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CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 9-24-85

DATE OF ANALYSIS: 9-24-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.5	8.9	7.4	8.3	8.3	8.8	8.7		
PHENOLTHALEIN ALKALINITY	2	0	2	0	0	0	2	8		
METHYL ORANGE ALKALINITY	50	190	56	160	150	140	64	196		
CARBONATES AS $CaCO_3$	4	0	4	0	0	0	4	16		
BICARBONATES AS $CaCO_3$	46	190	52	160	150	140	60	180		
CHLORIDES AS C1	10	30	14	20	20	40	10	64		
HARDNESS AS $CaCO_3$	72	76	68	60	56	48	70	64		
IRON AS Fe	<0.03	0.38	0.06	0.06	<0.04	<0.04	0.05	<0.04		
FLUORIDE AM	0.85		0.87				0.93			
FLUORIDE PM	0.90	0.15	0.79	0.17	0.10	0.8	0.80	0.67		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.4	1.1	1.1	0.8	0.8		
TURBIDITY AM	0.2		0.3				0.2			
TURBIDITY PM	0.2	1.1	0.3	0.2	1.1	0.3	0.7	0.6		
TOTAL PHOSPHATE		1.05			0.78					
ORTHO PHOSPHATE		0.82			0.56					
META PHOSPHATE		0.23			0.22					
STABILITY	+0.3	-0.7	+0.2	-0.8	-0.1	-0.2	+0.4	+0.1		

REMARKS

OB Pond = 8.1

COPY TO:

- [X] UTIL DIR
- [ ] _____
- [X] WATER TREATMENT
- [X] PMU
- [X] MCAS PMU
- [ ] NREAD
- [X] 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

T. BARBEE & H. BURNS

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

TT 1418

DATE COLLECTED: 9/18/85

DATE OF ANALYSIS: 9/19/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	~~TARAWA TERRACE~~	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH			8.6							
PHENOLTHALEIN ALKALINITY			6							
METHYL ORANGE ALKALINITY			56							
CARBONATES AS $CaCO_3$			12							
BICARBONATES AS $CaCO_3$			44							
CHLORIDES AS C1			16							
HARDNESS AS $CaCO_3$			80							
IRON AS Fe										
FLUORIDE			1.48							
CHLORINE RESIDUAL			0.8							
TURBIDITY			0.2							
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

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

Honeycutt

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84) AS-110 AS4025 AS2800 AS710 G-520

DATE COLLECTED 9/18/85

DATE OF ANALYSIS 9/19/85

PARAMETER	~~HADNOT POINT~~	~~CAMP JOHNSON~~	~~TARAWA TERRACE~~	~~ONSLOW BEACH~~	~~COURTHOUSE BAY~~	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH										
PHENOLTHALEIN ALKALINITY										
METHYL ORANGE ALKALINITY										
CARBONATES AS $CaCO_3$										
BICARBONATES AS $CaCO_3$										
CHLORIDES AS C1	56	58	56	58	58					
HARDNESS AS $CaCO_3$										
IRON AS Fe										
FLUORIDE										
CHLORINE RESIDUAL										
TURBIDITY										
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

REMARKS

COPY TO:

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☐ 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

Henegarts

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 9/18/85

DATE OF ANALYSIS: 9/18/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH							8.5			
PHENOLTHALEIN ALKALINITY							4			
METHYL ORANGE ALKALINITY							64			
CARBONATES AS $CaCO_3$							8			
BICARBONATES AS $CaCO_3$							56			
CHLORIDES AS C1							30			
HARDNESS AS $CaCO_3$							60			
IRON AS Fe							<0.04			
FLUORIDE							1.22			
CHLORINE RESIDUAL							0.9			
TURBIDITY										
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY							+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

Honeycutt

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

DATE COLLECTED: 9-17-85 | DATE OF ANALYSIS: 9-17-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.6	9.1	7.5	8.4	8.4		8.8		
PHENOLTHALEIN ALKALINITY	4	0	6	0	2	2		10		
METHYL ORANGE ALKALINITY	60	164	58	150	150	140		186		
CARBONATES AS $CaCO_3$	8	0	12	0	4	4		20		
BICARBONATES AS $CaCO_3$	52	164	46	150	146	136		166		
CHLORIDES AS C1	6	24	18	26	60	34		60		
HARDNESS AS $CaCO_3$	70	74	78	74	84	56		50		
IRON AS Fe	< 0.04	0.52	0.05	0.10	< 0.04	< 0.04		0.06		
FLUORIDE AM	0.98		1.66				0.88			
FLUORIDE PM	1.02	0.19	1.55	0.19	0.15	0.12		0.80		
CHLORINE RESIDUAL	1.0	1.5	1.0	0.5	1.4	1.0		0.8		
TURBIDITY AM	0.2		0.2				0.2			
TURBIDITY PM	0.3			0.2	0.8	0.4				
TOTAL PHOSPHATE		1.26			0.91					
ORTHO PHOSPHATE		0.90			0.19					
META PHOSPHATE		0.36			0.72					
STABILITY	+0.3	-0.7	+0.5	-0.8	+0.1	0.0		+0.1		

NOT DONE PLANT DOWN

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
H. BURNS

COPY TO:
- [x] UTIL DIR [ ] _____
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- [x] PMU [x] MCAS PMU
- [ ] NREAD [x] FILE

WSP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 9-10-85

DATE OF ANALYSIS: 9-10-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.4	7.3	9.0	7.4	7.9	8.3	8.5	8.6		
PHENOLTHALEIN ALKALINITY	4	0	8	0	0	2	2	8		
METHYL ORANGE ALKALINITY	58	170	54	156	152	162	66	180		
CARBONATES AS $CaCO_3$	8	0	16	0	0	4	4	16		
BICARBONATES AS $CaCO_3$	50	170	38	156	152	158	62	164		
CHLORIDES AS C1	10	30	18	24	24	30	14	62		
HARDNESS AS $CaCO_3$	76	80	68	74	130	56	80	60		
IRON AS Fe	<0.04	0.47	<0.04	0.10	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	0.91		0.73				0.94			
FLUORIDE PM	0.99	0.21	0.99	0.18	0.13	0.12	0.95	0.73		
CHLORINE RESIDUAL	1.0	1.4	1.1	1.4	1.4	0.9	0.9	0.8		
TURBIDITY AM	0.3		0.4				0.5			
TURBIDITY PM	0.3	0.8	0.3	0.2	0.7	0.1	0.8	0.3		
TOTAL PHOSPHATE		1.46			0.59					
ORTHO PHOSPHATE		0.95			0.14					
META PHOSPHATE		0.51			0.45					
STABILITY	0	-1.0	+0.3	-1.0	-0.4	-0.2	+0.1	-0.1		

REMARKS

pH OB Pond = 8.6

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: T. H. BARBEE

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- [ ] _____
- [X] WATER TREATMENT
- [X] PMU
- [X] MCAS PMU
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W22P

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 9-3-85

DATE OF ANALYSIS: 9-3-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.5	7.3	8.5	7.4	8.2	8.2	8.5	8.5		
PHENOLTHALEIN ALKALINITY	12	0	20	0	4	6	12	20		
METHYL ORANGE ALKALINITY	56	180	66	142	172	148	70	176		
CARBONATES AS $CaCO_3$	24	0	40	0	8	12	24	40		
BICARBONATES AS $CaCO_3$	32	180	26	142	164	136	46	136		
CHLORIDES AS C1	10	36	16	20	14	24	10	60		
HARDNESS AS $CaCO_3$	70	90	80	70	74	56	76	44		
IRON AS Fe	<0.04	0.50	<0.04	0.15	0.05	<0.04	<0.04	<0.04		
FLUORIDE AM	0.92		0.99				1.08			
FLUORIDE PM	1.00	0.15	0.94	0.19	0.10	0.09	1.08	0.75		
CHLORINE RESIDUAL	1.1	1.0	1.3	1.3	1.3	1.0	1.0	0.8		
TURBIDITY AM	0.4		0.3				0.5			
TURBIDITY PM	0.4	0.6	0.3	0.2	0.5	0.2	3.9	0.4		
TOTAL PHOSPHATE		1.32			1.26					
ORTHO PHOSPHATE		0.98			0.26					
META PHOSPHATE		0.34			1.00					
STABILITY	+0.2	-0.8	+0.2	-0.7	-0.1	-0.2	+0.2	-0.1		

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

T. H. BARBEE

COPY TO:

- [X] UTIL DIR
- [ ] _____
- [X] WATER TREATMENT
- [X] PMU
- [X] MCAS PMU
- [ ] NREAD
- [X] FILE

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

DATE COLLECTED: 8-20-85

DATE OF ANALYSIS: 8-20-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.5	9.0	7.6	8.3	8.4	8.7	8.8		
PHENOLTHALEIN ALKALINITY	4	0	6	0	2	4	2	8		
METHYL ORANGE ALKALINITY	46	172	48	150	174	154	64	152		
CARBONATES AS $CaCO_3$	8	0	12	0	4	8	4	16		
BICARBONATES AS $CaCO_3$	38	172	36	150	170	146	60	136		
CHLORIDES AS C1	8	38	18	22	20	30	10	54		
HARDNESS AS $CaCO_3$	64	102	66	66	68	60	68	60		
IRON AS Fe	<0.04	0.57	<0.04	0.15	0.07	<0.04	<0.04	0.09		
FLUORIDE AM	0.94		1.05				1.00			
FLUORIDE PM	0.95	0.19	0.92	0.22	0.11	0.10	0.88	0.60		
CHLORINE RESIDUAL	0.9	1.3	1.0	1.3	1.3	1.0	0.7	0.8		
TURBIDITY AM	0.3		0.4				0.6			
TURBIDITY PM	0.3	0.6	0.2	0.3	0.5	0.2	0.5	0.5		
TOTAL PHOSPHATE		1.10			1.1					
ORTHO PHOSPHATE		0.90			0.2					
META PHOSPHATE		0.20			0.90					
STABILITY	+0.3	−0.6	−0.5	−0.8	−0.1	−0.1	+0.3	+0.2		

REMARKS

pH OB Pond = 8.5

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

T. H. BARBEE

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
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CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 8-13-85 | DATE OF ANALYSIS: 8-13-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.6	8.7	7.6	8.4	8.5	8.7	8.8		
PHENOLTHALEIN ALKALINITY	4	0	2	0	4	2	2	8		
METHYL ORANGE ALKALINITY	44	170	70	140	170	140	60	130		
CARBONATES AS $CaCO_3$	8	0	4	0	8	4	4	16		
BICARBONATES AS $CaCO_3$	36	170	66	140	162	136	56	114		
CHLORIDES AS C1	6	30	10	24	14	30	10	50		
HARDNESS AS $CaCO_3$	60	82	88	64	138	50	64	54		High H2O usage By-Pass wide open on Softener
IRON AS Fe	<0.04	0.62	<0.04	0.10	0.06	<0.04	<0.04	<0.04		
FLUORIDE AM	0.95		1.00				1.12			
FLUORIDE PM	0.98	0.20	1.00	0.22	0.12	0.11	1.08	0.56		
CHLORINE RESIDUAL	1.0	1.5	1.0	1.3	1.4	1.0	0.9	0.8		
TURBIDITY AM	0.3		0.4				0.2			
TURBIDITY PM	0.3	1.1	0.4	0.2	0.4	0.2	0.2	0.5		
TOTAL PHOSPHATE		0.99			1.03					
ORTHO PHOSPHATE		0.85			0.17					
META PHOSPHATE		0.14			0.86					
STABILITY	+0.1	-0.6	+0.3	-0.7	+0.2	0.0	+0.2	+0.2		

REMARKS

OB = 7.8

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
H. J. BURNS

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

CAMP KNOX (1210)

DATE COLLECTED 7/31/85

DATE OF ANALYSIS 7/31/85

PARAMETER	HADNOT POINT	~~CAMP JOHNSON~~ CAMP KNOX (1210)	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH		7.5								
PHENOLTHALEIN ALKALINITY		0								
METHYL ORANGE ALKALINITY		190								
CARBONATES AS $CaCO_3$		0								
BICARBONATES AS $CaCO_3$		190								
CHLORIDES AS C1		36								
HARDNESS AS $CaCO_3$		80								
IRON AS Fe		2.00								
FLUORIDE		0.21								
CHLORINE RESIDUAL		0.4								
TURBIDITY		5.5								
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

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 H. J. Burns

COPY TO:

☐ UTIL DIR ☐ _____

☑ WATER TREATMENT

☐ PMU ☐ MCAS PMU

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

DATE COLLECTED: 8-6-85 | DATE OF ANALYSIS: 8-6-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.4	8.7	7.4	8.4	8.3	8.5	8.6		
PHENOLTHALEIN ALKALINITY	4	0	2	0	6	2	2	8		
METHYL ORANGE ALKALINITY	52	172	52	156	142	148	64	154		
CARBONATES AS $CaCO_3$	8	0	4	0	12	4	4	16		
BICARBONATES AS $CaCO_3$	44	172	48	156	130	144	60	138		
CHLORIDES AS C1	10	32	10	26	14	20	10	58		
HARDNESS AS $CaCO_3$	64	82	70	58	62	50	80	58		
IRON AS Fe	<0.04	0.97	<0.04	0.08	0.06	<0.04	<0.04	<0.04		
FLUORIDE AM	0.82		0.91				0.81			
FLUORIDE PM	0.83	0.16	0.85	0.14	0.11	0.09	0.79	0.59		
CHLORINE RESIDUAL	1.1	1.5	1.0	1.4	1.5	1.0	1.C	0.9		
TURBIDITY AM	0.1		0.2				0.2			
TURBIDITY PM	0.3	0.6	0.5	0.2	1.3	0.3	0.7	0.6		
TOTAL PHOSPHATE		1.61			0.52					
ORTHO PHOSPHATE		1.20			0.18					
META PHOSPHATE		0.41			0.34					
STABILITY	+0.3	-0.6	+0.2	-0.5	+0.2	0.0	+0.3	+0.1		

