

SUBJ: RIVER WATER... 1980

SUBJ:

1 OIL + GREASE ON THE NEW RIVER

1. THE YEARLY AVERAGES OF OIL + GREASE AT THE NINE POINTS ON THE NEW RIVER ARE AS FOLLOWS:

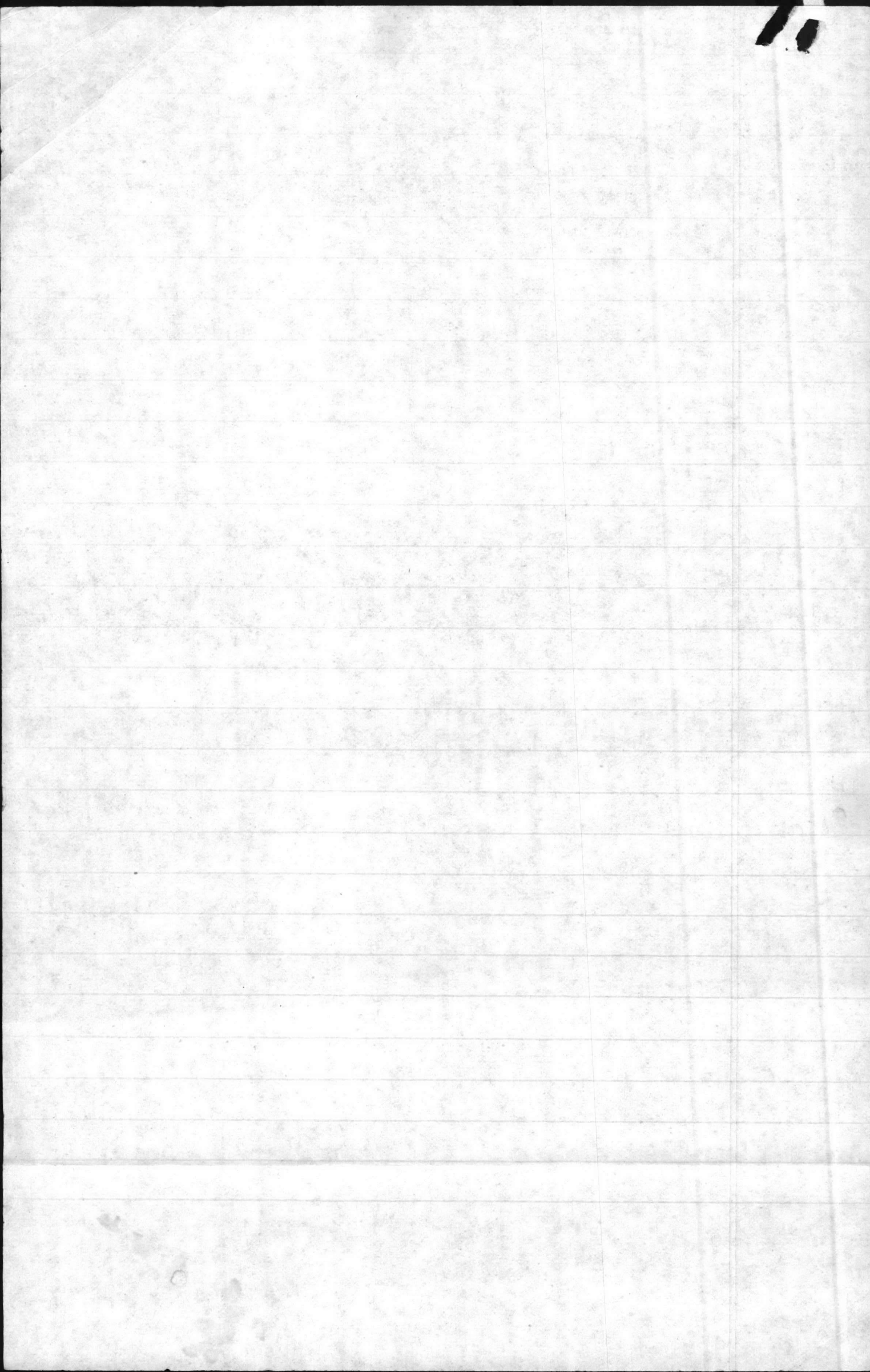
SAMPLE POINT	LOCATION	LOWEST/MONTHS	HIGHEST/MONTH	AVERAGE
RW 01	ABOVE CG OUTFALL	0/JAN, JUN, AUG, SEP	1.7/MAY	0.43 mg/l
RW 02		0/JAN-APR, JUN, OCT	1.8/MAY	0.33 mg/l
RW 03		0/JAN, MAR, APR, JUN, JUL SEP	1.0/MAY	0.28 mg/l
RW 04		0/JAN, MAR, APR, JUN, SEP	0.8/MAY	0.275 mg/l
RW 05		0/MAR, APR, JUN-SEP	1.5/FEB	0.35 mg/l
RW 06		0/JAN, MAR, JUN, AUG, SEP	1.0/MAY	0.30 mg/l
RW 07		0/JAN, MAR, JUN, JUL, SEP	1.2/MAY	0.30 mg/l
RW 08		0/MAR, JUN-SEP, DEC	1.5/MAY	0.33 mg/l
RW 09		0/JAN, MAR, APR, JUN, SEP, OCT	0.5/MAY	0.19 mg/l

IT LOOKS LIKE SOMETHING WAS WRONG IN MAY. MAY'S SAMPLE WAS COLLECTED ON THE 5TH

2. THE MONTHLY AVERAGES OF OIL + GREASE FOR THE RIVER IN 1980 ARE

AS FOLLOWS:

	AVERAGES	HIGHEST/POINT		AVE	HIGH/PT
21 JAN	0.1 mg/l	0.8 / RW 08	20 OCT	0.34 mg/l	1.3/RW 01
25 FEB	0.54 mg/l	1.5 / RW 05	3 NOV	0.53 mg/l	0.8/RW 06
24-27 MAR	0.19 mg/l	0.8 / RW 07	1 DEC	0.44 mg/l	1.1/RW 02
21 APR	0.24 mg/l	0.8 / RW 07			
5 MAY	1.21 mg/l	1.8/RW 02			
16 JUN	0 mg/l				
21 JUL	0.13 mg/l	0.4 / RW 02			
18 AUG	0.14 mg/l	0.5 / RW 04			
8 SEP	0.011 mg/l	0.1 / RW 02			

