

RIVER

8-13-74

LOCATION #	DO ₁	DO ₅	TEMP °C	FECAL COLIFORM
K&R MARINA 1	3.7	2.0	25	1755
TT + BRIDGE 2	4.3	3.7	25	445
MP + TT 3	5.3	4.0	25	100
HOSPITAL PT 4	5.8	3.9	26	50

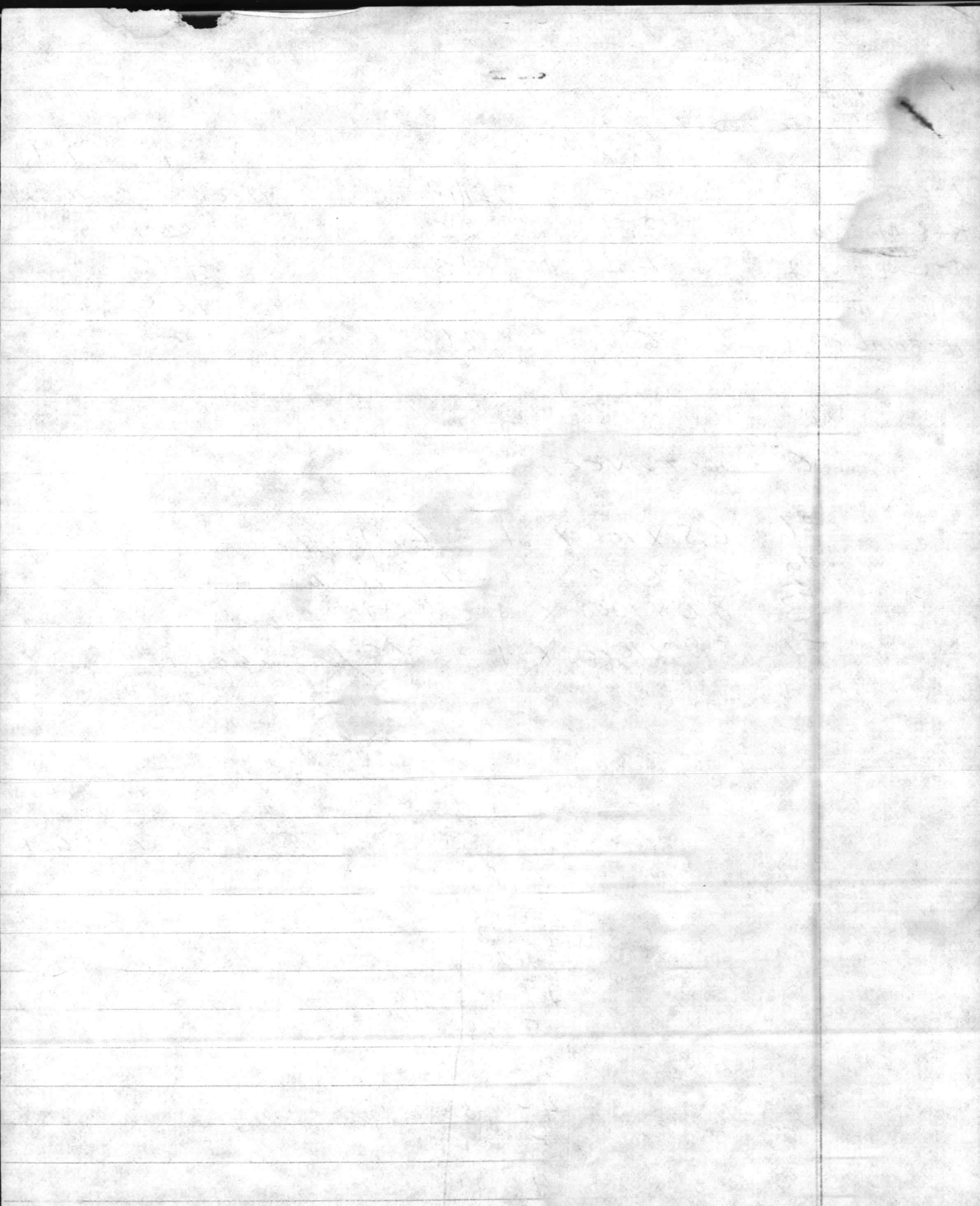
CONDUCTANCE

- #1 $6.8 \times 100 \times .1 = 68 \mu\text{mhos}$
- #2 $15.0 \times 100 \times .1 = 150 \mu\text{mhos}$
- #3 $8.0 \times 1000 \times .1 = 800 \mu\text{mhos}$
- #4 $2.2 \times 10,000 \times .1 = 2200 \mu\text{mhos}$

Sept 3, 1974

	DO	TEMP	CONDUCT
DO' INFEET	DO' .5'	DEP	
1	4.5	3.5 3.2 .3	24°
2	7.2	5.2 2.9 2.4	25°
3	7.6	4.2 2.9 1.4	25°
4	7.0	4.8 .9 3.9	27°
5	7.4	4.2 3.6 .6	27°
6	7.5	5.7 4.4 1.3	26°
7	8.6	6.7 5.5 1.2	30
8	8.0	5.9 4.8 1.1	28