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
T. H. BARBEE

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 9 APR 85
DATE OF ANALYSIS: 9 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.4	8.7	7.4	8.6	8.2	8.7	8.2		
PHENOLTHALEIN ALKALINITY	6	0	4	0	6	2	6	2		
METHYL ORANGE ALKALINITY	52	190	58	158	162	170	66	170		
CARBONATES AS $CaCO_3$	12	0	8	0	12	4	12	4		
BICARBONATES AS $CaCO_3$	40	190	50	158	150	166	54	166		
CHLORIDES AS C1	10	38	16	26	22	36	16	58		
HARDNESS AS $CaCO_3$	58	78	76	60	74	68	64	54		
IRON AS Fe	<0.04	0.75	0.05	0.15	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	0.97 / 0.87	0.20	0.74 / 0.63	0.20	0.12	0.10	1.00 / 0.97	0.68		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.8	1.0	1.0	1.2	1.3		
TURBIDITY AM / PM	0.34 / 0.18	0.7	0.28 / 10.67	0.19	0.38	0.33	0.27 / 0.31	0.39		
TOTAL PHOSPHATE		2.60			1.09					
ORTHO PHOSPHATE		1.13			0.16					
META PHOSPHATE		1.47			0.93					
STABILITY	+0.6	-0.8	+0.3	-0.9	+0.3	-0.1	+0.4	-0.2		

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: Honeycutt

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- [x] UTIL DIR
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- [ ] PMU
- [ ] MCAS PMU
- [ ] NREAD
- [ ] FILE

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

DATE COLLECTED: 7-30-85 | DATE OF ANALYSIS: 7-30-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.4	9.1	7.5	8.6	8.4	7.9	8.8		
PHENOLTHALEIN ALKALINITY	12	0	4	0	4	2	0	8		
METHYL ORANGE ALKALINITY	64	172	48	244	144	152	104	158		
CARBONATES AS $CaCO_3$	24	0	8	0	8	4	0	16		
BICARBONATES AS $CaCO_3$	40	172	40	244	136	148	104	142		
CHLORIDES AS Cl	10	32	18	40	12	18	10	60		
HARDNESS AS $CaCO_3$	70	80	70	60	70	60	106	48		
IRON AS Fe	<0.04	0.65	<0.04	0.14	<0.04	<0.04	<0.04	0.09		
FLUORIDE AM	0.94		0.98				1.05			
FLUORIDE PM	0.92	0.20	0.91	0.22	0.12	0.10	0.93	0.66		
CHLORINE RESIDUAL	1.1	1.2	1.0	1.5	1.5	1.0	1.1	0.8		
TURBIDITY AM	0.2		0.6				0.3			
TURBIDITY PM	0.3	0.5	3.5	0.3	0.5	0.2	0.4	1.5		
TOTAL PHOSPHATE		1.41			1.30					
ORTHO PHOSPHATE		1.14			0.32					
META PHOSPHATE		0.27			0.98					
STABILITY	+0.4	-0.6	+0.5	-0.6	+0.3	+0.1	-0.2	+0.1		

REMARKS

OB Pond pH = 8.6

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. J. BURNS

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

DATE COLLECTED: 7-30-85 | DATE OF ANALYSIS: 7-30-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.4	9.1	7.5	8.6	8.4	7.9	8.8		
PHENOLTHALEIN ALKALINITY	12	0	4	0	4	2	0	8		
METHYL ORANGE ALKALINITY	64	172	48	244	144	152	104	158		
CARBONATES AS $CaCO_3$	24	0	8	0	8	4	0	16		
BICARBONATES AS $CaCO_3$	40	172	40	244	136	148	104	142	Working on lime system lime off	
CHLORIDES AS C1	10	32	18	40	12	18	10	60		
HARDNESS AS $CaCO_3$	70	80	70	60	70	60	106	48		
IRON AS Fe	<0.04	0.65	<0.04	0.14	<0.04	<0.04	<0.04	0.09		
FLUORIDE AM	0.94		0.98				1.05			
FLUORIDE PM	0.92	0.20	0.91	0.22	0.12	0.10	0.93	0.66		
CHLORINE RESIDUAL	1.1	1.2	1.0	1.5	1.5	1.0	1.1	0.8		
TURBIDITY AM	0.2		0.6				0.3			
TURBIDITY PM	0.3	0.5	3.5	0.3	0.5	0.2	0.4	1.5		
TOTAL PHOSPHATE		1.41			1.30					
ORTHO PHOSPHATE		1.14			0.32					
META PHOSPHATE		0.27			0.98					
STABILITY	+0.4	-0.6	+0.5	-0.6	+0.3	+0.1	-0.2	+0.1		

REMARKS

OB Pond pH = 8.6

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. J. Burns
H. J. BURNS

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

DATE COLLECTED: 7-23-85
DATE OF ANALYSIS: 7-23-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.4	8.5	7.4	8.4	8.3	8.7	8.6		
PHENOLTHALEIN ALKALINITY	6	0	6	0	6	6	2	6		
METHYL ORANGE ALKALINITY	60	138	86	180	148	170	68	134		
CARBONATES AS $CaCO_3$	12	0	12	0	12	12	4	12		
BICARBONATES AS $CaCO_3$	48	138	74	180	136	158	64	122		
CHLORIDES AS C1	6	66	10	12	12	16	8	42		
HARDNESS AS $CaCO_3$	70	102	84	64	48	44	64	48		
IRON AS Fe	<0.04	0.81	<0.04	0.12	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	1.04		0.88				1.07			
FLUORIDE PM	1.08	0.18	0.92	0.20	0.13	0.13	1.00	0.57		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.4	1.1	1.0	0.9	0.7		
TURBIDITY AM	0.2		1.0				0.3			
TURBIDITY PM	0.3	0.6	1.2	0.2	0.7	0.2	0.4	0.5		
TOTAL PHOSPHATE		1.74			1.11					
ORTHO PHOSPHATE		1.11			0.22					
META PHOSPHATE		0.63			0.89					
STABILITY	+0.4	-0.5	+0.2	-0.8	0.0	-0.1	+0.2	0.0		

REMARKS

OB Pond = 7.9

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

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 7-9-85
DATE OF ANALYSIS: 7-9-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.6	7.3	8.4	7.5	8.3	8.2	8.9	8.6		
PHENOLTHALEIN ALKALINITY	6	0	2	0	2	0	8	20		
METHYL ORANGE ALKALINITY	64	186	70	160	164	180	50	200		
CARBONATES AS $CaCO_3$	12	0	4	0	4	0	16	40		
BICARBONATES AS $CaCO_3$	52	186	66	160	160	180	34	160		
CHLORIDES AS C1	10	34	14	48	10	50	10	170		
HARDNESS AS $CaCO_3$	66	80	80	44	70	60	56	60		
IRON AS Fe	<0.04	0.84	0.05	0.06	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	0.96		0.98				0.91			
FLUORIDE PM	0.96	0.16	0.86	0.19	0.12	0.09	0.85	0.89		
CHLORINE RESIDUAL	1.1	1.3	1.0	1.5	1.5	1.0	0.8	1.2		
TURBIDITY AM	0.1		0.2				0.2			
TURBIDITY PM	0.2	0.5	0.4	0.3	0.6	0.3	0.2	0.3		
TOTAL PHOSPHATE		1.80			1.40					
ORTHO PHOSPHATE		1.29			0.27					
META PHOSPHATE		0.51			1.13					
STABILITY	+0.2	-0.7	+0.2	-0.7	+0.1	0.0	+0.3	+0.1		

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
T. BARBEE & H. BURNS

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 7-2-85 | DATE OF ANALYSIS: 7-2-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.7	8.7	7.5	8.5	8.2	8.8	8.8		
PHENOLTHALEIN ALKALINITY	4	0	4	0	6	0	4	10		
METHYL ORANGE ALKALINITY	62	196	60	166	144	180	64	190		
CARBONATES AS $CaCO_3$	8	0	8	0	12	0	8	20		
BICARBONATES AS $CaCO_3$	54	196	52	166	132	180	56	170		
CHLORIDES AS C1	8	42	18	18	26	48	20	180		
HARDNESS AS $CaCO_3$	70	74	68	56	50	56	70	56		
IRON AS Fe	<0.04	0.59	<0.04	0.12	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	0.99		1.08				0.97			
FLUORIDE PM	0.88	0.18	0.94	0.19	0.12	0.11	0.90	0.82		
CHLORINE RESIDUAL	1.1	1.3	1.0	1.5	1.4	1.0	0.9	0.8		
TURBIDITY AM	0.2		0.4				0.3			
TURBIDITY PM	0.3	0.6	0.4	0.2	0.6	0.3	1.6	0.2		
TOTAL PHOSPHATE		1.87			1.98					
ORTHO PHOSPHATE		1.25			0.31					
META PHOSPHATE		0.62			1.67					
STABILITY	+0.3	-0.8	+0.1	-1.0	-0.2	-0.4	+0.2	+0.1		

REMARKS

pH O.B. Pond 9.0

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
TBarbee
TOM BARBEE

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

Test Well Test Well Test Well Test Well

DATE COLLECTED 7-1-85

DATE OF ANALYSIS 7-2-85

PARAMETER	#2 ~~HADNOT POINT~~	#3 ~~CAMP JOHNSON~~	#4 ~~TARAWA TERRACE~~	#5 ~~GISLOW BEACH~~	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	7.4	7.8	8.5	8.3						
PHENOLTHALEIN ALKALINITY	0	0	4	0						
METHYL ORANGE ALKALINITY	176	192	152	96						
CARBONATES AS $CaCO_3$	0	0	8	0						
BICARBONATES AS $CaCO_3$	176	192	144	96						
CHLORIDES AS C1	12	12	12	8						
HARDNESS AS $CaCO_3$	156	154	72	92						
IRON AS Fe	8.00	4.98	3.30	2.16						
FLUORIDE	0.18	0.38	0.41	0.28						
CHLORINE RESIDUAL	–	–	–	–						
TURBIDITY	63.0	25.0	50.0	20.0						
TOTAL PHOSPHATE										
STATIC ~~ORTHO PHOSPHATE~~ XXXXXXXXXXXXXX	7' 6"	12' 6"	20' 0"	19' 0"						
DEPTH ~~MEASURING~~ XXXXXXXXXXXX	90' 0"	77' 6"	107' 0"	103' 0"						
STABILITY										

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

TOM BARBEE

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

M-238

DATE COLLECTED: 6-21-85

DATE OF ANALYSIS:

PARAMETER	HADNOT POINT	~~CAMP~~ JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH		7.3								
PHENOLTHALEIN ALKALINITY		0								
METHYL ORANGE ALKALINITY		208								
CARBONATES AS $CaCO_3$		0								
BICARBONATES AS $CaCO_3$		208								
CHLORIDES AS C1		64								
HARDNESS AS $CaCO_3$		96								
IRON AS Fe		6.90								
FLUORIDE		0.17								
CHLORINE RESIDUAL		0.5								
TURBIDITY		31.0								
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

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

Lachapelle

R.J. LACHAPELLE

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 6-25-85

DATE OF ANALYSIS: 6-25-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.7	8.6	7.5	8.6	8.2	9.0	8.7		
PHENOLTHALEIN ALKALINITY	6	0	4	0	10	6	6	4		
METHYL ORANGE ALKALINITY	58	196	74	166	164	166	56	176		
CARBONATES AS $CaCO_3$	12	0	8	0	20	12	12	8		
BICARBONATES AS $CaCO_3$	46	196	66	166	144	154	44	168		
CHLORIDES AS C1	8	30	10	20	14	54	14	94		
HARDNESS AS $CaCO_3$	66	76	86	58	58	54	68	52		
IRON AS Fe	<0.04	0.65	<0.04	0.09	<0.04	0.08	<0.04	<0.04		
FLUORIDE AM	0.18		1.00				1.02			
FLUORIDE PM	0.20	0.15	0.95	0.18	0.10	0.09	0.95	0.79		
CHLORINE RESIDUAL	1.0	1.0	1.0	1.3	1.4	1.0	0.8	1.2		
TURBIDITY AM	0.2		0.2				0.5			
TURBIDITY PM	0.2	0.6	0.3	0.2	0.3	0.5	0.5	0.4		
TOTAL PHOSPHATE		2.13			1.45					
ORTHO PHOSPHATE		1.16			0.24					
META PHOSPHATE		0.97			1.21					
STABILITY	+0.6	-0.7	+0.2	-1.0	+0.1	-0.3	+0.5	0.0		

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

Lachapelle

R.J. LACHAPELLE

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

DATE COLLECTED 6-18-85 | DATE OF ANALYSIS 6-18-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.7	8.8	7.9	8.5	8.4	8.9	8.4		
PHENOLTHALEIN ALKALINITY	4	0	4	0	8	6	6	6		
METHYL ORANGE ALKALINITY	70	200	62	170	168	178	60	252		
CARBONATES AS $CaCO_3$	8	0	8	0	16	12	12	12		
BICARBONATES AS $CaCO_3$	62	200	54	170	152	166	48	240		
CHLORIDES AS C1	22	62	18	22	16	46	12	112		
HARDNESS AS $CaCO_3$	70	86	66	60	98	54	62	100		
IRON AS Fe	<0.04	0.86	<0.04	0.15	<0.04	0.06	<0.04	0.08		
FLUORIDE AM/PM	0.79/0.79	0.15	0.97/0.98	0.17	0.12	0.11	1.03/1.07	0.93		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.6	1.3	1.0	1.3	1.3		
TURBIDITY AM/PM	3.4/0.2	0.6	0.1/0.2	0.1	0.2	0.3	0.1/0.2	0.4		
TOTAL PHOSPHATE		2.34			0.67					
ORTHO PHOSPHATE		1.41			0.19					
META PHOSPHATE		0.93			0.48					
STABILITY	+0.3	−0.8	+0.2	−0.7	0	−0.2	+0.4	−0.1		

REMARKS

pH OB POND = 8.8

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 Jacksville Barber

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CSJ
WDS

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

DATE COLLECTED: 6/11/85
DATE OF ANALYSIS: 6/11/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.6	7.5	8.9	7.5	8.6	8.3	9.0	8.7		
PHENOLTHALEIN ALKALINITY	6	0	4	0	4	2	4	20		
METHYL ORANGE ALKALINITY	44	190	50	156	164	160	50	210		
CARBONATES AS $CaCO_3$	12	0	8	0	8	4	8	40		
BICARBONATES AS $CaCO_3$	32	190	42	156	156	156	42	170		
CHLORIDES AS C1	10	60	10	16	14	46	10	120		
HARDNESS AS $CaCO_3$	56	90	80	70	68	56	60	70		
IRON AS Fe	<0.04	0.66	<0.04	0.10	0.05	0.06	<0.04	<0.04		
FLUORIDE	1.00 / 1.05	0.18	1.04 / 0.94	0.20	0.13	0.11	1.04 / 1.03	0.95		
CHLORINE RESIDUAL	0.9	1.4	1.0	1.5	1.1	1.0	0.9	1.2		
TURBIDITY	0.2 / 1.0	1.0	0.3 / 0.5	0.2	0.6	0.4	0.2 / 0.6	0.3		
TOTAL PHOSPHATE		3.23			0.98					
ORTHO PHOSPHATE		1.38			0.22					
META PHOSPHATE		1.85			0.76					
STABILITY	+0.5	−0.5	+0.2	−0.7	+1.2	−0.1	+0.3	0.0		

