

NREAD/EAB/th  
6200/2

JAN 25 1983

Regional Administrator  
Environmental Protection Agency  
Region IV, Water Enforcement Branch  
345 Courtland Street  
Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) Permit Number NC0003239, Discharge Monitoring Reports (DMRs) for the period September, October and November are submitted. The enclosed quarterly report was delayed due to computer problems Atlantic Division, Naval Facilities Engineering Command are having. As explained in a previous quarterly report dated 23 July 1982, the enclosed DMRs have been pen changed to reflect the data called for in the permit.

Hadnot Point Sewage Treatment Plant does not have the required 20 per month BOD samples for 1 September 1982 because of a laboratory problem shown by blank controls.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that are missing flow values had flows at the time of collection but it was not possible to determine the rate. Storm drains that have no values reported for the quarter were checked; however, each time they were checked, they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Natural Resources and Environmental Affairs Division, telephone (919) 451-5003/2083.

Sincerely,

J. T. MARSHALL  
Colonel, U. S. Marine Corps  
Assistant Chief of Staff, Facilities  
By direction of the Commanding General

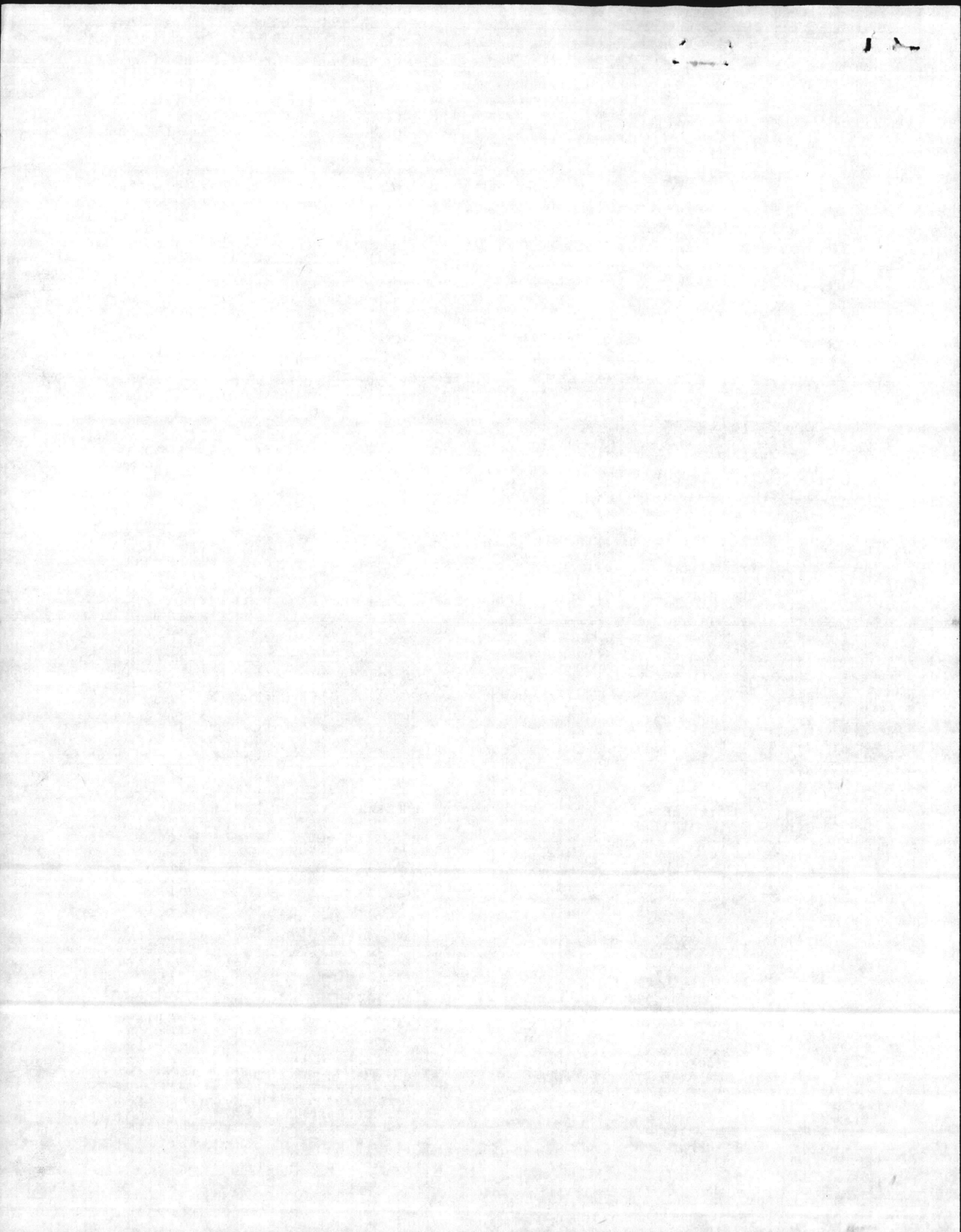
Encl:

- (1) DMRs for Sep, Oct & Nov 1982
- (2) NPDES Permit No. NC0003239 Discharge Violations

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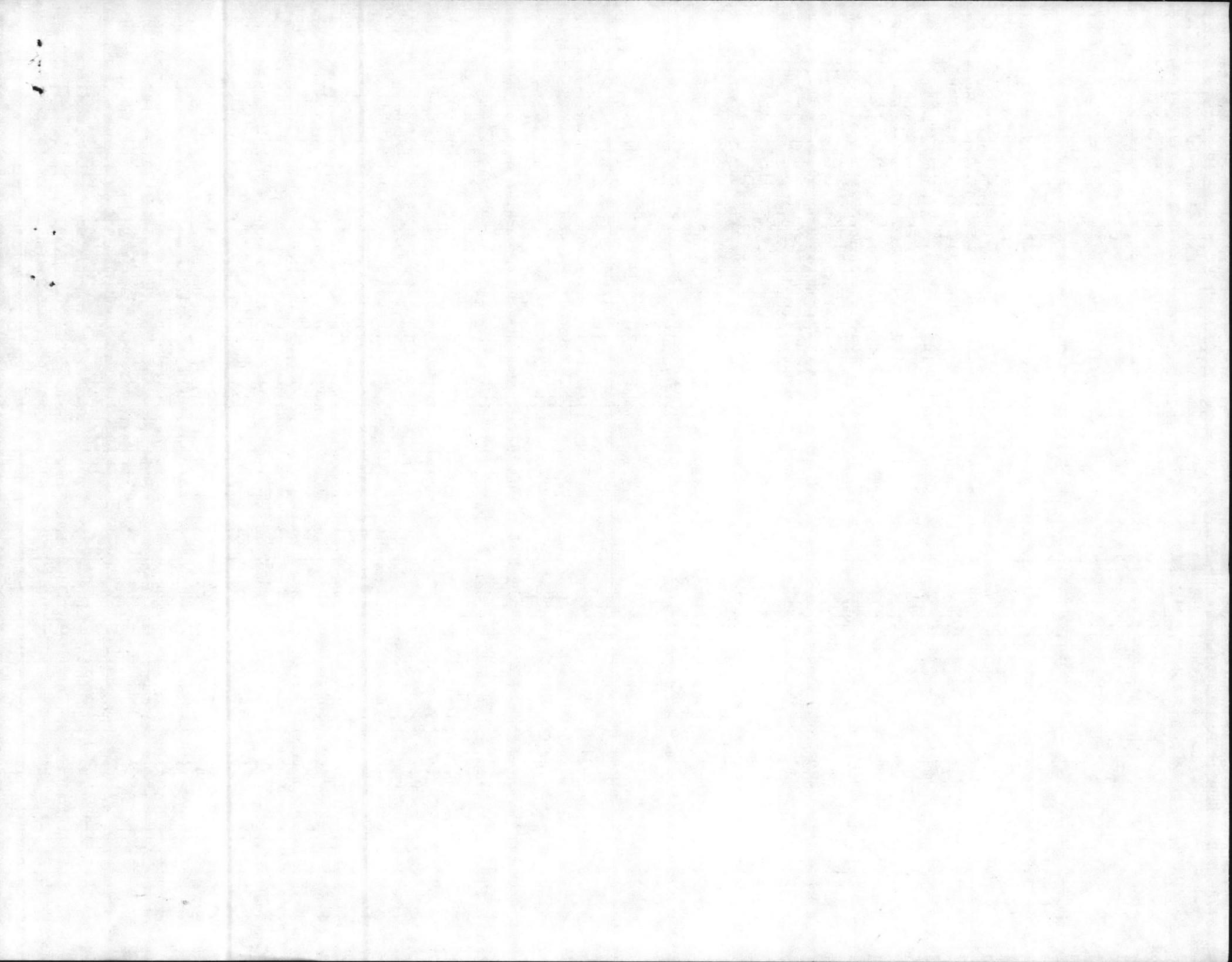
NC Dept of Nat & Eco Res  