65A

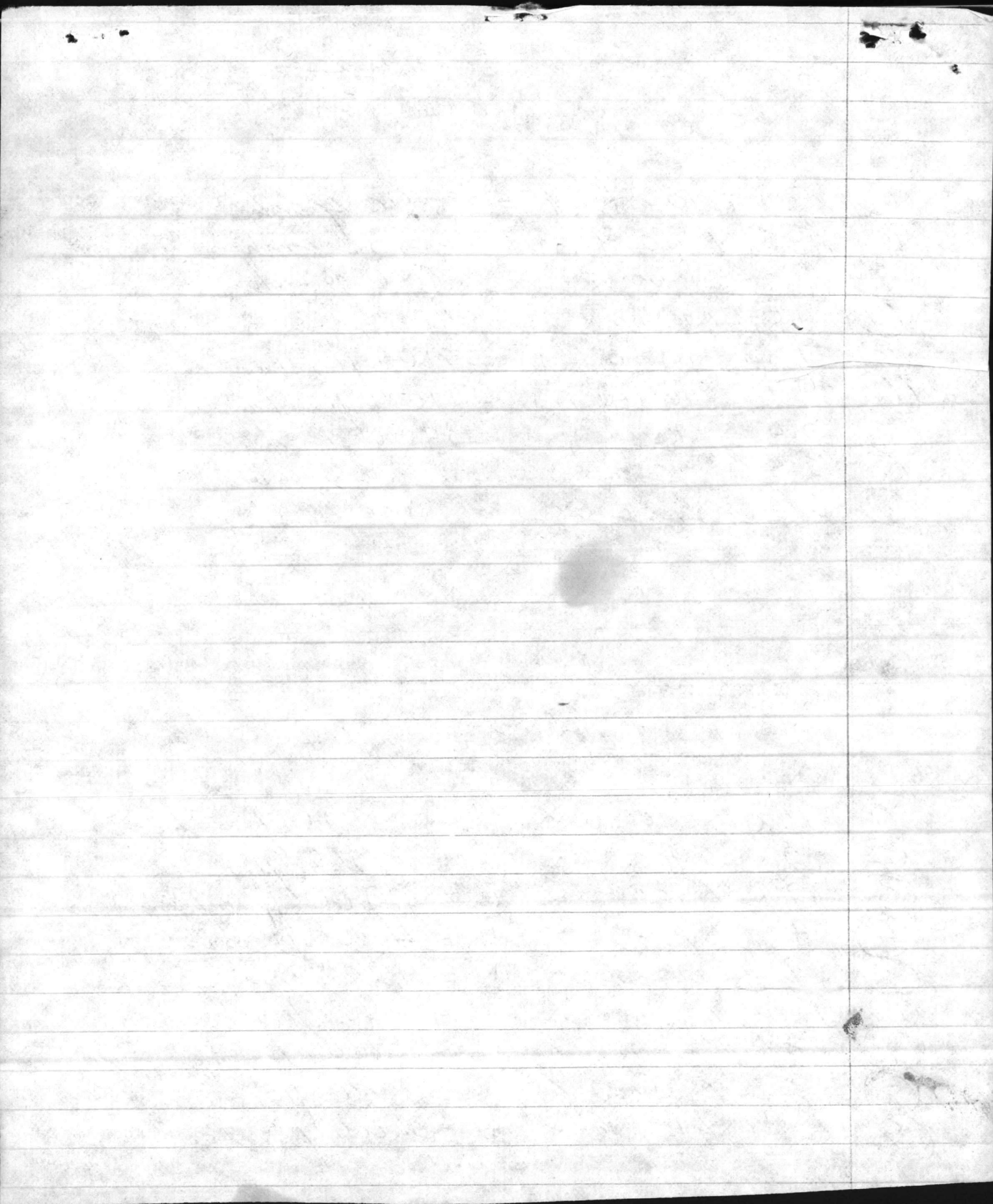


Sept 3

- ① $9.0 \times 100 \times .1 = 90 \mu\text{mhos}$
- ② $19.5 \times 100 \times .1 = 195 \mu\text{mhos}$
- ③ $6.8 \times 1,000 \times .1 = 680 \mu\text{mhos}$
- ④ $4.6 \times 10,000 \times .1 = 4600 \mu\text{mhos}$
- ⑤ $7.8 \times 10,000 \times .1 = 7800 \mu\text{mhos}$
- ⑥ $2.7 \times 100,000 \times .1 = 27000 \mu\text{mhos}$
- ⑦ $2.4 \times 100,000 \times .1 = 24000 \mu\text{mhos}$
- ⑧ $2.2 \times 100,000 \times .1 = 22000 \mu\text{mhos}$
- ⑨ $2.8 \times 100,000 \times .1 = 28000 \mu\text{mhos}$

Sep 5 - 74

- ① $12.0 \times 100 \times .1 = 120 \mu\text{mhos}$
- ② $2.0 \times 1000 \times .1 = 200 \mu\text{mhos}$
- ③ $12.0 \times 1000 \times .1 = 1200 \mu\text{mhos}$
- ④ $4.2 \times 10,000 \times .1 = 4200 \mu\text{mhos}$
- ⑤ $9.7 \times 10,000 \times .1 = 9700 \mu\text{mhos}$
- ⑥ $12.4 \times 10,000 \times .1 = 12400 \mu\text{mhos}$
- ⑦ $3.0 \times 100,000 \times .1 = 30000 \mu\text{mhos}$
- ⑧ $2.3 \times 100,000 \times .1 = 23000 \mu\text{mhos}$
- ⑨ $3.1 \times 100,000 \times .1 = 31000 \mu\text{mhos}$

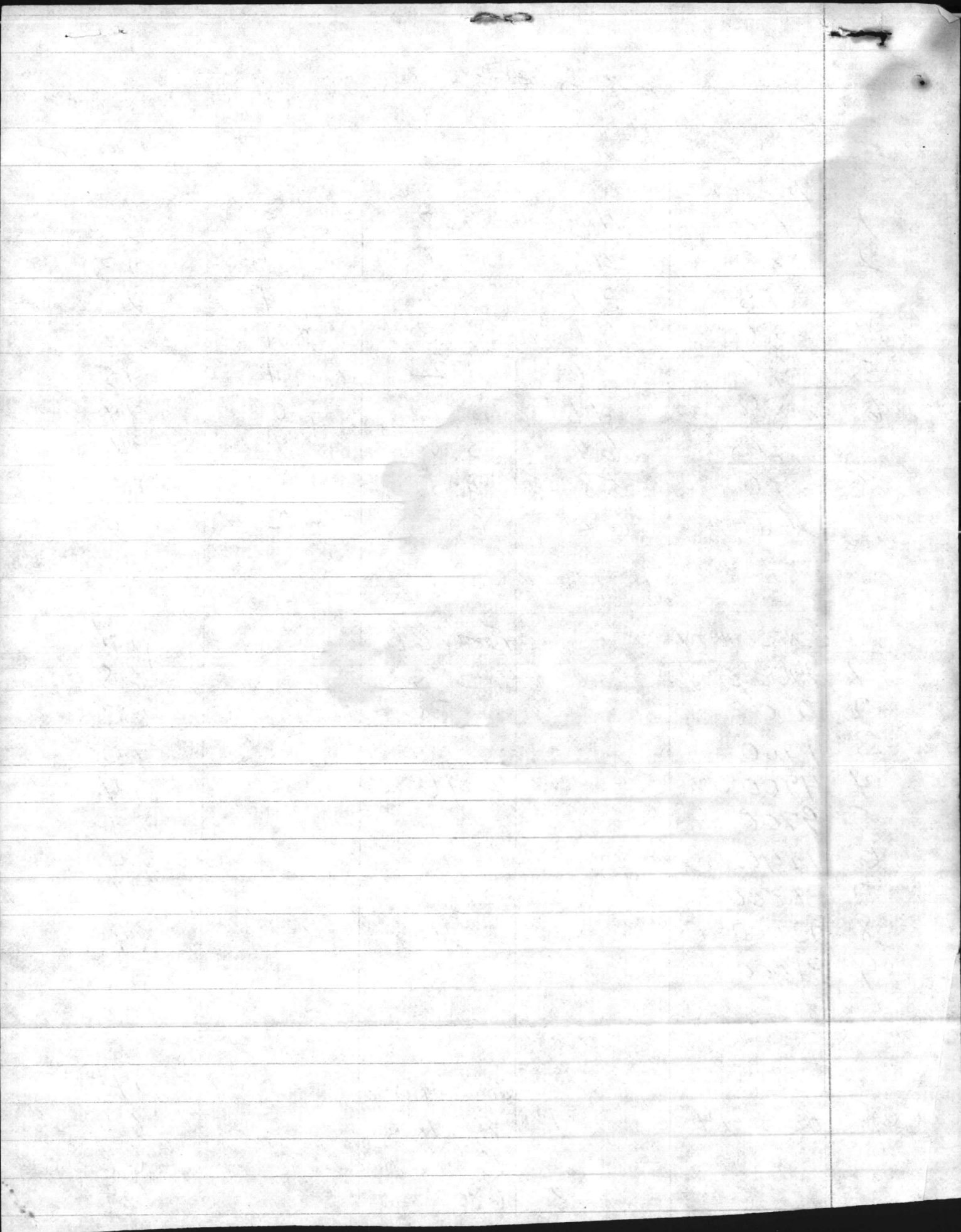


Sep 5 ~~2002~~

#	DO, METER	DO ₁	DO ₅	BOP	TEMP.
1	6.0	4.6	2.8	1.8	22
2	8.0	4.8	3.6	1.2	23
3	7.5	3.7	3.3	1.4	23
4	8.0	4.1	2.0	2.1	23
5	9.0	3.6	3.2	.4	25
6	8.9	4.1	3.1	1.0	24
7	9.0	6.4	5.6	.8	24
8	9.0	5.8	4.5	.3	24
9	10.0	6.2	6.0	.2	24

	CONDUCTIVITY	Fecal coli	pH
1	120 μ mhos	350	6.8
2	200 "	30	6.7
3	1200 "	8	7.0
4	4200 "	16	7.4
5	9700 "	1	8.1
6	12400 "	48	8.4
7	30000 "	3	8.6
8	23000 "	20	8.4
9	31000 "	0	8.7