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: H. J. Burns

COPY TO:
- ☑ UTIL DIR ☐ _____
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

WTP

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

DATE COLLECTED 6/11/85 | DATE OF ANALYSIS 6/11/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.6	7.5	8.9	7.5	8.6	8.3	9.0	8.7		
PHENOLTHALEIN ALKALINITY	6	0	4	0	4	2	4	20		
METHYL ORANGE ALKALINITY	44	190	50	156	164	160	50	210		
CARBONATES AS $CaCO_3$	12	0	8	0	8	4	8	40		
BICARBONATES AS $CaCO_3$	32	190	42	156	156	156	42	170		
CHLORIDES AS C1	10	60	10	16	14	46	10	120		
HARDNESS AS $CaCO_3$	56	90	80	70	68	56	60	70		
IRON AS Fe	<0.04	0.66	<0.04	0.10	0.05	0.06	<0.04	<0.04		
FLUORIDE	1.00 / 1.05	0.18	1.04 / 0.94	0.20	0.13	0.11	1.04 / 1.03	0.95		
CHLORINE RESIDUAL	0.9	1.4	1.0	1.5	1.1	1.0	0.9	1.2		
TURBIDITY	0.2 / 1.0	1.0	0.3 / 0.5	0.2	0.6	0.4	0.2 / 0.6	0.3		
TOTAL PHOSPHATE		3.23			0.98					
ORTHO PHOSPHATE		1.38			0.22					
META PHOSPHATE		1.85			0.76					
STABILITY	+0.5	−0.5	+0.2	−0.7	+1.2	−0.1	+0.3	0.0		

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 H. J. Burns

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 4 JUN 85
DATE OF ANALYSIS: 4 JUN 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.4	8.5	7.7	8.7	8.5	9.0	8.7		
PHENOLTHALEIN ALKALINITY	4	0	2	0	8	4	4	20		
METHYL ORANGE ALKALINITY	30	190	56	150	156	150	56	200		
CARBONATES AS $CaCO_3$	8	0	4	0	16	8	8	40		
BICARBONATES AS $CaCO_3$	22	190	52	150	140	142	48	160		
CHLORIDES AS C1	10	60	12	16	12	40	10	120		
HARDNESS AS $CaCO_3$	64	120	96	60	76	68	60	56		
IRON AS Fe	<0.04	0.64	<0.04	0.18	0.15	0.08	0.04	<0.04		
FLUORIDE AM / PM	1.12 / 1.09	0.13	1.16 / 1.11	0.18	0.10	0.09	0.63 / 0.33	0.80		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.0	1.4	1.0	1.0	1.1		
TURBIDITY AM / PM	0.2 / 0.3	0.6	0.4 / 5.1	0.2	1.2	0.5	1.3 / 0.5	0.6		
TOTAL PHOSPHATE		2.35			1.21					
ORTHO PHOSPHATE		1.22			0.27					
META PHOSPHATE		1.13			0.94					
STABILITY	+0.3	-0.6	-0.1	-0.6	+0.2	0.0	+0.3	0.0		

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

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 28 MAY 85
DATE OF ANALYSIS: 28 MAY 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.5	8.3	7.5	8.6	8.3	8.9	8.8		
PHENOLTHALEIN ALKALINITY	6	0	6	0	8	6	6	12		
METHYL ORANGE ALKALINITY	62	200	90	164	160	168	64	212		
CARBONATES AS $CaCO_3$	12	0	12	0	16	12	12	24		
BICARBONATES AS $CaCO_3$	50	200	78	164	144	156	52	188		
CHLORIDES AS C1	12	36	20	20	16	42	18	130		
HARDNESS AS $CaCO_3$	66	76	120	58	56	64	70	68		
IRON AS Fe	<0.04	0.74	<0.04	0.19	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM/PM	0.99/0.88	0.18	0.76/0.85	0.20	0.12	0.10	0.94/0.90	0.89		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.3	1.3	0.5	1.1	1.4		
TURBIDITY AM/PM	0.57/0.78	0.72	0.33/0.63	0.35	0.49	0.40	0.27/0.30	0.18		
TOTAL PHOSPHATE		3.50			1.56					
ORTHO PHOSPHATE		1.60			0.22					
META PHOSPHATE		1.90			1.34					
STABILITY	+0.2	-1.0	-0.2	-1.1	-0.2	-0.3	+0.1	0		

REMARKS

pH OB POND 8.2

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: Barbee + Burns

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

WTP

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

DATE COLLECTED: 21 May 1985
DATE OF ANALYSIS: 21 May 1985

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.5	9.0	7.4	8.6	8.3	8.9	8.6		
PHENOLTHALEIN ALKALINITY	8	0	6	0	10	8	8	10		
METHYL ORANGE ALKALINITY	66	192	42	164	162	166	64	206		
CARBONATES AS $CaCO_3$	16	0	12	0	20	16	16	20		
BICARBONATES AS $CaCO_3$	50	192	30	164	142	150	48	186		
CHLORIDES AS C1	10	36	12	18	16	36	14	74		
HARDNESS AS $CaCO_3$	68	78	70	60	56	96	66	68		
IRON AS Fe	0.10	0.53	<0.04	0.14	< 0.04	0.05	<0.04	0.05		
FLUORIDE AM	0.88		0.96				0.94			
FLUORIDE PM	0.88	0.17	0.86	0.16	0.12	0.11	0.91	0.82		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.5	1.4	0.9	1.3		
TURBIDITY AM	1.8		1.4				0.3			
TURBIDITY PM	1.4	0.4	3.7	0.2	0.3	0.3	0.5	0.5		
TOTAL PHOSPHATE		2.87			1.15					
ORTHO PHOSPHATE		1.25			0.24					
META PHOSPHATE		1.62			0.91					
STABILITY	+0.3	-0.8	+0.2	-1.0	+0.1	-0.1	+0.4	+0.1		

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: Lachapelle Barber

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 14 MAY 85
DATE OF ANALYSIS: 14 MAY 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.6	7.5	8.5	7.7	8.6	8.5	8.9	8.7		
PHENOLTHALEIN ALKALINITY	4	0	4	0	4	4	6	16		
METHYL ORANGE ALKALINITY	60	190	60	150	160	156	58	210		
CARBONATES AS $CaCO_3$	8	0	8	0	8	8	12	32		
BICARBONATES AS $CaCO_3$	52	190	52	150	152	148	46	178		
CHLORIDES AS C1	10	30	10	24	12	26	10	90		
HARDNESS AS $CaCO_3$	68	74	80	74	80	50	64	50		
IRON AS Fe	<0.04	0.50	<0.04	0.22	0.12	<0.04	<0.04	0.07		
FLUORIDE AM / PM	1.10 / 1.10	0.19	1.28 / 1.24	0.20	0.14	0.12	1.05 / 0.99	1.05		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.2	1.2	1.0	1.0	1.5		
TURBIDITY AM / PM	0.2 / 0.3	0.7	0.2 / 0.5	0.2	0.9	0.3	0.1 / 0.3	0.6		
TOTAL PHOSPHATE		2.71			1.51					
ORTHO PHOSPHATE		1.26			0.26					
META PHOSPHATE		1.45			1.25					
STABILITY	0.0	-0.5	+0.1	-0.5	+0.2	0.0	+0.1	0.0		

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

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 23 APR 85
DATE OF ANALYSIS: 23 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.7	8.8	9.5	8.7	8.4	8.9	8.8		
PHENOLTHALEIN ALKALINITY	8	0	12	0	12	4	10	28		
METHYL ORANGE ALKALINITY	18	240	54	166	176	180	74	190		
CARBONATES AS $CaCO_3$	16	0	24	0	24	8	20	56		
BICARBONATES AS $CaCO_3$	2	240	30	166	152	172	54	134		
CHLORIDES AS C1	8	82	10	12	16	24	16	56		
HARDNESS AS $CaCO_3$	70	164	84	70	68	68	64	50		
IRON AS Fe	<0.05	1.15	<0.04	0.35	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	0.79 / 0.82	0.20	0.13 / 0.15	0.15	0.07	0.06	0.95 / 0.95	0.71		
CHLORINE RESIDUAL	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.2		
TURBIDITY AM / PM	0.3 / 0.2	1.0	0.4 / 0.3	0.3	0.4	0.3	0.4 / 0.3	0.2		
TOTAL PHOSPHATE		1.68			1.08					
ORTHO PHOSPHATE		1.09			0.28					
META PHOSPHATE		0.59			0.80					
STABILITY	+0.3	0.2	+0.1	-0.7	+0.3	0.0	+0.2	0.0		

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

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☒ ~~MCAS~~ PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED 7MAY85 | DATE OF ANALYSIS 7MAY85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.8	8.8	7.8	8.9	8.6	8.9	8.8		
PHENOLTHALEIN ALKALINITY	6	0	4	0	12	4	2	8		
METHYL ORANGE ALKALINITY	60	196	52	178	162	158	68	174		
CARBONATES AS $CaCO_3$	12	0	8	0	24	8	4	16		
BICARBONATES AS $CaCO_3$	48	196	44	178	138	150	64	158		
CHLORIDES AS C1	10	38	10	18	16	20	12	66		
HARDNESS AS $CaCO_3$	76	98	80	64	70	52	72	68		
IRON AS Fe	<0.04	0.65	<0.04	0.18	0.09	0.05	<0.04	0.08		
FLUORIDE AM/PM	0.96/0.90	0.16	1.15/0.99	0.16	0.11	0.09	0.97/0.90	0.71		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.3	1.4	1.0	1.0	1.3		
TURBIDITY AM/PM	0.10/0.16	1.57	0.20/0.36	0.17	0.72	0.32	0.40/0.20	0.21		
TOTAL PHOSPHATE		3.16			1.47					
ORTHO PHOSPHATE		1.44			0.44					
META PHOSPHATE		1.72			0.98					
STABILITY	+0.3	-0.6	+0.2	-0.7	+0.3	-0.1	+0.3	0		

REMARKS

pH OB POND 8.3

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 Barbee Lachapelle

COPY TO:

- ☑ UTIL DIR ☐ _____
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

W2D

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 30 APR 85

DATE OF ANALYSIS: 30 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.5	8.5	7.7	8.7	8.5	9.0	8.9		
PHENOLTHALEIN ALKALINITY	4	0	2	0	6	2	6	10		
METHYL ORANGE ALKALINITY	40	250	68	164	168	162	58	214		
CARBONATES AS $CaCO_3$	8	0	4	0	12	4	12	20		
BICARBONATES AS $CaCO_3$	32	250	64	164	156	158	46	194		
CHLORIDES AS C1	12	78	10	20	16	20	12	114		
HARDNESS AS $CaCO_3$	64	98	92	62	80	54	62	54		
IRON AS Fe	0.06	0.78	0.05	0.10	< 0.04	0.04	0.05	0.05		
FLUORIDE AM/PM	1.02/0.94	0.35	1.03/1.06	0.18	0.13	0.11	1.15/1.07	0.96		
CHLORINE RESIDUAL	1.1	0.7	1.0	1.3	1.3	1.0	0.9	0.9		
TURBIDITY AM/PM	0.14/0.17	0.67	0.35/0.58	0.16	0.60	0.26	0.13/0.25	0.33		
TOTAL PHOSPHATE		2.70			1.13					
ORTHO PHOSPHATE		1.28			0.27					
META PHOSPHATE		1.42			0.86					
STABILITY	0	−1.0	0	−0.8	+0.2	−0.2	+0.3	0		

REMARKS

pH OB POND 8.3

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

TH Barbee Lachapelle

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

DATE COLLECTED: 30 APR 85

DATE OF ANALYSIS: 30 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.5	8.5	7.7	8.7	8.5	9.0	8.9		
PHENOLTHALEIN ALKALINITY	4	0	2	0	6	2	6	10		
METHYL ORANGE ALKALINITY	40	250	68	164	168	162	58	214		
CARBONATES AS $CaCO_3$	8	0	4	0	12	4	12	20		
BICARBONATES AS $CaCO_3$	32	250	64	164	156	158	46	194		
CHLORIDES AS C1	12	78	10	20	16	20	12	114		
HARDNESS AS $CaCO_3$	64	98	92	62	80	54	62	54		
IRON AS Fe	0.06	0.78	0.05	0.10	< 0.04	0.04	0.05	0.05		
FLUORIDE AM/PM	1.02/0.94	0.35	1.03/1.06	0.18	0.13	0.11	1.15/1.07	0.96		
CHLORINE RESIDUAL	1.1	0.7	1.0	1.3	1.3	1.0	0.9	0.9		
TURBIDITY AM/PM	0.14/0.17	0.67	0.35/0.58	0.16	0.60	0.26	0.13/0.25	0.33		
TOTAL PHOSPHATE		2.70			1.13					
ORTHO PHOSPHATE		1.28			0.27					
META PHOSPHATE		1.42			0.86					
STABILITY	0	−1.0	0	−0.8	+0.2	−0.2	+0.3	0		

REMARKS

pH OB POND 8.3

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: T. Barbee, Lachapelle

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84) TT 3168

DATE COLLECTED: 24 APR 85

DATE OF ANALYSIS: 24 APR 85

PARAMETER	~~HADNOT POINT~~	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	7.5									
PHENOLTHALEIN ALKALINITY	0									
METHYL ORANGE ALKALINITY	220									
CARBONATES AS $CaCO_3$	0									
BICARBONATES AS $CaCO_3$	220									
CHLORIDES AS C1	80									
HARDNESS AS $CaCO_3$	206									
IRON AS Fe	0.40									
FLUORIDE	0.20									
CHLORINE RESIDUAL	0.9									
TURBIDITY	0.49									
TOTAL PHOSPHATE	-									
ORTHO PHOSPHATE	-									
META PHOSPHATE	-									
STABILITY	-									

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: Th Barbee

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

654
WRP

UNITED STATES MARINE CORPS
Natural Resources and Environmental Affairs Division
Marine Corps Base
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:
11330/1
NREAD
10 Apr 1985

