

6280/1
NREAD
9 May 1985

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commanding Officer, Naval Hospital, Marine Corps Base,
Camp Lejeune

Subj: WATER QUALITY MONITORING AND RELATED ENVIRONMENTAL HEALTH
CONSIDERATIONS FOR APRIL 1985

Ref: (a) CG MCB CLNC ltr NREAD/DDS/th 11330/2 of 19 May 1983

Encl: (1) Weekly Chemical Analysis of Drinking Water
(2) Weekly Bacteriological Analysis of Drinking Water
(3) Weekly Naval Hospital Ice Samples Bacteriological
Analysis
(4) Bacteriological Analysis of Midway Park Water Laterals
(5) Analysis of Complaints
(6) Water Plant Maintenance Check Samples
(7) Analysis of Water Samples from Military Units in the
Field

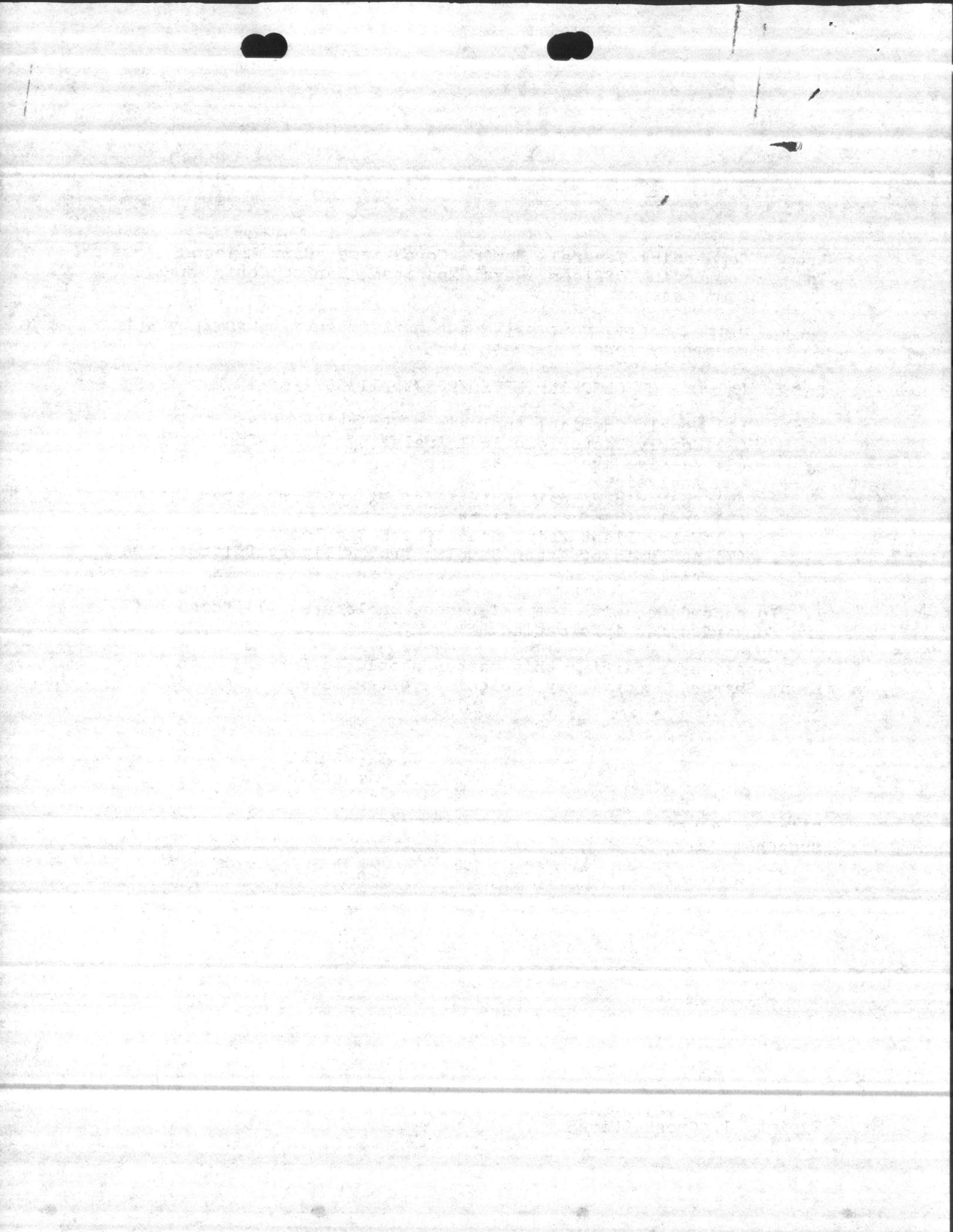
1. In accordance with the reference, enclosures (1) through (7)
are forwarded for information.

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

J. I. WOOTEN
By direction

Blind copy to:
SupvChem

Writer: E. Betz, NREAD 5977
Typist: J. Cross 9May85



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

DATE COLLECTED

2 APR 85

DATE OF ANALYSIS

2 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	TT 2152	TT 3172	TC 307
PH	9.0	7.7	9.1	7.7	8.6	8.4	8.8	8.6	8.5	9.0	8.9
PHENOLTHALEIN ALKALINITY	6	0	6	0	.6	2	4	6	2	4	12
METHYL ORANGE ALKALINITY	50	196	42	164	162	158	58	180	50	44	178
CARBONATES AS CaCO ₃	12	0	12	0	12	4	8	12	4	8	24
BICARBONATES AS CaCO ₃	38	196	30	164	150	154	50	168	46	36	154
CHLORIDES AS Cl	6	32	10	20	16	14	8	140	8	8	170
HARDNESS AS CaCO ₃	60	126	60	68	62	54	64	60	70	60	58
IRON AS Fe	<0.04	0.56	<0.04	0.11	0.05	<0.04	<0.04	<0.04	0.09	0.54	-
FLUORIDE AM/PM	0.75/0.80	0.17	0.96/0.77	0.17	0.12	0.09	0.67/0.69	0.80	0.74	0.78	0.74
CHLORINE RESIDUAL	1.2	1.3	1.0	1.5	1.4	1.0	0.9	1.2	0.9	0.9	-
TURBIDITY AM/PM	0.20/0.21	0.64	1.20/0.70	0.21	0.60	0.55	0.20/0.20	0.27	0.35	1.20	0.64
TOTAL PHOSPHATE		2.00			1.38						
ORTHO PHOSPHATE		1.04			0.22						
META PHOSPHATE		0.96			1.16						
STABILITY	+0.4	-0.5	+0.3	-0.7	+0.1	-0.1	+0.3	0	-	-	-

REMARKS

pH OB POND 8.5

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

ENCLOSURE (1)



9 APR 85

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 Cl	10	38	16	26	22	36	16	58
HARDNESS AS CaCO ₃	58	78	76	60	74	68	64	54
IRON AS Fe	40.04	0.75	0.05	0.15	40.04	40.04	40.04	40.04
FLUORIDE	AM 0.97 PM 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 0.34 PM 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

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

R. H. Hines



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	ONSLGW 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		
PHYLL 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 Cl	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 0.96	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

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

1875

1876

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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 Cl	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	0.167	0.35/0.58	0.16	0.60	0.26	0.113/0.25	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

NQTE: 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



REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	Ø	1.0	0945	MCAS - 3502	24	Ø	0.4	0925	TIME RECEIVED 1155
RR - 15	2		1.0	0950	MCAS - 2002	25		0.9	0935	DATE RECEIVED 4-2-85
10	3		1.0	1000	MCAS - 4157	26		1.0	0915	ACCEPTED BY J
	4				MCAS - 2080	27		1.0	0945	DATE ANALYZED 4-2-85
A-1	5		0.9	0850		28				ANALYSIS STARTED 1220
BB - 7	6		1.0	0810	NRMC - Food Service	29		0.7	1020	ANALYSIS FINISHED 1355
BB - 260	7		1.0	0840	PP - 2615	30		0.5	1000	INCUBATOR TEMP 36.0°C
BB - 245	8		1.0	0815	PP - 2600	31		0.6	1010	PROCESSED BY J
	9				BM - 5400	32		0.7	1040	
BA - 103	10		0.7	1015	BM - 1985	33		0.5	1030	CUSTODY DATA
BA - 101	11		0.9	1025	LCH - 4022	34		0.7	1050	DATE
	12				LCH - 4003	35		0.6	1100	TIME
TT - 38	13		1.0	0900		36				SIGNATURE
43	14		1.0	0915	H - 1 - 12B	37		0.8	0950	DATE
2152	15		0.9	1245	H - 16	38		0.6	0945	TIME
	16				FC - 303	39		0.9	0900	SIGNATURE
CK - 1007	17		0.8	1000	FC - 420	40		0.9	0910	
M - 139	18		1.2	1030	FC - 540	41		0.9	0915	COPY TO:
M - 104	19		1.1	1045	HP - 236	42		Closed		<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43		0.8	0845	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0905	HP - 1400	44		0.9	0835	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22		1.5	0955	HP - 20	45	Ø	1.0	0935	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	Ø	0.6	0845		46				<input type="checkbox"/>

REMARKS

SIGNATURE

ENCLOSURE (2)



BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	1.0		0830
FC-19					
SH-8		Ø	0.5		0925
M.P. POOL		Ø	0.5	7.8	1030
#2 POOL		Closed			
#5 POOL		Ø	0.4	7.8	0845
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
REMARKS					