Sep.	3	CONDUCTIVITY	pH
	2	-74	
	1	90 μ mhos	6.9
	2	195 "	6.6
	3	680 "	6.9

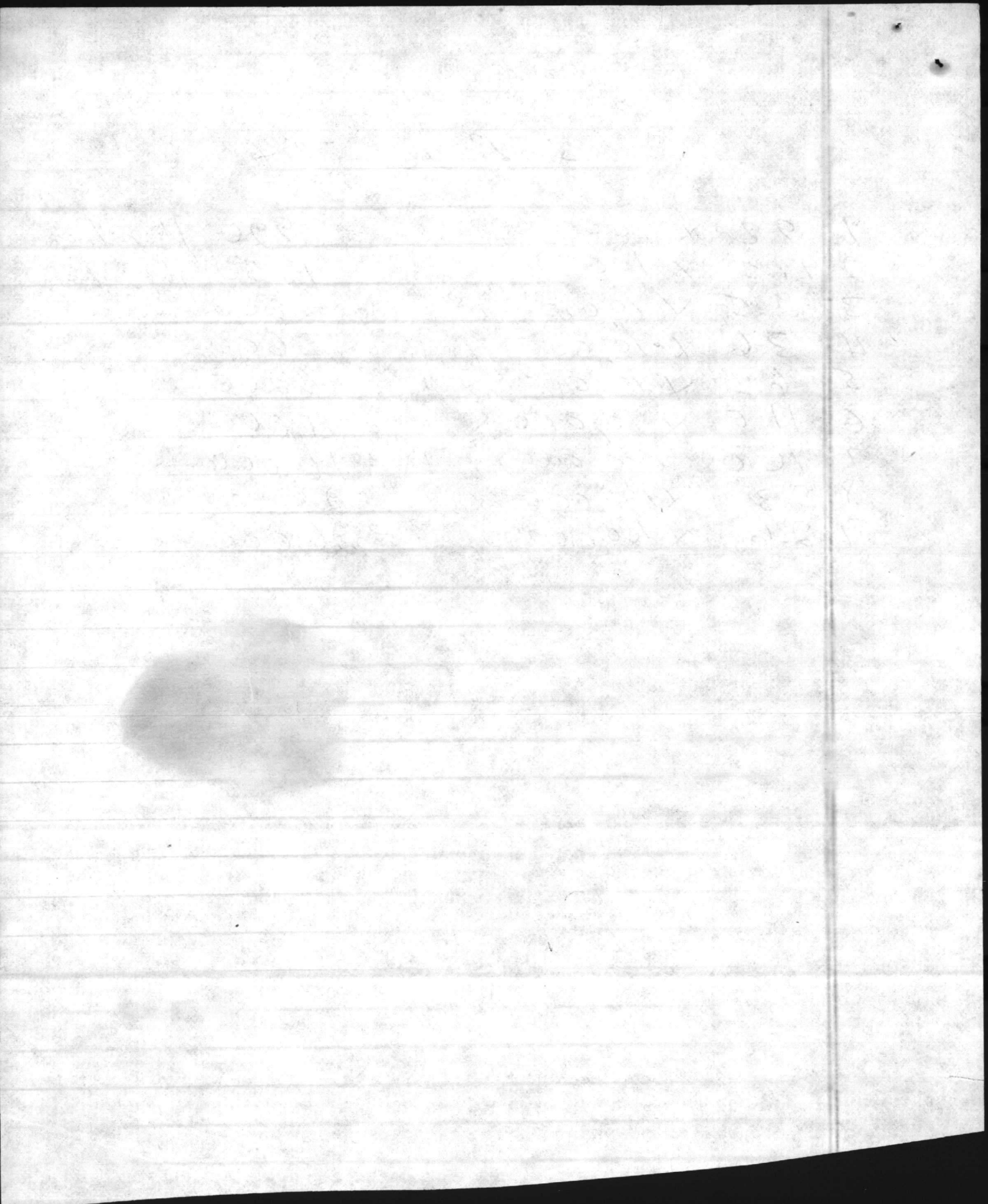


	<u>DO¹</u>	<u>DO⁵</u>	<u>Sept</u> <u>DOO</u>	<u>10,</u> <u>PH</u>	<u>74</u> <u>TEMP</u>	<u>COND.</u>
#1	4.0	3.2	.8	7.2	23°	920 ^{MC}
#2	1.5	.5	1.0	7.5	25°	1750 "
3	4.5	.6	3.9	7.6	25°	2500
4	6.0	5.3	.7	7.2	26°	3600
5	7.5	6.2	1.3	8.5	26°	6200
6	7.0	5.8	1.2	7.4	26°	11000
7	6.7	5.0	1.7	8.9	28°	16000
8	6.3	5.1	1.2	8.0	28°	23000
9	6.0	4.6	1.4	8.0	28°	26000

SEP 10 - 74

1	9.2	X 1000	X .1	= 920	μ mhor
2	17.5	X 1000	X .1	= 1750	μ mhor
3	2.5	X 10,000	X .1	= 2500	" "
4	3.6	X 10,000	X .1	= 3600	" "
5	6.2	X 10,000	X .1	= 6200	" "
6	11.0	X 10,000	X .1	= 11,000	" "
7	16.0	X 10,000	X .1	= 16,000	" "
8	2.3	X 100,000	X .1	= 23,000	" "
9	2.6	X 100,000	X .1	= 26,000	" "

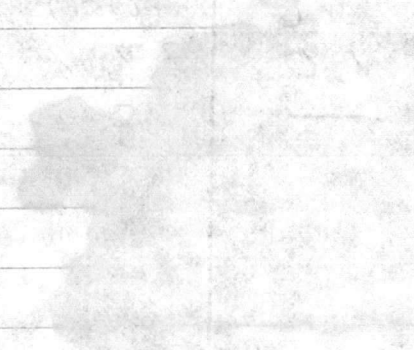
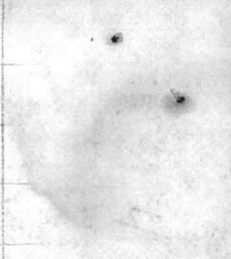
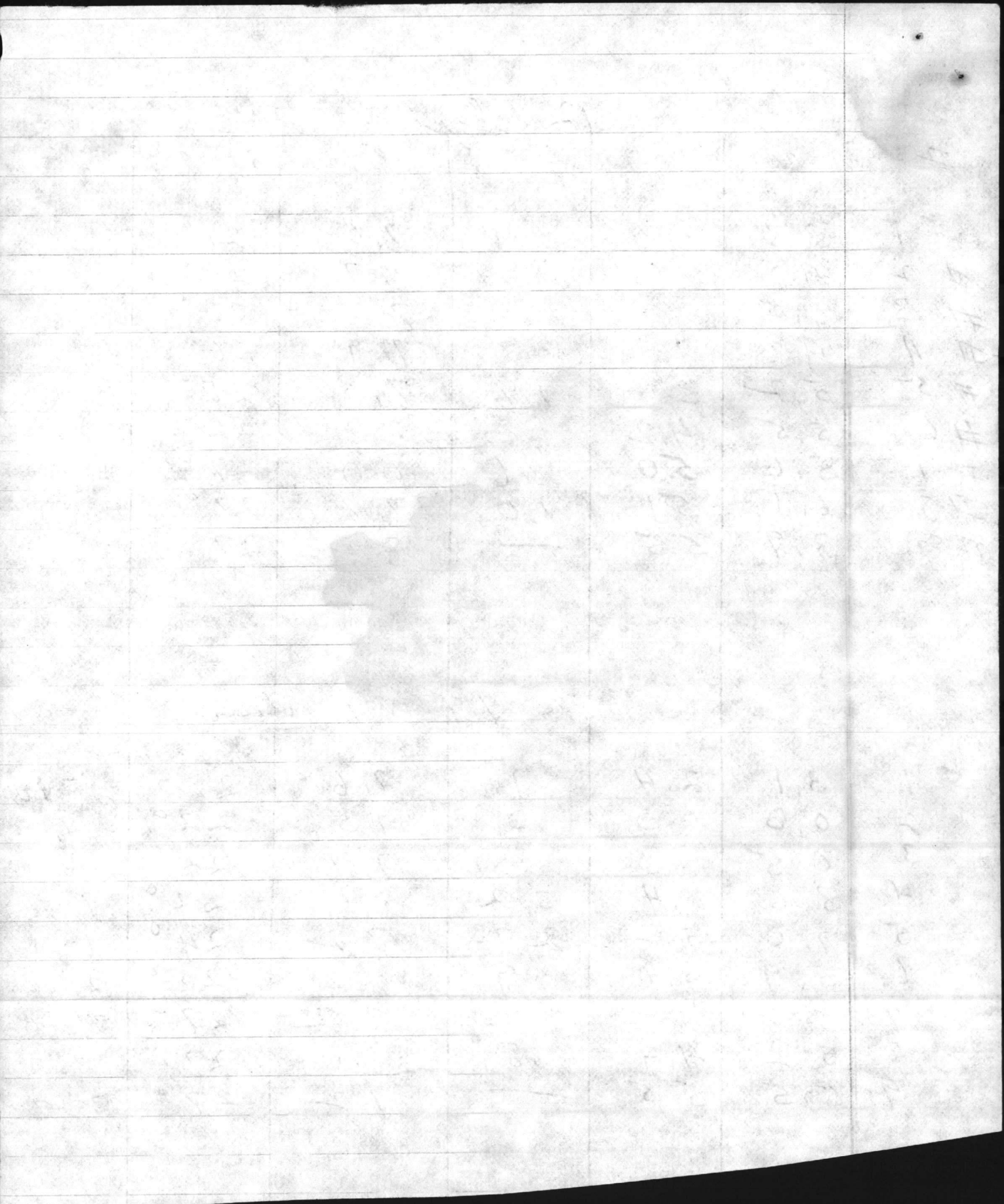
2
200
260