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 March 1985. 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)

Month: March 1985 Hadnot Point Water Treatment System at Camp Lejeune Metohd Code: 303

Serial # 04-67-04 1 Contaminant Code: 3000

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	1: COLIFORMS per 100 ml.	2: COLIFORMS per 100 ml.	3: COLIFORMS per 100 ml.	4: COLIFORMS per 100 ml.	5: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON RAW WATER
1																												
2																												
3																												
4																												
5	326															0	8	0	0	0	0	0	0				35.5	
6																												
7																												
8																												
9																												
10																												
11																												
12	312															0	8	0	0	0	0	0	0				35.0	
13																												
14																												
15																												
16																												
17																												
18																												
19	319															0	8	0	0	0	0						35.0	
20																		0	0	0								
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22																												
23																												
24																												
25																												
26	326															0	8	0	0	0	0	0	0				35.0	
27																			0	0								
28																												
29																												
30																												
31																												

MF MEDIA / TPC MEDIA: BBL mEndo

BACTERIAL DENSITY

ARITH. MEAN / GEO. MEAN

DIST. SYSTEM: 0 / 1.0

TOTAL NO. SAMPLES: 32

SAMPLES EXCEEDING 3/50. (4/100), 7/200. 13/500ml: 0

Laboratory Cert. #37807

ENCLOSURE (1)

Signed Elizabeth A. Betz

Cert. Grade B-Well No. 4087-W

Month: March 1985 MCAS New River Water Treatment System at Camp Lejeune Method Code: 303

Serial # 04-67-042 N. C. DEPARTMENT OF HUMAN RESOURCES Contaminant Code: 3000

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
1																										
2																										
3																										
4																										
5																										
6																0	7	0 0	0 0	0 0	0					35.5
7																										
8																										
9																										
10																										
11																										
12																										
13																0	7	0 0	0 0	0 0	0					35.0
14																										
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19																										
20																0	7	0 0	0 0	0 0	0					36.0
21																										
22																										
23																										
24																										
25																										
26																										
27																0	7	0 0	0 0	0 0		0				35.0
28																										
29																										
30																										
31																										
MF MEDIA		BBL mEndo		BACTERIAL DENSITY		ARITH. MEAN										0	DIST. SYSTEM	TOTAL NO. SAMPLES								28
TPC MEDIA						GEO. MEAN												SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500=1								

Serial # 04-67-043

Contaminant Code: 3000

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON RAW WATER
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5	325															0	7	0 0	0 0	0 0	0 0	0				35.5		
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MF MEDIA / TPC MEDIA		BBL mEndo				BACTERIAL DENSITY		ARITH. MEAN / GEO. MEAN								0 / 1.0	DIST. SYSTEM	TOTAL NO. SAMPLES								28		
																		SAMPLES EXCEEDING 3/50. 4/100. 7/200. 13/500ml.								0		

Laboratory Cert. #37807

Signed Elizabeth O Bay

Cert. Grade B-Well No. 4087-W

3

DHS 1845 2/74

Serial # 04-67-044 — Method Code: 303

Contaminant Code: 3000

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED	1: COLIFORMS per 100 ml.	2: COLIFORMS per 100 ml.	3: COLIFORMS per 100 ml.	4: COLIFORMS per 100 ml.	5: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON
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26																0	3	0	0			0				38.0	
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MF MEDIA: BBL mEndo — BACTERIAL DENSITY — ARITH. MEAN — GEO. MEAN

TPC MEDIA

AVE. COLIFORMS per 100 ml.: 0 — DIST. SYSTEM: 1.0

TOTAL NO. SAMPLES: 12

SAMPLES EXCEEDING 3/50, (4/100), 2/200, 13/500ml: 0

Laboratory Cert. #37807

Signed Elizabeth A Butz — Cert. Grade B-Well — No. 4087-W

Month: March 1985 — Camp Johnson Water Treatment System at Camp Lejeune — Method Code: 303

Serial # 04-67-045 — N. C. DEPARTMENT OF HUMAN RESOURCES — Contaminant Code: 3000

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

Month: March 1985 Rifle Range Water Treatment System at Camp Lejeune Method Code: 303

Serial # 04-67-046 N. C. DEPARTMENT OF HUMAN RESOURCES Contaminant Code: 3000

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	1: COLIFORMS per 100 ml.	2: COLIFORMS per 100 ml.	3: COLIFORMS per 100 ml.	4: COLIFORMS per 100 ml.	5: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.
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MF MEDIA: BBL mEndo — BACTERIAL DENSITY — ARITH. MEAN — TPC MEDIA — GEO. MEAN — DIST. — TOTAL NO. SAMPLES: 12

Month: March 1985 — Courthouse Bay Water Treatment System at Camp Lejeune — Method Code: 303

Serial # 04-67-047 — N. C. DEPARTMENT OF HUMAN RESOURCES — Contaminant Code: 3000

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON
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MF MEDIA: BBL mEndo — BACTERIAL DENSITY — ARITH. MEAN — TPC MEDIA — GEO. MEAN — DIST. SYSTEM — TOTAL NO. SAMPLES: 116

Month: March 1985

Onslow Beach Water Treatment System at Camp Lejeune

Method Code: 5303

Serial # 04-67-048

N. C. DEPARTMENT OF HUMAN RESOURCES

Contaminant Code: 3000

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

BACTERIAL DENSITY

ARITH. MEAN / GEO. MEAN

DIST. SYSTEM: 0 / 1.0

TOTAL NO. SAMPLES: 5

SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500ml: 0

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

DATE COLLECTED: 3/5/85 | DATE OF ANALYSIS: 3/5/85

PARAMETER SERIAL# 04-67	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 NOT PLANT)	9.1	7.5	8.6	7.5	8.4	8.3	8.5	8.5		
PHENOLTHALEIN ALKALINITY	8	0	4	0	4	2	4	10		
METHYL ORANGE ALKALINITY	60	190	52	170	160	162	60	170		
CARBONATES AS $CaCO_3$	16	0	8	0	8	4	8	20		
BICARBONATES AS $CaCO_3$	44	190	44	170	152	158	52	150		
CHLORIDES AS C1	10	40	10	24	12	30	14	170		
HARDNESS AS $CaCO_3$	56	80	76	64	54	100	60	62		
IRON AS Fe	0.05	0.57	<0.04	0.17	0.07	0.08	0.06	0.09		
FLUORIDE Am	1.04		0.97				1.00			
FLUORIDE Pm	1.06	0.18	0.98	0.18	0.13	0.12	1.00	0.79		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.1	1.0	1.3	1.5		
TURBIDITY Am	0.40		0.20				1.00			
TURBIDITY Pm	0.40	1.5	0.40	0.70	0.40	0.60	0.60	0.6		
TOTAL PHOSPHATE		3.65			1.13					
ORTHO PHOSPHATE		1.13			0.25					
META PHOSPHATE		2.52			0.88					
STABILITY	+0.5	−0.5	+0.1	−0.5	+0.1	+0.3	+0.3	0.0		

REMARKS

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PWD
- ☐ 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.

ENCLOSURE (2)

LABORATORY ANALYSIS BY: H. J. Burns & Lachapelle

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

DATE COLLECTED: 12 MAR 85 | DATE OF ANALYSIS: 12 MAR 85

PARAMETER (SERIAL # 04-67)	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 NOT PLANT)	8.5	7.3	8.8	7.4	8.4	8.2	8.5	8.7		
PHENOLTHALEIN ALKALINITY	10	0	10	0	12	2	8	62		
METHYL ORANGE ALKALINITY	60	196	46	164	176	170	88	220		
CARBONATES AS $CaCO_3$	20	0	20	0	24	4	16	124		
BICARBONATES AS $CaCO_3$	40	196	26	164	152	166	72	96		
CHLORIDES AS C1	30	36	10	18	14	14	10	110		
HARDNESS AS $CaCO_3$	60	86	68	68	84	74	80	54		
IRON AS Fe	<0.04	0.63	<0.04	0.14	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	1.01		0.76				0.93			
FLUORIDE PM	1.05	0.15	0.67	0.17	0.12	0.09	0.99	0.74		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.0	1.5	1.0	1.0	1.4		
TURBIDITY AM	0.2		0.2				0.2			
TURBIDITY PM	0.3	0.7	0.4	0.3	0.3	0.4	0.2	0.3		
TOTAL PHOSPHATE		1.10			0.59					
ORTHO PHOSPHATE		1.04			0.25					
META PHOSPHATE		0.06			0.34					
STABILITY	+0.1	−0.6	+0.2	−0.7	+0.2	0.0	+0.2	0.0		

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: HUNNYCUTT

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330 3 (REV. 6-84)

DATE COLLECTED: 19 MAR 1985

DATE OF ANALYSIS: 19 MAR 1985

PARAMETER (SERIAL # 01-67)	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 NOT PLANT)	8.6	7.3	8.6	7.5	8.4	8.3	8.7	8.8		
PHENOLTHALEIN ALKALINITY	6	0	4	0	8	4	4	12		
METHYL ORANGE ALKALINITY	80	192	58	164	166	150	62	172		
CARBONATES AS $CaCO_3$	12	0	8	0	16	8	8	24		
BICARBONATES AS $CaCO_3$	68	192	50	164	150	142	54	148		
CHLORIDES AS C1	10	36	16	20	20	26	8	170		
HARDNESS AS $CaCO_3$	86	84	78	66	68	70	62	56		
IRON AS Fe	<0.04	0.50	<0.04	0.12	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	1.05		1.13				0.93			
FLUORIDE PM	0.98	0.16	0.96	0.16	0.12	0.10	0.83	0.75		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.2	0.7	0.9	1.3		
TURBIDITY AM	0.2		0.3				0.1			
TURBIDITY PM	0.2	0.9	0.2	0.2	0.2	0.3	0.2	0.6		
TOTAL PHOSPHATE		1.84			1.26					
ORTHO PHOSPHATE		0.92			0.28					
META PHOSPHATE		0.92			0.98					
STABILITY	+0.4	−0.8	+0.4	−0.7	+0.1	0.0	+0.4	+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.

3

LABORATORY ANALYSIS BY

LACHAPELLE & BARBEE

CHEMICAL ANALYSIS WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 26 MAR 85 | DATE OF ANALYSIS: 26 MAR 85

PARAMETER SERIAL# 04-67	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 NOT PLANT)	8.9	7.6	9.0	7.8	8.6	8.4	8.8	8.9		
PHENOLTHALEIN ALKALINITY	6	0	6	0	2	6	2	12		
METHYL ORANGE ALKALINITY	58	190	46	170	156	162	68	160		
CARBONATES AS $CaCO_3$	12	0	12	0	4	12	4	24		
BICARBONATES AS $CaCO_3$	46	190	34	170	152	150	64	134		
CHLORIDES AS C1	12	34	14	20	16	20	14	166		
HARDNESS AS $CaCO_3$	68	86	70	62	74	54	68	54		
IRON AS Fe	<0.04	0.48	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM	0.96		0.92				0.93			
FLUORIDE PM	0.96	0.17	0.93	0.15	0.10	0.08	0.92	0.71		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.5	1.0	0.9	1.4		
TURBIDITY AM	0.1		0.2				0.2			
TURBIDITY PM	0.2	0.9	0.3	0.2	0.3	0.1	0.2	0.2		
TOTAL PHOSPHATE		2.70			0.45					
ORTHO PHOSPHATE		1.04			0.16					
META PHOSPHATE		1.66			0.29					
STABILITY	+0.3	-0.8	+0.5	-0.7	0.0	-0.2	+0.3	0.0		

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.

4

LABORATORY ANALYSIS BY: T.N. BARBEE

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 15 APR 85

DATE OF ANALYSIS: 15 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.5	8.8	7.6	8.7	8.8	8.3	8.6		
PHENOLTHALEIN ALKALINITY	18	0	6	0	18	12	2	18		
METHYL ORANGE ALKALINITY	74	194	50	164	176	76	196	202		
CARBONATES AS $CaCO_3$	36	0	12	0	36	24	4	36		
BICARBONATES AS $CaCO_3$	38	194	38	164	140	52	192	166		
CHLORIDES AS C1	10	30	12	12	12	14	32	62		
HARDNESS AS $CaCO_3$	70	92	86	62	84	64	98	48		
IRON AS Fe	<0.04	0.50	<0.04	0.13	<0.08	<0.04	0.07	0.05		
FLUORIDE AM / PM	0.97 / 0.86	0.15	0.80 / 0.98	0.19	0.11	0.12	0.83 / 0.88	0.71		
CHLORINE RESIDUAL	1.1	1.4	1.0	1.5	1.2	1.2	1.2	1.4		
TURBIDITY AM / PM	0.7 / 0.2	0.6	0.2 / 0.6	0.2	0.8	0.3	0.3 / 0.4	0.4		
TOTAL PHOSPHATE		2.60			1.84					
ORTHO PHOSPHATE		1.04			0.25					
META PHOSPHATE		1.56			1.59					
STABILITY	+0.3	-0.5	+0.1	-0.7	+0.3	+0.2	0.0	-0.1		

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

Laura Honeycutt

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 9 APR 85
DATE OF ANALYSIS: 9 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.4	8.7	7.4	8.6	8.2	8.7	8.2		
PHENOLTHALEIN ALKALINITY	6	0	4	0	6	2	6	2		
METHYL ORANGE ALKALINITY	52	190	58	158	162	170	66	170		
CARBONATES AS $CaCO_3$	12	0	8	0	12	4	12	4		
BICARBONATES AS $CaCO_3$	40	190	50	158	150	166	54	166		
CHLORIDES AS C1	10	38	16	26	22	36	16	58		
HARDNESS AS $CaCO_3$	58	78	76	60	74	68	64	54		
IRON AS Fe	<0.04	0.75	0.05	0.15	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	0.97 / 0.87	0.20	0.74 / 0.63	0.20	0.12	0.10	1.00 / 0.97	0.68		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.8	1.0	1.0	1.2	1.3		
TURBIDITY AM / PM	0.34 / 0.18	0.70	0.28 / 0.67	0.19	0.38	0.33	0.27 / 0.31	0.39		
TOTAL PHOSPHATE		2.60			1.09					
ORTHO PHOSPHATE		1.13			0.16					
META PHOSPHATE		1.47			0.93					
STABILITY	+0.6	-0.8	+0.3	-0.9	+0.3	-0.1	+0.4	-0.2		

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: Hunegatt

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

651
103

11330/1
NREAD
5 Mar 1985

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 1-28 February 1985. 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, 5Mar85