4/9/85

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	∅	1.0	0940	MCAS - 3502	24	∅	0.4	0920	TIME RECEIVED 1235-1300
RR - 15	2		1.0	0935	MCAS - 2002	25		0.8	0930	DATE RECEIVED 4-9-85
RR - 6	3		1.0	0945	MCAS - 4157	26		0.5	0910	ACCEPTED BY LACHAPALLE
	4				MCAS - 1039	27		1.0	0940	DATE ANALYZED 4-9-85
	5		1.2	0918		28				ANALYSIS STARTED 1250
BB - 7	6		1.2	0846	NRMC - FOOD SERVICE	29		0.6	1043	ANALYSIS FINISHED 1440
BB - 270	7		1.2	0907	PP - 2615	30		0.6	1027	INCUBATOR TEMP 35.5
BB - 45	8		1.2	0836	PP - 2611	31		0.6	1032	PROCESSED BY Burns
	9				BM - 5400	32		0.5	1055	
BA - 103	10		1.5	1110	BM - 855	33		0.6	1105	CUSTODY DATA
BA - 101	11		1.4	1118	LCH - 4022	34		0.6	1133	DATE
	12				LCH - 4000	35		0.6	1138	TIME
TT - 38	13		1.0	0847		36				SIGNATURE
TT - 43	14		0.9	0927	H - 1 WARD 12-A	37		0.6	1005	DATE
T - 408	15		0.7	0909	H - 23	38		1.1	1012	TIME
	16				FC - 303	39		1.1	0914	SIGNATURE
CK - 1308	17		0.5	0951	FC - 420	40	√	1.3	0921	
M - 139	18		0.6	1040	FC - 416	41	∅	1.1	0927	COPY TO:
M - 171	19		0.7	1017	HP - 236	42	CLOSED	—	—	<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	∅	1.2	0905	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0900	HP - 1300 1400	44	∅	1.1	0840	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	√	1.5	0850	HP - 1005	45	∅	1.0	0847	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	∅	1.0	0840		46	∅			<input type="checkbox"/>

REMARKS

SIGNATURE

H. D. Burns 4/10/85



BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		∅	0.8		0853
FC-19					
SH-8		∅	0.5		0941
M.P. POOL		∅	0.9	7.6	1045
#2 POOL		Closed			
#5 POOL		∅	0.5	7.5	0900
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					

REMARKS



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

DATE COLLECTED
 15 Apr 1985

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	0	1.0	1025	MCAS - 3502	24	0	0.8	1000	TIME RECEIVED 1130-1225
RR - 15	2		0.9	1035	MCAS - 2002	25		0.6	1010	DATE RECEIVED 4-15-85
72	3		0.8	1045	MCAS - 2013	26		0.9	1020	ACCEPTED BY Burns
	4				MCAS - 1198	27		1.0	1035	DATE ANALYZED 4-15-85
A-1	5		0.6	0945		28				ANALYSIS STARTED 1303
BB - 7	6		0.7	0900	NRMC - Food Service	29		0.5	1105	ANALYSIS FINISHED 1405
BB - 49	7		0.7	0935	PP - 2615	30		0.6	1050	INCUBATOR TEMP 34.5°C
BB - 9	8		0.6	0920	PP - 2600	31		0.4	1055	PROCESSED BY La Chapelle
	9				BM - 5400	32		0.7	1120	
BA - 103	10		0.7	1120	BM - 1985	33		0.7	1125	CUSTODY DATA
BA - 101	11		0.7	1130	LCH - 4022	34		0.6	1135	DATE
	12				LCH - 4000	35		0.6	1140	TIME
TT - 38	13		1.0	0835		36				SIGNATURE
- 43	14		1.1	0852	H - 1	37		1.0	1030	DATE
- 3178	15		1.2	0902	H - 18	38		1.0	1040	TIME
	16				FC - 303	39		1.0	0935	SIGNATURE
CK - 1511	17		0.5	0918	FC - 420	40		1.0	0930	
M - 139	18		1.0	0930	FC - 540	41		1.0	0920	COPY TO:
M - 614	19		0.6	0954	HP - 236	42				<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43		1.1	0910	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0910	HP - 4000 1400	44		1.1	0850	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22		1.2	0940	HP - 1407	45		1.0	0855	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - 910	23	0	1.1	0920		46				<input type="checkbox"/>

REMARKS

SIGNATURE

R. D. + J. L. A.





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

DATE COLLECTED
 30 APR 85

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	∅	0.8	1100	MCAS - 3502	24	∅	0.4	0930	TIME RECEIVED
RR - 15	2	I	0.8	1130	MCAS - 2002	25	I	0.8	0940	DATE RECEIVED 30 APR 85
RR - 10	3	I	0.8	1200	MCAS - A54157	26	I	0.6	0920	ACCEPTED BY
	4				MCAS A5-2077	27	I	0.8	1000	DATE ANALYZED 30 APR 85
A-1	5	∅	1.0	0915		28				ANALYSIS STARTED
BB - 7	6	I	1.0	0840	NRMC Food Service	29	∅	0.7	1120	ANALYSIS FINISHED
BB - 265	7	I	1.1	0850	PP - 2615	30	I	0.7	1105	INCUBATOR TEMP 34.5°C
BB - 245	8	I	1.0	0900	PP - 2617	31	I	0.7	1110	PROCESSED BY Hunevutt
	9				BM - 5400	32	I	0.7	1130	
BA - 103	10	∅	1.0	1015	BM - 825	33	I	0.7	1145	CUSTODY DATA
BA - 101	11	I	0.9	1025	LCH - 4022	34	I	0.7	1205	DATE
	12				LCH - 4025	35	I	0.7	1210	TIME
TT - 38	13	∅	1.0	0830		36				SIGNATURE
TT - 43	14	I	0.9	0845	H - 1 Ward 12A	37	∅	1.0	1050	DATE
TT - 3298	15	I	0.8	0900	H - 30	38	I	0.7	1045	TIME
	16				FC - 303	39	I	1.0	0940	SIGNATURE
CK - 1517	17	∅	0.7	0930	FC - 420	40	I	1.0	0950	
M - 139	18	I	0.4	1045	FC - 425 Snack Bar	41	I	0.9	1000	COPY TO:
M - 103	19	I	0.3	1100	HP - 236	42	I	1.1	0930	<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	I	1.1	0915	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	∅	0.3	0910	HP - 1300-1400	44	I	1.1	0850	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	I	1.0	0900	HP - 1171	45	I	1.1	0900	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	I	0.3	0850		46				<input type="checkbox"/>

REMARKS

SIGNATURE

THE UNIVERSITY OF CHICAGO

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QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11220/8 (REV. 4/78)

Fi

WATER TYPE *Ice* SAMPLE COLLECTED BY *PMU* DATE COLLECTED *4 April 85*

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
<i>USNH</i>	<i>2W 1040</i>	<i>∅</i>	
	<i>3W 1045</i>		
	<i>3E 1047</i>		
	<i>4A 1043</i>		
	<i>2W 1034</i>		
	<i>NSY 1038</i>		
	<i>ER 1030</i>		
	<i>4W 1045</i>		

REMARKS *Rec 1130 4-4-85 L*

SIGNATURE *[Signature]* DATE *5 APR 85*

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



QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11280/8 (REV. 4/78)

WATER TYPE <u>ICE SAMPLES</u>	SAMPLE COLLECTED BY		DATE COLLECTED	
	LOCATION	MARKED	TOTAL	FECAL
			PMU	29 APR 85 1400-1500
<u>4A (EAST)</u>			<u>Ø</u>	
<u>2 WEST</u>			<u>Ø</u>	
<u>4 WEST</u>			<u>Ø</u>	
<u>2 E (IGU)</u>			<u>Ø</u>	
<u>3 EAST (MGO)</u>			<u>Ø</u>	
<u>2 EAST</u>			<u>Ø</u>	
<u>3 W</u>			<u>Ø</u>	

REMARKS

Rec'd lat 1115, 30 APR 85, TRB
 Analysis , 30 APR 85, TRB

SIGNATURE

[Handwritten Signature]

DATE

5/1/85

COPY TO

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

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- file*



11

QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11220/8 (REV. 4/78)

file

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE		KEN HUGHES		1 APR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
1405 MIDWAY PARK	CL ₂ 0.4	0			
1413	↓	0			
1415		0			
1419		0			
1420		0			
1432		0			
1435		0			