# Sample	12/17 Sept			74		COND.
	001	005	600	PH	TEMP	
# 1	3.8	3.4	.4	7.5	24°	41000
# 2	4.5	0	4.5+	7.7	24°	5600
# 3	0.5	0	.5+	7.8	26°	6300
# 4	4.8	1.5	3.3	7.9	26°	6600
# 5	5.2	3.3	1.9	8.0	26°	10,000
# 6	5.5	4.2	1.3	8.2	26°	19,000
# 7	5.6	5.0	.6	8.0	27°	25,000
# 8	6.1	5.1	1.0	7.8	27°	25,000
# 9	3.9	5.5	—	8.2	27	24,000

Sept 19, 1974 River

# 1	3.1	2.4	.7	7.6	21°	3,500
2	0.0	0	0	7.5	22°	9,000
3	0.5	0	.5	7.7	22°	10,000
4	3.6	.4	3.2	8.0	22°	10,000
5	7.0	5.2	3.2	8.2	24°	15,000
6	5.9	5.0	.9	8.2	25°	21,000
7	5.5	5.3	.2	8.2	27°	31,000
8	5.2	4.4	.8	8.0	27°	28,000
9	5.5	5.5	—	8.2	27°	30,000



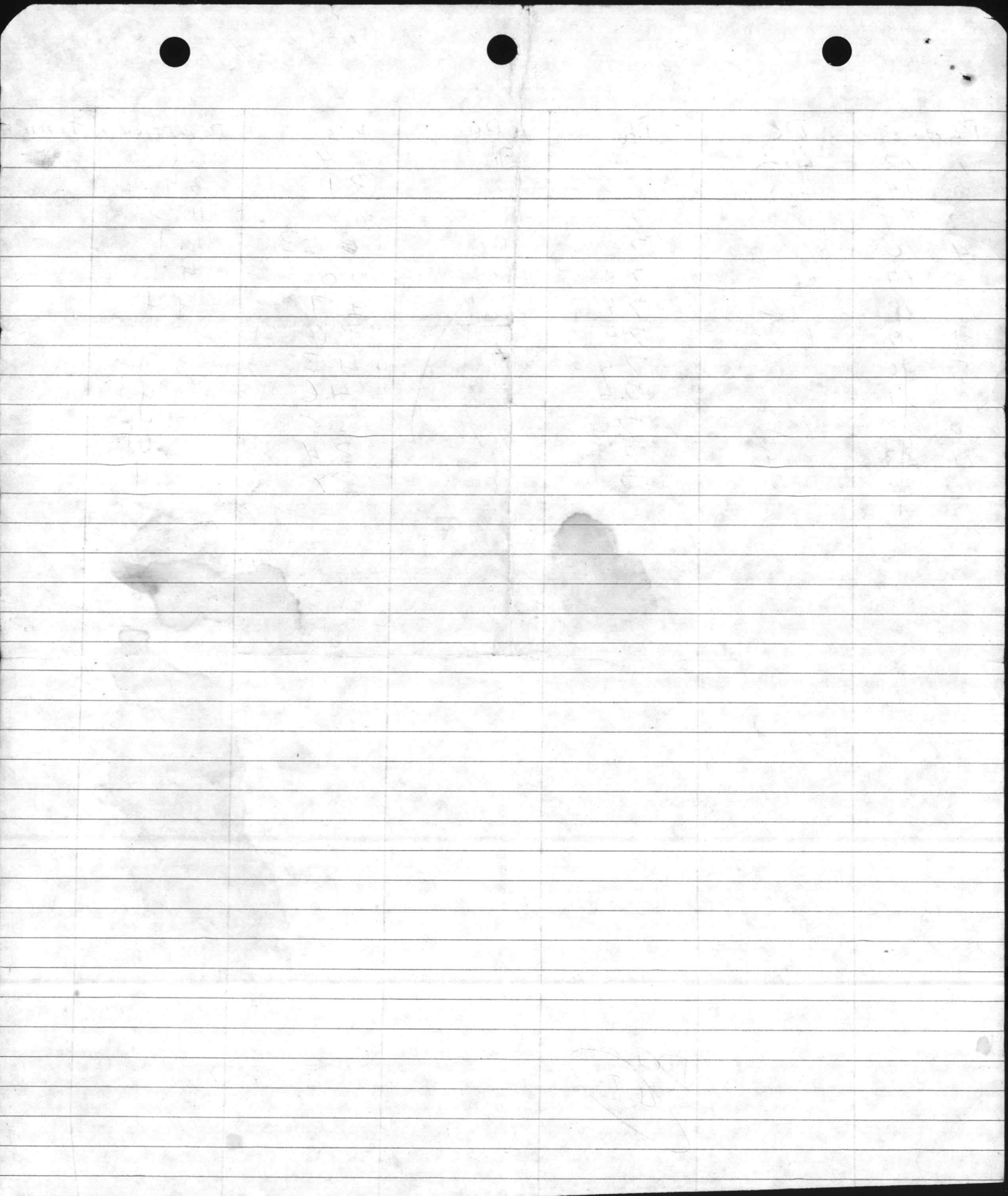
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18 Sept.

PLACE	DO	PH	DO	DO ₅	DEPLETION	TEMP
1 13	4.2	7.2	7.0	3.4	3.6	78
2 14	4.3	7.2	7.0	3.1	3.9	"
3 15	5.1	7.3	7.1	2.8	4.3	"
4 16	2.8	7.2	7.0	2.3	6.7	"
5 17	4.5	7.3	7.1	3.0	4.1	
6 18	5.2	7.4	7.1	2.7	4.4	
7 19	6.2	7.4	7.0	3.6	3.4	
8 20	1.6	7.4	7.0	4.3	2.7	
9 21	5.1	7.4	7.0	4.6	2.4	
10 22	2.7	7.0	6.9	3.5	3.4	
11 23	6.4	7.5	7.0	3.4	3.6	
12 24	4.0	7.1	7.0	3.9	3.1	

DO
4.8



24 Sept, 1974

# OF SAMPLE	DO (1)	DO (5)	BOD	PH	TEMP.	COND.
# 1	2.7	.7	2.0	7.9	68° F	5600
2	6.0	.4	5.6	7.7	70°	16,500
3	7.2	3.0	4.2	8.0	70°	16,500
4	7.3	5.3	2.0	9.8	69°	17,000
5	8.4	6.0	2.4	9.3	69°	19,000
6	7.2	6.0	1.2	8.5	68°	27,000
7	7.2	6.5	.7	8.3	68°	39,000
8	7.0	6.0	1.0	8.9	68	40,000
9	7.2	5.2	2.0	8.5	69°	52,000