Year 1985 — WATER TREATMENT PLANT AT Camp Lejeune — Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES — Contaminant Code: 3000

N. C. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-041

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

TPC MEDIA

AVE. COLIFORMS per 100 ml.: 0 — 1.0

DIST. SYSTEM — TOTAL NO. SAMPLES: 37

SAMPLES EXCEEDING 3/50 4/100 7/200 13/500ml: 0

Laboratory Cert. #37807

Elizabeth A Bat — B-Well — 4087-W

Encl (1)

Serial # 04-67-042

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON RAW WATER
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MF MEDIA	BBL mEndo	BACTERIAL DENSITY	ARITH. MEAN				0	DIST. SYSTEM	TOTAL NO. SAMPLES 28
TPC MEDIA			GEO. MEAN				1.0		SAMPLES EXCEEDING 3/50. 4/100, 7/200. 13/500ml 0

Laboratory Cert. #37807 Signed Elizabeth A Baty Cert. Grade B-Well No. 4087-W

Year 1985

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

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
Contaminant Code: 3000

Serial # 04-67-043

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

BACTERIAL DENSITY

ARITH. MEAN
GEO. MEAN

0
1.0

DIST. SYSTEM

TOTAL NO. SAMPLES 28

SAMPLES EXCEEDING 3/50. 4/100 7/200. 13/500ml 0

#37807

Month FEBRUARY

Year 1985

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

Contaminant Code: 3000

Serial # 04-67-044

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON RAW WATER
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MF MEDIA	BBL mEndo	BACTERIAL DENSITY	ARITH. MEAN					0	DIST. SYSTEM	TOTAL NO. SAMPLES	12
TPC MEDIA			GEO. MEAN					1.0		SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500ml	0

#37807

Signed Elizabeth Ott Cert. Grade B-Well No. 4087-W

Serial # 04-07-043

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	1: COLIFORMS per 100 ml.	2: COLIFORMS per 100 ml.	3: COLIFORMS per 100 ml.	4: COLIFORMS per 100 ml.	5: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON RAW WATER
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MF MEDIA			BBL mEndo			BACTERIAL DENSITY		ARITH. MEAN								0	DIST. SYSTEM	TOTAL NO. SAMPLES								12	
TPC MEDIA								GEO. MEAN								1.0		SAMPLES EXCEEDING 3/50. (4/100, 7/200, 13/500ml)								0	

Laboratory Cert. #37807

Signed Elizabeth A Baty Cert. Grade B-Well No. 4087-W

DATE	RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml.	A: TOTAL COLONIES	A: COLIFORM COLONIES	B: VOLUME FILTERED ml.	B: TOTAL COLONIES	B: COLIFORM COLONIES	C: VOLUME FILTERED ml.	C: TOTAL COLONIES	C: COLIFORM COLONIES	NO. OF COLIFORMS PER 100 ml.	FILTERED: TOTAL PLATE COUNT	FILTERED: MFP COLIFORMS per 100 ml.	FINISHED: TOTAL PLATE COUNT	FINISHED: MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM: TOTAL PLATE COUNT	COLIFORMS (MFP): AVE. COLIFORMS per 100 ml.	COLIFORMS (MFP): NO. OF SAMPLES EXAMINED	COLIFORMS (MFP): 1 COLIFORMS per 100 ml.	COLIFORMS (MFP): 2 COLIFORMS per 100 ml.	COLIFORMS (MFP): 3 COLIFORMS per 100 ml.	COLIFORMS (MFP): 4 COLIFORMS per 100 ml.	COLIFORMS (MFP): 5 COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	REPEAT SAMPLES: COLIFORMS per 100 ml.	INCUBATOR TEMP.	PLANKTON RAW WATER
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MF MEDIA			BBL mEndo			BACTERIAL DENSITY	ARITH. MEAN									0	DIST. SYSTEM	TOTAL NO. SAMPLES								18	
TPC MEDIA							GEO. MEAN									1.0		SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500ml								0	

Laboratory Cert. #37807 Signed Elizabeth A Body Cert. Grade B-Well No. 4087-W

Month FEBRUARY — COURTHOUSE BAY — WATER TREATMENT PLANT AT Camp Lejeune — Method Code: 303

Year 1985

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES — Contaminant Code: 3000

N. C. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-047

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

TPC MEDIA — GEO. MEAN

DIST. SYSTEM: 0 (AVE. COLIFORMS per 100 ml.); 4 (NO. OF SAMPLES EXAMINED); 1.0 (GEO. MEAN)

TOTAL NO. SAMPLES: 16

SAMPLES EXCEEDING 3/50, (4/100), 7/200, 13/500ml: 0

#27807

Serial # 04-67-048

N. C. DEPARTMENT OF HUMAN RESOURCES

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

TPC MEDIA

AVE. COLIFORMS per 100 ml.: 0 — 1.0

DIST. SYSTEM

TOTAL NO. SAMPLES: 8

SAMPLES EXCEEDING 3/50. 4/100, 7/200. 13/500ml: 0

Laboratory Cert. #37807

Signed Elizabeth A Baty Cert. Grade B-Well No.: 4087-W

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

DATE COLLECTED: 5 FEB 85
DATE OF ANALYSIS: 5 FEB 85

PARAMETER (SERIAL # 01-67)	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 NOT PLANT)	8.9	7.7	8.9	7.6	8.4	8.3	8.4	8.6		
PHENOLTHALEIN ALKALINITY	6	0	6	0	8	6	6	14		
METHYL ORANGE ALKALINITY	64	198	46	168	192	166	98	192		
CARBONATES AS $CaCO_3$	12	0	12	0	16	12	12	28		
BICARBONATES AS $CaCO_3$	52	198	34	168	176	154	86	164		
CHLORIDES AS C1	10	38	10	22	20	16	10	162		
HARDNESS AS $CaCO_3$	62	200	60	56	66	48	90	64		
IRON AS Fe		MACHINE	DOWN	FOR	CONSTRUCTION					
FLUORIDE AM	1.15	0.17	1.02	0.18	0.11	0.10	0.85	0.77		
FLUORIDE PM	1.11		0.99				0.82			
CHLORINE RESIDUAL	1.1	1.3	1.0	1.6	1.4	1.0	1.0	1.6		
TURBIDITY AM	0.3	1.0	0.2	0.3	0.3	0.3	1.1	0.2		
TURBIDITY PM	0.2		0.9				0.6			
TOTAL PHOSPHATE		1.00			0.92					
ORTHO PHOSPHATE		0.66			0.16					
META PHOSPHATE		0.34			0.76					
STABILITY	+0.6	−0.3	+0.6	−0.6	+0.1	0.0	+0.2	+0.2		

REMARKS

COPY TO:

☐ UTIL DIR ☐ _____

☐ WATER TREATMENT

☐ PMU ☐ MCAS PMU

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

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 2/12/85 | DATE OF ANALYSIS: 2/12/85

PARAMETER Serial #01-67	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 NOT PLANT)	9.0	7.3	8.8	7.4	8.3	8.3	8.6	8.2		
PHENOLTHALEIN ALKALINITY	8	0	4	0	2	2	4	0		
METHYL ORANGE ALKALINITY	50	196	52	160	150	150	70	200		
CARBONATES AS $CaCO_3$	16	0	8	0	4	4	8	0		
BICARBONATES AS $CaCO_3$	34	196	44	160	146	146	62	200		
CHLORIDES AS C1	10	50	10	20	16	18	14	160		
HARDNESS AS $CaCO_3$	60	68	82	62	56	56	74	84		
IRON AS Fe	<0.04	0.51	0.06	0.20	0.09	0.06	<0.04	0.09		
FLUORIDE AM / PM	0.96 / 0.93	0.17	0.16 / 0.83	0.17	0.12	0.09	0.73 / 0.72	0.70		
CHLORINE RESIDUAL	1.2	1.2	1.0	1.2	1.5	1.0	1.0	1.1		
TURBIDITY AM / PM	0.20 / 0.20	0.50	6.6 / 0.40	0.30	0.70	0.30	0.40 / 0.30	0.40		
TOTAL PHOSPHATE		1.30			1.26					
ORTHO PHOSPHATE		1.00			0.25					
META PHOSPHATE		0.30			1.01					
STABILITY	+0.4	−0.8	+0.6	−0.9	0.0	+0.1	+0.3	0.0		

REMARKS

COPY TO:

☐ UTIL DIR ☐ _____

☐ WATER TREATMENT

☐ PMU ☐ MCAS PMU

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

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

DATE COLLECTED: 19 FEB 85
DATE OF ANALYSIS: 19 FEB 85

PARAMETER (SERIAL # 04-67)	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 NOT PLANT)	8.7	7.6	8.8	7.6	8.6	8.4	8.9	9.1		
PHENOLTHALEIN ALKALINITY	10	0	6	0	10	8	10	26		
METHYL ORANGE ALKALINITY	20	190	56	164	172	164	56	170		
CARBONATES AS $CaCO_3$	20	0	12	0	20	16	20	52		
BICARBONATES AS $CaCO_3$	0	190	44	164	152	148	36	118		
CHLORIDES AS C1	12	42	12	22	22	22	16	160		
HARDNESS AS $CaCO_3$	76	86	80	70	70	60	68	60		
IRON AS Fe	<0.04	0.57	<0.04	0.14	0.09	0.07	0.06	<0.04		
FLUORIDE AM / PM	0.91 / 0.88	0.16	1.00 / 1.04	0.16	0.11	0.09	0.96 / 0.88	0.70		
CHLORINE RESIDUAL	1.1	1.2	1.0	1.3	1.3	1.0	0.9	1.3		
TURBIDITY AM / PM	0.3 / 0.3	0.4	0.2 / 0.2	0.3	0.3	0.2	0.3 / 0.5	2.3		
TOTAL PHOSPHATE		2.05			1.68					
ORTHO PHOSPHATE		1.13			0.25					
META PHOSPHATE		0.92			1.43					
STABILITY	+0.2	-0.4	+0.3	-0.6	+0.3	+0.1	+0.3			

REMARKS

COPY TO:

☐ UTIL DIR ☐ _____

☐ WATER TREATMENT

☐ PMU ☐ MCAS PMU

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

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

DATE COLLECTED: 26 FEB 85 | DATE OF ANALYSIS: 26 FEB 85

PARAMETER (SERIAL# 04-47)	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 NOT PLANT)	8.8	7.4	8.8	7.5	8.4	8.3	8.8	8.5		
PHENOLTHALEIN ALKALINITY	4	0	4	0	6	2	6	4		
METHYL ORANGE ALKALINITY	44	190	54	160	148	158	60	180		
CARBONATES AS $CaCO_3$	8	0	8	0	12	4	12	8		
BICARBONATES AS $CaCO_3$	36	190	46	160	136	154	48	172		
CHLORIDES AS C1	10	36	8	14	18	12	16	186		
HARDNESS AS $CaCO_3$	56	80	74	60	60	60	60	64		
IRON AS Fe	<0.04	0.74	<0.04	0.10	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	1.07 / 1.01	0.17	1.10 / 1.08	0.17	0.12	0.10	1.11 / 1.02	0.82		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.4	1.0	1.0	1.3		
TURBIDITY AM / PM	0.4 / 0.5	1.2	0.2 / 0.3	0.2	0.2	0.2	0.3 / 0.4	0.4		
TOTAL PHOSPHATE		1.54			1.84					
ORTHO PHOSPHATE		0.90			0.19					
META PHOSPHATE		0.64			1.65					
STABILITY	+0.2	−0.8	+0.2	−0.8	0	−0.2	+0.1	−0.1		

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: T.N. BARBEE

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

TT COMPLAINT 2521

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

DATE COLLECTED 1 APR 85 | DATE OF ANALYSIS 1 APR 85

PARAMETER	2521 HADNOT ~~POINT~~	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7									
PHENOLTHALEIN ALKALINITY	4									
METHYL ORANGE ALKALINITY	40									
CARBONATES AS $CaCO_3$	8									
BICARBONATES AS $CaCO_3$	32									
CHLORIDES AS C1	12									
HARDNESS AS $CaCO_3$	64									
IRON AS Fe	—									
FLUORIDE	1.07									
CHLORINE RESIDUAL	—									
TURBIDITY	0.60									
TOTAL PHOSPHATE	—									
ORTHO PHOSPHATE	—									
META PHOSPHATE	—									
STABILITY	—									

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

Barbee

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

DATE COLLECTED: 26 MAR 85
DATE OF ANALYSIS: 26MAR85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.6	9.0	7.8	8.6	8.4	8.8	8.9		
PHENOLTHALEIN ALKALINITY	6	0	6	0	2	6	2	12		
METHYL ORANGE ALKALINITY	58	190	46	170	156	162	68	160		
CARBONATES AS $CaCO_3$	12	0	12	0	4	12	4	24		
BICARBONATES AS $CaCO_3$	46	190	34	170	152	150	64	134		
CHLORIDES AS C1	12	34	14	20	16	20	14	166		
HARDNESS AS $CaCO_3$	68	86	70	62	74	54	68	54		
IRON AS Fe	<0.04	0.48	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM/PM	0.96/0.96	0.17	0.92/0.93	0.15	0.10	0.08	0.93/0.92	0.71		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.5	1.0	0.9	1.4		
TURBIDITY AM/PM	0.1/0.2	0.9	0.2/0.3	0.2	0.3	0.1	0.2/0.2	0.2		
TOTAL PHOSPHATE		2.70			0.45					
ORTHO PHOSPHATE		1.04			0.16					
META PHOSPHATE		1.66			0.29					
STABILITY	+0.3	−0.3	+0.5	−0.7	0	−0.2	+0.3	0		

REMARKS

pH O.B. POND = 8.6

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. Barbee

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 12 MAR 85

DATE OF ANALYSIS: 12 MAR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.5	7.3	8.8	7.4	8.4	8.2	8.5	8.7		
PHENOLTHALEIN ALKALINITY	10	0	10	0	12	2	8	62		
METHYL ORANGE ALKALINITY	60	196	46	164	176	170	88	220		
CARBONATES AS $CaCO_3$	20	0	20	0	24	4	16	124		
BICARBONATES AS $CaCO_3$	40	196	26	164	152	166	72	96		
CHLORIDES AS Cl	30	36	10	18	14	14	10	110		
HARDNESS AS $CaCO_3$	60	86	68	68	84	74	80	54		
IRON AS Fe	<0.04	0.63	<0.04	0.14	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	1.01 / 1.05	0.15	0.76 / 0.67	0.17	0.12	0.09	0.93 / 0.99	0.74		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.0	1.5	1.0	1.0	1.4		
TURBIDITY AM / PM	0.2 / 0.3	0.7	0.2 / 0.4	0.3	0.3	0.4	0.2 / 0.2	0.3		
TOTAL PHOSPHATE		1.10			0.59					
ORTHO PHOSPHATE		1.04			0.25					
META PHOSPHATE		0.06			0.34					
STABILITY	+0.1	-0.6	+0.2	-0.7	+0.2	0.0	+0.2	0.0		