REMARKS

Field Lat 1401, 1 APR 85, by THB

KEN HUGHES NOTIFIED VERBALLY

SIGNATURE

H. J. Brown

DATE

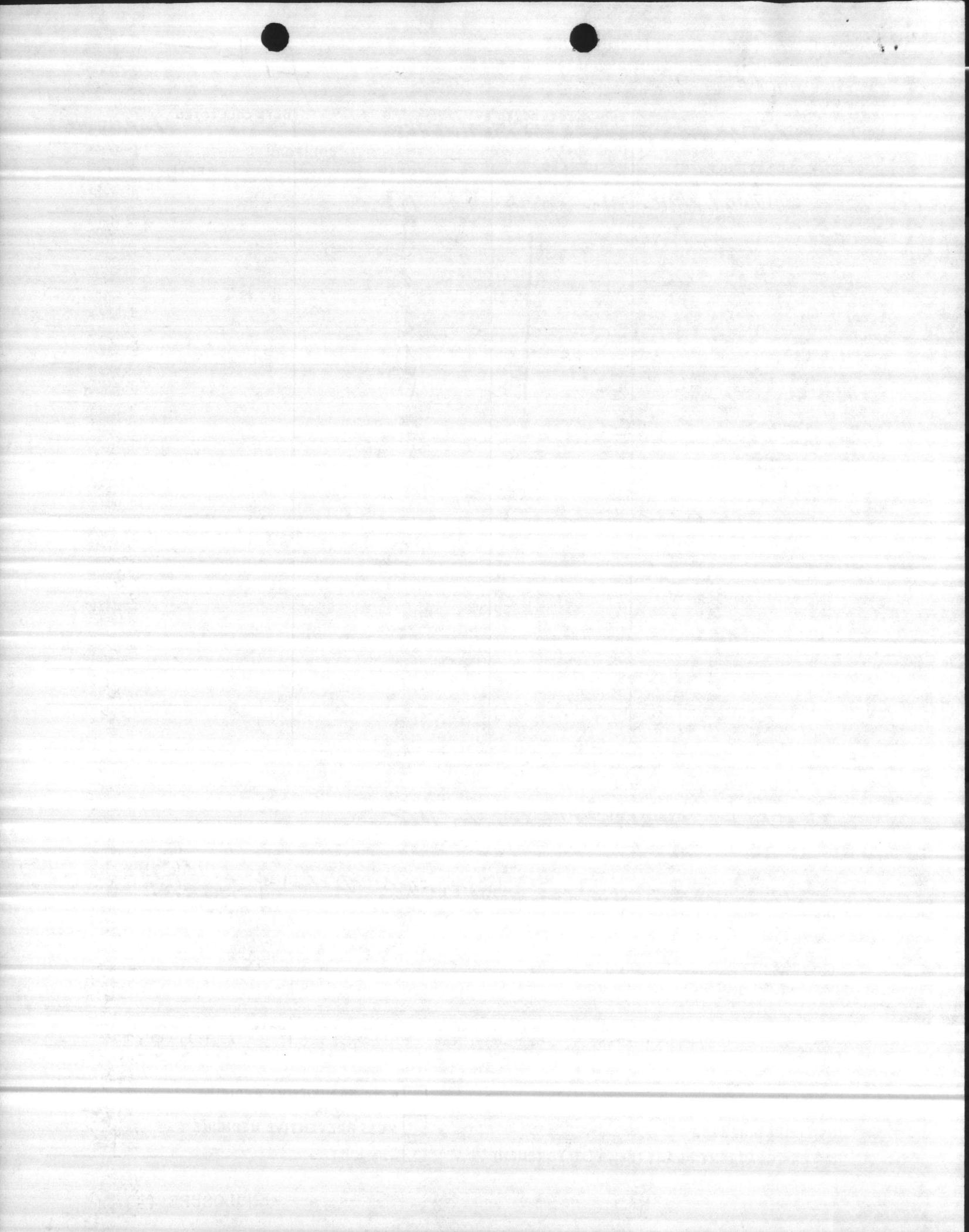
2 APR 85

COPY TO

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

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
-

ENCLOSURE



QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

FILE

MCBCL 11230/8 (REV. 4/78)

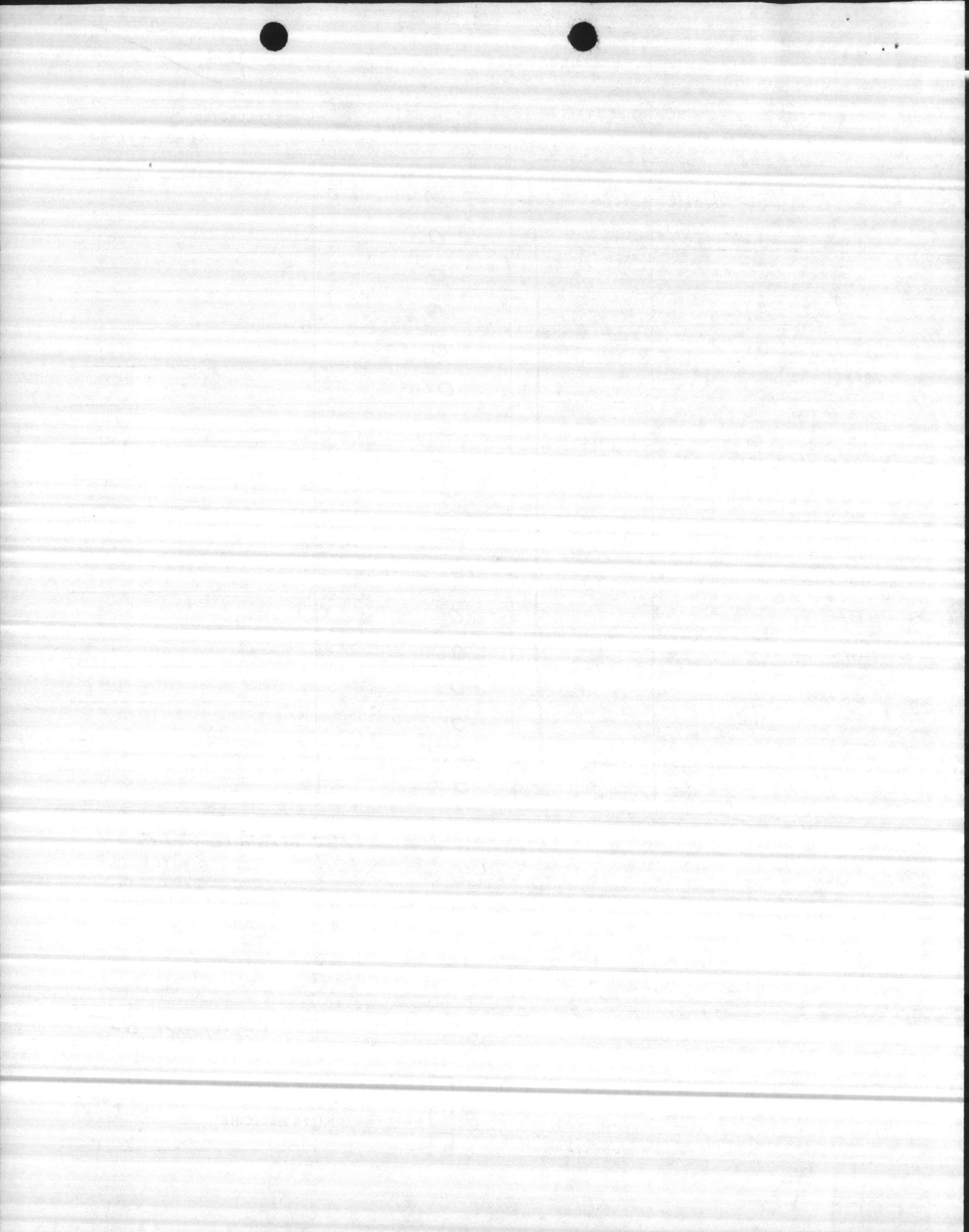
WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE		KEN HUGHES		10 APRIL 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
1232 MIDWAY PARK	Cl ₂ - 0.2	0			
1233		0			
1238		0			
1240		0			
1241		0			
1242		0			
1243		0			
1244		0			
1245		0			
1246		0			
1427		0			
1634		0			
1635		0			
1638		0			
1639		0			
REMARKS 1640		0			
1641		0			

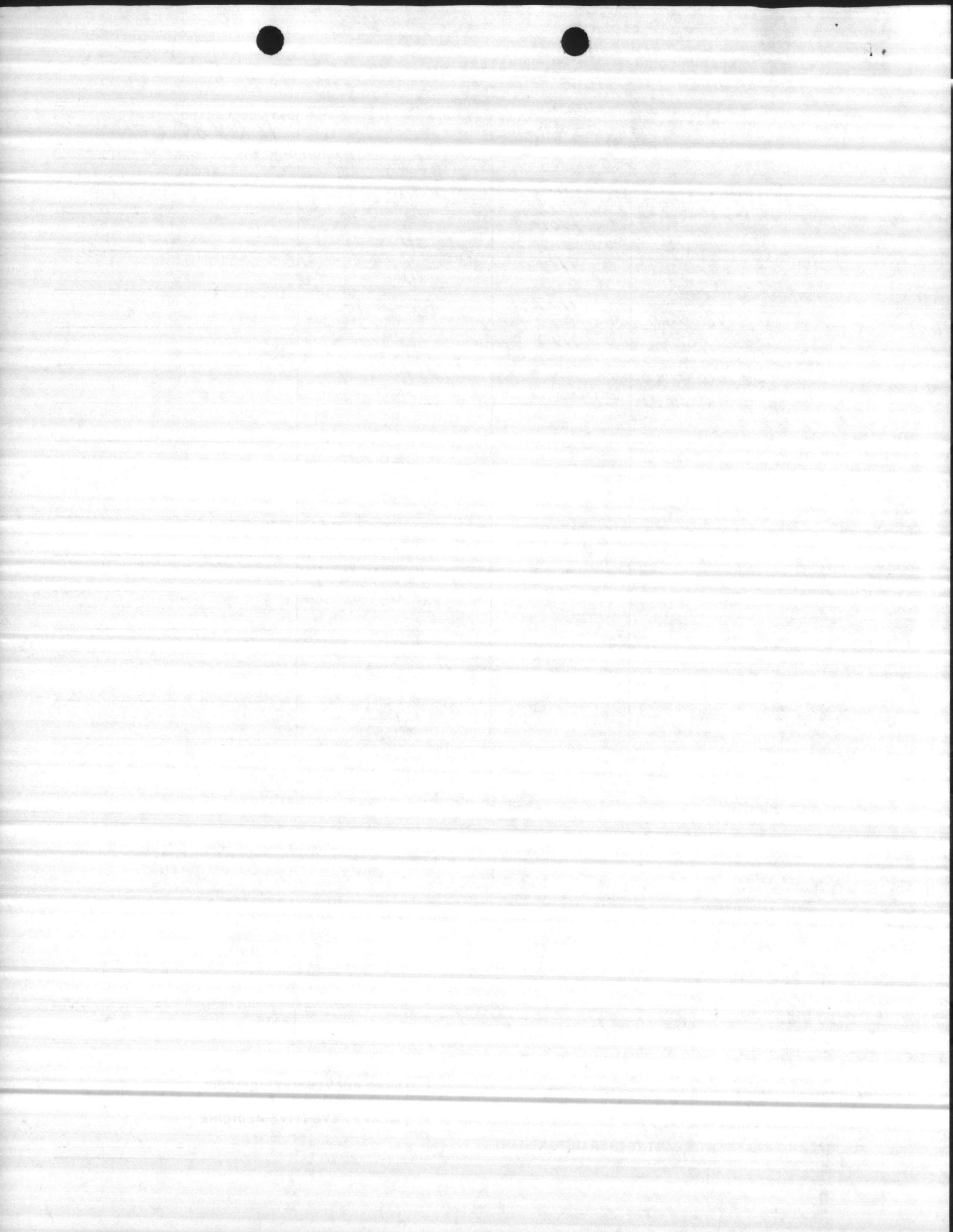
J @ 1545 10 APRIL ANALYSIS STARTED 0815, 11 APRIL 85