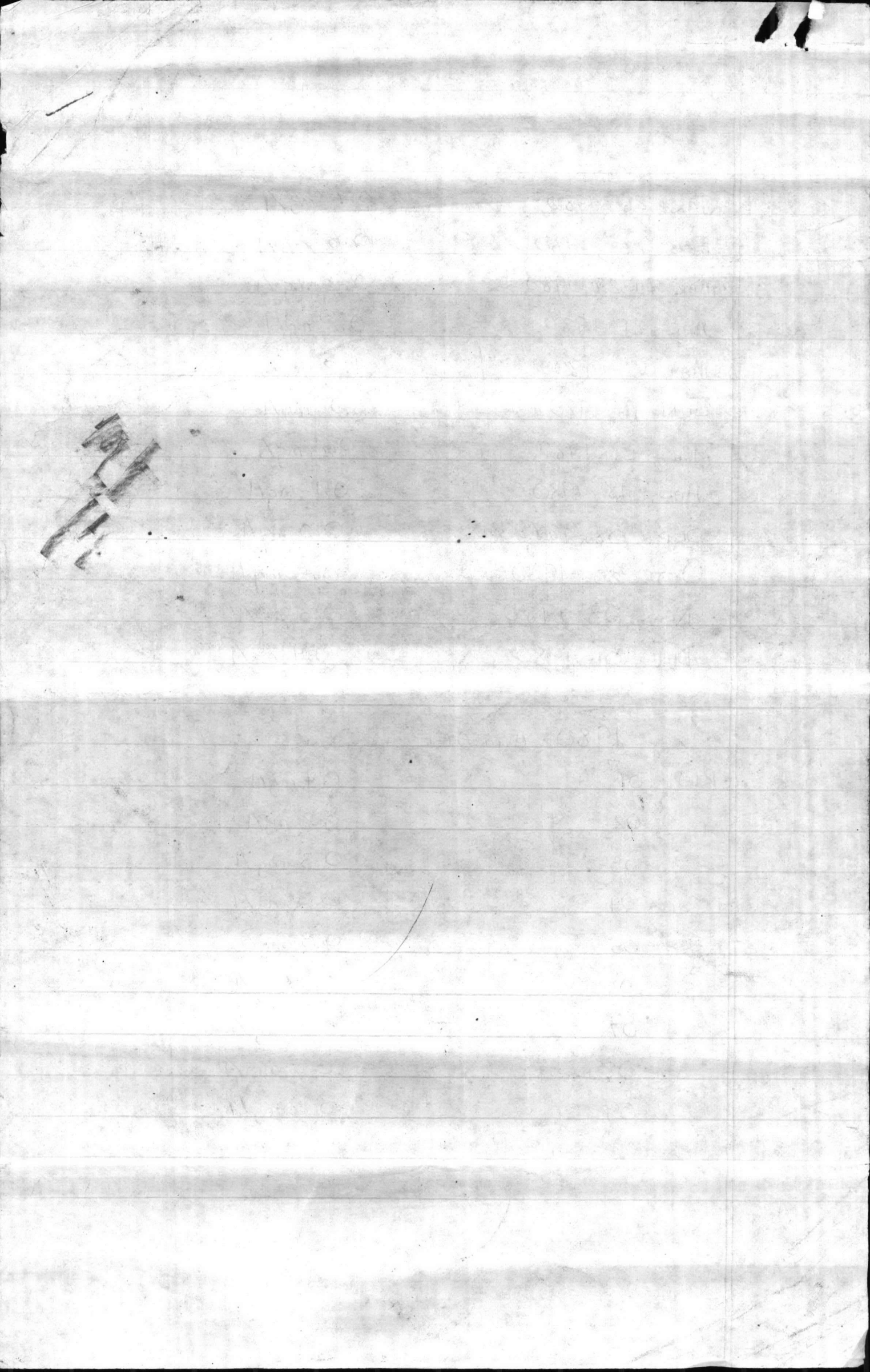


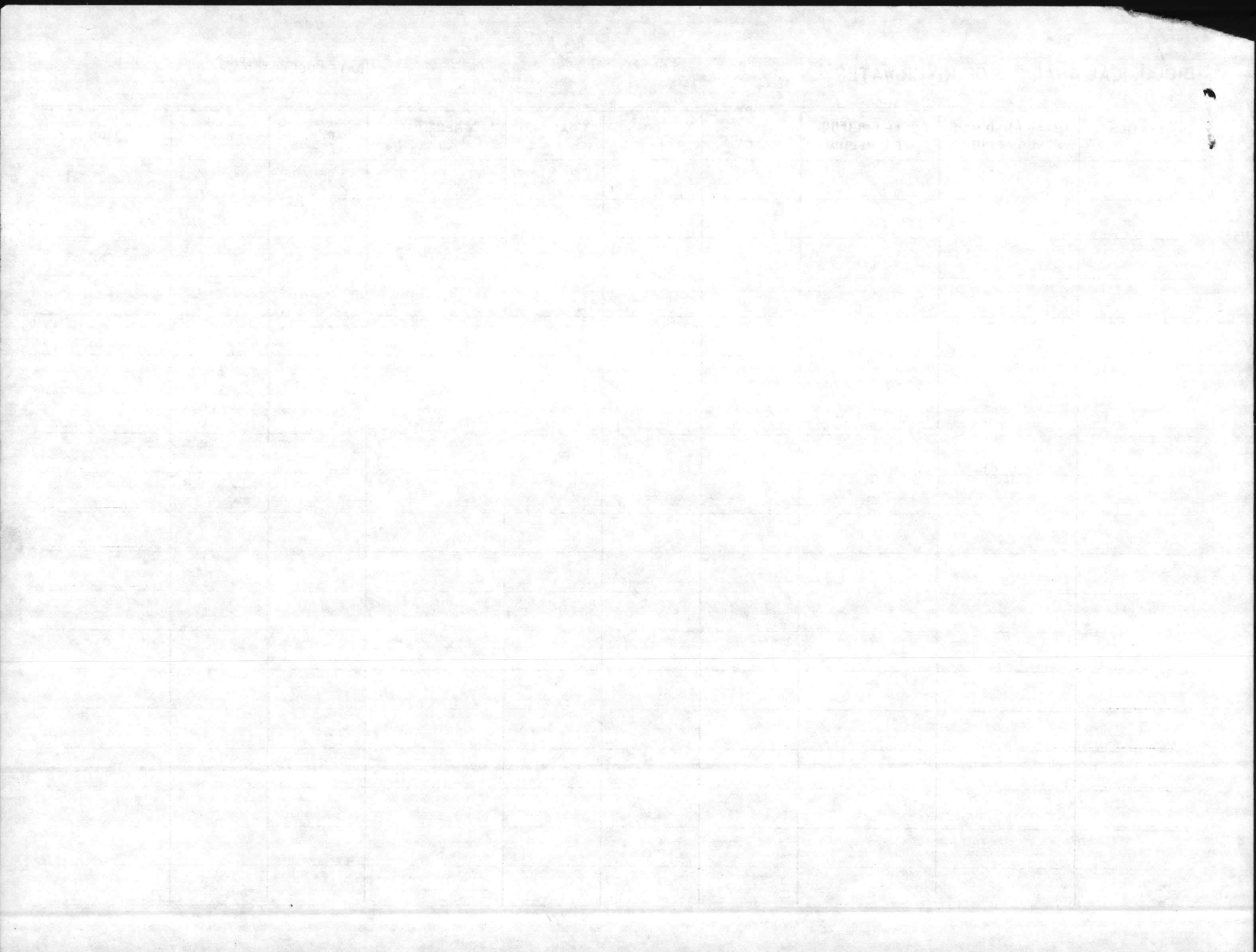
RIVER AVERAGE

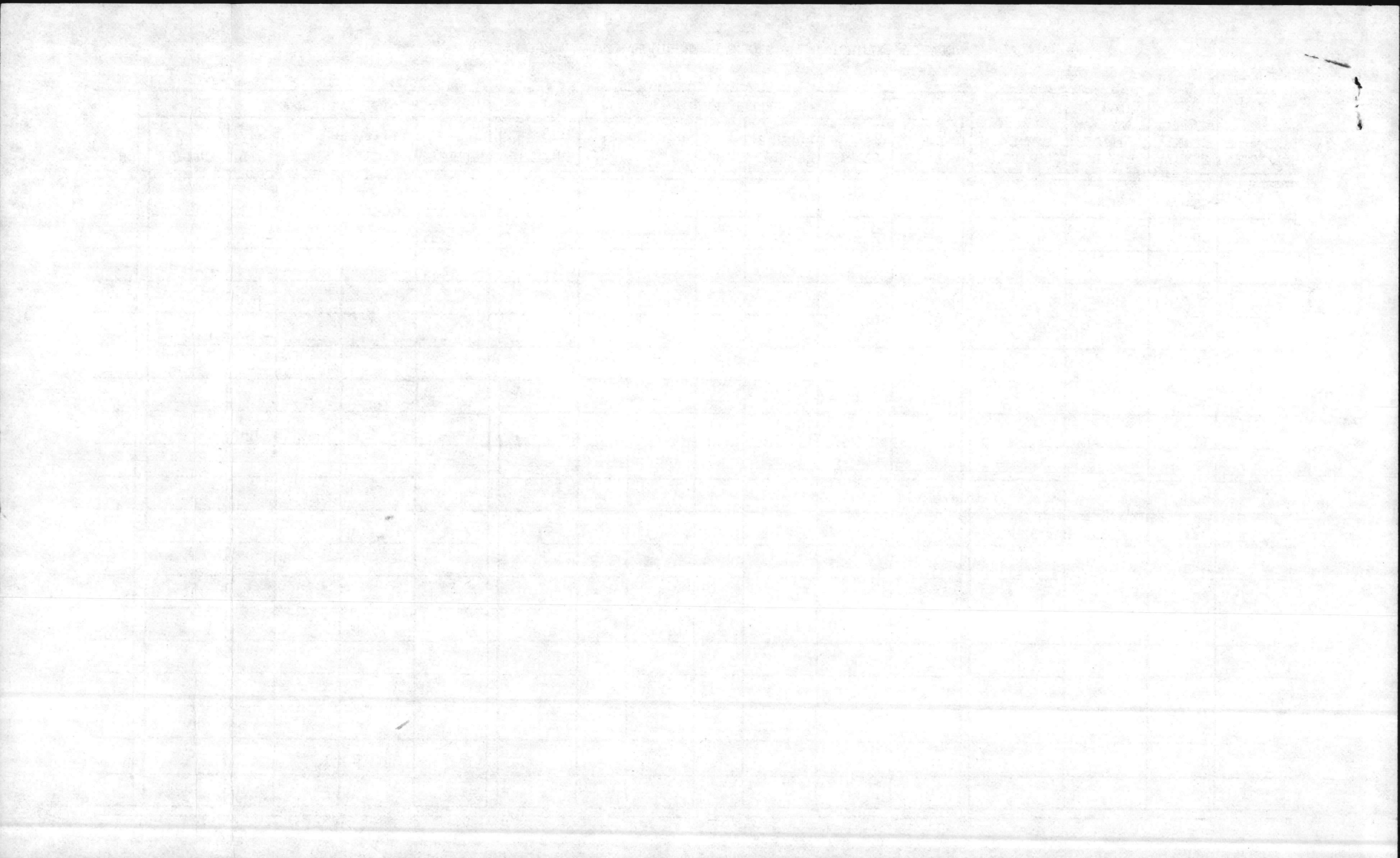
JAN 21, 1980	0.1 mg/l
FEB 25, 1980	0.5 mg/l
MAR 24-27, 1980	0.2 mg/l
APR 21, 1980	0.2 mg/l
MAY 05, 1980	1.2 mg/l
JUN 16, 1980	0.0 mg/l
JUL 21, 1980	0.1 mg/l
AUG 18, 1980	0.1 mg/l
SEP 08, 1980	0.0 mg/l
OCT 20, 1980	0.3 mg/l
NOV 03, 1980	0.5 mg/l
DEC 01, 1980	0.4 mg/l