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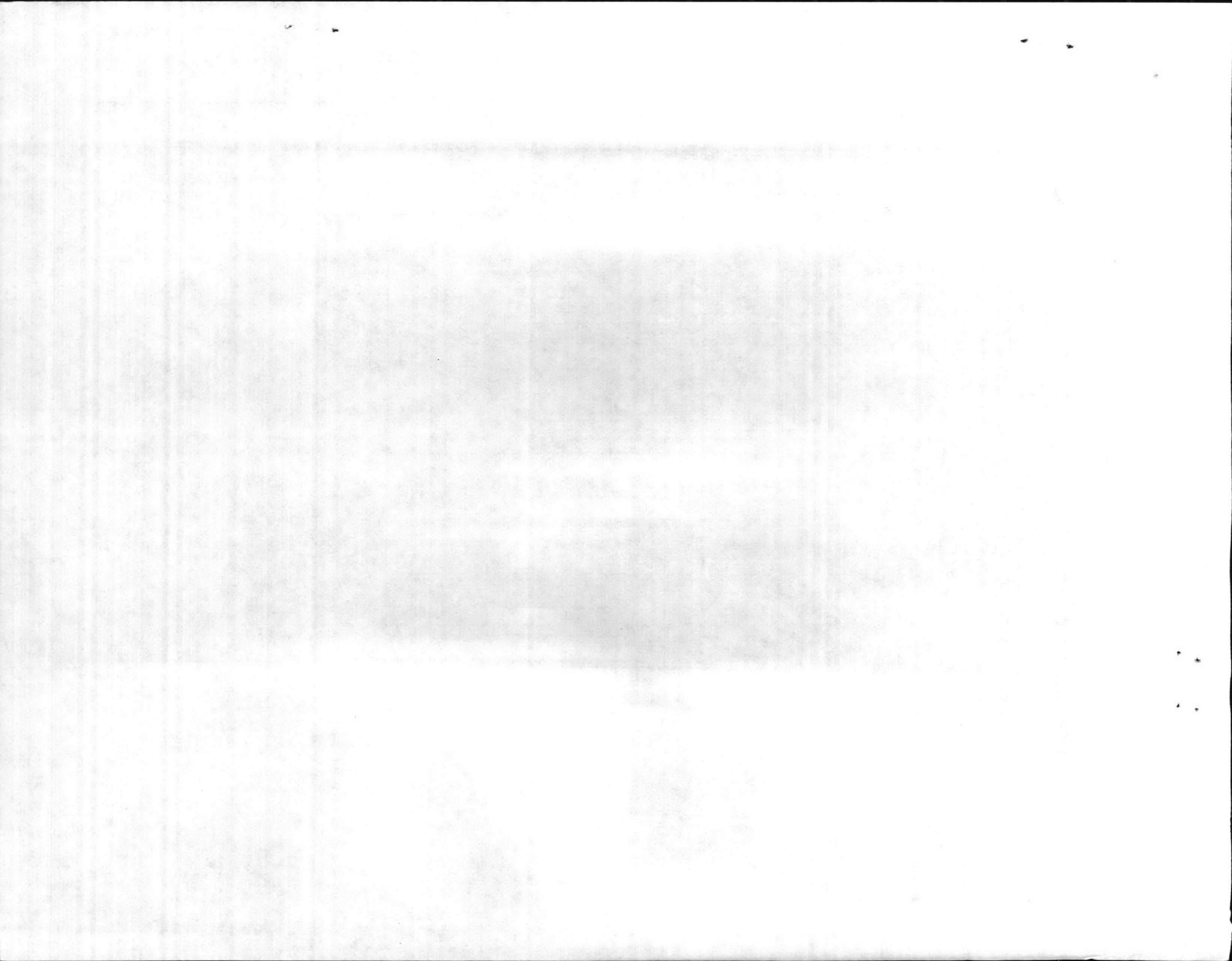
NPDES PERMIT NO. NC0003239 DISCHARGE VIOLATIONS FOR THE PERIOD SEPTEMBER, OCTOBER & NOVEMBER 1982