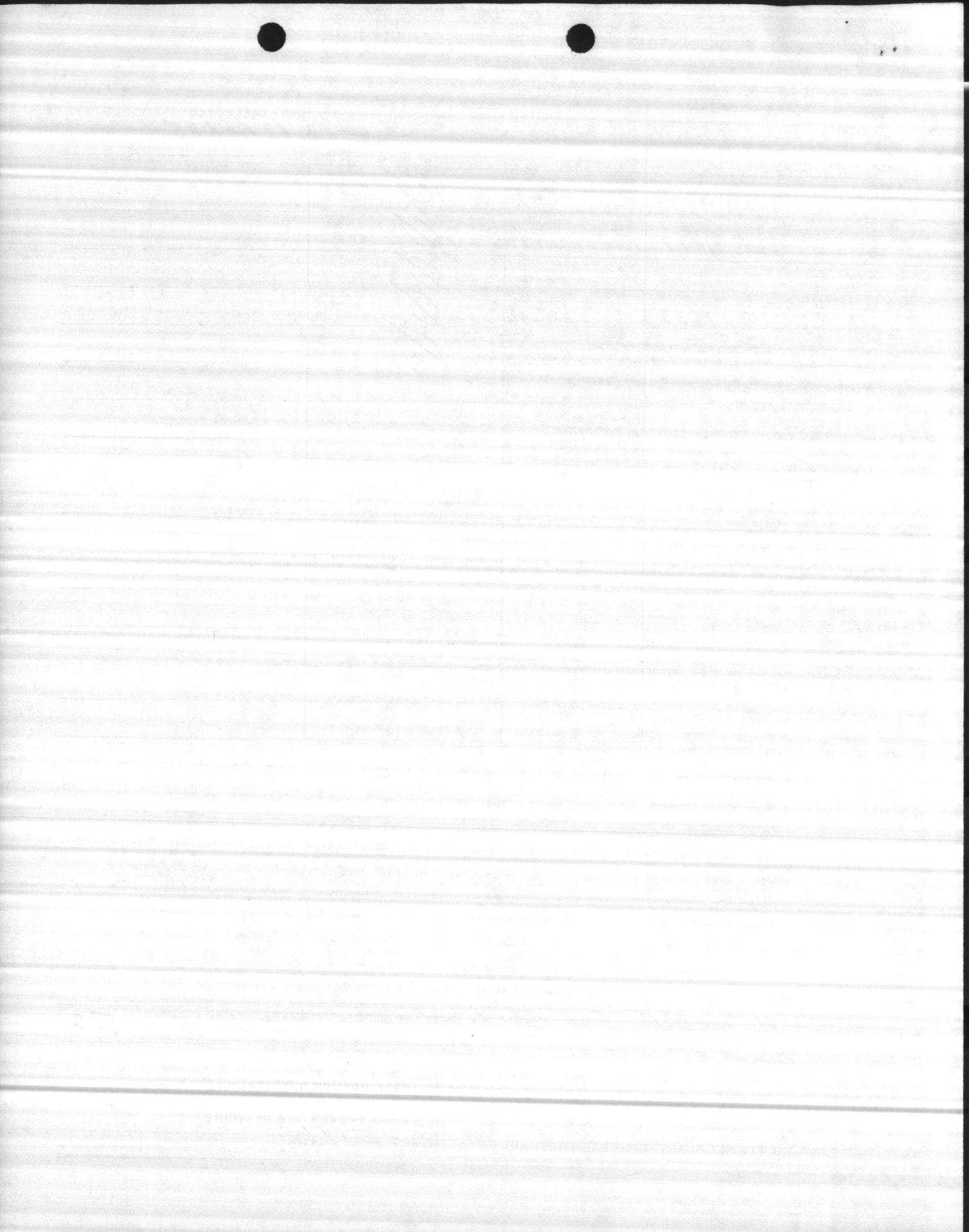
SIGNATURE *H. Barber* DATE 12 April 85

COPY TO

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- WATER TREATMENT PLANT (GENERAL FOREMAN)
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE







File

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
MCBCL 11330/6 (REV. 4/78)

WATER TYPE Potable SAMPLE COLLECTED BY Public Works DATE COLLECTED 4-16-85

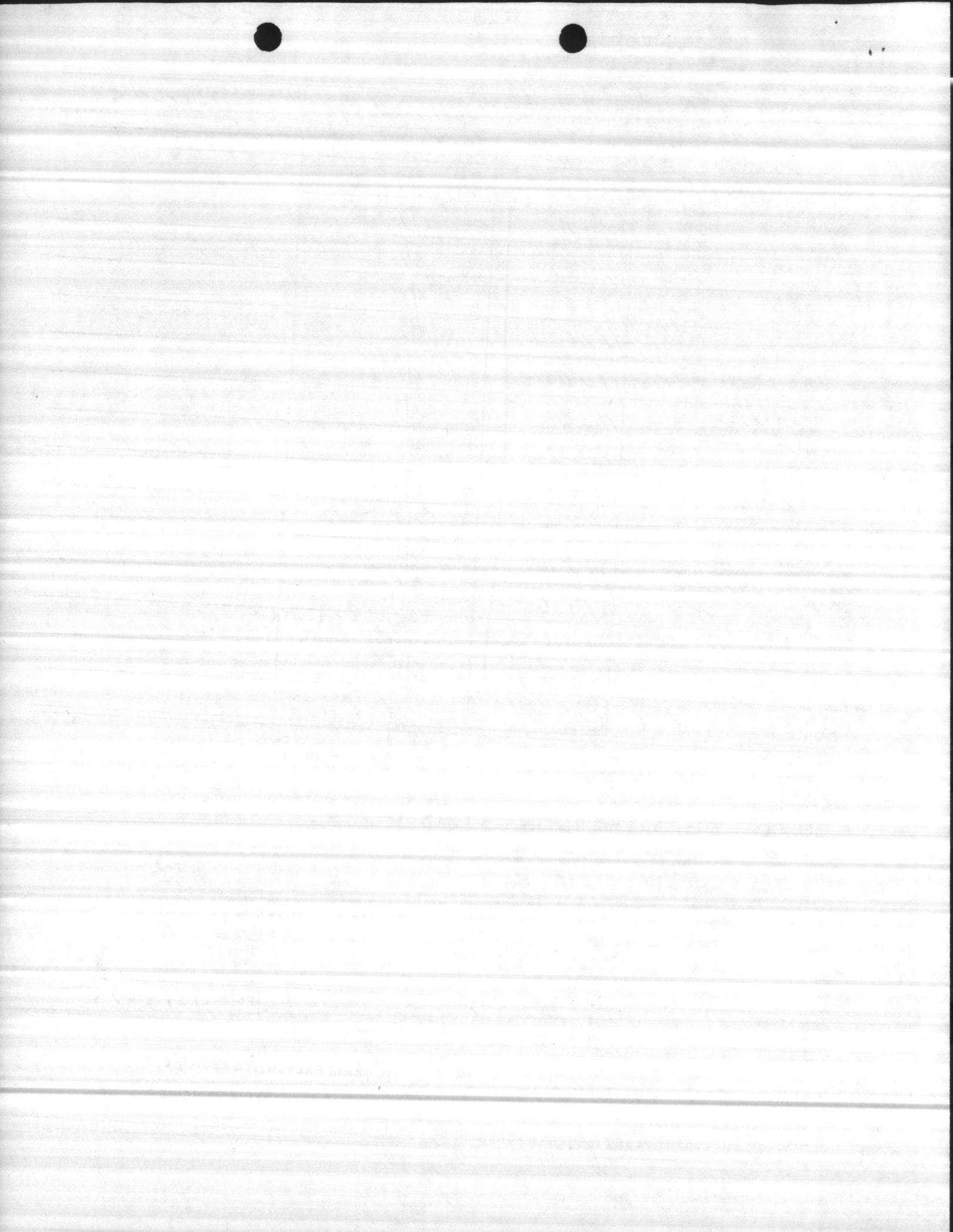
LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
<u>Midway Park</u>	<u>1621</u> ⁰¹ / _{0.2}	<u>0</u>	
	<u>1612</u>	<u>0</u>	
	<u>1617</u>	<u>0</u>	
	<u>1613</u>	<u>0</u>	
	<u>1606</u>	<u>0</u>	
	<u>1609</u>	<u>0</u>	
	<u>1618</u>	<u>0</u>	
	<u>1623</u>	<u>0</u>	
	<u>1622</u>	<u>0</u>	
	<u>1605</u>	<u>0</u>	
	<u>1604</u>	<u>0</u>	
	<u>1626</u>	<u>0</u>	
	<u>1614</u>	<u>0</u>	
	<u>1627</u>	<u>0</u>	