BIOLOGICAL ANALYSIS OF RIVER WATER

DATE COLLECTED

23 DEC 74

MCBCL 11330/6

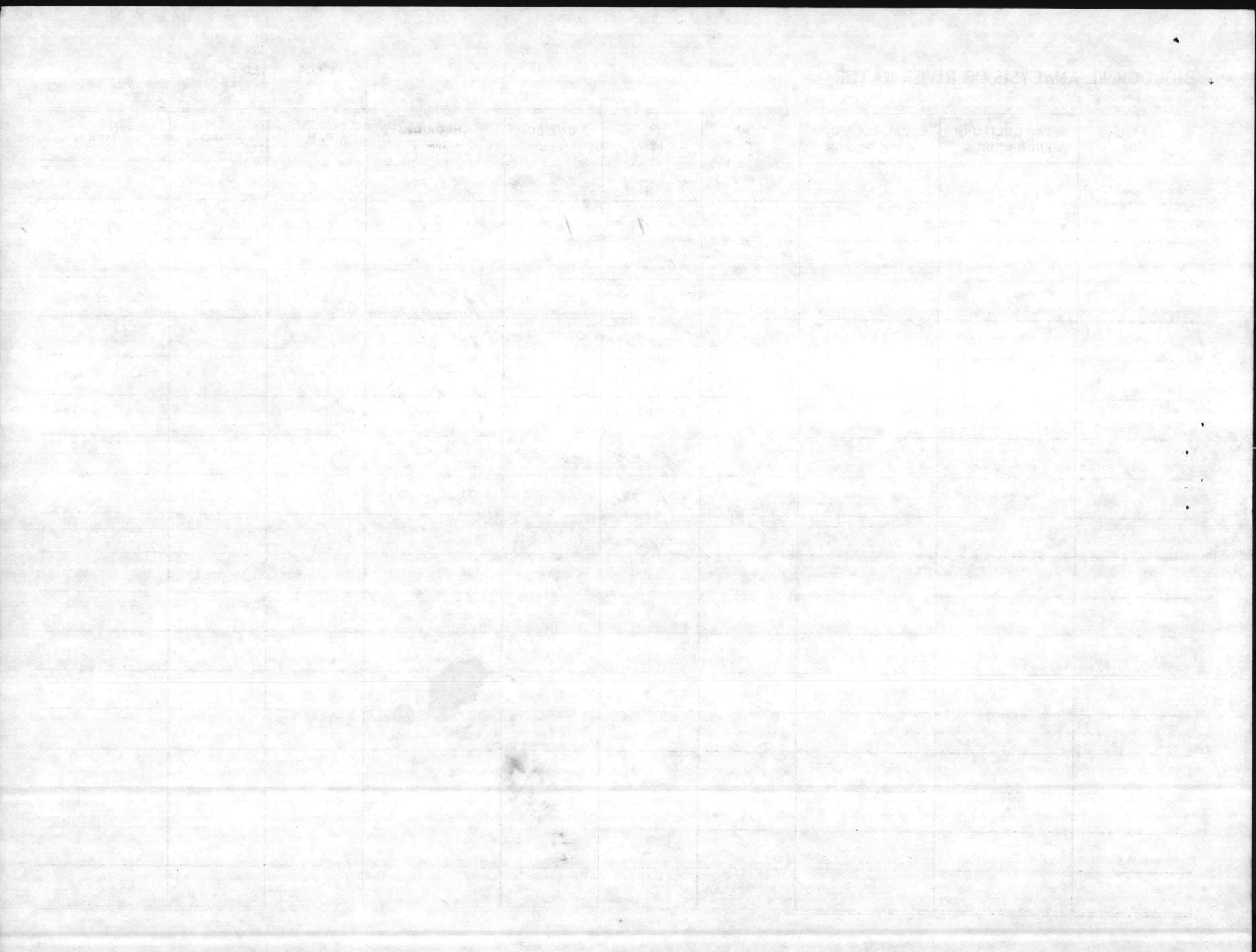
STATION NO.	TOTAL COLIFORM m F C MEDIUM	FECAL COLIFORM m F C MEDIUM	TEMP C	DO ppm	5 DAY BOD ppm	CONDUCTIVITY OHM-CM ppm	P. H.	WIND	TIDE
AW01	9:10		9°	7.5	1.0	1300	6.9		
AW02	9:30		9°	10.7	4.0	1700	6.5		
AW03	9:40		9°	7.4	0.8	22000	6.6		
AW04	10:00		8°	7.4	0.6	15,000	8.2		
AW05	10:15		8°	8.9	1.6	15,000	8.3		
AW06	10:35		8°	8.8	1.5	21,000	8.4		
AW07	11:00		10°	8.3	1.1	28,000	8.3		
AW08	11:20		10°	7.8	1.5	29,000	8.3		
AW09	11:10		9°	8.7	1.0	29,000	8.3		

TRAM FERRER

TRAM FERRER

TRAM FERRER

TRAM FERRER



BIOLOGICAL ANALYSIS OF RIVER WATER

MCBCL 11330/6

DATE COLLECTED

Dec 30, 74

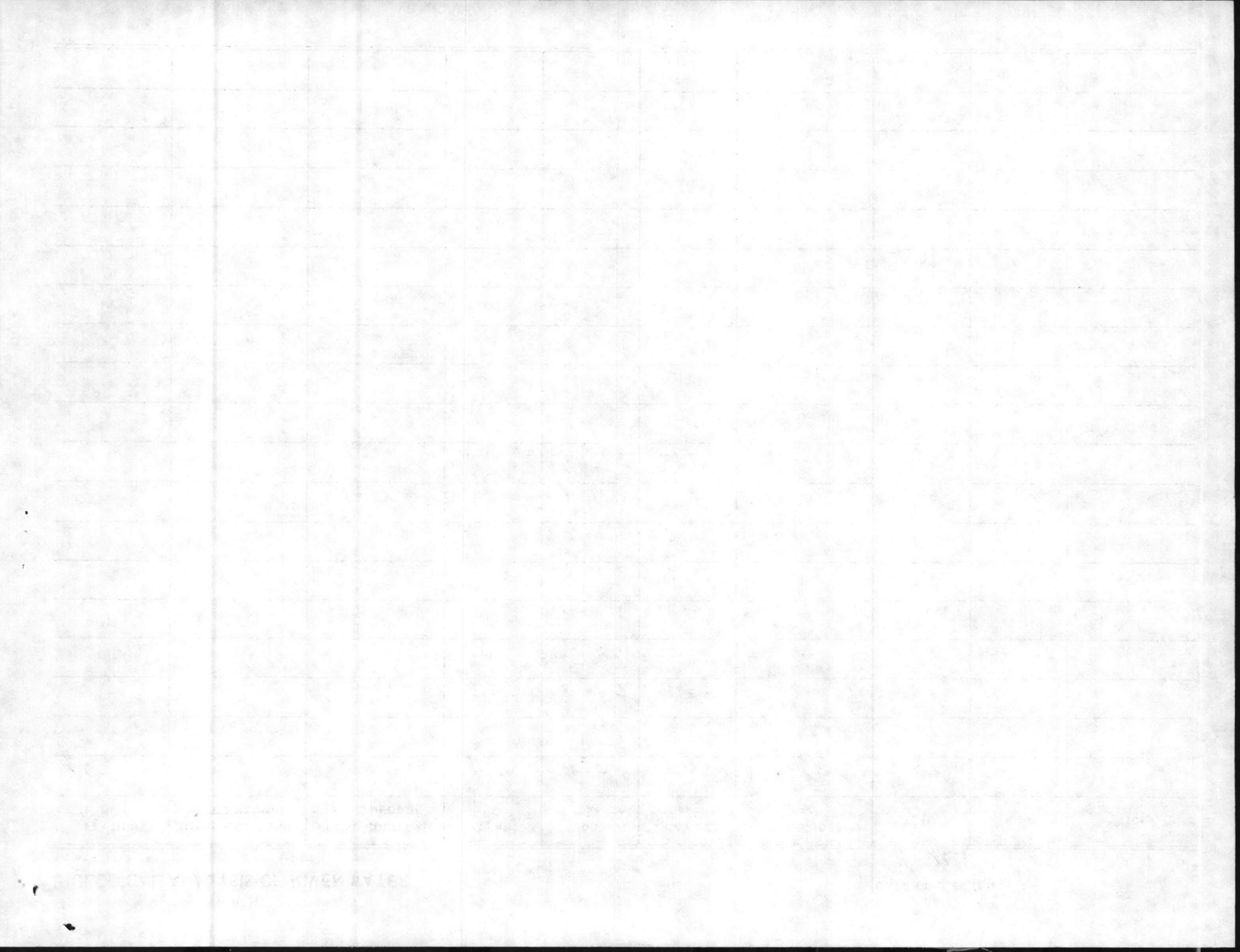
STATION NO.	TIME	TOTAL COLIFORM	FECAL COLIFORM	TEMP C	DO		5 DAY BOD	CONDUCTIVITY	P. H.	WIND	TIDE
	m MEDIUM	m F C MEDIUM	ppm		ppm	ppm					
RW01	0920	1600	12 ⁶	7.8	7.5	0.3	886	6.8		IN COMING	
RW02	0945	540	13 ⁰	8.5	8.3	2.2	3400	6.9			
RW03	0955	430	13 ⁰	12.5	5.4	7.1	7200	8.1			
RW04	1005	56	13 ⁰	25	4.0	8.5	11800	8.5			
RW05	1025	40	13 ⁰	8.6	8.3	0.3	14000	8.2			
RW06	1100	7	12 ⁴	9.0	9.0	0	29000	8.2			
RW07	1115	6	12 ⁴	5.7	9.5	—	33000	8.2			
RW08	1140	3	13	8.9	9.9	—	26000	8.3			
RW09	1130	0	13	7.4	9.0	—	33000	8.2			

	DO	BOD	Temp	pH/EC
1	7.8 ✓	.7 ✓	10 ✓	6.8 ✓
2	8.5	1.6	11	7.1
3	14.0	4.0	13	7.7
4	11.4	5.7	13 ✓	8.4
5	9.6	1.5	12	8.3
6	8.6	.2	13	8.0
7	7.3	.6	13	8.3
8	8.9	.5	13	8.3
9	8.2	.7		8.3