1980 AVERAGE

		WITHOUT MAY
RW 01	0.4 mg/l	0.3 mg/l
02	0.3 mg/l	0.2 mg/l
03	0.3 mg/l	0.2 mg/l
04	0.3 mg/l	0.2 mg/l
05	0.35 mg/l	0.25 mg/l
06	0.3 mg/l	0.2 mg/l
07	0.3 mg/l	0.2 mg/l
08	0.3 mg/l	0.2 mg/l
09	^{0.19} 0.2 mg/l	0.16 mg/l







1913

1913

1913

1913

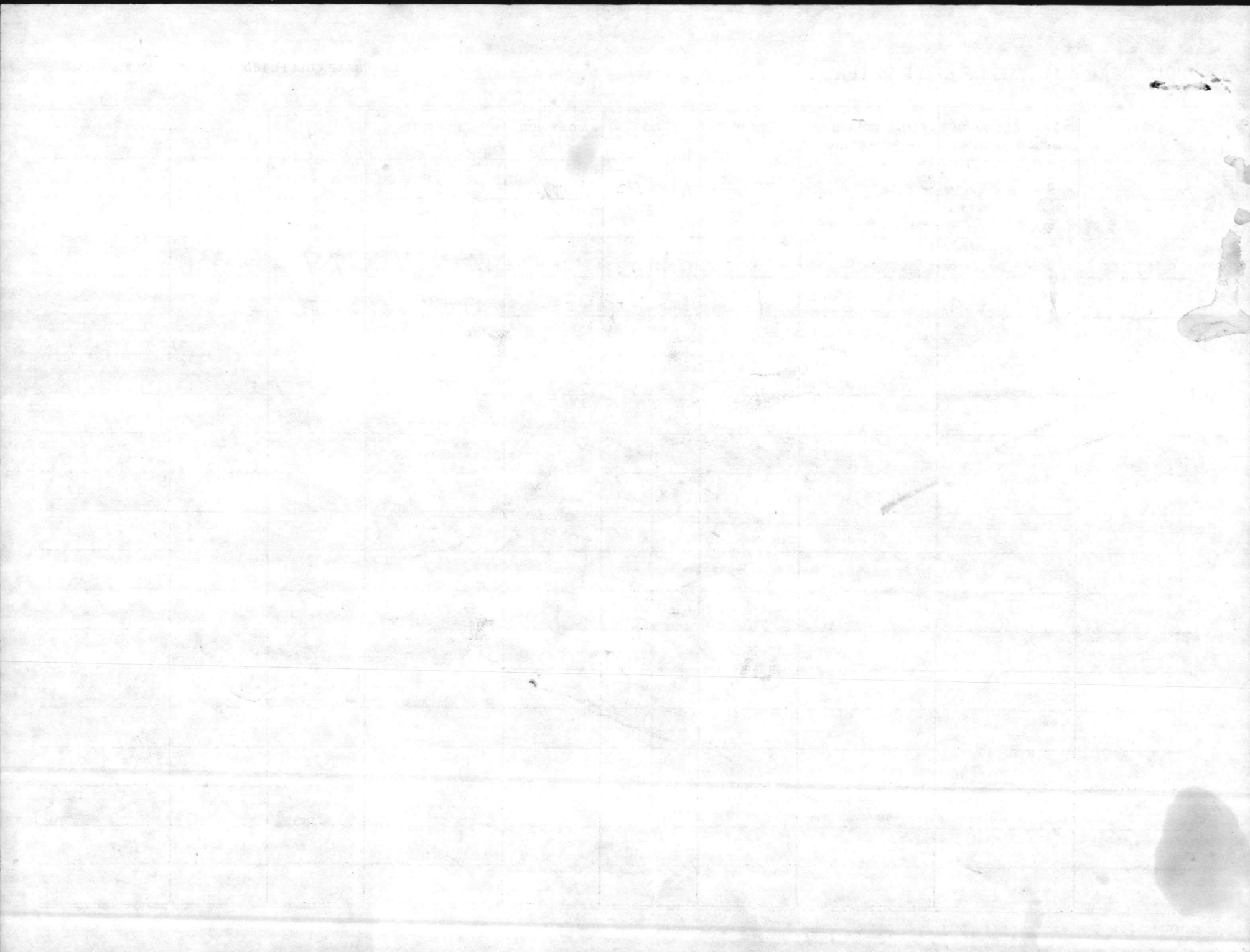
1913

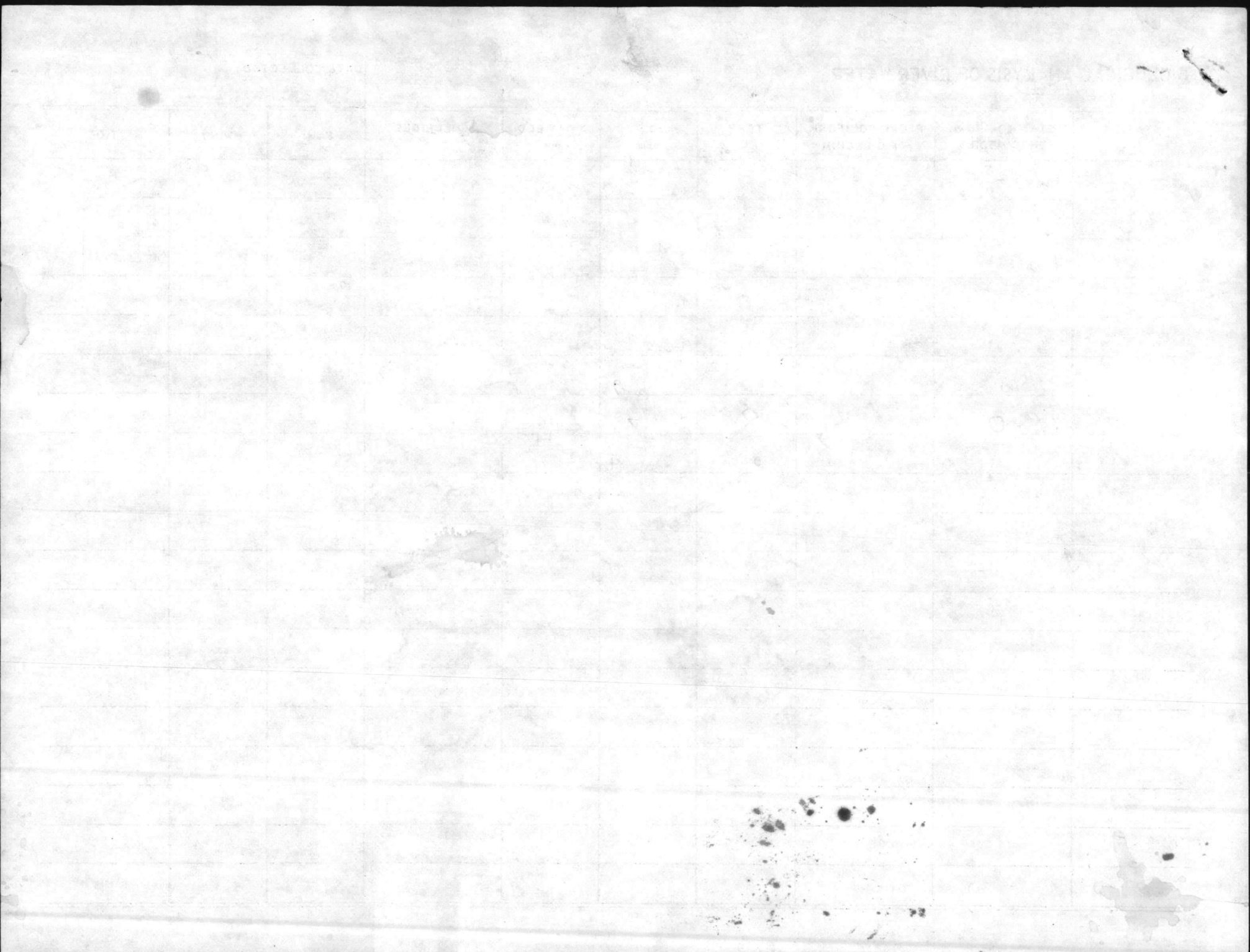
25 Feb 80

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH	
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST		
	SD- 1		Paulus + Luke									2	2142	⁶¹ 2136	.6	0.6	
	SD- 2											3	4652	⁶¹ 4656	.4	0.10	
	SD- 3											5	6682	⁶⁰ 6579	.3	0.3	
	SD- 4											6	4834	⁶¹ 4829	.5	0.5	
	SD- 5											7	0659	⁶¹ 0644	1.5	1.5	
	SD- 6											8	7226	⁶⁰ 7222	.4	.4	
	SD- 7											10	1446	⁷⁴ 1442	.4	.4	
	SD- 8											11	4746	⁶¹ 4742	.4	.4	
	SD- 9											12	1126	⁶¹ 1118	.3	.3	
	SD- B											13	8521	⁷³ 8521	0.0	0.0	
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																