<u>Monitoring Station or Storm Drain No.</u>	<u>Parameter</u>	<u>Parameter Limits</u>	<u>Value</u>	<u>Date</u>
SD 47	pH	6.0-9.0	10.5	19 Oct 1982
SD 28	pH	6.0-9.0	9.2	30 Nov 1982
SD 31	pH	6.0-9.0	9.1	30 Nov 1982
SD 47	pH	6.0-9.0	11.2	18 Nov 1982
SD 62	SS	50 mg/l	57.0	16 Nov 1982



NPDES PERMIT NO. NC0003239 DISCHARGE VIOLATIONS FOR THE PERIOD SEPTEMBER OCTOBER, NOVEMBER 1982

<u>Monitoring Sta. or Storm Drain Number</u>	<u>Parameter</u>	<u>Parameter Limits</u>	<u>Value</u>	<u>Date</u>
SD 47	pH	6.0-9.0	10.5	19 OCTOBER 1982
SD 28	pH	6.0-9.0	9.2	30 NOVEMBER 1982
SD 31	pH	6.0-9.0	9.1	30 NOVEMBER 1982
SD 47	pH	6.0-9.0	11.2	18 NOVEMBER 1982
SD 62	SS	50 mg/L	57.0	16 NOVEMBER 1982



Date: 24 September 1982

Memorandum

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

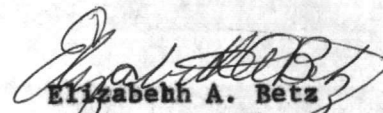
To: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

Subj: Storm Drain Violations for September 1982

1. Storm Drains 22-25, 27, 34, 35, 37-40, 48, 50, 55-69, 71-80, 84, and 85 were checked in September 1982. There were no violations. Below is a list of dry drains.

List of Dry Drains

SD	Last Collection Date
22	13 January 1981
23	14 October 1981
24	14 April 1982
25	14 April 1982
27	23 March 1982
34	9 March 1982
37	5 & 17 February 1981*
38	5 & 17 February 1981*
39	5 & 17 February 1981*
40	18 January 1982
50	24 August 1981
56	24 August 1981
58	28 May 1982
60	18 March 1981*
65	1 February 1982
66	2 March 1982
69	8 June 1982
71	23 February 1982
73	23 December 1981
75	23 November 1981
76	27 April 1981
77	27 April 1981
78	23 November 1981
79	13 August 1981
80	1979
84	23 February 1982
85	23 February 1982

  
Elizabeth A. Betz  
Supervisory Chemist

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DEPARTMENT OF THE NAVY  
*Memorandum*

DATE: 15 November 1982

FROM: Ms. Betz, Quality Control Lab, Environmental Branch, NREAD

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Branch, NREAD

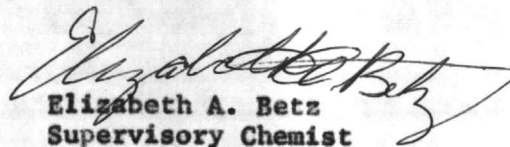
SUBJ: Storm Drain Violations for October 1982

1. Storm Drains 20-28, 30-33, 36, 37, 44, 46-57, 66, 89 & 90 were checked in October 1982. Below is a list of violations and a list of dry drains.

