

0266

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330-3 (REV. 6-84)

DATE COLLECTED
12-03-85

DATE OF ANALYSIS
12-03-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TAPAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	BA 164
PH	8.8	7.5	8.6	7.7	8.3	8.4	8.9	8.9	7.7
PHENOLTHALEIN ALKALINITY	2	0	2	0	2	2	4	4	
METHYL ORANGE ALKALINITY	60	186	70	164	160	186	60	120	
CARBONATES AS CaCO ₃	4	0	4	0	4	4	8	8	
BICARBONATES AS CaCO ₃	56	186	66	164	156	182	52	112	
CHLORIDES AS Cl	8	12	16	16	14	32	10	38	
HARDNESS AS CaCO ₃	64	68	78	72	54	56	64	50	162
IRON AS Fe	20.04	0.38	0.07	0.33	0.07	0.06	20.04	20.04	
FLUORIDE AM/PM	1.27 / 1.31	0.22	0.84 / 0.89	0.23	0.13	0.22	0.99 / 0.97	0.48	
CHLORINE RESIDUAL	1.0	1.3	1.0	1.0	1.4	1.0	0.9	0.8	
TURBIDITY AM/PM	0.1 / 0.4	0.5	0.3 / 0.3	0.3	0.2	0.2	0.4 / 0.9	0.4	
TOTAL PHOSPHATE		1.21			0.51				
ORTHO PHOSPHATE	000000	0.84			0.03				
META PHOSPHATE	000000	0.37			0.48				
STABILITY	90.0	-0.9	+0.1	-0.8	-0.2	-0.1	+0.4	+0.2	

REMARKS
 pH OB Cond = 8.1
 1697

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
 Brenda Williams

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

12-10-85

12-10-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.6	7.4	8.7	7.7	8.4	8.4	8.8	8.6		
PHENOLTHALEIN ALKALINITY	4	0	4	0	4	4	4	4		
METHYL ORANGE ALKALINITY	68	204	58	168	94	176	58	140		
CARBONATES AS CaCO ₃	8	0	8	0	8	8	8	8		
BICARBONATES AS CaCO ₃	60	204	50	168	86	168	50	132		
CHLORIDES AS Cl	10	38	26	20	18	50	10	40		
HARDNESS AS CaCO ₃	78	70	72	70	76	68	70	60		
IRON AS Fe	<0.04	0.39	<0.04	0.20	<0.04	0.07	0.05	0.06		
FLUORIDE AM/PM	0.98/1.03	0.18	0.70/0.76	0.20	0.13	0.10	1.04/1.00	0.49		
CHLORINE RESIDUAL	1.2	1.2	1.0	—	1.3	1.0	0.9	0.9		
TURBIDITY AM/PM	0.2/0.3	0.5	0.3/0.2	0.2	0.3	0.3	0.3/0.5	0.3		
TOTAL PHOSPHATE		0.95			0.08					
ORTHO PHOSPHATE		0.80			0					
META PHOSPHATE		0.15			0.08					
STABILITY	+0.3	-0.9	+0.2	-0.6	+0.1	0	+0.5	-0.12		

00000001
 CLW
 398

REMARKS

pH OB FOUND = 8.0

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

Barker

11 NREAD

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

12-17-85

DATE OF ANALYSIS

12-17-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB ELVD	NEW RIVER
PH	8.8	7.5	8.7	7.8	8.5	8.6	8.9	8.9
PHENOLTHALEIN ALKALINITY	4	0	4	0	4	2	2	8
METHYL ORANGE ALKALINITY	60	180	64	156	168	150	64	126
CARBONATES AS CaCO ₃	8	0	8	0	8	4	4	16
BICARBONATES AS CaCO ₃	52	180	56	156	160	148	60	110
CHLORIDES AS Cl	10	30	20	18	18	30	14	46
HARDNESS AS CaCO ₃	76	64	76	48	54	56	74	48
IRON AS Fe	20.04	0.34	0.06	0.29	0.06	0.08	0.77	0.08
FLUORIDE	A.M. 0.78 P.M. 0.79	0.16	0.94 0.94	0.20	0.12	0.12	0.99 0.83	0.48
CHLORINE RESIDUAL	1.1	1.4	1.0	1.5	1.6	1.0	0.9	0.8
TURBIDITY	A.M. 0.3 P.M. 0.8	0.8	0.4 0.3	0.3	0.2	0.3	0.2 16.2	1.0
TOTAL PHOSPHATE		2.09			0.07			
ORTHO PHOSPHATE		0.76			0.00			
META PHOSPHATE		1.33			0.07			
STABILITY	+0.7	-0.8	+0.2	-0.6	+0.1	+0.2	+0.4	+0.4

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CEW

REMARKS

H3 - REPEAT TURBIDITY = 0.6

COPY TO:

UTIL DIR

WATER TREATMENT

PMU MCAS PMU

NREAD

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LABORATORY ANALYSIS BY

H. A. [Signature]

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MSBCL 11330/3 (REV. 6-84)

DATE COLLECTED

12-3-85

DATE OF ANALYSIS

12-3-85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5	7.3	8.7	7.5	8.3	8.4	8.7	
PHENOLTHALEIN ALKALINITY	4	0	4	0	2	4	2	
METHYL ORANGE ALKALINITY	60	140	50	160	164	110	128	
CARBONATES AS CaCO ₃	8	0	8	0	4	8	4	
BICARBONATES AS CaCO ₃	52	190	42	160	160	162	64	
CHLORIDES AS Cl	12	30	20	20	20	24	14	
HARDNESS AS CaCO ₃	72	66	56	52	36	60	78	
IRON AS Fe	40.04	0.31	40.04	0.26	40.04	0.06	40.04	L
FLUORIDE	A.P.H. 0.74 0.89	0.26	1.23 1.33	0.22	0.14	0.10	1.14 1.10	E
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.4	1.0	1.0	
TURBIDITY	A.P.H. 0.2 0.2	0.8	0.4 0.3	0.3	0.2	0.2	0.2	
TOTAL PHOSPHATE	0000001400	1.55			0.06			
ORTHO PHOSPHATE		0.77			0.0			
META PHOSPHATE		0.78			0.6			
STABILITY	+0.2	-1.2	-0.1	-1.1	-0.4	-0.2	+0.6	

REMARKS

* New River No Sample

CLM

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

DATE COLLECTED 1-2-86

DATE OF ANALYSIS 1-2-86

MCBCL 11330 3 (REV 6-84)

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.7	8.8	7.8	8.6	8.6	8.0	8.8
PHENOLTHALEIN ALKALINITY	6	0	4	0	2	4	2	6
METHYL ORANGE ALKALINITY	62	198	66	168	184	170	58	124
CARBONATES AS CaCO ₃	12	0	8	0	4	8	4	12
BICARBONATES AS CaCO ₃	50	198	58	168	180	162	54	112
CHLORIDES AS Cl	12	32	20	22	24	36	10	44
HARDNESS AS CaCO ₃	72	70	72	62	56	88	60	58
IRON AS Fe	LO.04	0.32	LO.04	0.27	LO.04	0.05	0.07	0.12
FLUORIDE Am/pm	1.15/1.33	0.20	0.86/1.03	0.19	0.12	0.10	1.07/1.23	0.53
CHLORINE RESIDUAL	1.1	1.2	1.0	1.8	1.3	1.1	1.2	0.9
TURBIDITY Am/pm	0.3/0.2	0.5	0.2/0.5	0.2	0.2	0.2	0.3/1.2	0.6
TOTAL PHOSPHATE		1.33			0.07			
ORTHO PHOSPHATE		0.80			0.0			
META PHOSPHATE		0.53			0.07			
STABILITY								

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CLW

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
Barbie Shores

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

DATE: 1-7-86

1-7-86

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.4	8.5	7.8	8.5	8.5	8.6	8.6
PHENOLTHALEIN ALKALINITY	6	0	2	0	4	6	6	6
METHYL ORANGE ALKALINITY	60	200	80	166	170	158	78	136
CARBONATES AS CaCO ₃	12	0	4	0	8	12	12	12
BICARBONATES AS CaCO ₃	48	200	76	166	162	146	66	124
CHLORIDES AS Cl	14	36	20	24	24	44	22	52
HARDNESS AS CaCO ₃	70	90	88	58	64	58	84	52
IRON AS Fe	<0.04	0.41	0.06	0.22	0.06	0.07	0.07	0.08
FLUORIDE	A.M./P.M. $\frac{0.94}{0.92}$	0.19	$\frac{1.06}{0.93}$	0.19	0.14	0.11	$\frac{1.07}{1.10}$	0.44
CHLORINE RESIDUAL	0.9	1.3	1.0	1.4	1.2	1.0	0.9	0.9
TURBIDITY	A.M./P.M. $\frac{0.2}{0.2}$	0.7	$\frac{0.5}{0.6}$	0.2	0.4	0.2	$\frac{0.2}{0.6}$	0.3
TOTAL PHOSPHATE		1.68			0.07			
ORTHO PHOSPHATE		0.76			0.00			
META PHOSPHATE		0.92			0.07			
STABILITY	+0.5	-0.9	0.0	-0.7	0.0	0.0	+0.2	0.0

REMARKS

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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.H. BARBER

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

CSCL 1330 (REV 6-84)