B/





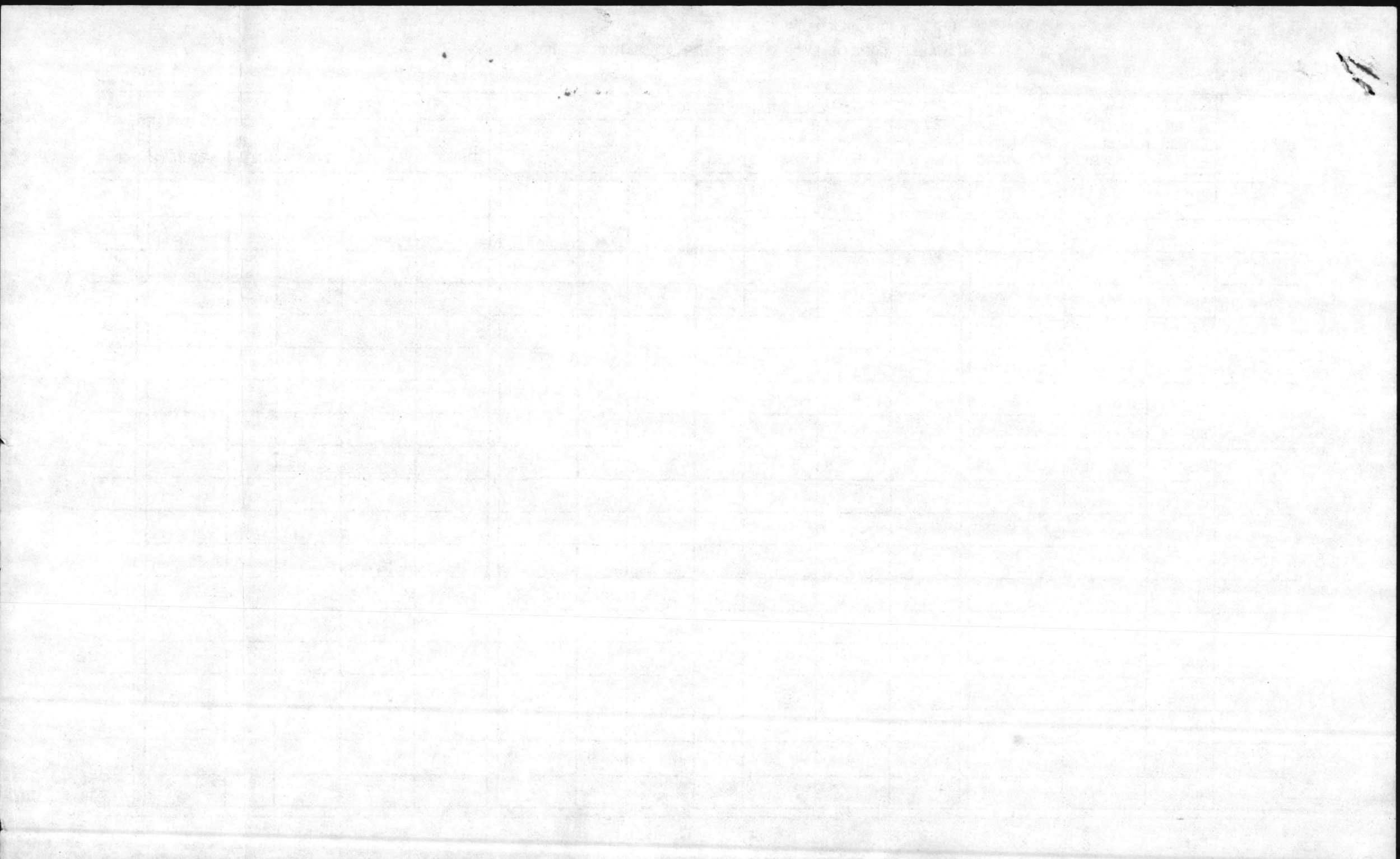
QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

BATH 72°
Oven 80°

MCBCL 11345/7

DATE COLLECTED	RW STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH	
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST		
	SD- 1		BURNS + LUKE									1	2781	⁶⁷ 2753	2.8	0.7	
	SD- 2											2	2156	⁶¹ 2145	1.1	0.0	
	SD- 3											3	4665	⁶¹ 4655	1.0	0.0	
	SD- 4											4	5602	⁶⁷ 5597	0.5	0.0	
	SD- 5											5	6591	⁶⁰ 6586	0.5	0.0	
	SD- 6											6	4869	⁶¹ 4841	2.8	0.1	
	SD- 7											7	0673	⁶¹ 0644	2.9	0.8	
	SD- 8											8	7246	⁶⁰ 7219	2.7	0.6	
	SD- 9											9	7176	⁶⁷ 7167	0.9	0.0	
	SD- BL											10	1473	⁷⁴ 1494	(-2.1)		
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																