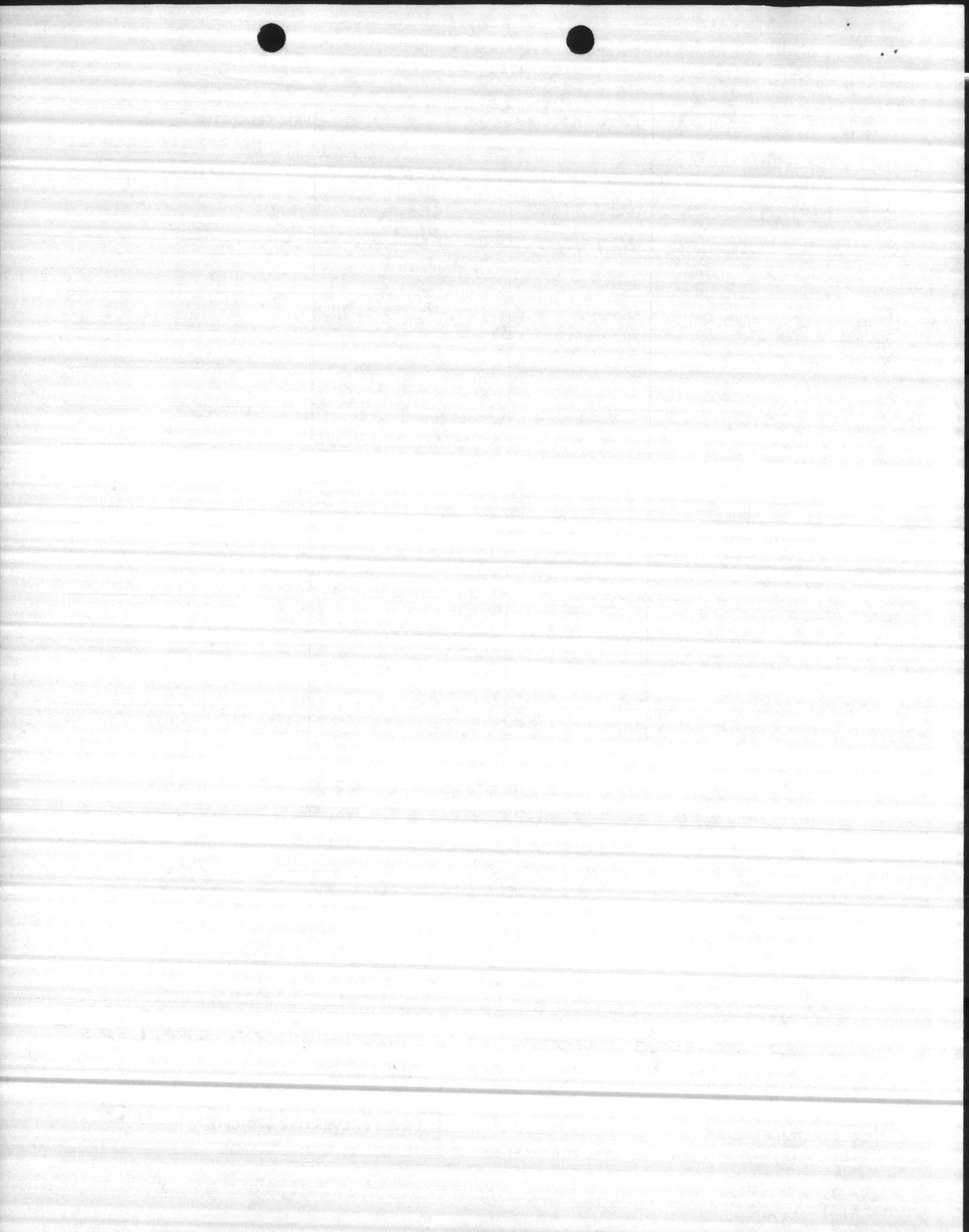
Compliant Growth with Coliforms

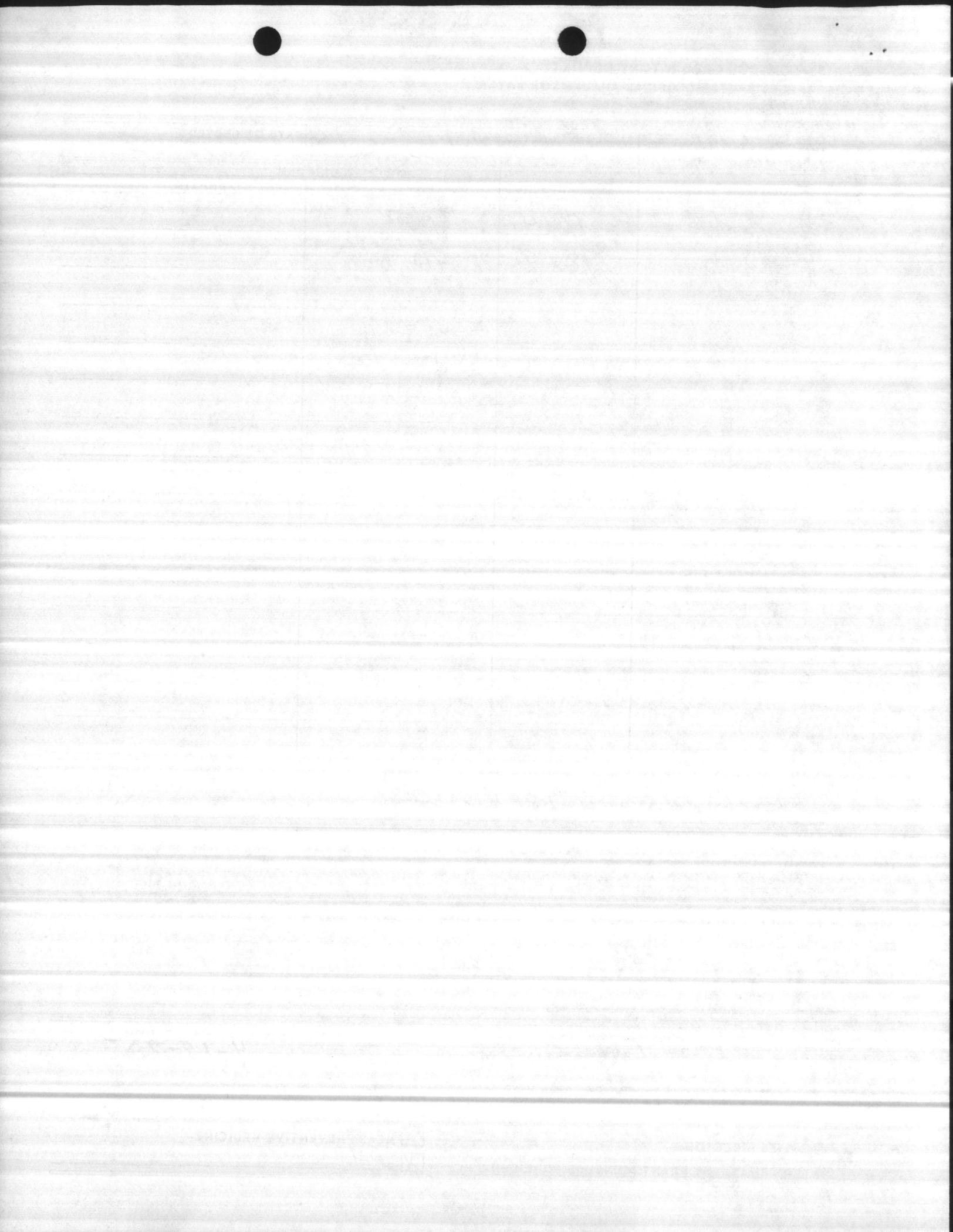
REMARKS # 1618 TNTC - NON COLIFORM
(REPEAT 1614 + 1618)

SIGNATURE H. J. Burns DATE 4-17-85

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







QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11830/8 (REV. 4/78)

WATER TYPE POTABLE SAMPLE COLLECTED BY WICKS DATE COLLECTED 19 APR 85

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
1524 MIDWAY PARK		0	
1526		55 **	
1530		0	
1532		0 *	
1535		0	
1601		1 **	
1602		0	
1603		0	
1606		0	
1608		0	
1610		0	
1616		4 **	