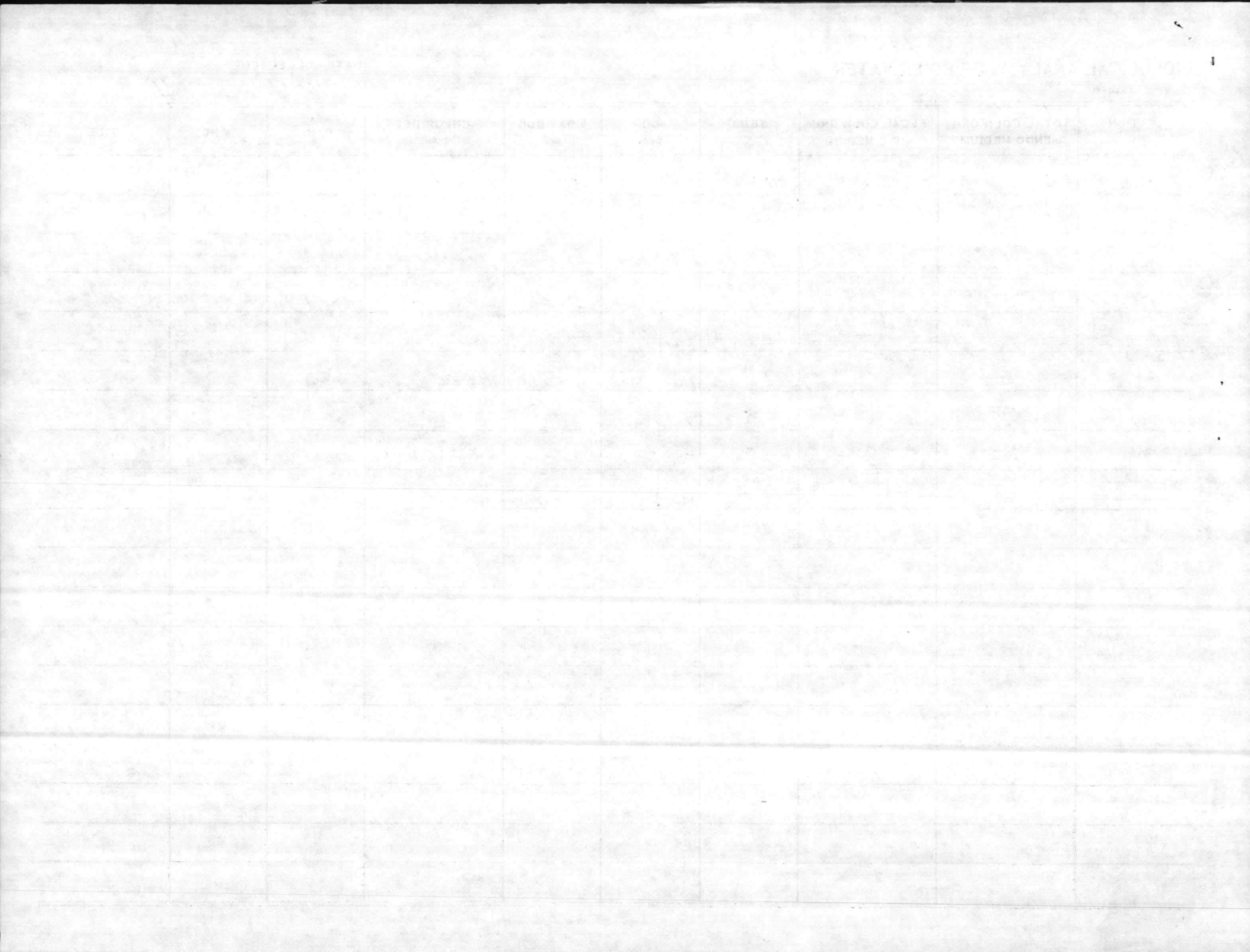
Cont

Feed	1793	✓
933	1733	
433	7633	
472	9466	
29	17400	
20	16500	
13	27000	
4	35000	
30	36500	
	35000	

Avg for the month of Dec



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Day	BOA	Total	P/h	Cost
1	7.3	16	7.5	12 275
2	7.9	17	7.7	18 625
3	9.0	16	8.2	19 500
4	9.0	16	8.4	23 250
5	8.5	16	8.4	26 500
6	8.3	17	8.3	31 750
7	8.3	14	8.4	37 000
8	4.9	17	8.5	38 000
9	7.9	17	8.4	37 000

avg for month
of NOV

Feed

720
166
149
18
137
5
4
5
8

#	DO	BOD	PH	Temp
1	6.8	3.0	7.5	17
2	6.1	3.0	7.6	18
3	7.1	2.3	7.9	18
4	7.7	2.0	8.2	18
5	8.3	1.9	8.2	19
6	8.3	2.9	8.3	19
7	8.0	1.0	7.9	20
8	7.6	1.0	7.6	21
9	7.0	.7	7.6	20
10	7.2	.7		

cont
 9540
 15260
 17900
 20200
 22200
 26300
 33000
 35400
 35200

FEEDAL
 360
 4144
 186
 4
 11
~~3~~
 1
 5
 10

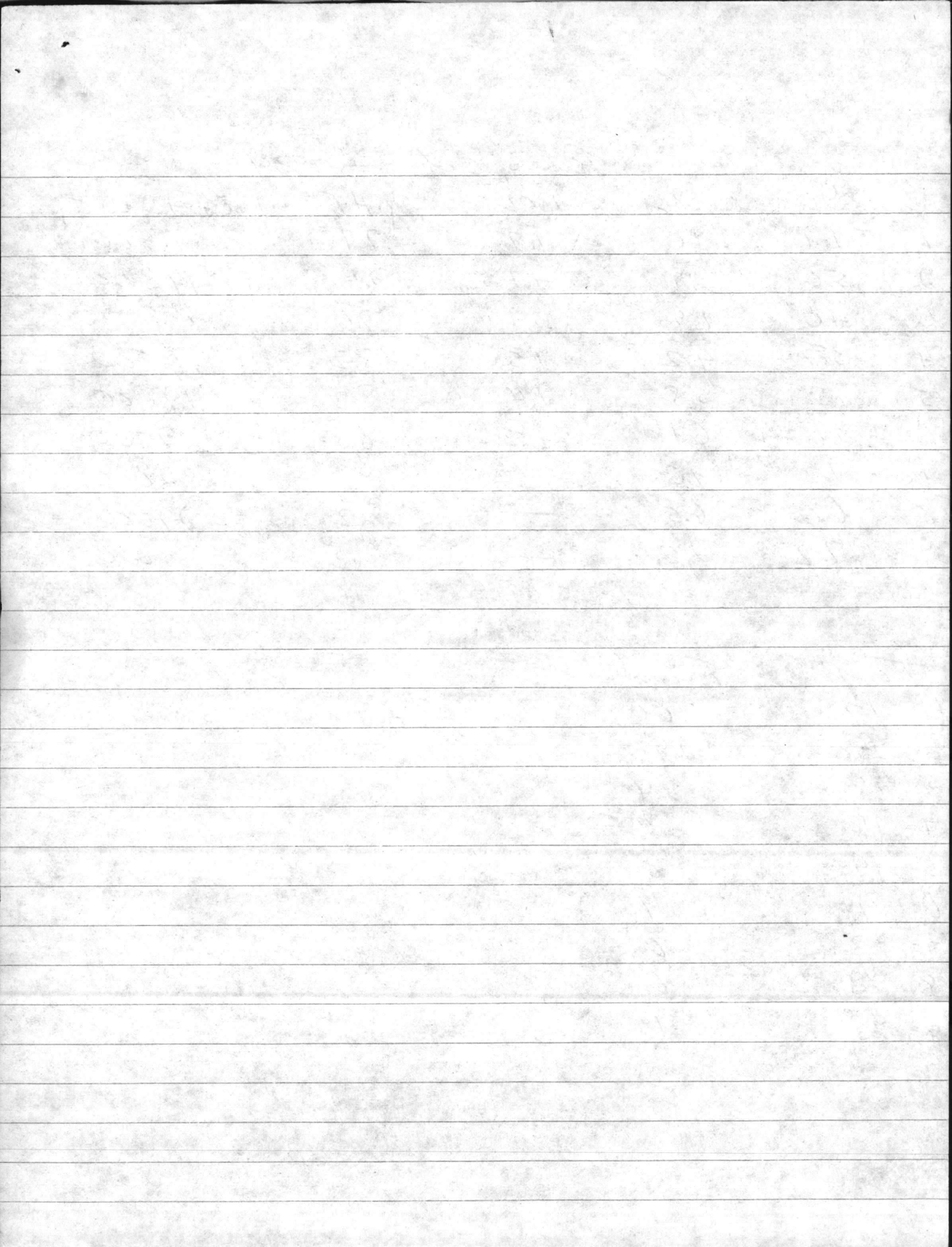
OCT
 avg for month of oct

4144
 27,200
 176,000
 111,000
 42600
 Temp fecal
 50

River Oct. 3 - 1974

	DO ₁	DO ₅	BOD	pH F	Conductivity
1	1.7	.0	1.7	7.4	6900
2	5.0	.9	4.1	7.4	11300
3	4.0	1.9	2.1	7.6	15000
4	5.7	4.2	1.5	8.2	16500
5	7.2	5.8	1.4	8.2	19000
6	7.6	6.1	1.5	8.3	22500
7	7.2	7.0	.2	8.3	32000
8	6.0	6.5	—	8.2	29000
9	7.2	7.5	—	8.2	30000