List of Violations						
SD	Location	Parameter	Limits	Value	Date	History
47	Hadnot Point-Behind Steam Plant	pH	6.0-9.0	10.5	19 Oct	pH 19 SS 5 OG 9

List of Dry Drains

SD	Last Collection Date
21	11 August 1982
22	13 January 1981
23	14 October 1981
24	14 April 1982
25	14 April 1982
27	23 March 1982
28	1 August 1982
31	4 August 1982
37	5 & 17 February 1981
50	24 August 1981
56	24 August 1981
66	2 March 1982
89	2 August 1982
90	2 August 1982

  
Elizabeth A. Betz  
Supervisory Chemist

Memorandum

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PLANT: CAMP GEIGER

MONTH: SEPTEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	3	5.3	27.27	3	3.67	19.76	2	0
5-11 SEP	3	5.67	33.27	4	3.75	20.98	3	0
12-18 SEP	4	10.0	49.82	4	3.0	15.02	3	0
19-25 SEP	4	6.75 <del>15.0</del>	40.27	4	1.75	10.35	3	1.26
26-30 SEP	1	8.0	59.52	3	3.67	28.83	3	0
MONTHLY	15/8	7.2	40.10	15/8	3.1	18.40	14/8	1.05

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	687,067	144.9	127.7	3.92	
MAXIMUM	1,032,000	184	267	4.1	6.6
MINIMUM	457,000	100	60	3.4	6.0

85%	% REMOVAL
BOD	95.0
TSS	97.6

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CHIEF JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	3.00	5	20	45	3004.2	30	2002.3	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONslow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: TARAWA TERRACE

MONTH: SEPTEMBER YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	3	14.3	92.98	3	8.33	53.37	2	1.41
5-11 SEP	3	11.67	67.66	4	8.5	49.40	3	0
12-18 SEP	4	16.5	118.61	4	8.5	70.68	3	1.26
19-25 SEP	4	13.0	99.58	4	9.5	76.49	3	0
26-30 SEP	1	14.0	218.11	3	6.33	98.42	3	0
MONTHLY	15/8	14.0	104.85	18/8	8.3	68.98	14/8	1.10

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	958,347	152.2	194.1	4.21	
MAXIMUM	1,872,000	500	1060	5.0	6.9
MINIMUM	555,500	70	53	3.3	6.3

85%	% REMOVAL
BOD	90.8
TSS	95.7

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



PLANT: CAMP JOHNSON

MONTH: SEPTEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	3	6.67	12.87	3	3.67	7.05	2	2.00
5-11 SEP	3	4.33	5.41	4	2.5	3.13	3	0
12-18 SEP	4	5.0	9.96	3	1.0	2.12	3	2.29
19-25 SEP	4	5.75	30.74	4	3.25	13.50	3	0
26-30 SEP	1	8.0	16.81	3	2.67	5.87	3	0
MONTHLY	15/8	5.6	15.63	17/8	2.6	6.57	14/8	1.32

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	273,333	133.7	117.8	5.7	
MAXIMUM	614,000	260	525	8.0	7.0
MINIMUM	98,000	76	37	1.0	6.0

	% REMOVAL
BOD	95.8
TSS	99.8

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	SS01/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	SS02/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	SS03/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	SS04/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	SS05/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	SS06/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ONSLow BEACH	SS07/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