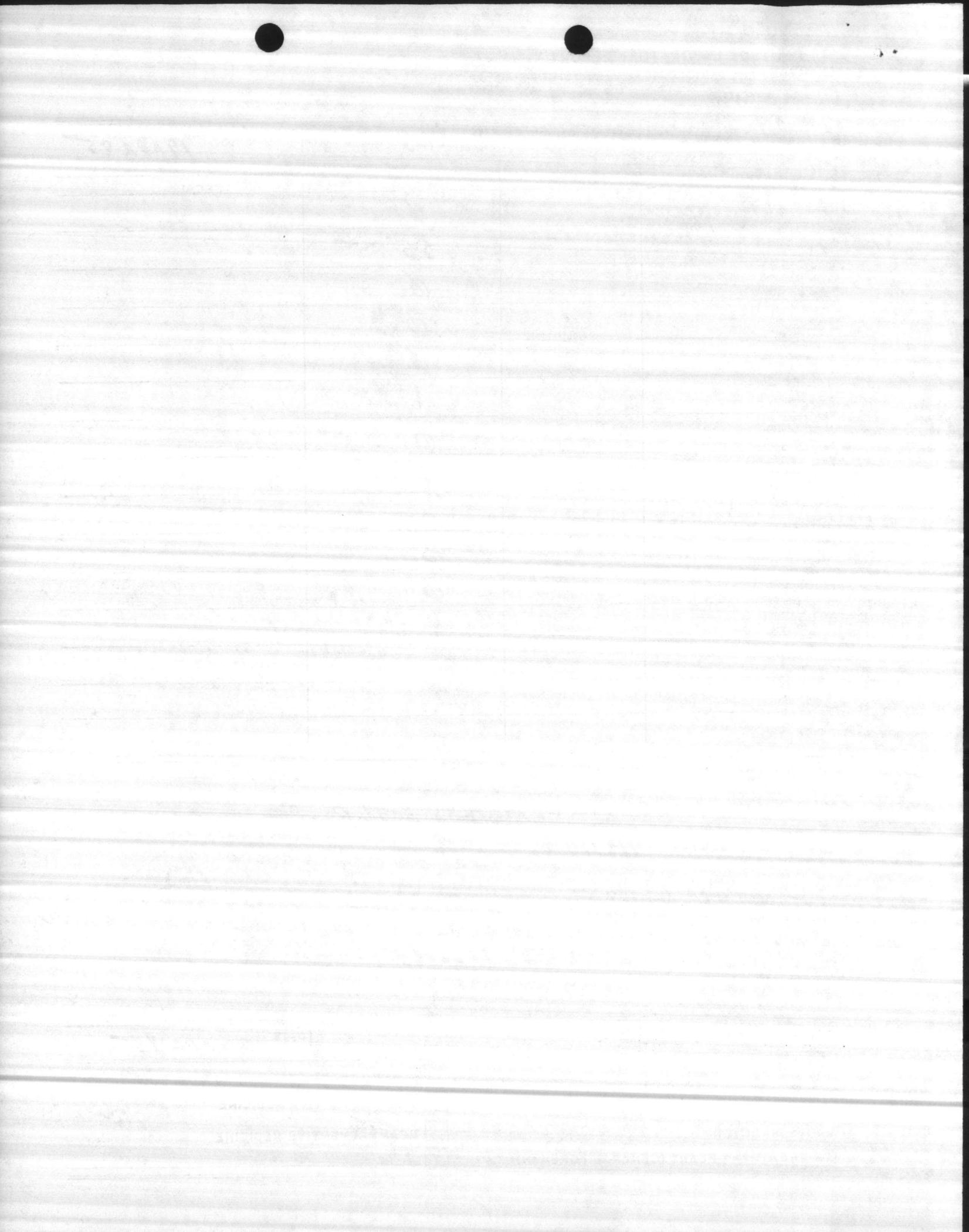
REMARKS

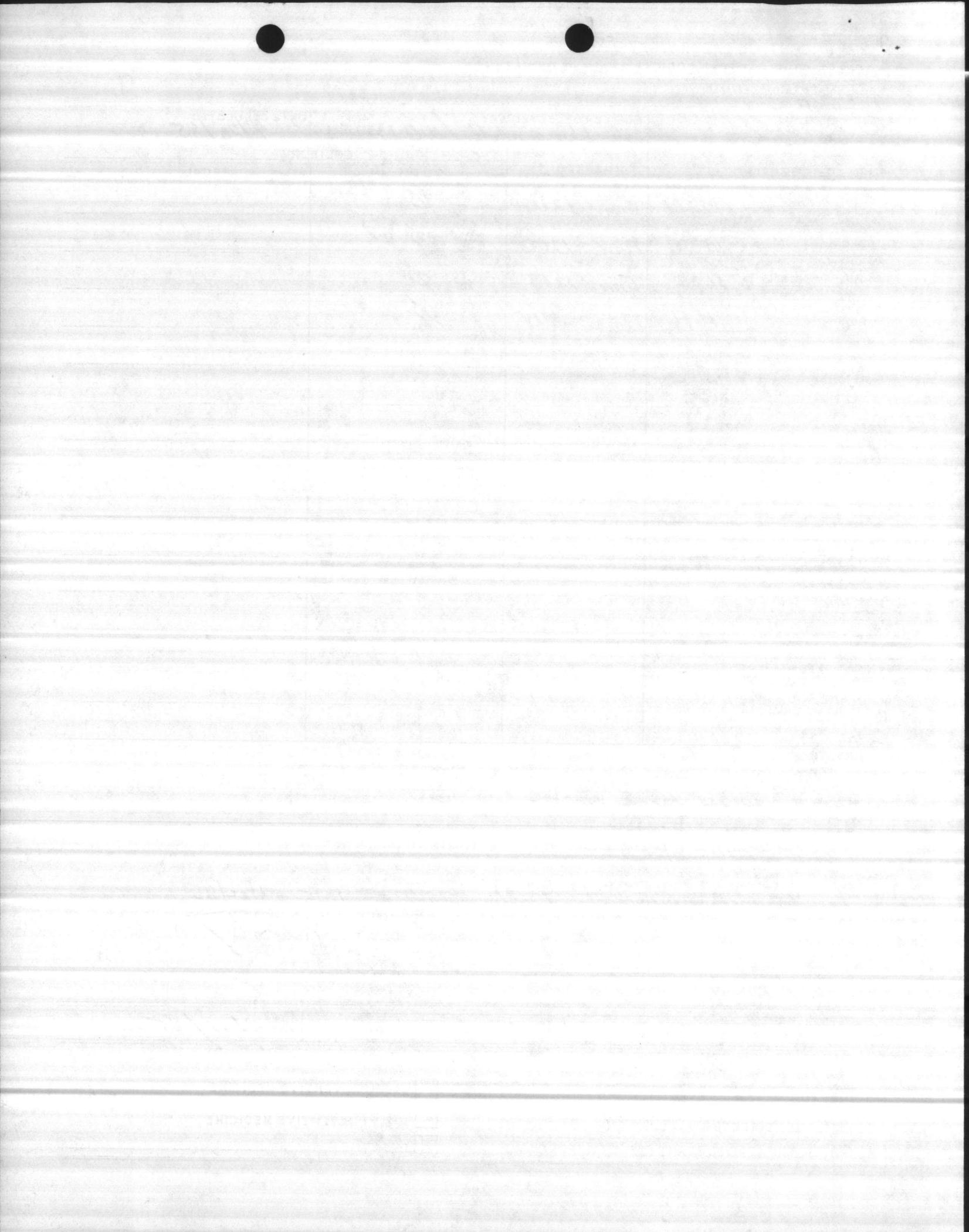
Rec'd let 11:32 a.m., 19 APR 85, THB
 ST WP 1315 4/11/85
 1532 - TNTC NON-COLIFORM - RESAMPLED 4-20-85
 1526, 1601, 1616 RESAMPLED 4-20-85

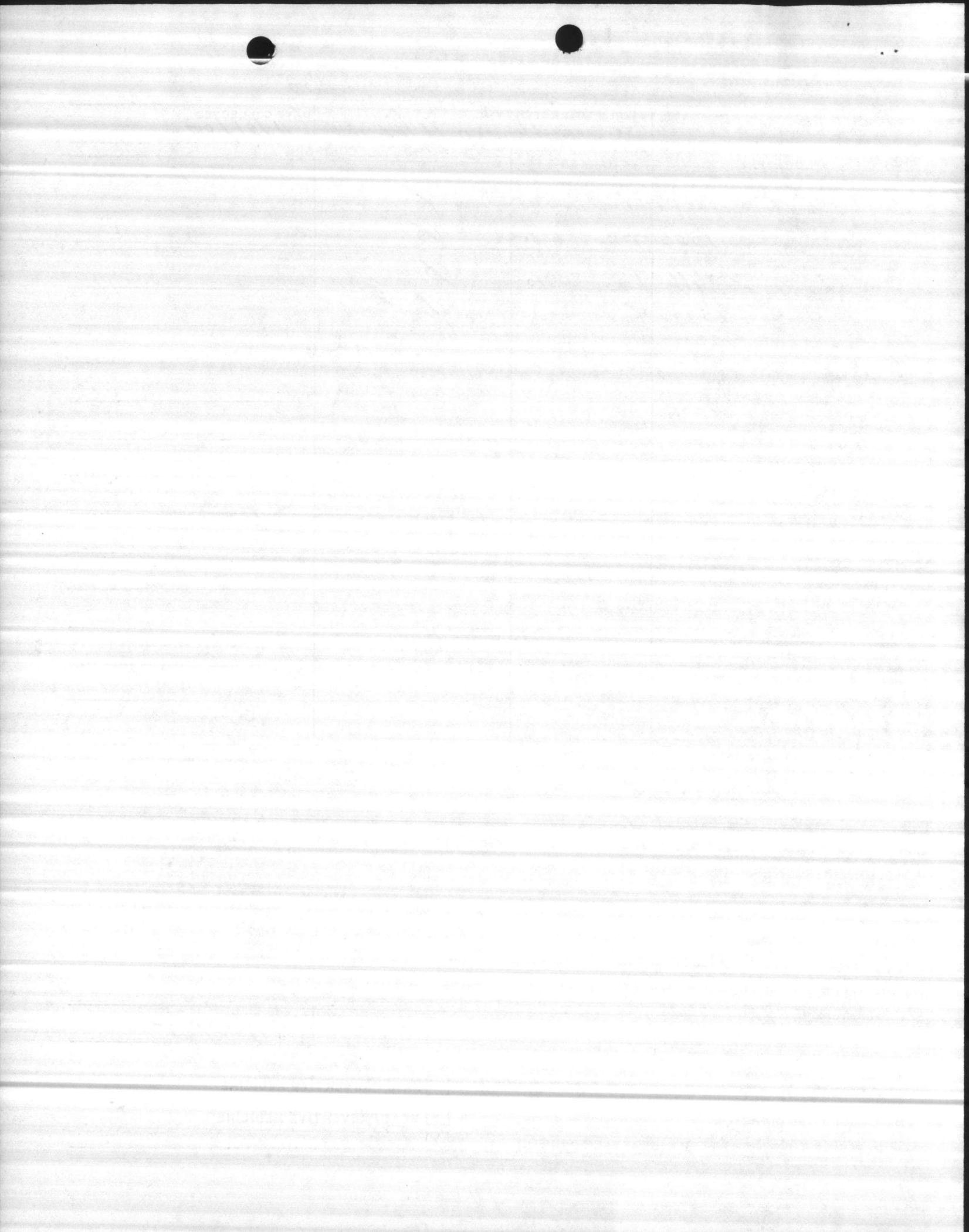
SIGNATURE Th Barber DATE 20 APR 85

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File







QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11380/8 (REV. 4/78)