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] 12 MAR 85

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 6-84) 3290 HARTMAN

DATE COLLECTED 21MAR85 | DATE OF ANALYSIS 21MAR85

PARAMETER	~~HADNOT POINT~~	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.5									
PHENOLTHALEIN ALKALINITY	4									
METHYL ORANGE ALKALINITY	54									
CARBONATES AS $CaCO_3$	8									
BICARBONATES AS $CaCO_3$	46									
CHLORIDES AS C1	14									
HARDNESS AS $CaCO_3$	70									
IRON AS Fe	—									
FLUORIDE	0.81									
CHLORINE RESIDUAL	0.9									
TURBIDITY	5.51									
TOTAL PHOSPHATE	—									
ORTHO PHOSPHATE	—									
META PHOSPHATE	—									
STABILITY	—									

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 TH Barber

COPY TO:

☐ UTIL DIR ☐ _____

☑ WATER TREATMENT

☐ PMU ☐ MCAS PMU

☐ NREAD ☐ FILE

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

DATE COLLECTED: 19 MAR 1985
DATE OF ANALYSIS: 19 MAR 1985

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.6	7.3	8.6	7.5	8.4	8.3	8.7	8.8		
PHENOLTHALEIN ALKALINITY	6	0	4	0	8	4	4	12		
METHYL ORANGE ALKALINITY	80	192	58	164	166	150	62	172		
CARBONATES AS $CaCO_3$	12	0	8	0	16	8	8	24		
BICARBONATES AS $CaCO_3$	68	192	50	164	150	142	54	148		
CHLORIDES AS C1	10	36	16	20	20	26	8	170		
HARDNESS AS $CaCO_3$	86	84	78	66	68	70	62	56		
IRON AS Fe	<0.04	0.50	<0.04	0.12	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	1.05 / 0.98	0.16	1.13 / 0.96	0.16	0.12	0.10	0.93 / 0.83	0.75		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.2	0.7	0.9	1.3		
TURBIDITY AM / PM	0.2 / 0.2	0.9	0.3 / 0.2	0.2	0.2	0.3	0.1 / 0.2	0.6		
TOTAL PHOSPHATE		1.84			1.26					
ORTHO PHOSPHATE		0.92			0.28					
META PHOSPHATE		0.92			0.98					
STABILITY	+0.4	−0.8	+0.4	−0.7	+0.1	0.0	+0.4	+0.2		

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: Lachapelle, TrBarbee

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

HP-25 CAPT. MARRIOTT'S QTRS

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

DATE COLLECTED: 11MAR85
DATE OF ANALYSIS: 11MAR85

PARAMETER	~~HADNOT POINT~~ HP-25	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0									
PHENOLTHALEIN ALKALINITY	6									
METHYL ORANGE ALKALINITY	60									
CARBONATES AS $CaCO_3$	12									
BICARBONATES AS $CaCO_3$	48									
CHLORIDES AS C1	14									
HARDNESS AS $CaCO_3$	64									
IRON AS Fe	-									
FLUORIDE	0.90									
CHLORINE RESIDUAL	0.2									
TURBIDITY	0.42									
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.5									

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: thBarbee

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 3/5/85 | DATE OF ANALYSIS: 3/5/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.1	7.5	8.6	7.5	8.4	8.3	8.5	8.5		
PHENOLTHALEIN ALKALINITY	8	0	4	0	4	2	4	10		
METHYL ORANGE ALKALINITY	60	190	52	170	160	162	60	170		
CARBONATES AS $CaCO_3$	16	0	8	0	8	4	8	20		
BICARBONATES AS $CaCO_3$	44	190	44	170	152	158	52	150		
CHLORIDES AS C1	10	40	10	24	12	30	14	170		
HARDNESS AS $CaCO_3$	56	80	76	64	54	100	60	[redacted] 62		
IRON AS Fe	0.05	0.57	<0.04	0.17	0.07	0.08	0.06	0.09		
FLUORIDE A/M	1.04 / 1.06	0.18	0.97 / 0.98	0.18	0.13	0.12	1.00 / 1.00	0.79		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.1	1.0	1.3	1.5		
TURBIDITY	0.40 / 0.40	1.5	0.20 / 0.40	0.70	0.40	0.60	1.00 / 0.60	0.6		
TOTAL PHOSPHATE		3.65			1.13					
ORTHO PHOSPHATE		1.13			0.25					
META PHOSPHATE		2.52			0.88					
STABILITY	+0.5	−0.5	+0.1	−0.5	+0.1	+0.3	+0.3	0.0		

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: W.J. Berns & Lachapelle

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

2nd SAMPLE INSIDE 2120 — 2nd SAMPLE HYDRANT — 1ST. SAMPLE 2120

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED 3/4/85 HB — DATE OF ANALYSIS 3/4/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	~~TARAWA TERRACE~~	ONSLOW BEACH	COURTHOUSE BAY	~~RIFLE RANGE~~	HOLCOMB BLVD	NEW RIVER ~~TODAY~~		
PH			8.7	9.0		10.5				
PHENOLTHALEIN ALKALINITY			18	18		84		10		
METHYL ORANGE ALKALINITY			50	50		102		56		
CARBONATES AS $CaCO_3$			36	36		168		20		
BICARBONATES AS $CaCO_3$			14	14		-66		36		
CHLORIDES AS C1			10	10		18				
HARDNESS AS $CaCO_3$			50	50		100				
IRON AS Fe										
FLUORIDE						1.00				
CHLORINE RESIDUAL						0.5				
TURBIDITY						0.6				
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

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

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

TT 2410

DATE COLLECTED 3/1/85

DATE OF ANALYSIS 3/1/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	~~TARAWA TERRACE~~	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH			9.1							
PHENOLTHALEIN ALKALINITY			12							
METHYL ORANGE ALKALINITY			36							
CARBONATES AS $CaCO_3$			24							
BICARBONATES AS $CaCO_3$			12							
CHLORIDES AS C1			10							
HARDNESS AS $CaCO_3$			76							
IRON AS Fe										
FLUORIDE			0.89							
CHLORINE RESIDUAL			0.9							
TURBIDITY			0.4							
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

REMARKS

Reported results to Danny Hill by phone on 3/1/85 at 1320.

COLIFORM ϕ

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

James Honeycutt

COPY TO:

☐ UTIL DIR ☐ _____

☒ WATER TREATMENT

☐ PMU ☐ MCAS PMU

☐ NREAD ☐ FILE

copy

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

DATE COLLECTED: 26 FEB 85
DATE OF ANALYSIS: 26 FEB 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.4	8.8	7.5	8.4	8.3	8.8	8.5		
PHENOLTHALEIN ALKALINITY	4	0	4	0	6	2	6	4		
METHYL ORANGE ALKALINITY	44	190	54	160	148	158	60	180		
CARBONATES AS $CaCO_3$	8	0	8	0	12	4	12	8		
BICARBONATES AS $CaCO_3$	36	190	46	160	136	154	48	172		
CHLORIDES AS C1	10	36	8	14	18	12	16	186		
HARDNESS AS $CaCO_3$	56	80	74	60	60	60	60	64		
IRON AS Fe	<0.04	<0.04	0.74	0.10	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM/PM	1.07/1.01	0.17	1.10/1.08	0.17	0.12	0.10	1.11/1.02	0.82		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.4	1.0	1.0	1.3		
TURBIDITY AM/PM	0.4/0.5	1.2	0.2/0.3	0.2	0.2	0.2	0.3/0.4	0.4		
TOTAL PHOSPHATE		1.54			1.84					
ORTHO PHOSPHATE		0.90			0.19					
META PHOSPHATE		0.64			1.65					
STABILITY	+0.2	−0.8	+0.2	−0.8	0	−0.2	+0.1	−0.1		

REMARKS

OB POND pH = 8.2

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

Barbee

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

DATE COLLECTED: 19 Feb 85
DATE OF ANALYSIS: 19 Feb 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.6	8.8	7.6	8.6	8.4	8.9	9.1		
PHENOLTHALEIN ALKALINITY	10	0	6	0	10	8	10	26		
METHYL ORANGE ALKALINITY	20	190	56	164	172	164	56	170		
CARBONATES AS $CaCO_3$	20	0	12	0	20	16	20	52		
BICARBONATES AS $CaCO_3$	0	190	44	164	152	148	36	118		
CHLORIDES AS C1	12	42	12	22	22	22	16	160		
HARDNESS AS $CaCO_3$	76	86	80	70	70	60	68	60		
IRON AS Fe	<0.04	0.57	<0.04	0.14	0.09	0.07	0.06	<0.04		
FLUORIDE AM / PM	0.91 / 0.88	0.16	1.00 / 1.04	0.16	0.11	0.09	0.96 / 0.88	0.70		
CHLORINE RESIDUAL	1.1	1.2	1.0	1.3	1.3	1.0	0.9	1.3		
TURBIDITY AM / PM	0.3 / 0.3	0.4	0.2 / 0.2	0.3	0.3	0.2	0.3 / 0.5	2.3		
TOTAL PHOSPHATE		2.05			1.68					
ORTHO PHOSPHATE		1.13			0.25					
META PHOSPHATE		0.92			1.43					
STABILITY	+0.2	-0.4	+0.3	-0.6	+0.3	+0.1	+0.3	+0.3		

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

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

DATE COLLECTED 2/12/85 | DATE OF ANALYSIS 2/12/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.3	8.8	7.4	8.3	8.3	8.6	8.2		
PHENOLTHALEIN ALKALINITY	8	0	4	0	2	2	4	0		
METHYL ORANGE ALKALINITY	50	196	52	160	150	150	70	200		
CARBONATES AS $CaCO_3$	16	0	8	0	4	4	8	0		
BICARBONATES AS $CaCO_3$	34	196	44	160	146	146	62	200		
CHLORIDES AS C1	10	50	10	20	16	18	14	160		
HARDNESS AS $CaCO_3$	60	68	82	62	56	56	74	84		
IRON AS Fe	<0.04	0.51	0.06	0.20	0.09	0.06	<0.04	0.09		
FLUORIDE	0.96 / 0.93	0.17	0.16 / 0.83	0.17	0.12	0.09	0.73 / 0.72	0.70		
CHLORINE RESIDUAL	1.2	1.2	1.0	1.2	1.5	1.0	1.0	1.1		
TURBIDITY	0.20 / 0.20	0.50	6.6 / 0.40	0.30	0.70	0.30	0.40 / 0.30	0.40		
TOTAL PHOSPHATE		1.30			1.26					
ORTHO PHOSPHATE		1.00			0.25					
META PHOSPHATE		0.30			1.01					
STABILITY	+0.4	−0.8	+0.6	−0.9	0.0	+0.1	+0.3	0.0		

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 H. J. Burns

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84) TT 2365 JT-3129

DATE COLLECTED: 1 FeB 85

DATE OF ANALYSIS: 1 FeB 85

PARAMETER	~~HADNOT POINT~~	~~CAMP JOHNSON~~	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	8.6								
PHENOLTHALEIN ALKALINITY	6	4								
METHYL ORANGE ALKALINITY	40	54								
CARBONATES AS $CaCO_3$	12	8								
BICARBONATES AS $CaCO_3$	28	46								
CHLORIDES AS C1	14	10								
HARDNESS AS $CaCO_3$	56	70								
IRON AS Fe	—									
FLUORIDE	0.90	1.03								
CHLORINE RESIDUAL	1.0	1.0								
TURBIDITY	0.50	0.29								
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

REMARKS

(COMPLAINTS)

COLI-FORM: TT 2365 = ϕ

TT-3129 = ϕ

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: BARBEE + BURNS

COPY TO:

☐ UTIL DIR ☐ _____

☑ WATER TREATMENT

☐ PMU ☐ MCAS PMU

☐ NREAD ☐ FILE

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

DATE COLLECTED: 29JAN85 | DATE OF ANALYSIS: 29JAN85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		PP#3111 1-30 (COMPLAINT)
PH	8.7	7.4	8.4	7.8	8.3	8.3	—	9.0		8.7
PHENOLTHALEIN ALKALINITY	2	0	0	0	0	0	—	8		4
METHYL ORANGE ALKALINITY	58	184	64	156	160	160	—	160		56
CARBONATES AS $CaCO_3$	4	0	0	0	0	0	—	16		8
BICARBONATES AS $CaCO_3$	54	184	64	156	160	160	—	144		48
CHLORIDES AS C1	10	30	10	20	12	14	—	150		10
HARDNESS AS $CaCO_3$	60	80	90	60	70	50	—	58		60
IRON AS Fe	<0.04	0.63	<0.04	<0.04	<0.04	<0.04	—	0.09		
FLUORIDE AM/PM	1.09/1.05	0.17	1.22/1.18	0.15	0.09	0.08	—	0.69		1.00
CHLORINE RESIDUAL	1.0	1.2	1.0	1.4	1.1	1.0	—	1.2		0.8
TURBIDITY AM/PM	0.30/0.20	0.70	0.20/0.20	0.20	0.40	0.20	—	0.60		5.0
TOTAL PHOSPHATE		1.62			0.73					
ORTHO PHOSPHATE		1.04			0.22					
META PHOSPHATE		0.58			0.51					
STABILITY	+0.4	−0.7	+0.3	−0.5	0	0	—	+0.3		