1	100	100	100	100	100	100	100	100	100
2	100	100	100	100	100	100	100	100	100
3	100	100	100	100	100	100	100	100	100
4	100	100	100	100	100	100	100	100	100
5	100	100	100	100	100	100	100	100	100
6	100	100	100	100	100	100	100	100	100
7	100	100	100	100	100	100	100	100	100
8	100	100	100	100	100	100	100	100	100
9	100	100	100	100	100	100	100	100	100
10	100	100	100	100	100	100	100	100	100



PLANT: HADNOT POINT

MONTH: SEPTEMBER YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	3	7.67	356.43	3	6.0	282.84	2	2.45
5-11 SEP	4	10.25	443.62	5	7.2	310.52	3	13.08
12-18 SEP	5	12.0	527.46	5	6.4	276.13	3	8.71
19-25 SEP	5	13.8	623.79	5	8.4	378.47	2	48.78
26-30 SEP	2	13.0	605.73	4	9.5	462.29	3	8.24
MONTHLY	19/20	11.53	516.39	22/20	7.54	341.97	13/12	10.13

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	5299,367	121.7	96.7	4.41	
MAXIMUM	6,756,000	180	250	5.7	6.7
MINIMUM	3,201,000	78	54	3.3	6.3
85%	% REMOVAL				
BOD	90.6				
TSS	92.2				
	<del>99.2</del>				

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

The following table shows the results of the experiment. The data is presented in a table with columns for Time (min), Distance (m), and Velocity (m/s). The velocity is calculated as Distance divided by Time.

Time (min)	Distance (m)	Velocity (m/s)
10	10.5	1.05
20	21.0	1.05
30	31.5	1.05
40	42.0	1.05
50	52.5	1.05
60	63.0	1.05
70	73.5	1.05
80	84.0	1.05
90	94.5	1.05
100	105.0	1.05

The graph shows a linear relationship between Time and Distance, indicating constant velocity. The slope of the line is 1.05 m/s.

PLANT: RIFLE RANGE

MONTH: SEPTEMBER YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	1	2.0	3.75	1	1.0	1.88	1	0
5-11 SEP	1	2.0	3.83	2	1.5	2.74	1	0
12-18 SEP	2	3.0	5.88	2	1.5	3.00	2	154.21
19-25 SEP	2	4.5	9.87	2	1.5	3.37	2	0
26-30 SEP	1	5.0	10.64	2	1.0	2.12	2	0
MONTHLY	7/4	3.43	7.10	9/4	1.3	2.71	7/4	4.22

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	232,473	75.9	120.6	4.1	
MAXIMUM	290,300	235	400	4.8	6.8
MINIMUM	175,280	28	33	3.5	6.2

	% REMOVAL
BOD	95.5
TSS	98.9

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

1. The first part of the document is a list of names.

2. The second part is a list of dates.

3. The third part is a list of locations.

4. The fourth part is a list of events.

5. The fifth part is a list of people.

6. The sixth part is a list of organizations.

7. The seventh part is a list of activities.

8. The eighth part is a list of results.

9. The ninth part is a list of conclusions.

10. The tenth part is a list of recommendations.

11. The eleventh part is a list of references.

12. The twelfth part is a list of appendices.

13. The thirteenth part is a list of footnotes.

14. The fourteenth part is a list of indexes.

PLANT: COURTHOUSE BAY

MONTH: SEPTEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	1	6.0	16.66	1	5.0	13.88	1	2.00
5-11 SEP	1	4.0	9.59	2	4.5	11.43	2	1.41
12-18 SEP	2	6.0	<del>15</del> 16.00	2	2.0	5.33	2	5.29
19-25 SEP	2	15.5	52.99	2	6.5	23.07	2	11.88
26-30 SEP	1	10.0	26.85	2	5.0	14.04	2	0
MONTHLY	$\frac{7}{4}$	9.0	27.29	$\frac{9}{4}$	4.56	13.51	$\frac{9}{4}$	2.93

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	314,250	108.6	103.7	4.6	
MAXIMUM		225	203	6.0	7.0
MINIMUM		72	40	3.0	6.2