FILE

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED	
Potable	Public Works	4-22-85	
LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
Midway Park	1513	24 ^①	
	1514	∅	
	1515	∅	
	1516	∅ ^⑥	
	1518	∅	
	1519	1	
	1520	∅ ^④	
	1522	∅	
	1524	∅	
	1531	∅ ^⑤	
	1533	∅	
	1534	∅ ^②	
	1536	∅	
	1537	∅	
	1538	∅	

REMARKS

1539

∅ ^③

See 1525 4-22-85 L
 ① 27 Non-Coliform Colonies
 ② TNTC Non-Coliform
 ③ TNTC Non-Coliform
 ④ Non-Coliform

⑤ TNTC Non-Coliform
 ⑥ TNTC Non-Coliform

SIGNATURE

James Hennessey

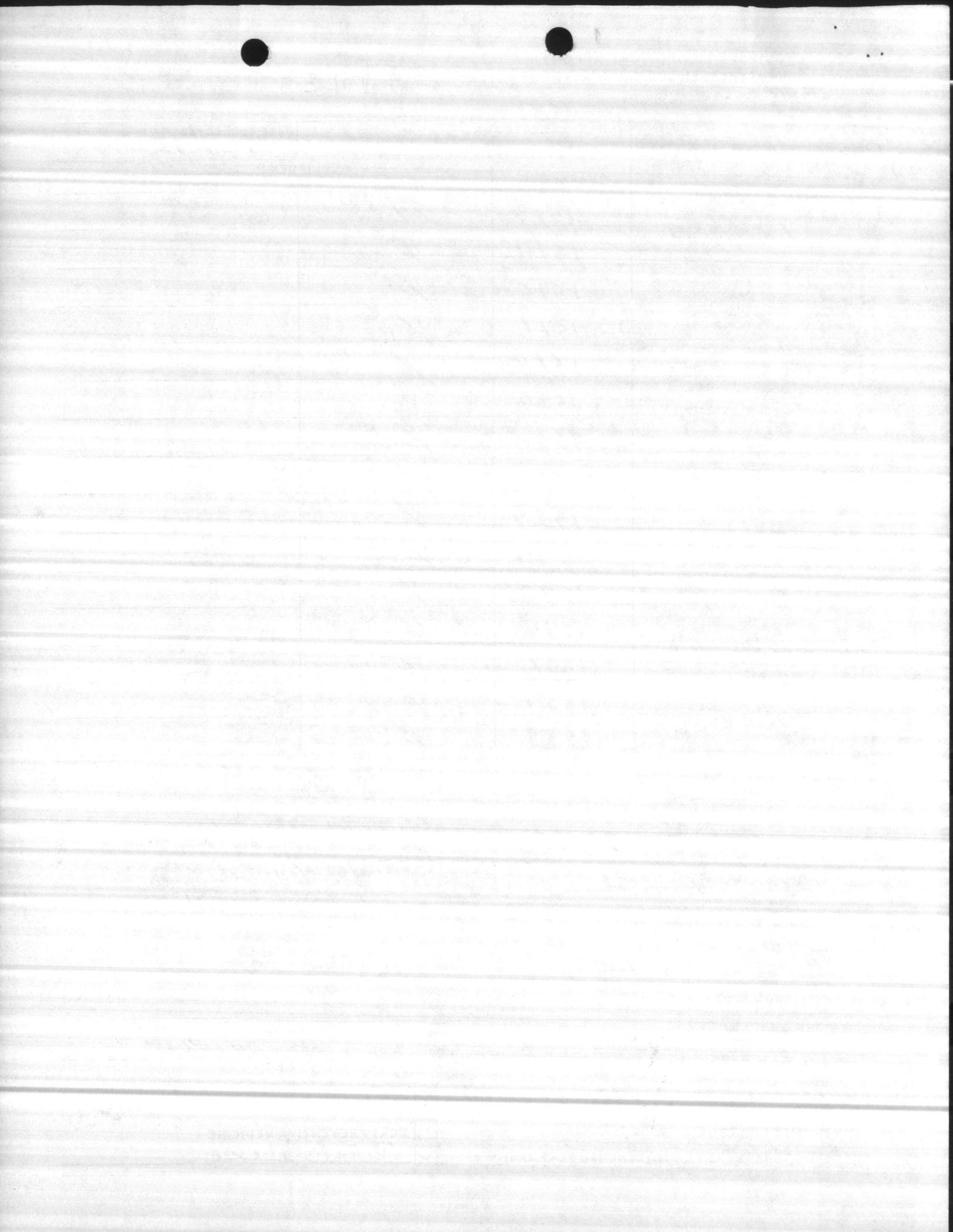
DATE

24 11/2 85

COPY TO

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

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- PUBLIC WORKS



QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11220/8 (REV. 4/78)

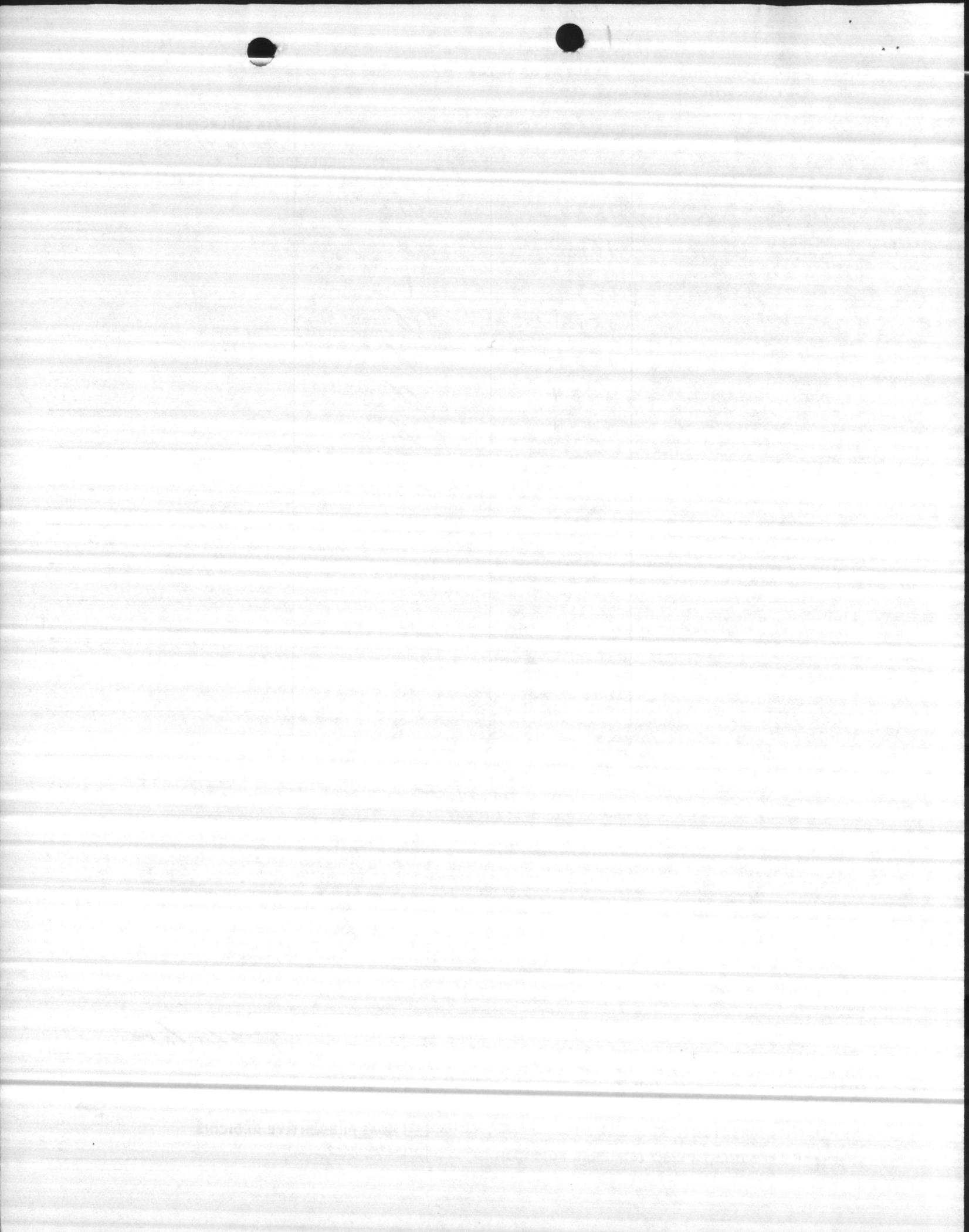
WATER TYPE T.O.A.L.C.	SAMPLE COLLECTED BY KEN HUGHES		DATE COLLECTED 4/24/85	
	LOCATION	MARKED	COLIFORM	
			TOTAL	FECAL
Midway Park	1532		∅	
22:0.6	1516		∅	
12:00 - 14:00	1533		1	
	1519		∅	
	1539		∅	
	1534		∅	
	1531		∅	
	1520		∅	

REMARKS
 Rec'd Lab 1505 4/24/85
 set up 1510 4/24/85

SIGNATURE *Kevin B. Hennings* DATE 4/25/85

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- NREAD
 - UTILITIES DIRECTOR
 - WATER TREATMENT PLANT (GENERAL FOREMAN)
 - BASE PREVENTIVE MEDICINE
 - MCAS PREVENTIVE MEDICINE
 - File

12



QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 8/78)

WATER TYPE	SAMPLE COLLECTED BY		DATE COLLECTED	
<i>Potable</i>	<i>Public Works</i>		<i>25 Apr 85</i>	
LOCATION	MARKED	COLIFORM		
		TOTAL	FECAL	
<i>Midway Park 1516</i>	<i>OC</i>	<i>φ</i>		
<i>1519</i>		<i>φ</i>		
<i>1520</i>		<i>8</i>		
<i>1532</i>		<i>φ</i>		
<i>1533</i>		<i>φ</i>		
<i>1534</i>		<i>φ</i>		
<i>1578</i>		<i>φ</i>		
<i>1620</i>		<i>φ</i>		
<i>1631</i>		<i>φ</i>		