NEW RIVER



BIOLOGICAL ANALYSIS OF RIVER WATER

MCBCL 11330/6

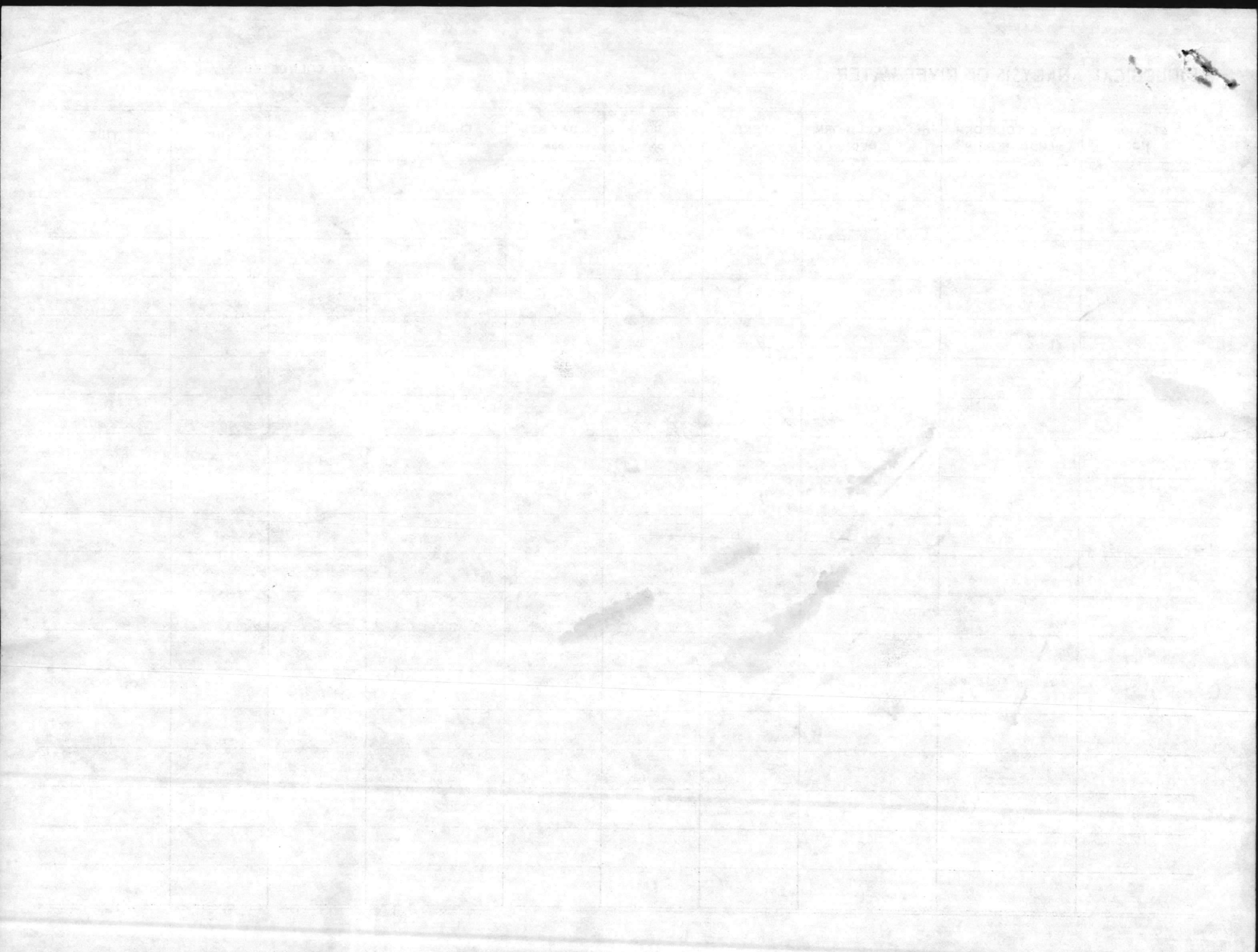
Time

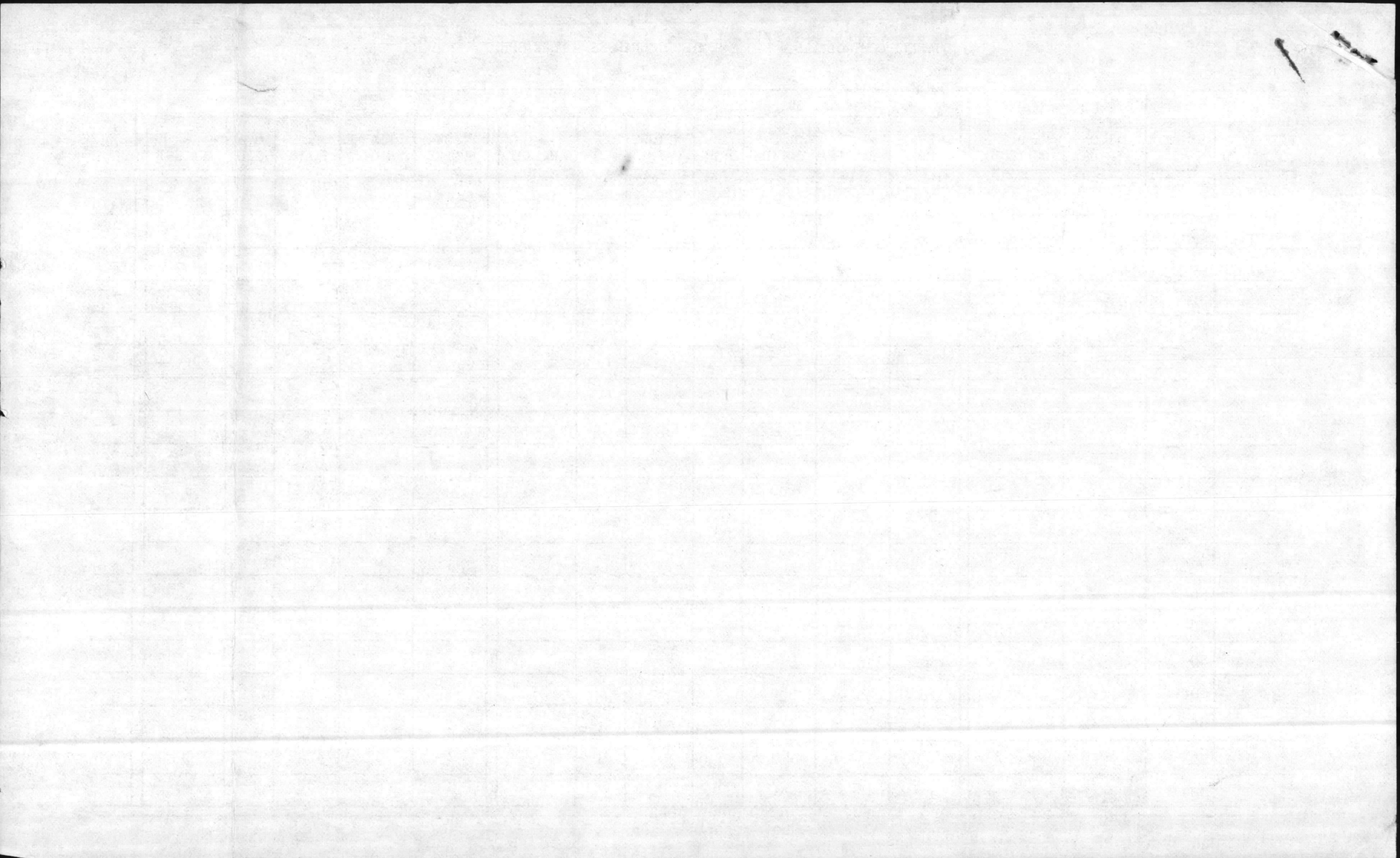
DATE COLLECTED

5 MAY 80

STATION NO.	TOTAL COLIFORM mENDO MEDIUM	FECAL COLIFORM m F C MEDIUM	TEMP C	DO ppm	5 DAY BOD ppm	CHLORIDES ppm	P. H.	WIND	TIDE
Rw-01	0915 (17) (25)	0	21°	9.4	5.7	3.7	1.7	8.7	
02	0930 (17) (25)	8	22°	7.0	3.9	3.1	1.8	8.0	
03	0935 (17) (25)	0	22°	6.8	3.8	4.0	1.0	7.9	
04	0943 (100)	0	21°	7.3	5.4	1.9	0.8	7.9	
05	1000 (100)	0	21°	7.7	5.3	2.4	1.4	8.0	
06	1015 (100)	0	21°	6.5	5.5	1.0	1.0	8.0	
07	1020 (100)	0	20°	6.4	6.5	0.0	1.2	8.0	
08	1040 (100)	0	20°	6.6	6.9	0.0	1.5	8.1	
09	1030 (100)	0	20°	6.5	5.7	0.8	0.5	8.1	