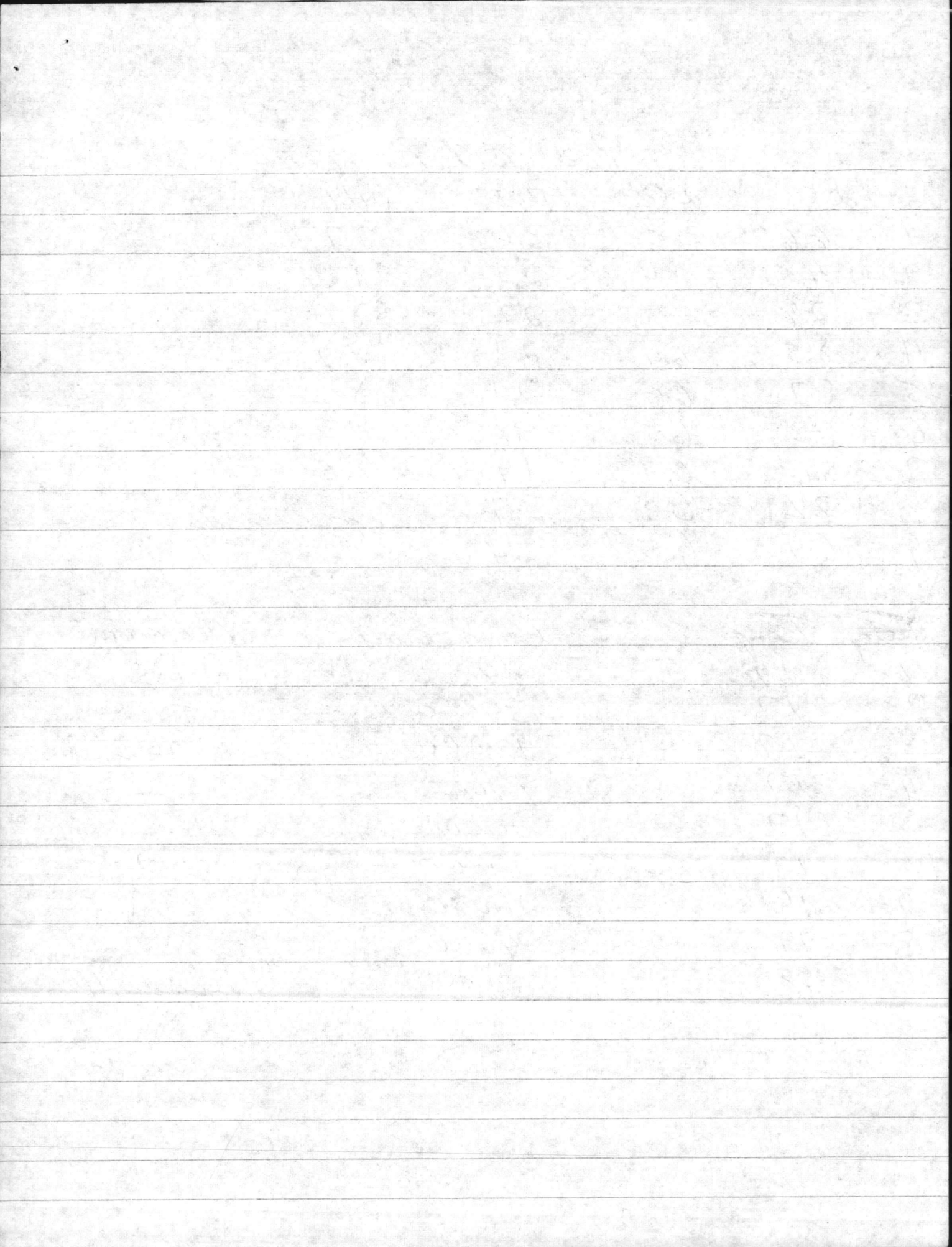
Temp	Fecal
1- 17	200
2- 19	290
3- 18	24
4- 18	4
5- 19	0
6- 19	4
7- 23	0
8- 23	0
9- 23	1



River Oct. 10, 1974

	DO ₁	DO ₅	BOD	PHF
1	6.6	3.0	3.6	7.7
2	4.5	2.4	2.1	7.8
3	7.9	5.7	2.2	8.0
4	8.5	6.4	2.1	8.2
5	8.7	6.6	2.1	8.2
6	8.3	6.5	1.8	8.2
7	8.6	6.7	1.9	8.5
8	7.2	6.3	.9	meter broke
9	6.9	6.5	.4	

Temp Temp	Conductivity	COLIFORM
1- 17	14000	180
2- 17	34000	TNTC
3- 17	17000	132
4- 17	17000	4
5- 17	20000	3
6- 17	23000	2
7- 19	26000	1
8- 19	34000	1
9- 18	38000	overgrowth