REMARKS

OB POND pH = 8.1

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

Barbee & B

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 22 JAN 85

DATE OF ANALYSIS: 22 JAN 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.4	8.6	7.5	8.4	8.0	8.7	8.3		
PHENOLTHALEIN ALKALINITY	8	0	4	0	4	0	6	2		
METHYL ORANGE ALKALINITY	56	186	62	170	164	168	64	188		
CARBONATES AS $CaCO_3$	16	0	8	0	8	0	12	4		
BICARBONATES AS $CaCO_3$	40	186	54	170	156	168	52	184		
CHLORIDES AS C1	16	24	10	18	18	36	10	142		
HARDNESS AS $CaCO_3$	54	64	82	64	72	50	72	68		
IRON AS Fe	<0.04	0.61	<0.04	0.14	<0.04	<0.04	<0.04	0.04		
FLUORIDE	1.02/1.00	0.20	1.13/1.01	0.18	0.12	0.11	1.03/0.86	0.77		
CHLORINE RESIDUAL	1.1	1.3	1.3	1.4	1.4	1.1	1.0	1.5		
TURBIDITY	0.16/0.30	1.50	0.21/0.39	0.21	0.77	0.41	1.54/1.18	0.33		
TOTAL PHOSPHATE		2.34			2.18					
ORTHO PHOSPHATE		1.21			0.28					
META PHOSPHATE		1.13			1.90					
STABILITY	+0.4	-0.9	+0.3	-0.8	+0.1	-0.4	+0.4	-0.1		

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: Barbee + Burns

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 1-15-85
DATE OF ANALYSIS: 1-15-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.1	7.9	8.8	7.4	8.4	8.2	8.7	8.1		
PHENOLTHALEIN ALKALINITY	8	0	4	0	2	0	4	0		
METHYL ORANGE ALKALINITY	50	200	50	160	150	156	64	210		
CARBONATES AS $CaCO_3$	16	0	8	0	4	0	8	0		
BICARBONATES AS $CaCO_3$	34	200	42	160	146	156	56	210		
CHLORIDES AS C1	10	40	10	14	14	30	8	120		
HARDNESS AS $CaCO_3$	54	62	68	70	50	52	66	82		
IRON AS Fe	<0.04	0.51	0.14	0.21	0.08	0.06	<0.04	0.07		
FLUORIDE AM / PM	0.95 / 0.98	0.18	1.02 / 1.13	0.19	0.12	0.11	1.12 / 1.14	0.76		
CHLORINE RESIDUAL	1.0	1.3	1.3	1.5	1.6	1.0	0.8	1.1		
TURBIDITY AM / PM	0.13 / 0.23	0.93	0.13 / 0.94	0.27	0.74	0.44	0.27 / 0.42	0.61		
TOTAL PHOSPHATE		2.95			1.13					
ORTHO PHOSPHATE		1.04			0.25					
META PHOSPHATE		1.91			0.88					
STABILITY	+0.8	-0.1	+0.5	-0.8	+0.1	-0.1	+0.5	-0.1		

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: Burns Lachapelle

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 6-84) Testwell #5 Testwell #3 Testwell #2 Testwell #4

DATE COLLECTED 1/9/85

DATE OF ANALYSIS 1/10/85

PARAMETER	~~HADNOT POINT~~	~~GAMP JOHNSON~~	~~TARAWA TERRACE~~	~~ONSLOW BEACH~~	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.1	7.8	7.9	8.6						
PHENOLTHALEIN ALKALINITY	0	0	0	10						
METHYL ORANGE ALKALINITY	80	200	156	144						
CARBONATES AS $CaCO_3$	0	0	0	20						
BICARBONATES AS $CaCO_3$	80	200	156	124						
CHLORIDES AS C1	14	16	46	8						
HARDNESS AS $CaCO_3$	96	170	176	50						
IRON AS Fe	1.76	4.06	3.31	0.31						
FLUORIDE	0.40	0.16	0.42	0.32						
CHLORINE RESIDUAL	/	/	/	/						
TURBIDITY	16.7	34.7	48.0	7.6						
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

REMARKS

Static	119'	116"	6'	20'
Depth	103'	76'	90'	107'

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

Lauren Hennessett

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☒ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED 8 JAN 85 | DATE OF ANALYSIS 8 JAN 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	2086	
PH	8.7	7.4	8.9	7.5	8.5	7.9	7.9	8.7	8.9	
PHENOLTHALEIN ALKALINITY	4	0	6	0	6	0	0	8	14	
METHYL ORANGE ALKALINITY	32	220	54	168	158	178	92	184	198	
CARBONATES AS $CaCO_3$	8	0	12	0	12	0	0	16	28	
BICARBONATES AS $CaCO_3$	24	220	42	168	146	178	92	168	170	
CHLORIDES AS C1	14	22	8	20	20	34	10	116	108	
HARDNESS AS $CaCO_3$	60	56	66	58	60	56	86	66	54	
IRON AS Fe	<0.04	0.59	<0.04	0.23	<0.04	<0.04	0.17	0.05	<0.04	
FLUORIDE AM/PM	1.01/1.03	0.19	1.30/0.97	0.17	0.12	0.10	1.08/0.84	0.88	0.87	
CHLORINE RESIDUAL	1.1	1.4	1.0	1.0	1.5	0.5	0.9	1.3	—	
TURBIDITY AM/PM	0.12/0.28	0.73	0.37/0.67	0.32	0.30	0.35	0.13/0.27	0.47	—	
TOTAL PHOSPHATE		2.05			1.28					
ORTHO PHOSPHATE		1.04			0.32					
META PHOSPHATE		1.01			0.96					
STABILITY	+0.3	-0.9	+0.4	-0.9	0	-0.6	-0.5	0	+0.1	

REMARKS

OB POND pH = 8.4

COPY TO:

☐ UTIL DIR ☐

☑ WATER TREATMENT

☐ PMU ☐ MCAS PMU

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature,

LABORATORY ANALYSIS BY

WRD

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

DATE COLLECTED 12/26/84 | DATE OF ANALYSIS 12/26/84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.3	8.8	7.4	8.4	8.1	8.7	7.8		
PHENOLTHALEIN ALKALINITY	8	0	4	0	2	0	6	0		
METHYL ORANGE ALKALINITY	56	216	44	170	160	186	56	268		
CARBONATES AS $CaCO_3$	16	0	8	0	4	0	12	0		
BICARBONATES AS $CaCO_3$	40	216	36	170	156	186	44	268		
CHLORIDES AS C1	6	40	10	12	12	30	10	124		
HARDNESS AS $CaCO_3$	58	82	60	62	54	54	64	144		
IRON AS Fe	<0.04	0.61	0.06	0.34	<0.04	0.10	<0.04	0.12		Air Compressa
FLUORIDE	0.93 / 0.97	0.18	0.52 / 0.65	0.20	0.12	0.11	0.85 / 0.96	0.86		Quit
CHLORINE RESIDUAL	1.0	1.3	1.4	1.4	1.4	1.0	0.9	1.4		
TURBIDITY	0.20 / 0.70	0.70	0.30 / 0.33	0.29	0.30	0.27	0.30 / 0.30	0.60		
TOTAL PHOSPHATE		2.18			1.04					
ORTHO PHOSPHATE		1.00			0.22					
META PHOSPHATE		1.18			0.82					
STABILITY	+0.7	−0.7	+0.7	−0.9	+0.2	−0.1	+0.5	0.0		

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

H. J. Burns + Barbee

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 12-18-84

DATE OF ANALYSIS: 12-18-84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.5	8.5	7.4	8.4	8.2	8.5	8.7		
PHENOLTHALEIN ALKALINITY	6	0	4	0	6	6	6	14		
METHYL ORANGE ALKALINITY	56	206	58	156	188	172	74	184		
CARBONATES AS $CaCO_3$	12	0	8	0	12	12	12	28		
BICARBONATES AS $CaCO_3$	44	206	50	156	176	160	62	156		
CHLORIDES AS C1	10	38	12	20	18	30	10	114		
HARDNESS AS $CaCO_3$	60	86	80	70	74	60	80	50		
IRON AS Fe	<0.04	0.42	<0.04	0.26	0.10	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	0.96 / 0.93	0.16	0.63 / 0.46	0.19	0.10	0.09	1.01 / 0.95	0.75		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.5	1.2	1.0	0.9	1.4		
TURBIDITY AM / PM	0.2 / 0.2	0.9	0.5 / 0.4	0.4	0.5	0.3	0.1 / 0.1	0.4		
TOTAL PHOSPHATE		2.60			1.04					
ORTHO PHOSPHATE		1.09			0.22					
META PHOSPHATE		1.51			0.82					
STABILITY	+0.5	-0.6	+0.2	-0.9	0.0	-0.1	+0.2	+0.1		

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: Lachapelle Barber

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

WTP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 12/11/84

DATE OF ANALYSIS: 12/11/84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.4	8.7	7.5	8.4	8.3	8.9	9.0		
PHENOLTHALEIN ALKALINITY	6	0	4	0	2	0	6	20		
METHYL ORANGE ALKALINITY	50	190	40	150	180	160	50	160		
CARBONATES AS $CaCO_3$	12	0	8	0	4	0	12	40		
BICARBONATES AS $CaCO_3$	38	190	32	150	176	160	38	120		
CHLORIDES AS C1	10	36	10	16	10	30	6	110		
HARDNESS AS $CaCO_3$	60	74	80	60	60	54	62	56		
IRON AS Fe	<0.04	0.33	<0.04	0.06	<0.04	<0.04	0.08	0.13		
FLUORIDE	1.01 / 0.98	0.15	1.06 / 1.11	0.15	0.09	0.09	1.00 / 0.93	0.63		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.0	1.4	1.0	0.8	1.3		
TURBIDITY	0.34 / 0.33	0.67	0.30 / 0.40	0.32	0.50	0.37	0.60 / 0.20	1.08		
TOTAL PHOSPHATE		2.05			0.96					
ORTHO PHOSPHATE		1.00			0.16					
META PHOSPHATE		1.05			0.80					
STABILITY	+0.7	−0.7	+0.5	−0.7	+0.1	0.0	+0.6	+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

H.J. Burns + Bob Lacnapelle

WRP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 4DEC 84 | DATE OF ANALYSIS: 4DEC 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.3	8.6	7.4	8.6	8.3	8.7	8.7		
PHENOLTHALEIN ALKALINITY	6	0	2	0	10	4	6	16		
METHYL ORANGE ALKALINITY	68	202	58	162	194	160	66	218		
CARBONATES AS $CaCO_3$	12	0	4	0	20	8	12	32		
BICARBONATES AS $CaCO_3$	56	202	54	162	174	152	54	186		
CHLORIDES AS C1	8	42	12	22	18	30	18	82		
HARDNESS AS $CaCO_3$	70	74	80	82	52	50	68	50		
IRON AS Fe	<0.04	0.42	<0.04	0.15	<0.04	<0.04	<0.04	<0.04		
FLUORIDE AM / PM	0.69 / 0.66	0.14	1.05 / 1.00	0.13	0.12	0.09	1.03 / 0.97	0.90		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.3	1.3	1.2	0.9	1.3		
TURBIDITY AM / PM	0.6 / 0.3	0.6	0.4 / 0.4	0.3	0.3	0.4	0.3 / 0.5	1.9		
TOTAL PHOSPHATE		4.05			1.04					
ORTHO PHOSPHATE		1.32			0.19					
META PHOSPHATE		2.73			0.85					
STABILITY	+0.6	-0.8	+0.4	-0.8	+0.2	-0.1	+0.4	+0.1		

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: Margaret Lachapelle

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

DATE COLLECTED 11/27/84 | DATE OF ANALYSIS 11/27/84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	1203
PH	8.8	7.6	8.4	7.4	8.3	8.2	8.6	7.8	8.0
PHENOLTHALEIN ALKALINITY	4	0	2	0	0	0	2	0	0
METHYL ORANGE ALKALINITY	40	180	56	160	150	140	60	240	60
CARBONATES AS $CaCO_3$	8	0	4	0	0	0	4	0	0
BICARBONATES AS $CaCO_3$	32	180	52	160	150	140	56	240	60
CHLORIDES AS C1	10	50	10	14	10	26	10	88	10
HARDNESS AS $CaCO_3$	60	76	80	64	64	50	62	142	62
IRON AS Fe	<0.04	0.57	<0.04	0.15	<0.04	<0.04	0.07	0.18	0.04
FLUORIDE	0.76 / 0.75	0.13	0.76 / 0.95	0.13	0.08	0.07	1.00 / 0.93	0.80	0.93
CHLORINE RESIDUAL	1.0	1.4	1.1	1.5	1.4	1.0	0.9	1.4	0.4
TURBIDITY	0.30 / 0.39	0.80	0.30 / 0.30	0.30	0.50	0.30	0.17 / 0.58	5.8	1.0
TOTAL PHOSPHATE		2.70			0.96				
ORTHO PHOSPHATE		1.17			0.22				
META PHOSPHATE		1.53			0.74				
STABILITY	+0.4	−0.6	+0.2	−0.9	0.0	−0.1	+0.4	−0.3	

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 H. A. Burn

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 20 NOV 84
DATE OF ANALYSIS: 20 NOV 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.5	9.3	7.5	8.5	8.4	8.6	8.5		
PHENOLTHALEIN ALKALINITY	8	0	10	0	6	2	6	2		
METHYL ORANGE ALKALINITY	68	202	40	168	178	182	66	244		
CARBONATES AS $CaCO_3$	16	0	20	0	12	4	12	4		
BICARBONATES AS $CaCO_3$	52	202	20	168	166	178	54	240		
CHLORIDES AS C1	10	44	12	18	18	28	10	80		
HARDNESS AS $CaCO_3$	72	68	58	50	60	58	74	60		
IRON AS Fe	0.04	0.91	0.04	0.15	0.04	0.04	0.04	0.04		
FLUORIDE AM / PM	1.04 / 1.03	0.14	1.07 / 0.89	0.15	0.10	0.08	1.00 / 0.98	0.92		
CHLORINE RESIDUAL	1.0	1.4	0.9	1.6	1.3	1.0	1.0	1.2		
TURBIDITY AM / PM	1.4 / 1.7	1.5	0.3 / 0.6	0.3	0.4	0.3	0.3 / 1.0	0.4		
TOTAL PHOSPHATE		5.00			0.88					
ORTHO PHOSPHATE		1.68			0.19					
META PHOSPHATE		3.32			0.69					
STABILITY	+0.4	-0.7	+0.7	-0.8	+0.1	0.0	+0.3	0.0		