B





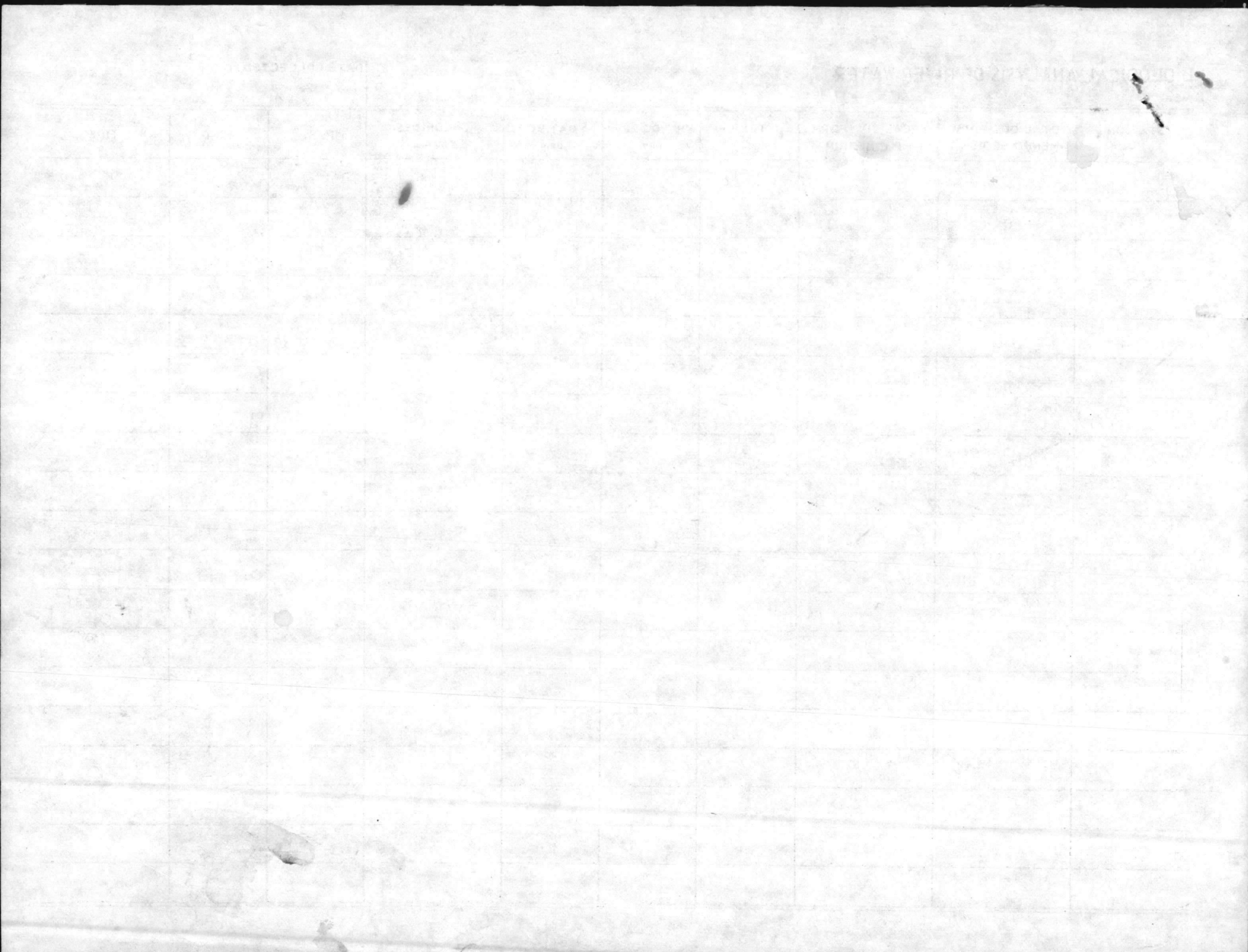
BIOLOGICAL ANALYSIS OF RIVER WATER

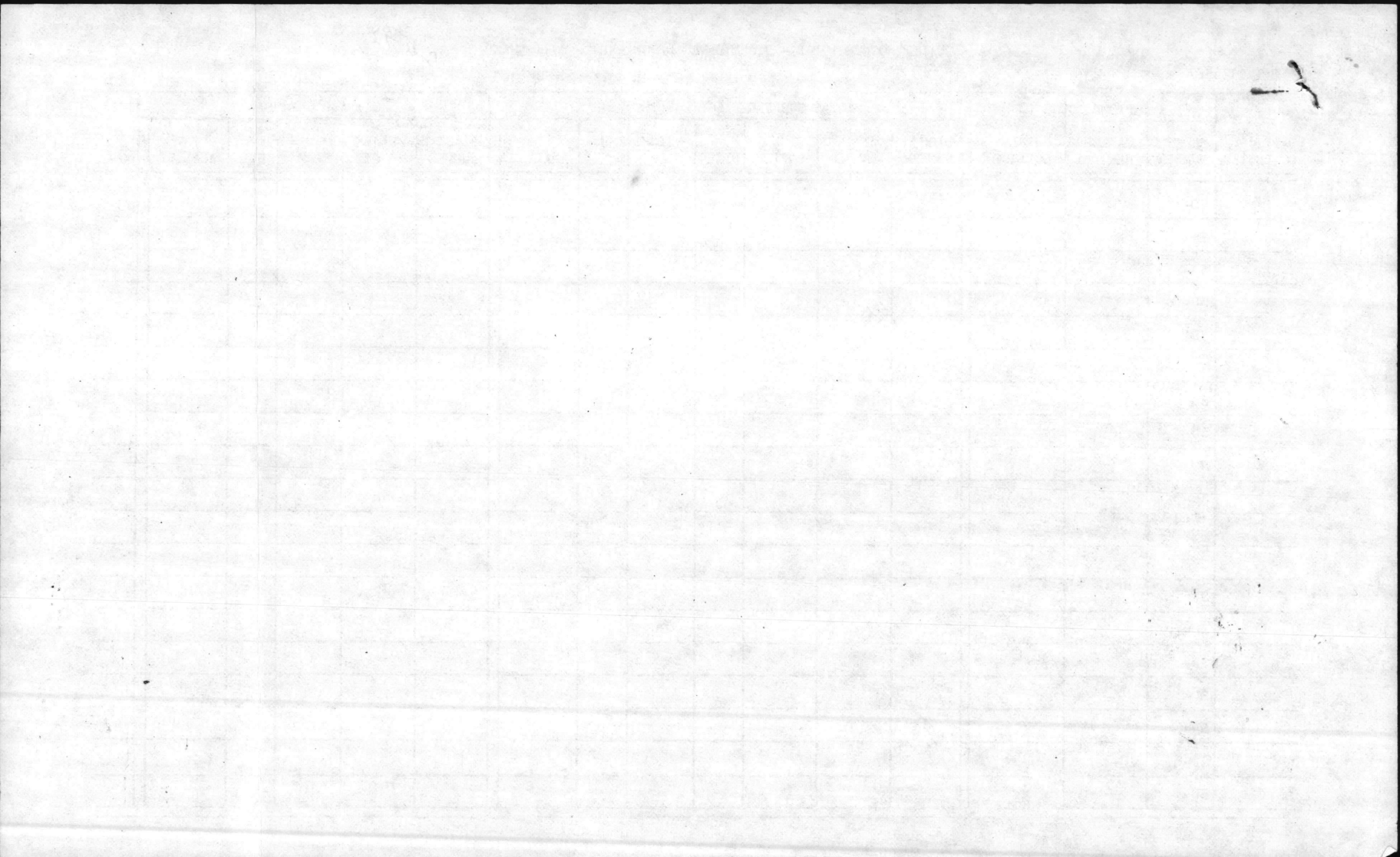
DATE COLLECTED

16 June 80

MCBCL 11330/6

STATION NO.	TOTAL COLIFORM m ENDO MEDIUM	FECAL COLIFORM m F C MEDIUM	TEMP C	DO ppm	5 DAY BOD ppm		CHLORIDES ppm	P. H.	WIND	TIDE
Raw-01		(1) 0 (25) 12	28 ^o	8.1	3.0	5.1	0.0	8.7		
02		(1) 0 25 0	28 ^o	6.2	2.4	3.8	0.0	8.2		
03	1030	(1) 0 (25) 0	27 ^o	6.6	4.0	2.6	0.0	8.2		
04	1040	(100) 0	27 ^o	6.9	4.8	2.1	0.0	8.3		
05	1055	(100) 0	27 ^o	5.8	4.7	1.1	0.0	8.2		
06	1110	(100) 0	27 ^o	5.7	5.6	0.1	0.0	8.0		
07	1125	(100) 0	26 ^o	6.3	6.4	0.0	0.0	8.1		
08	1140	(100) 0	26 ^o	6.3	6.6	0.0	0.0	8.0		
09	1130	(100) 0	26 ^o	6.4	6.2	0.2	0.0	8.1		
		Pos +	+							
		NEG PRE POST	-							





BIOLOGICAL ANALYSIS OF RIVER WATER

MCBCL 11330/6

DATE COLLECTED

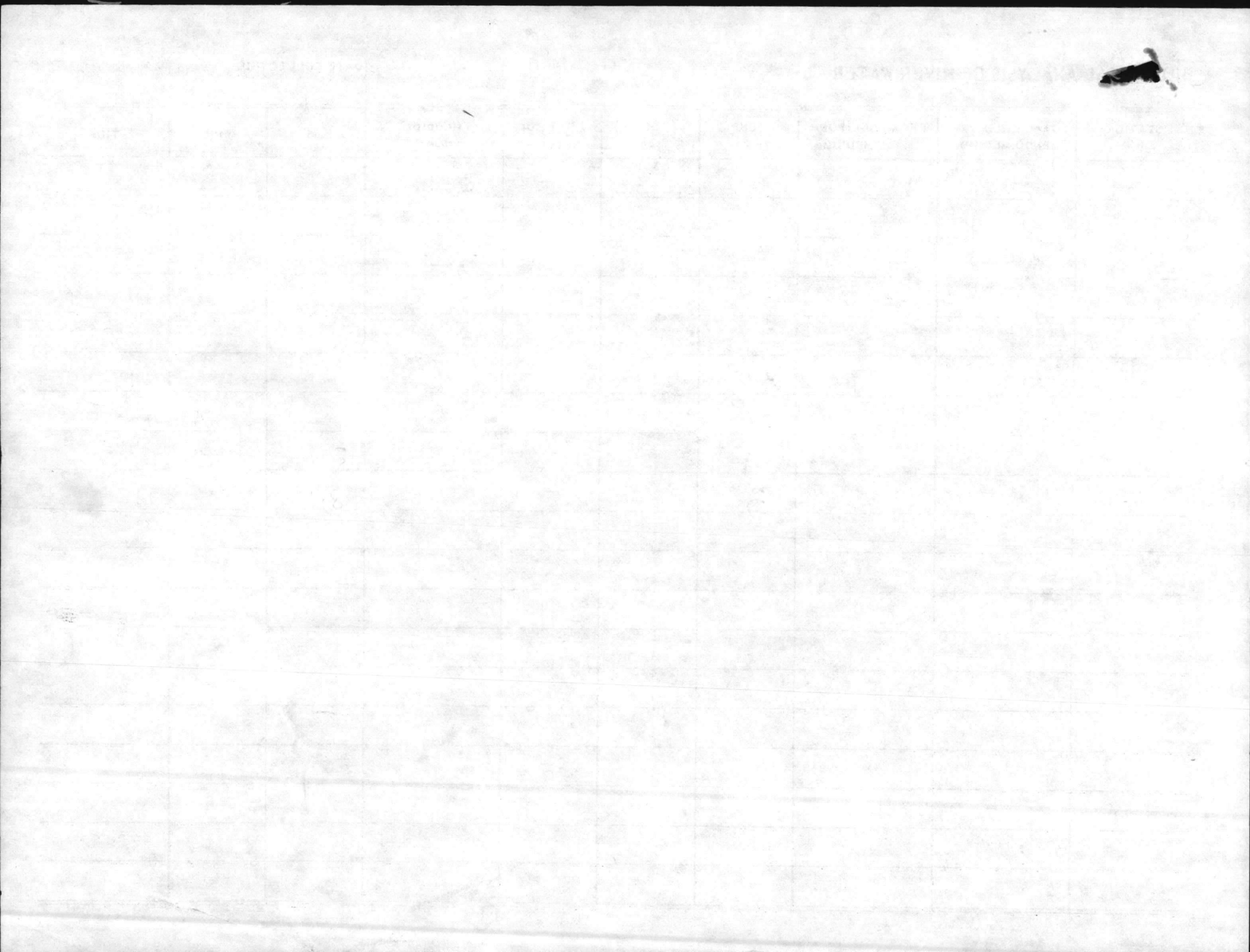
21 July 80

STATION NO.	TOTAL COLIFORM m ENDO MEDIUM	FECAL COLIFORM m F C MEDIUM	TEMP C	DO ppm	5 DAY BOD ppm	CHLORIDES ppm	P. H.	WIND	TIME
Rw-01	(1) 0 (50) 32	(1) 0 (50) 50	31°	3.8	0.5	3.3	0.1	7.5	"Slack" 0945
02	(1) 0 (50) 8	(1) 0 (50) 0	32°	4.8	1.0	3.8	0.4	7.9	"Tide" 1000
03	(1) 0 (50) 0	(1) 0 (50) 0	32°	5.9	2.0	3.9	0.0	7.6	1010
04	overgrown (100) 0	(100) 0	31°	6.1	1.7	4.4	0.3	8.3	1020
05	overgrown (100) 0	(100) 0	31°	6.0	2.5	3.5	0.0	8.3	1055
06	overgrown (100) 0	(100) 0	31°	5.7	3.0	2.7	0.3	8.3	1105
07	overgrown (100) 0	(100) 0	31°	5.3	3.7	1.6	0.0	8.2	1125
08	overgrown (100) 0	(100) 2	31°	5.5	4.7	0.8	0.0	8.1	1140
09	overgrown (100) 0	(100) 1	30	4.4	4.0	0.4	0.1	8.1	1130
Pos +									
NEG -									