REMARKS
Rec 1054 L
A TOTAL Non Coliform

SIGNATURE *[Signature]* DATE *4/26/85*

COPY TO

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- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File*







QUALITY CONTROL LABORATORY
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
Potable		K. Hughes		4/26/85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
H. duway Park 1513	CL Time	0			
1532	CL Time	0			
1311	CL Time	0			
1512	CL Time	0			
1310	CL Time	0			
1313	CL Time	0			
1303	CL Time	0			
1302	CL Time	0			
1304	CL 0.4 Time 1324	0			
1300	CL 0.4 Time 0902	0			
1301	CL 0.4 Time 0906	0			
1307		0			
1312		0			
1306		1			
1531		0			

REMARKS

set up 4/27/85
TNTC Non-Coliforms

SIGNATURE

James Spence

DATE

4/29/85

COPY TO

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

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File*















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CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 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 Cl	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

COPY TO:

UTIL DIR _____

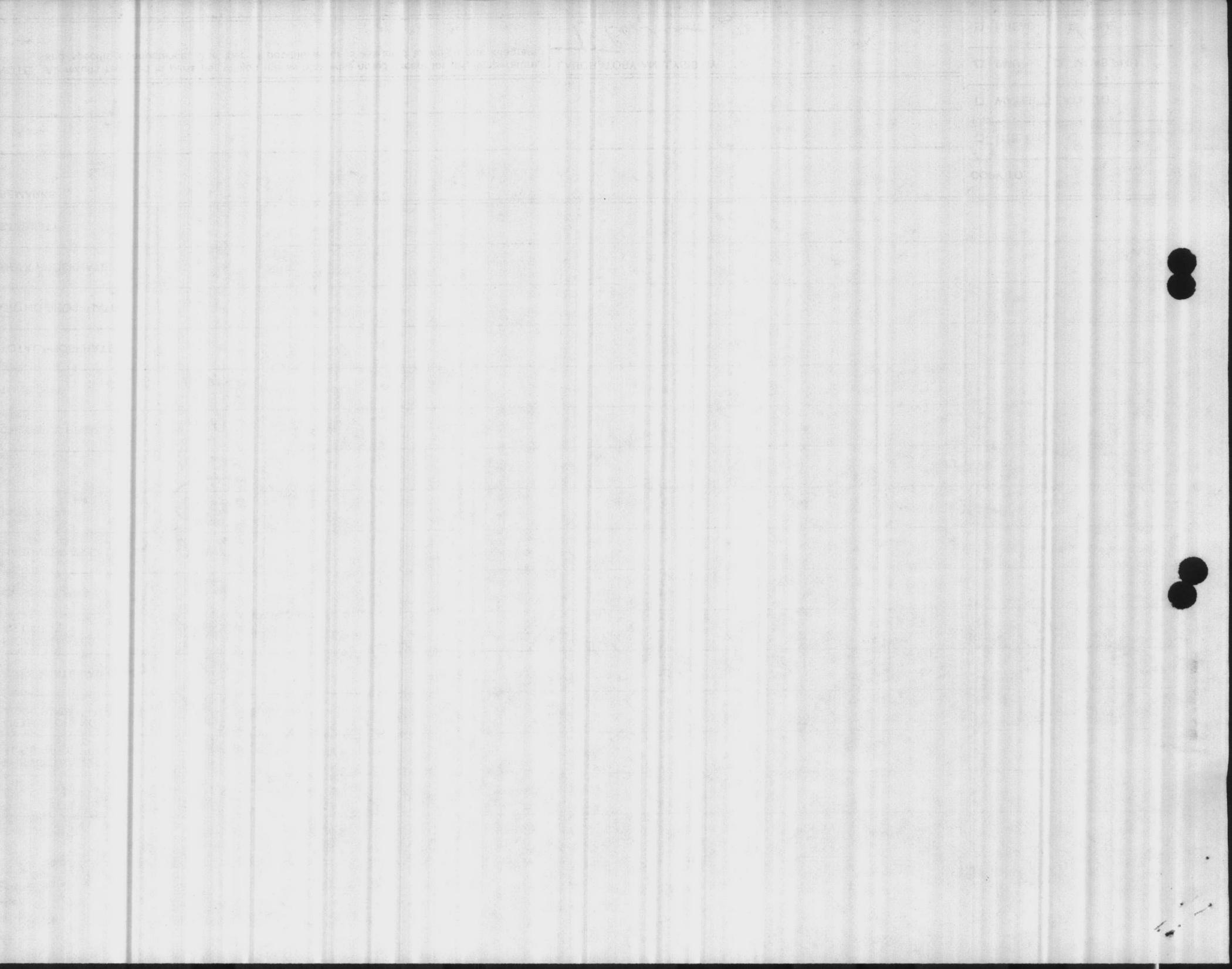
WATER TREATMENT

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 Barber









QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11330/8 (REV. 4/78)

File

WATER TYPE	SAMPLE COLLECTED BY		DATE COLLECTED	
	WATER PLANT		17 APRIL 85	
LOCATION	MARKED	COLIFORM		FECAL
		TOTAL		
FILTER #2		0		
BLOG. 20				

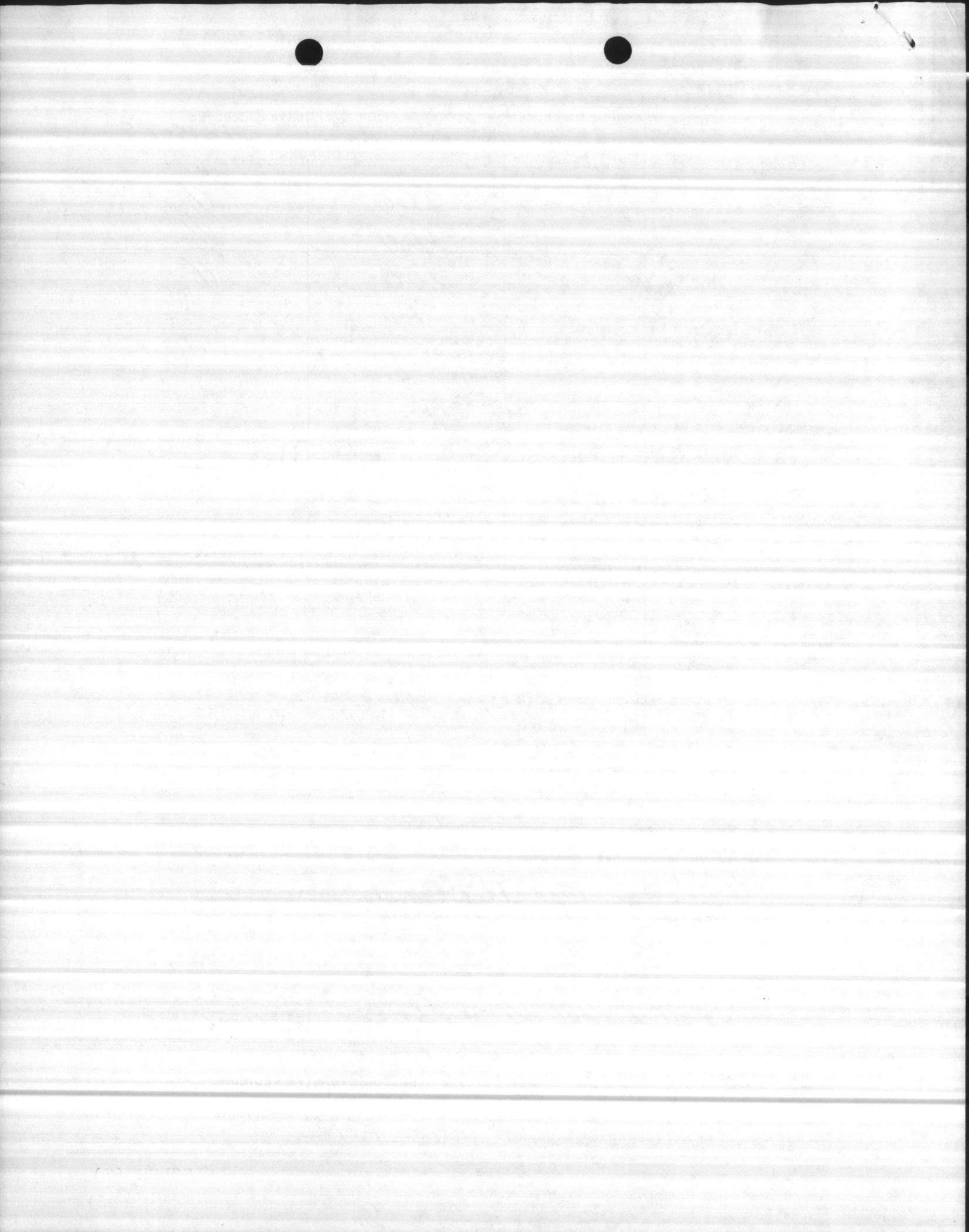
REMARKS

SIGNATURE *K. J. Burns* DATE 18 APRIL 85

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 - BASE PREVENTIVE MEDICINE
 - MCAS PREVENTIVE MEDICINE
 - _____







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

DATE COLLECTED

15/11/85

DATE OF ANALYSIS

15/11/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	TUZ Gander
PH									4.6
PHENOLTHALEIN ALKALINITY									0
METHYL ORANGE ALKALINITY									0
CARBONATES AS CaCO ₃									0
NON-CARBONATES AS CaCO ₃									0
CHLORIDES AS Cl									14
HARDNESS AS CaCO ₃									12
IRON AS Fe									0.43
FLUORIDE									0.05
CHLORINE RESIDUAL									not reported
TURBIDITY									1.2
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

COPY TO:

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- 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

James Spinguel