DATE COLLECTED
1-14-86

DATE OF ANALYSIS
1-14-86

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ON SLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	ELDONR BUND	NEW RIVER		
PH	8.6	7.4	8.6	7.3	8.0	8.0	8.6	8.5		
PHENOLTHALEIN ALKALINITY	4	0	4	0	4	4	4	12		
METHYL ORANGE ALKALINITY	64	190	64	142	164	180	62	132		
CARBONATES AS CaCO ₃	8	0	8	0	8	8	8	24		
BICARBONATES AS CaCO ₃	56	190	76	142	156	172	74	1.08		
CHLORIDES AS Cl	10	30	20	14	14	40	12	48		
HARDNESS AS CaCO ₃	78	66	60	66	70	86	76	50		
IRON AS Fe	—	—	A.A.	DOWN	—	—	—	—		
FLUORIDE	$\frac{1.37}{1.45}$	0.19	$\frac{1.02}{1.21}$	0.21	0.12	0.12	$\frac{1.22}{1.25}$	0.55		
CHLORINE RESIDUAL	1.2	1.2	1.0	1.2	1.5	1.0	0.8	0.8		
TURBIDITY	$\frac{0.3}{0.3}$	1.0	$\frac{0.3}{0.4}$	0.5	0.3	0.4	$\frac{0.3}{0.3}$	1.0		
TOTAL PHOSPHATE		2.36			0.06					
ORTHO PHOSPHATE		0.87			0.00					
META PHOSPHATE		1.49			0.06					
STABILITY		-0.6	+0.6	-0.6	0.0	0.0	+0.5	+0.1		

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REMARKS

COPY TO:

- STIL 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
 WPCOL 1310 3 (REV 6-84)

DATE COLLECTED:
 - 21 - 86

DATE OF ANALYSIS:
 1-21-86

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ON SLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMP BLVD	NEW RIVER
PH	8.8	7.2	8.4	7.6	8.4	8.3	8.7	8.5
PHENOLTHALEIN ALKALINITY	4	0	2	0	4	2	2	4
METHYL ORANGE ALKALINITY	60	185	60	160	170	156	60	146
CARBONATES AS CaCO ₃	8	0	4	0	8	4	4	8
BICARBONATES AS CaCO ₃	52	185	56	160	162	152	56	138
CHLORIDES AS Cl	10	30	20	20	18	40	10	46
HARDNESS AS CaCO ₃	66	70	70	50	62	70	64	64
IRON AS Fe	—	A.A.	DOWN	—	—	—	—	—
FLUORIDE	P.M. 0.12 / 0.13	0.15	P.M. 0.90 / 0.96	0.18	0.10	0.2	P.M. 1.01 / 0.97	0.54
CHLORINE RESIDUAL	1.1	1.2	1.0	2.0	1.2	1.0	0.9	0.8
TURBIDITY	P.M. 0.2 / 0.2	0.5	P.M. 0.3 / 0.3	0.2	0.2	0.4	P.M. 0.2 / 0.3	0.3
TOTAL PHOSPHATE	00000071404 CLM	0.90			0.07			
ORTHO PHOSPHATE		0.62			0.00			
META PHOSPHATE		0.28			0.07			
STABILITY	0.1	-0.8	+0.2	-0.8	0.0	0.0	+0.3	+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

H. J. Burns

LABORATORY ANALYSIS

WATER TREATMENT PLANTS

DATE COLLECTED
1-28-86

DATE

PARAMETER	WATER TREATMENT PLANT	CANYON IMPROVEMENT	YAVAPAI TERRACE	NO. 25 REACH	PIEHOUSE DAM	PILE RANGE	MC COMB BLVD	NEW RIVER
pH	8.6	7.3	8.7	7.6	8.3	8.4	8.6	8.7
PHENOLTHALEIN ALKALINITY	2	0	2	0	0	2	2	6
METHYL ORANGE ALKALINITY	62	180	46	154	162	143	60	118
CARBONATES AS CaCO ₃	4	0	4	0	0	4	4	12
BICARBONATES AS CaCO ₃	58	180	42	154	162	144	56	106
CHLORIDES AS Cl	4	14	16	16	16	40	10	42
HARDNESS AS CaCO ₃	70	72	66	60	76	44	64	54
IRON AS Fe	<0.04	0.34	40.04	0.15	40.04	0.06	40.04	40.04
FLUORIDE	0.15 / 0.17	0.16	1.04 / 0.84	0.22	0.12	0.12	1.16 / 1.08	0.50
CHLORINE RESIDUAL	1.0	1.2	1.0	1.0	1.0	1.0	0.9	0.8
TURBIDITY	0.2 / 0.2	1.1	0.2 / 0.5	0.2	0.2	0.3	0.4 / 0.4	0.5
TOTAL PHOSPHATE		3.06			0.09			
ORTHO PHOSPHATE		1.05			0			
META PHOSPHATE		2.01			0.09			
STABILITY	+0.4	-0.8	+0.5	-0.7	-0.1	-0.1	+0.1	+0.1

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REMARKS

COPY TO:

UTIL DIR

WATER TREATMENT

PMU MCAS PMU

NREAD FILE

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LABORATORY ANALYSIS BY
Gruber/Burro/Waddoups