0.16

B

3



11

BIOLOGICAL ANALYSIS OF RIVER WATER

MCBCL 11330/6

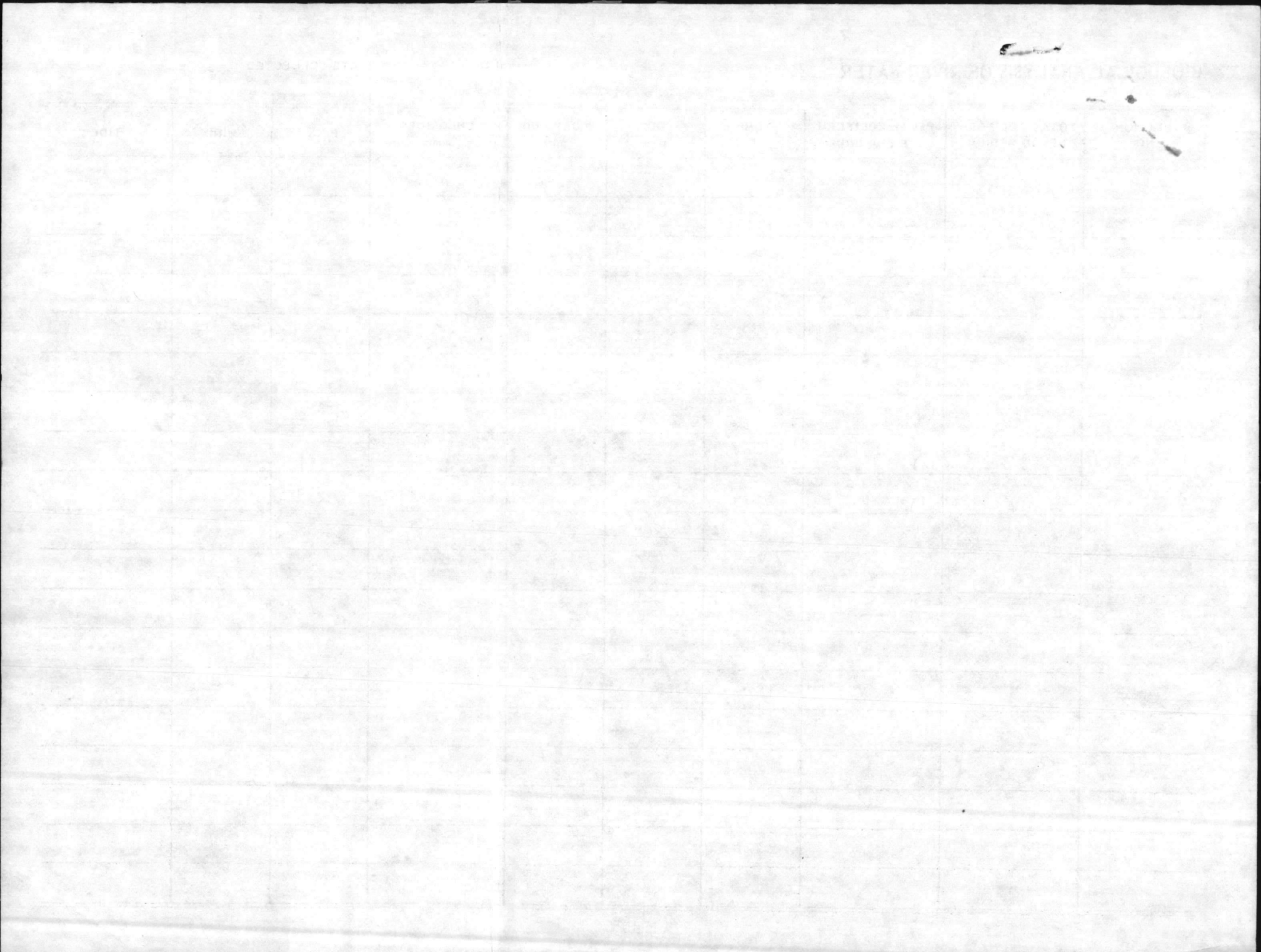
046

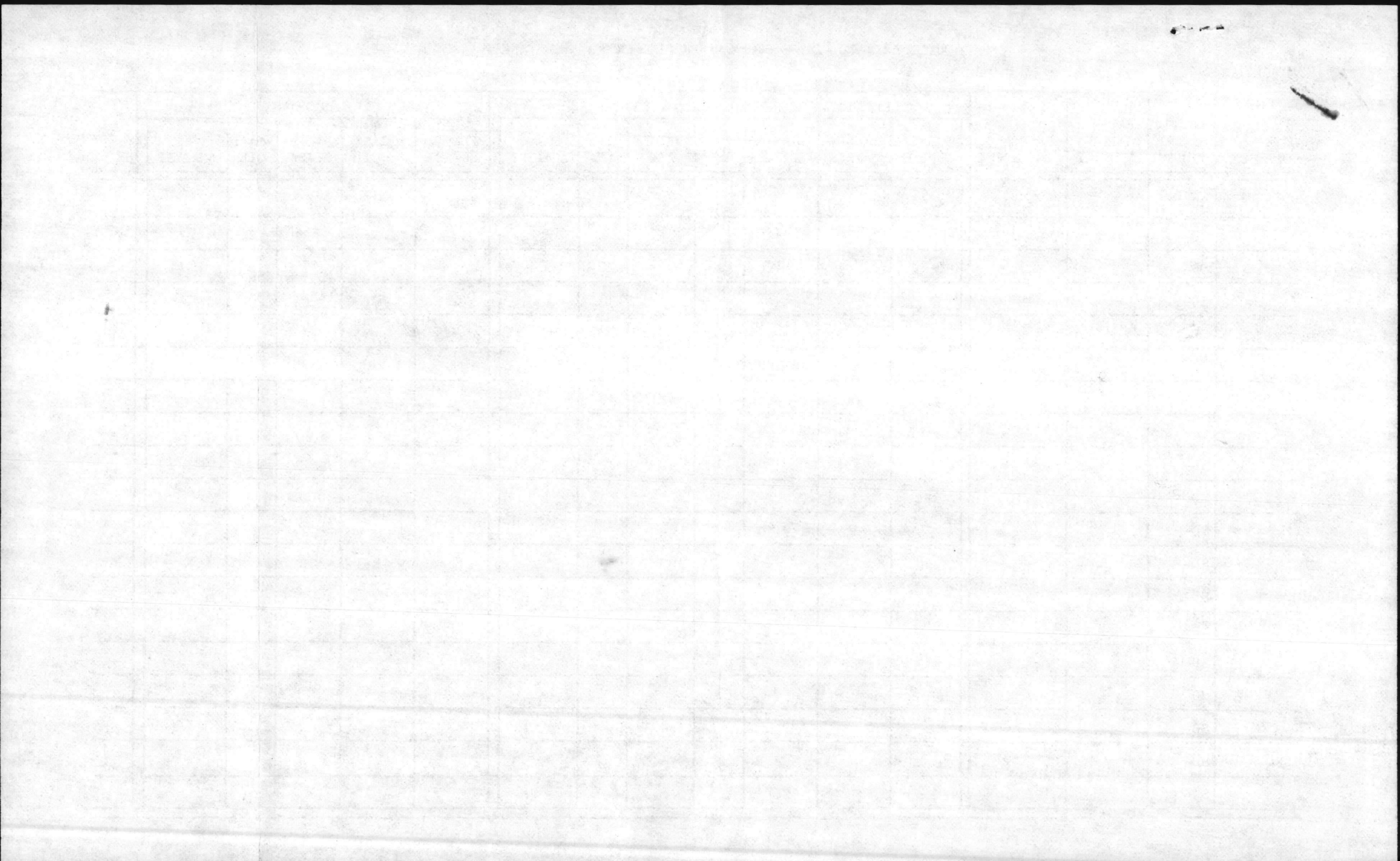
DATE COLLECTED

18 AUGUST 80

STATION NO.	TOTAL COLIFORM m ENDO MEDIUM	FECAL COLIFORM m F C MEDIUM	TEMP C	DO ppm	5 DAY BOD ppm	CHLORIDES ppm	P. H.	WIND	TIDE
1	(10) OVERGROWN NON-COLIFORM (25) OVERGROWN	(10) 200 (25) 200	27°	5.5	0.8	4.7	0.0	7.8	SLACK
2	(10) 220 (25) OVERGROWN	(10) 180 (25) 140	28°	6.5	0.7	5.6	0.1	8.2	TIDE
3	(10) 20 (25) 16	(10) 0 (25) 12	27°	6.5	0.1	6.4	0.2	8.3	
4	(100) 0	(100) 1	28°	6.4	1.4	5.0	0.5	8.3	
5	(100) 0	(100) 0	27°	6.6	3.3	3.3	0.0	8.3	
6	(100) 0	(100) 0	27°	6.2	2.1	3.1	0.0	8.2	
7	(100) 0	(100) 0	26°	5.8	2.7	3.1	0.1	8.1	
8	(100) 0	(100) 0	26°	6.3	5.7	0.6	0.0	8.1	
9	(100) 0	(100) 0	26°	5.4	4.8	0.6	0.4	8.1	
10									