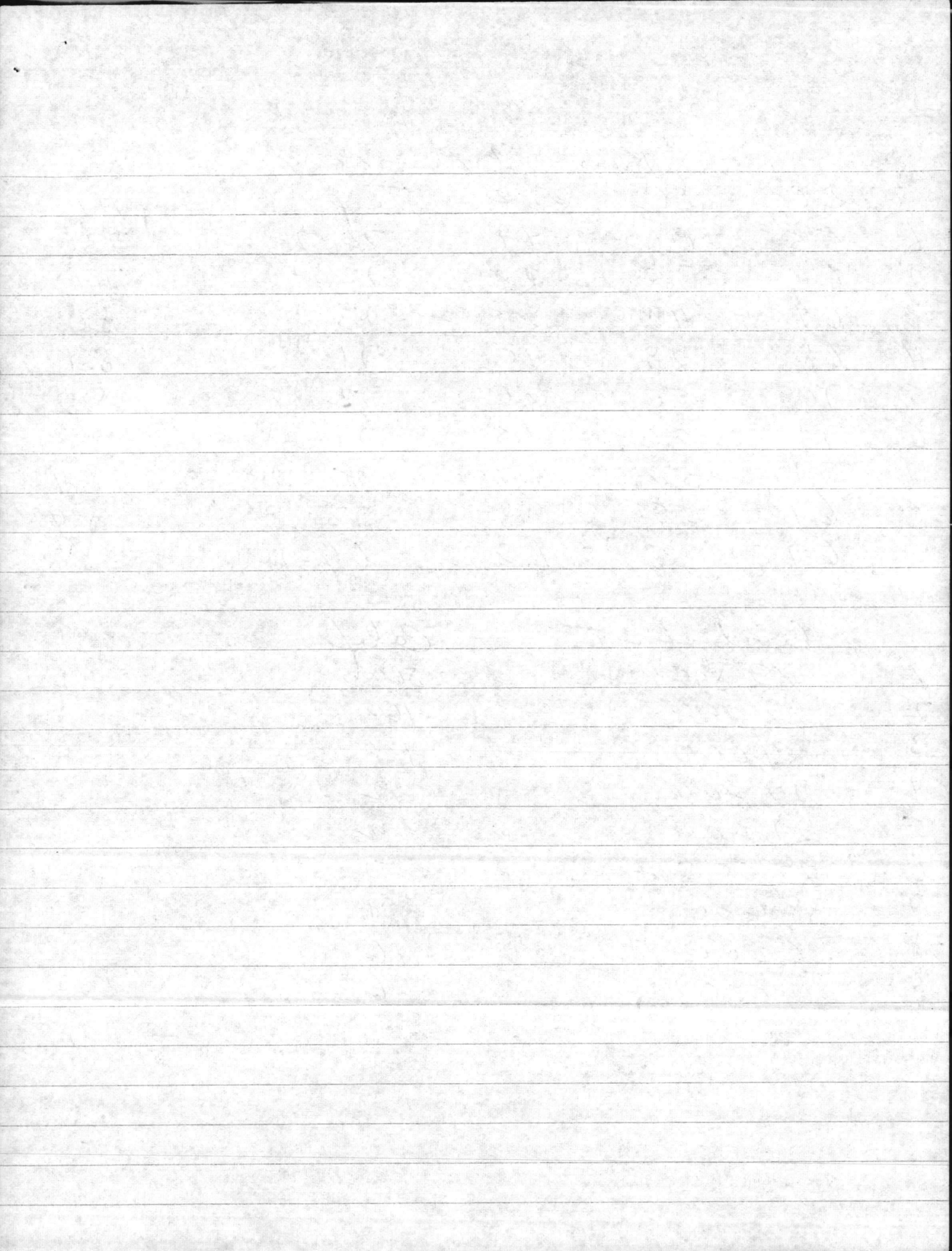
River Oct 17 - 1974

	DO ₁	DO ₅	BOD	Temp	pH _L
1	5.5	0.6	4.9	70 20	7.5
2	6.3	3.5	2.8	72 22	7.7
3	6.9	4.2	2.7	73 23	8.0
4	6.8	2.8	4.0	71 21	8.1
5	7.0	5.0	2.0	72 22	8.2
6	7.1	5.6	1.5	71 21	8.3
7	7.1	5.4	1.7	70 20	8.4
8	6.7	5.9	.8	72 22	8.4
9	6.7	5.5	1.2	69-20	8.3

Conductivity

Califon

1	12,800	860
2	19,000	160
3	24,000	100
4	29,000	2
5	27,000	2
6	29,000	7
7	38,000	1
8	36,000	16
9	36,000	6



Oct. 25 - 1974

	DO ₁	DO ₅	BOD	Temp	Conductivity
1	6.9	5.6	1.3	57 (14)	5600
2	7.6	4.0	3.6	57 (14)	6000
3	8.3	6.2	2.1	57 (14)	14000
4	8.6	8.0	.6	60 (16)	19000
5	9.2	7.4	1.8	60 (16)	20000
6	8.9	0.6	8.3	61 (16)	25000
7	7.6	7.3	.3	60 (16)	34000
8	7.5	6.7	.8	64 (18)	38000
9	7.6	6.6	1.0	64 (18)	35000

	DO ₁	RIVER
1		360
2		200
3		740
4		8
5		2
6		0
7		2
8		4
9		11

pH L
not Run

(11)

(12)

(13)

(14)

(15)

(16)

(17)

(18)

(19)

(20)

(21)

(22)

(23)

(24)

(25)

(26)

(27)

(28)

(29)

(30)

(31)

(32)

(33)

(34)

(35)

(36)

25 OCT 74

PLANT
OCT FALLS

	<u>PL/100</u>	<u>ML SAMPLE</u>	<u>Count</u>
HIP	25	20	5
TT	200	5	10
CE	140	5	7
AF	120	5	6
OB	0	20	0
LHB	0	20	0
RR	0	20	0
CF	40	5	2

RIVER COKIFORMI 25 OCT 74

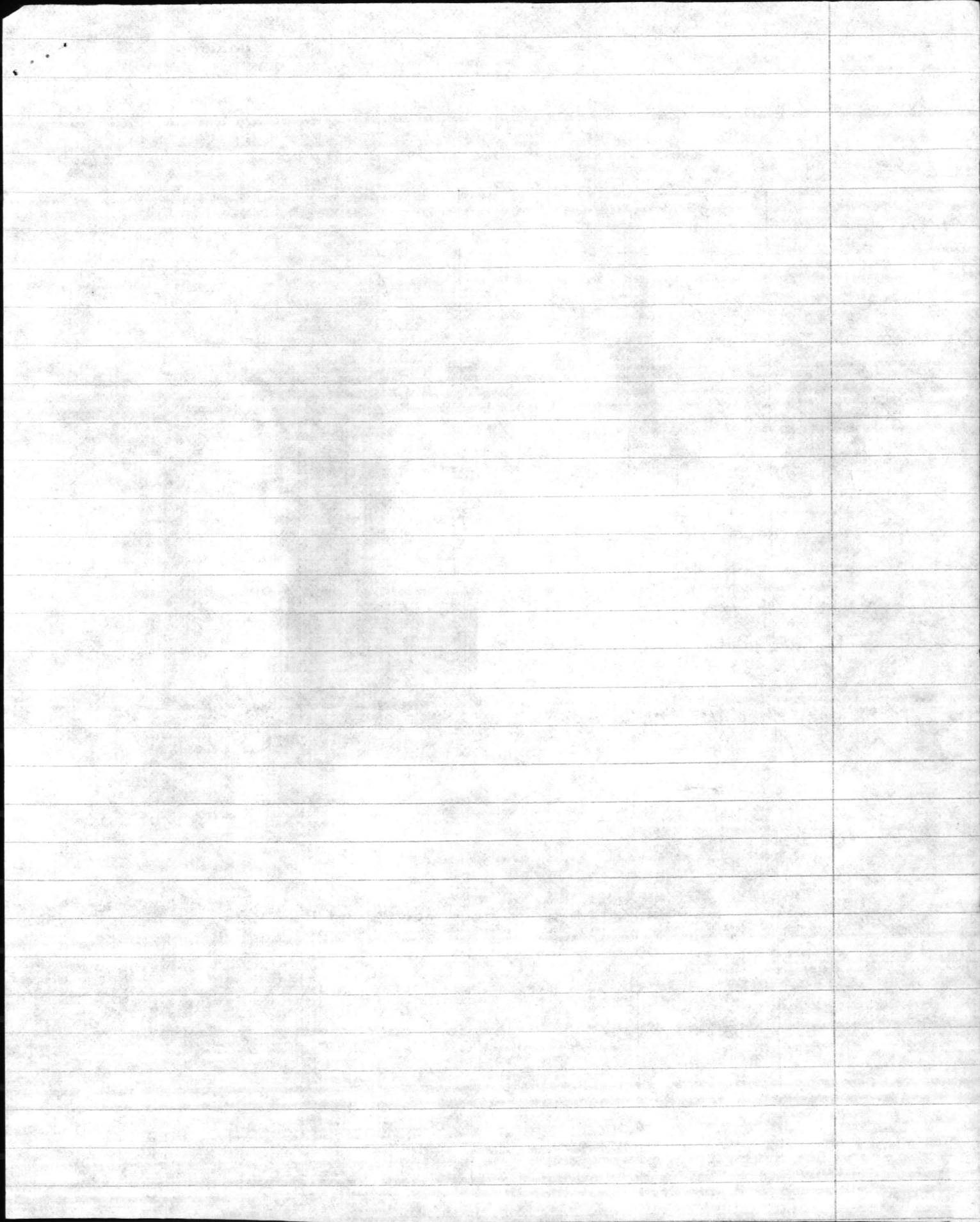
1	360	5	18
2	200	5	10
3	740	5	37
4	8	100	8
5	200	100	2
6	0	100	0
7	2	100	2
8	4	100	4
9	11	100	11

$$\begin{array}{r} 45.0 \\ 3.0 \\ 7.6 \\ 6.4 \end{array}$$

$$\begin{array}{r} 11 \\ 6.5 \\ 2.0 \\ 2.4 \\ 6.8 \end{array}$$

$$\begin{array}{r} 201 \\ 50 \\ 3 \end{array}$$

$$\begin{array}{r} 303 \\ CE \end{array}$$



Oct. 31 - 74

	Time	DO ₁	DO ₅	BOD	Temp.	Conductivity
1	0900	6.7	3.2	3.5	19	9200
2	0930	7.2	4.6	2.6	19	19500
3	0940	8.6	6.1	2.5	20	19500
4	0955	9.0	7.2	1.8	20	19500
5	1010	9.4	7.0	2.4	20	25,000
6	1030	8.0	6.5	1.5	21	32,000
7	1105	7.7	7.0	.7	21	35,000
8	1130	7.7	7.5	.2	21	40,000
9	1120	7.8	7.1	.7	22	37000

	ph	Focal
1	7.4	200
2	7.8	70
3	8.0	34
4	8.4	1
5	8.3	0
6	8.3	4
7	6.3	3
8	6.3	6
9	6.3	1