	% REMOVAL
BOD	91.7
TSS	95.6

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



PLANT: ON SLOW BEACH

MONTH: SEPTEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-4 SEP	1	7.0	5.81	1	1.0	0.83	1	0
5-11 SEP	1	4.0	3.21	2	2.5	2.10	2	2.83
12-18 SEP	2	7.0	5.98	2	2.0	1.68	2	2.45
19-25 SEP	2	7.5	6.72	2	4.0	3.57	2	39.60
26-30 SEP	1	11.0	10.50	2	1.0	0.94	2	16.73
MONTHLY	7/4	7.28	6.42	9/4	2.22	1.94	9/4	6.51

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	106,860	164.6	102.1	4.3	
MAXIMUM	129,680	300	210	5.5	7.0
MINIMUM	91,700	103	36	3.2	6.3

	% REMOVAL
BOD	95.6
TSS	97.8

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice.

2. In the second section, the author outlines the steps for reconciling bank statements with the company's ledger. This process involves comparing the opening and closing balances and identifying any discrepancies.

3. The third section covers the preparation of financial statements, including the balance sheet, income statement, and cash flow statement. It provides a detailed explanation of how each statement is derived from the accounting records.

4. Finally, the document concludes with a summary of the key points discussed and offers some practical advice for improving the efficiency of the accounting process.

100	200	300
400	500	600
700	800	900
1000	1100	1200



PLANT: CAMP GEIGER

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-2 Oct	1	9.0	66.50	1	7.0	51.72	0	0
3-9 Oct	4	12.0	95.54	4	3.0	24.72	3	1.59
10-16 Oct	4	7.75	50.33	4	6.0	38.04	3	0
17-23 Oct	2	15.5	94.97	4	5.75	36.42	3	0
24-30 Oct	4	11.0	75.86	4	4.5	32.56	3	0
MONTHLY	$\frac{15}{8}$	10.9	76.22	$\frac{17}{8}$	4.9	34.04	$\frac{12}{8}$	1.12

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	781,225	167.3	135.2	4.0	6.6
MAXIMUM	1,045,000	250	224	4.6	6.9
MINIMUM	628,000	112	75	4.0	6.4

85%	% REMOVAL
BOD	93.5
TSS	96.4

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: TARAWA TERRACE

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-2 OCT	1	15.0	111.34	1	7.0	51.96	0	0
3-9 OCT	4	15.75	110.54	4	7.0	49.21	3	2.88
10-16 OCT	4	14.25	100.68	4	8.25	58.19	3	2.00
17-23 OCT	2	18.5	128.11	4	5.5	39.0	3	0
24-30 OCT	3	15.67	87.48	4	3.75	21.10	3	0
MONTHLY	14/8	15.6	105.35	17/8	6.2	42.47	12/8	1.55

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	802,516	235.9	213.8	4.2	6.6
MAXIMUM	980,000	660	613	5.0	6.8
MINIMUM	613,000	115	40	3.9	6.2
85%	% REMOVAL				
BOD	93.4				
TSS	97.1				

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: CAMP JOHNSON

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-2 OCT	1	9.0	22.29	1	4.0	9.91	0	0
3-9 OCT	4	7.75	17.55	4	2.25	4.95	3	0
10-16 OCT	4	7.25	24.74	4	2.25	7.39	3	0
17-23 OCT	2	9.5	24.94	4	2.0	5.21	3	1.82
24-30 OCT	4	8.5	20.88	4	2.0	4.93	2	0
MONTHLY	15/8	8.13	21.64	17/8	2.2	5.87	11/8	1.18

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	305,871	145.3	133.6	4.6	6.7
MAXIMUM	540,000	220	400	7.3	6.9
MINIMUM	127,000	65	19	3.3	6.3