3.5
1.40





BIOLOGICAL ANALYSIS OF RIVER WATER

MCBCL 11330/6

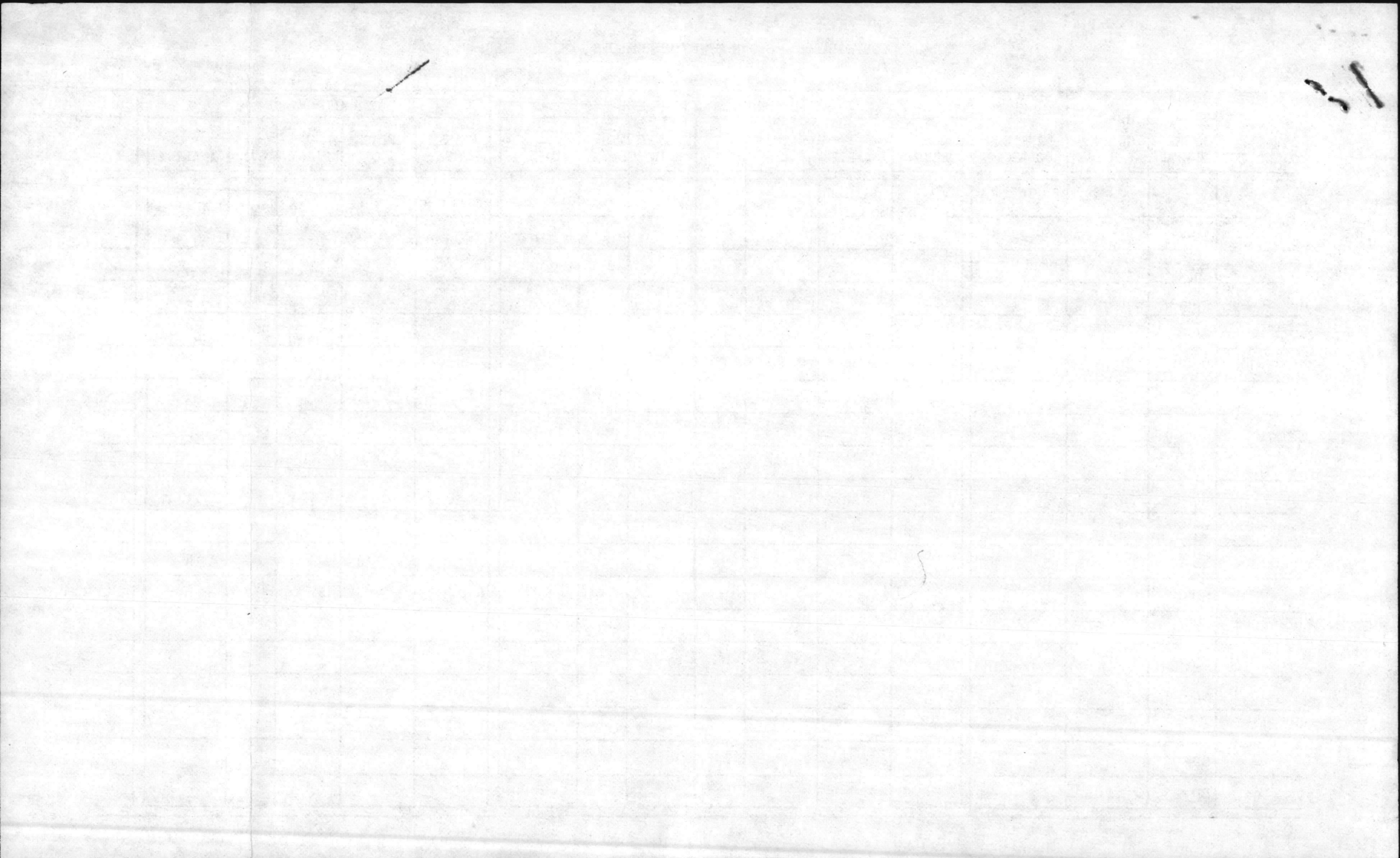
DATE COLLECTED

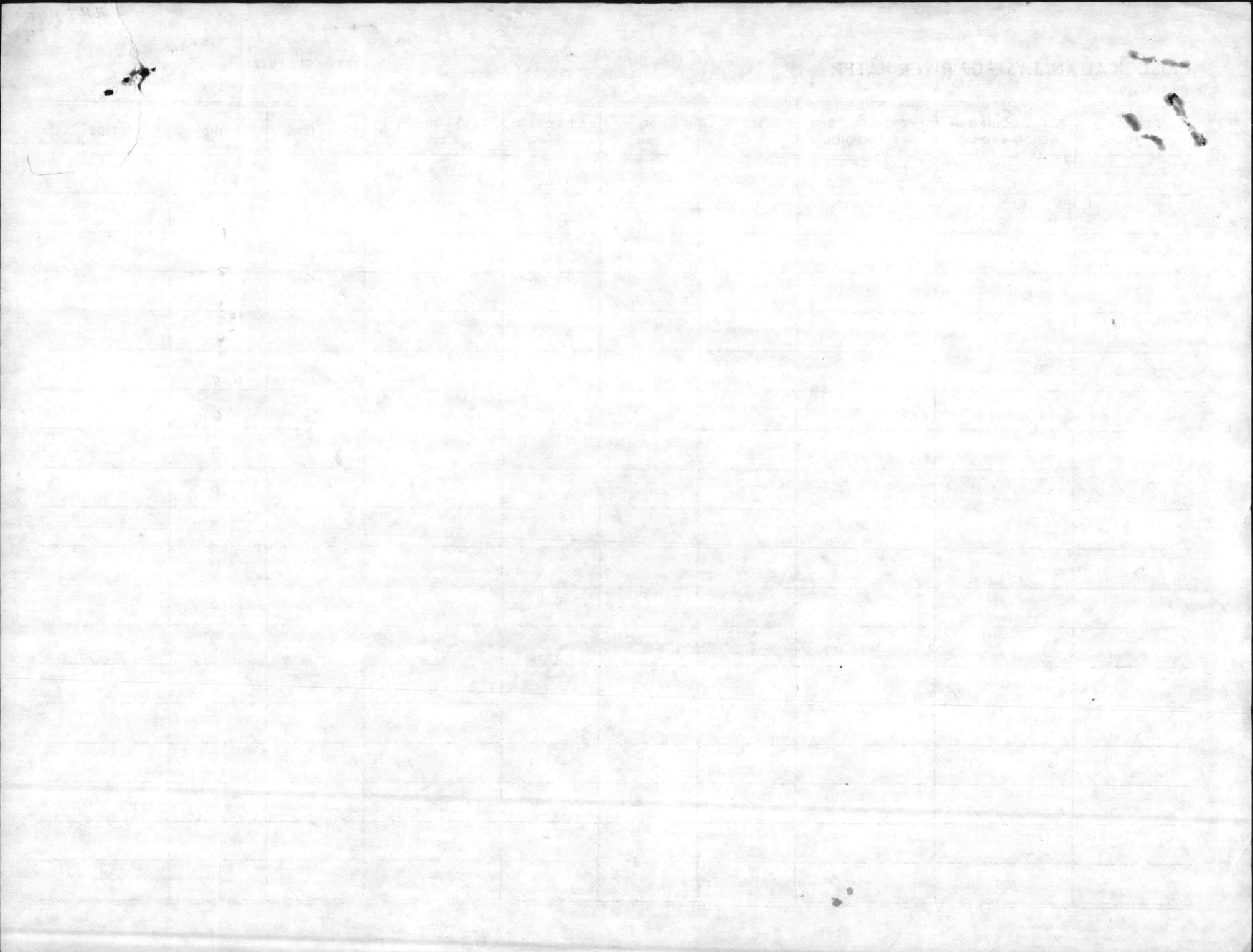
8 Sept 1980

STATION NO.	TOTAL COLIFORM mENDO MEDIUM	FECAL COLIFORM m F C MEDIUM	TEMP C	DO ppm	5 DAY BOD ppm	CHLORIDES ppm	P. H.	WIND	TIDE
1 (1)	400	(10) 160	29°	5.4	0.8	4.6	7.6	0.0	935
(10)	360	(25) 220							
2 (1)	0	(10) 0	29°	7.2	1.6	5.6	8.3	0.1	9.50
(10)	0	(25) 0							
3 (1)	0	(10) 0	29°	6.0	0.6	5.4	8.3	0.0	958
(10)	0	(25) 0							
4 (50)	0	(50) 0	29°	7.0	3.7	3.3	8.4	0.0	1007
5 (50)	0	(50) 0	29°	6.3	0.5	5.8	8.3	0.0	1023
6 (50)	0	(50) 0	28°	5.6	4.8	0.8	8.2	0.0	1035
7 (50)	0	(50) 0	28°	5.8	5.6	0.2	8.2	0.0	1100
8 (50)	0	(50) 4	28°	6.5	6.5	0.0	8.2	0.0	1120
9 (50)	0	(50) 0	28°	6.5	6.5	0.0	8.2	0.0	1110

B







RIVER
QUALITY CONTROL LAB - ~~STORM SEWER DISCHARGES~~ - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH	
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST		
	SD- 1											1	9488	66 9475	1.3		
	SD- 2											2	5525	67 5534	0.9		
	SD- 3											3	4648	61 4640	0.8		
	SD- 4											4	5604	67 5603	0.1		
	SD- 5											5	6589	60 6586	0.3		
	SD- 6											6	4844	61 4840	0.4		
	SD- 7											7	0650	61 0640	0.1		
	SD- 8											8	7221	60 7211	0.1		
	SD- 9											9	7172	67 7203	0.0		
	SD- BL											10	1447	74 1450			
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																
	SD-																

NEW RIVER

Lab



11