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: Margaret Barbee

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 20 NOV 84
DATE OF ANALYSIS: 20 NOV 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.5	(9.3)	7.5	8.5	8.4	8.6	8.5		
PHENOLTHALEIN ALKALINITY	8	0	10	0	6	2	6	2		
METHYL ORANGE ALKALINITY	68	202	40	168	178	182	66	244		
CARBONATES AS $CaCO_3$	16	0	20	0	12	4	12	4		
BICARBONATES AS $CaCO_3$	52	202	20	168	166	178	54	240		
CHLORIDES AS C1	10	44	12	18	18	28	10	80		
HARDNESS AS $CaCO_3$	72	68	58	50	60	58	74	60		
IRON AS Fe	0.04	(0.91)	0.04	0.15	0.04	0.04	0.04	0.04		
FLUORIDE AM / PM	1.04 / 1.03	0.14	1.07 / 0.89	0.15	0.10	0.08	1.00 / 0.98	0.92		
CHLORINE RESIDUAL	1.0	1.4	0.9	1.6	1.3	1.0	1.0	1.2		
TURBIDITY AM / PM	1.4 / 1.7	1.5	0.3 / 0.6	0.3	0.4	0.3	0.3 / 1.0	0.4		
TOTAL PHOSPHATE		5.00			0.88					
ORTHO PHOSPHATE		1.68			0.19					
META PHOSPHATE		3.32			0.69					
STABILITY	+0.4	-0.7	+0.7	-0.8	+0.1	0.0	+0.3	0.0		

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: Frezcutt Barbee

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 15 NOV 84

DATE OF ANALYSIS: 15 NOV 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	TT 2038
PH									9.0
PHENOLTHALEIN ALKALINITY									6
METHYL ORANGE ALKALINITY									46
CARBONATES AS $CaCO_3$									12
BICARBONATES AS $CaCO_3$									34
CHLORIDES AS C1									12
HARDNESS AS $CaCO_3$									64
IRON AS Fe									
FLUORIDE									0.97
CHLORINE RESIDUAL									0.6
TURBIDITY									2.5
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

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: A Lachance

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☒ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 13 NOV 84
DATE OF ANALYSIS: 13 NOV 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7	7.2	9.1	7.5	8.5	8.2	8.5	8.8		
PHENOLTHALEIN ALKALINITY	6	0	10	0	4	0	4	20		
METHYL ORANGE ALKALINITY	60	190	40	150	160	170	60	230		
CARBONATES AS $CaCO_3$	12	0	20	0	8	0	8	40		
BICARBONATES AS $CaCO_3$	48	190	20	150	152	170	52	190		
CHLORIDES AS C1	10	54	10	16	12	20	10	94		
HARDNESS AS $CaCO_3$	60	86	66	56	58	62	68	44		
IRON AS Fe	<0.04	0.61	<0.04	0.15	<0.04	<0.04	<0.04	<0.04		
FLUORIDE	0.94 / 0.80	0.12	0.91 / 0.84	0.12	0.08	0.07	1.00 / 0.87	0.92		
CHLORINE RESIDUAL	1.0	1.4	1.0	1.1	1.4	0.8	1.1	1.6		
TURBIDITY	0.34 / 0.59	1.00	0.25 / 0.52	0.45	0.31	0.27	0.20 / 0.27	0.33		
TOTAL PHOSPHATE		2.05			1.04					
ORTHO PHOSPHATE		0.84			0.22					
META PHOSPHATE		1.21			0.82					
STABILITY	+0.4	−0.8	+0.8	−0.7	+0.2	0.0	+0.2	+0.2		

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: 13 VENS + LACHAPELLE

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 30 Oct 84
DATE OF ANALYSIS: 30 Oct 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.5	9.0	7.5	8.5	8.5	(9.5)	8.8		
PHENOLTHALEIN ALKALINITY	4	0	6	0	4	2	8	10		
METHYL ORANGE ALKALINITY	48	184	46	160	160	152	48	238		
CARBONATES AS $CaCO_3$	8	0	12	0	8	4	16	20		
BICARBONATES AS $CaCO_3$	40	184	34	160	152	148	32	218		
CHLORIDES AS C1	10	12	12	18	18	16	12	88		
HARDNESS AS $CaCO_3$	64	66	66	72	68	52	50	46		
IRON AS Fe	<0.04	(0.41)	<0.04	0.13	<0.04	<0.04	0.04	0.06		
FLUORIDE AM / PM	1.03 / 0.99	0.16	0.91 / 0.89	0.15	0.11	0.10	0.91 / 0.93	0.98		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.3	1.0	1.0	1.3		
TURBIDITY AM / PM	0.3 / 0.3	1.5	0.7 / 1.2	0.3	0.2	0.2	0.2 / 0.3	0.3		
TOTAL PHOSPHATE		2.08			1.00					
ORTHO PHOSPHATE		1.00			0.25					
META PHOSPHATE		1.08			0.75					
STABILITY	+0.6	−0.8	+0.4	−0.8	+0.1	0.0	+0.6	+0.2		

REMARKS

Resample HB/pH = 9.4 "High pH due to Meter malfunction at Water Plant".

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: R Lachapelle

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED 10/6/84 | DATE OF ANALYSIS 10/6/84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.3	8.6	7.4	8.4	8.3	8.6	8.7		
PHENOLTHALEIN ALKALINITY	4	0	4	0	2	2	4	12		
METHYL ORANGE ALKALINITY	54	200	56	150	150	140	60	210		
CARBONATES AS $CaCO_3$	8	0	8	0	4	4	8	24		
BICARBONATES AS $CaCO_3$	46	200	48	150	146	136	52	186		
CHLORIDES AS C1	10	40	10	18	14	14	10	84		
HARDNESS AS $CaCO_3$	64	80	84	52	58	56	64	46		
IRON AS Fe	<0.04	0.75	0.07	1.0	<0.04	<0.04	<0.04	<0.04		
FLUORIDE A.M./P.M.	1.01 / 1.07	0.17	1.05 / 1.08	0.17	0.12	0.10	1.23 / 1.23	0.97		
CHLORINE RESIDUAL	0.9	1.2	1.0	1.5	1.4	1.0	0.9	1.3		
TURBIDITY A.M./P.M.	0.20 / 0.27	1.43	2.6 / 4.36	0.24	0.27	0.30	0.20 / 0.25	0.74		
TOTAL PHOSPHATE		3.45			1.00					
ORTHO PHOSPHATE		1.24			0.25					
META PHOSPHATE		2.21			0.75					
STABILITY	+0.4	−0.8	+0.3	−0.7	+0.2	0.0	+0.3	+0.1		

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
BVENS & LACHAPELLE

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED: 30 Oct 84
DATE OF ANALYSIS: 30 Oct 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0	7.5	9.0	7.5	8.5	8.5	9.5	8.8		
PHENOLTHALEIN ALKALINITY	4	0	6	0	4	2	8	10		
METHYL ORANGE ALKALINITY	48	184	46	160	160	152	48	238		
CARBONATES AS $CaCO_3$	8	0	12	0	8	4	16	20		
BICARBONATES AS $CaCO_3$	40	184	34	160	152	148	32	218		
CHLORIDES AS C1	10	12	12	18	18	16	12	88		
HARDNESS AS $CaCO_3$	64	66	66	72	68	52	50	46		
IRON AS Fe	<0.04	0.41	<0.04	0.13	<0.04	<0.04	0.04	0.06		
FLUORIDE AM / PM	1.03 / 0.99	0.16	0.91 / 0.89	0.15	0.11	0.10	0.91 / 0.93	0.98		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.3	1.0	1.0	1.3		
TURBIDITY AM / PM	0.3 / 0.3	1.5	0.7 / 1.2	0.3	0.2	0.2	0.2 / 0.3	0.3		
TOTAL PHOSPHATE		2.08			1.00					
ORTHO PHOSPHATE		1.00			0.25					
META PHOSPHATE		1.08			0.75					
STABILITY	+0.6	-0.8	+0.4	-0.8	+0.1	0.0	+0.6	+0.2		

REMARKS

Resample HB/pH = 9.4 "High pH due to Meter malfunction at Water Plant".

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: R Lachapelle

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

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

DATE COLLECTED 10/23/84 | DATE OF ANALYSIS 10/23/84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.3	8.5	7.4	8.3	8.3	8.7	8.5		
PHENOLTHALEIN ALKALINITY	4	0	2	0	0	0	4	6		
METHYL ORANGE ALKALINITY	50	174	60	160	142	144	60	210		
CARBONATES AS $CaCO_3$	8	0	4	0	0	0	8	12		
BICARBONATES AS $CaCO_3$	42	174	56	160	142	144	52	198		
CHLORIDES AS C1	10	10	10	14	12	14	10	90		
HARDNESS AS $CaCO_3$	54	80	80	60	70	46	70	48		
IRON AS Fe	<0.04	0.36	<0.04	0.13	<0.04	<0.04	<0.04	<0.04		
FLUORIDE A.M./P.M.	1.00 / 1.07	0.17	0.78 / 0.72	0.15	0.11	0.09	0.83 / 0.79	0.93		
CHLORINE RESIDUAL	1.0	1.5	1.0	1.3	1.3	1.0	1.0	1.3		
TURBIDITY A.M./P.M.	0.34 / 0.55	1.03	0.47 / 0.64	0.26	0.30	0.29	0.23 / 0.26	0.47		
TOTAL PHOSPHATE		1.92			1.54					
ORTHO PHOSPHATE		0.84			0.28					
META PHOSPHATE		1.08			1.26					
STABILITY	+0.6	−0.8	+0.3	−0.7	+0.1	0.0	+0.4	+0.1		

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

BURNS & BARBEE

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED 19 OCT 84 | DATE OF ANALYSIS 19 OCT 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	2210 MOQ	
PH									8.7	
PHENOLTHALEIN ALKALINITY									4	
METHYL ORANGE ALKALINITY									58	
CARBONATES AS $CaCO_3$									8	
BICARBONATES AS $CaCO_3$									50	
CHLORIDES AS C1									6	
HARDNESS AS $CaCO_3$									60	
IRON AS Fe									0.05	
FLUORIDE									0.71	
CHLORINE RESIDUAL									0.4	
TURBIDITY									1.81	
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY									0	

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

M Barbee

COPY TO:

- ☐ UTIL DIR ☐ _____
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE

WTP

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED: 10-16-84

DATE OF ANALYSIS: 10-16-84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.1	7.4	7.8	7.5	8.5	8.1	8.8	8.5		
PHENOLTHALEIN ALKALINITY	8	0	0	0	4	0	4	6		
METHYL ORANGE ALKALINITY	56	182	134	168	142	176	66	244		
CARBONATES AS $CaCO_3$	16	0	0	0	8	0	8	12		
BICARBONATES AS $CaCO_3$	40	182	134	168	134	176	58	232		
CHLORIDES AS C1	10	24	18	22	16	20	8	116		
HARDNESS AS $CaCO_3$	64	68	144	56	50	60	66	58		
IRON AS Fe	<0.04	0.43	0.06	0.14	<0.04	<0.04	<0.04	<0.04		
FLUORIDE	0.97/0.95	0.16	1.10/1.16	0.15	0.10	0.09	1.05/0.84	0.89		
CHLORINE RESIDUAL	1.1	1.3	1.0	1.5	1.4	1.0	1.0	1.3		
TURBIDITY	0.30/0.40	0.96	0.40/0.42	0.20	0.29	0.33	0.20/0.28	0.50		
TOTAL PHOSPHATE		3.30			1.32					
ORTHO PHOSPHATE		1.17			0.16					
META PHOSPHATE		2.13			1.16					
STABILITY	+0.5	-0.6	-0.1	-0.8	0	-0.3	+0.2	0		

REMARKS

pH OB POND - 8.3

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

T Barbee J Sweezart

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

DATE COLLECTED 10-9-84 | DATE OF ANALYSIS 10-9-84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.8	7.8	8.9	7.6	8.3	8.3	8.9	8.7		
PHENOLTHALEIN ALKALINITY	6	0	6	0	4	2	6	12		
METHYL ORANGE ALKALINITY	82	196	52	166	172	196	60	220		
CARBONATES AS $CaCO_3$	12	0	12	0	8	4	12	24		
BICARBONATES AS $CaCO_3$	70	196	40	166	164	192	48	196		
CHLORIDES AS C1	10	20	18	18	20	52	20	94		
HARDNESS AS $CaCO_3$	74	66	76	56	50	52	66	48		
IRON AS Fe	/0.04	0.34	0.04	0.15	0.04	0.09	0.04	0.04		
FLUORIDE	0.93/0.95	0.16	1.24/1.19	0.16	0.11	0.10	0.98/0.84	0.87		
CHLORINE RESIDUAL	0.9	1.4	1.0	1.5	1.1	1.0	0.9	1.3		
TURBIDITY	0.33/0.31	0.94	0.46/0.75	0.25	0.21	0.46	0.40/0.35	0.63		
TOTAL PHOSPHATE		2.75			0.81					
ORTHO PHOSPHATE		1.04			0.22					
META PHOSPHATE		1.71			0.59					
STABILITY	+0.3	-0.3	+0.5	-0.8	-0.2	-0.2	+0.2	+0.1		

REMARKS

pH OB. POND = 8.2

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 Th Barbee

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

DATE COLLECTED: 2 OCTOBER 84
DATE OF ANALYSIS: 2 OCTOBER 84

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.9	7.3	8.7	7.4	8.5	8.3	9.0	8.6		
PHENOLTHALEIN ALKALINITY	6	0	2	0	4	0	8	8		
METHYL ORANGE ALKALINITY	52	174	40	160	150	152	56	164		
CARBONATES AS $CaCO_3$	12	0	4	0	8	0	16	16		
BICARBONATES AS $CaCO_3$	40	174	36	160	142	152	40	148		
CHLORIDES AS C1	10	20	10	20	10	16	10	90		
HARDNESS AS $CaCO_3$	60	50	62	56	60	42	60	0.58		
IRON AS Fe	<0.04	0.41	<0.04	0.17	<0.04	<0.04	0.15	0.12		
FLUORIDE A.N. / P.M.	0.94 / 0.75	0.14	0.97 / 1.05	0.13	0.09	0.07	0.96 / 0.90	0.81		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.3	1.3	1.0	0.9	1.3		
TURBIDITY A.M. / P.M.	0.20 / 0.30	1.00	0.3 / 8.00	0.40	0.40	0.30	0.3 / 8.10	3.90		
TOTAL PHOSPHATE		3.85			0.69					
ORTHO PHOSPHATE		1.32			0.19					
META PHOSPHATE		2.53			0.50					
STABILITY	+0.7	−0.9	+0.3	−0.7	+0.4	0.0	+0.7	+0.1		

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: BURNS & BARBEE

COPY TO:
- ☐ UTIL DIR ☐ _____
- ☑ WATER TREATMENT
- ☐ PMU ☐ MCAS PMU
- ☐ NREAD ☐ FILE