	HP - 1300	44	I	0.7	0950	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	✓	1.3	0914	HP - 20	45	I	1.0	1200	<input type="checkbox"/> NREAD <input checked="" type="checkbox"/> FILE
TC - 910	23	✓	0.9	1008		46				<input type="checkbox"/>

REMARKS

22 had 3 non coliform colonies (submitted for confirmation)
27 had 1.0 TNTC non coliform colonies (submitted for confirmation)

SIGNATURE

Murray 3/28/84

27 MAR 84

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		✓	0.5		0831
FC-19		✓	Trace		0790
SH-8		✓	2.0+		0936
M.P. POOL		✓	1.1	7.4	1130
#2 POOL		✓	0.8	7.6	1000
#3 POOL		✓	1.0	7.6	0845
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
206 std 1700		✓			0750

REMARKS
 FC-19 had 11 non coliform colonies (submitted for confirmation).
 CLW

0000004424

QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11830/6 (REV. 4/78)

Naval Hospital Infection CC
 Sample Collected by: Amr 2 Budd

DATE COLLECTED: 20 MAR 84

WATER TYPE: ICL

LOCATION	MARKED	TOTAL	COLIFORM	FECAL
ER	~	0		
4A		0		
4W		0		
3W		0		
3E		0		
CC4	OUT OF ORDER	0		
IC4	~	0		
2E		0		
2W		0		
NS4		0		
LE4		0		
RE4	0			

REMARKS: REC'D IN LAB 20 MAR 1984 1030 EBZ

CLW
 0000004126

SIGNATURE: [Signature] DATE: 3/21/84
 COPY TO:

- INREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- FILE

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

DATE COLLECTED
 3-13-84

PARAMETER	511-8 COMPLAINT TT 3327		TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
	HADNOT POINT	MONTFORD POINT						
PH	7.8	8.3						
PENOLTHALEIN ALKALINITY	0	2						
METHYL ORANGE ALKALINITY	132	74						
CARBONATES AS CaCO ₃	0	4						
BICARBONATES AS CaCO ₃	132	70						
CHLORIDES AS Cl	8	8						
HARDNESS AS CaCO ₃	140	100						
IRON AS Fe	5.2	0.06						
FLUORIDE	0.15	0.38						
CHLORINE RESIDUAL	0.0	0.8						
TURBIDITY	710.0							
TOTAL PHOSPHATE								
ORTHO PHOSPHATE								
META PHOSPHATE								
STABILITY								

REMARKS
 COLI-FURT:

CLW
 0000004120

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. J. Burns

DATE OF ANALYSIS

3/13/84

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

M-131

FILE
 DATE COLLECTED

29 MAR 84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		7.5						
PENOLTHALEIN ALKALINITY		0						
METHYL ORANGE ALKALINITY		188						
CARBONATES AS CaCO ₃		0						
NON-CARBONATES AS CaCO ₃		188						
CHLORIDES AS Cl		36						
HARDNESS AS CaCO ₃		92						
IRON AS Fe		2.10						
FLUORIDE		0.16						
CHLORINE RESIDUAL		NR						
TURBIDITY								
TOTAL PHOSPHATE								
ORTHO PHOSPHATE								
META PHOSPHATE								
STABILITY								

OLW
 0000004132

REMARKS

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 APR 84