85%	% Removal
BOD	94.4
TSS	98.4

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: HADNOT POINT

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-2 OCT	1	14	633.66	1	10	452.61	0	0
3-9 OCT	5	17.2	765.49	5	9.2	413.18	3	7.65
10-16 OCT	5	14.4	658.87	5	5.8	262.67	3	4.16
17-23 OCT	3	15.67	706.46	5	2.8	130.56	3	1.59
24-30 OCT	5	16.2	801.06	5	6.8	329.91	3	2.52
31 OCT	1	16.0	683.88	1	6.0	256.46	0	0
MONTHLY	20/20	15.8	728.20	22/20	6.32	290.48	12/12	3.36

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	5,540,065 5,724,733	132.8	85.9	4.87	
MAXIMUM	6,949,000	193	134	6.0	6.8
MINIMUM	4,493,000	100	20	3.5	6.3

85%	% REMOVAL
BOD	88.1
TSS	92.7

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
<del>HADNOT POINT</del>	<del>5504/14</del>	<del>8.00</del>	<del>5</del>	<del>20</del>	<del>45</del>	<del>3004.2</del>	<del>30</del>	<del>2002.8</del>	<del>3</del>	<del>12</del>		<del>70(T)</del>
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	195.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

Date	Description	Amount
1912	...	...
1913	...	...
1914	...	...
1915	...	...
1916	...	...



PLANT: RIFLE RANGE

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
3-9 OCT	2	4.5	9.06	2	1.5	3.03	2	0
10-16 OCT	2	3.0	5.51	2	2.5	4.28	2	0
17-23 OCT	1	5.0	9.38	2	1.5	2.90	2	0
24-30 OCT	2	4.0	7.48	2	2.0	3.16	2	0
MONTHLY	$\frac{7}{4}$	4.0	7.64	$\frac{8}{4}$	1.9	3.34	$\frac{8}{4}$	0.0

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	222450	102.3	189	4.0	6.5
MAXIMUM	293970	143	378	4.5	6.8
MINIMUM	154420	35	93	3.5	6.0

85%	% REMOVAL
BOD	96.1
TSS	98.9

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: COURTHOUSE BAY

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
8-9 Oct	2	9.5	29.69	2	7.0	21.90	2	3.46
10-16 Oct	2	9.5	27.42	2	6.0	17.45	2	4.24
17-23 Oct	1	14.0	42.20	2	12.0	35.87	2	2.00
24-30 Oct	2	11.0	34.92	2	3.0	9.55	2	3.16
MONTHLY	7/4	10.6	32.32	8/4	7.0	21.20	8/4	3.10

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	353,613	117.4	118.4	5.4	6.7
MAXIMUM	452,000	240	177	6.0	7.2
MINIMUM	305,400	78	60	1.0	6.0

85%	% REMOVAL
BOD	91.0
TSS	94.1

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: ONSLow BEACH

MONTH: OCTOBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
3-9 OCT	2	7.5	6.53	2	2.0	1.75	2	0
10-16 OCT	2	11.5	9.64	2	1.5	1.26	2	4.0
17-23 OCT	1	7.0	6.02	2	1.0	0.86	2	2.83
24-30 OCT	2	6.0	4.91	2	1.0	0.82	2	0
MONTHLY	7/4	8.1	6.88	8/4	1.4	1.17	8/4	1.83

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	PH
AVERAGE	102,724	128	78.6	4.6	6.5
MAXIMUM	113,200	217	140	6.5	7.0
MINIMUM	92,900	58	15	3.5	6.0

85%	% REMOVAL
BOD	93.7
TSS	98.2

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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PLANT: CAMP GEIGER

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	4	16.0	161.14	4	2.5	25.09	2	0
7-13	4	7.25	62.28	4	2.75	23.25	3	0
14-20	4	12.0	106.67	4	3.75	32.22	3	0
21-27	3	10.67	97.63	4	6.25	56.56	3	0
28-30	1	10.0	108.59	1	6.0	65.15	1	0
MONTHLY	16/8	11.44	107.62	17/8	3.94	36.10	12/8	0

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	1,095,233	175.8	173.3	4.0	
MAXIMUM	1,355,000	310	490	4.3	6.9
MINIMUM	883,000	84	36	3.9	6.5

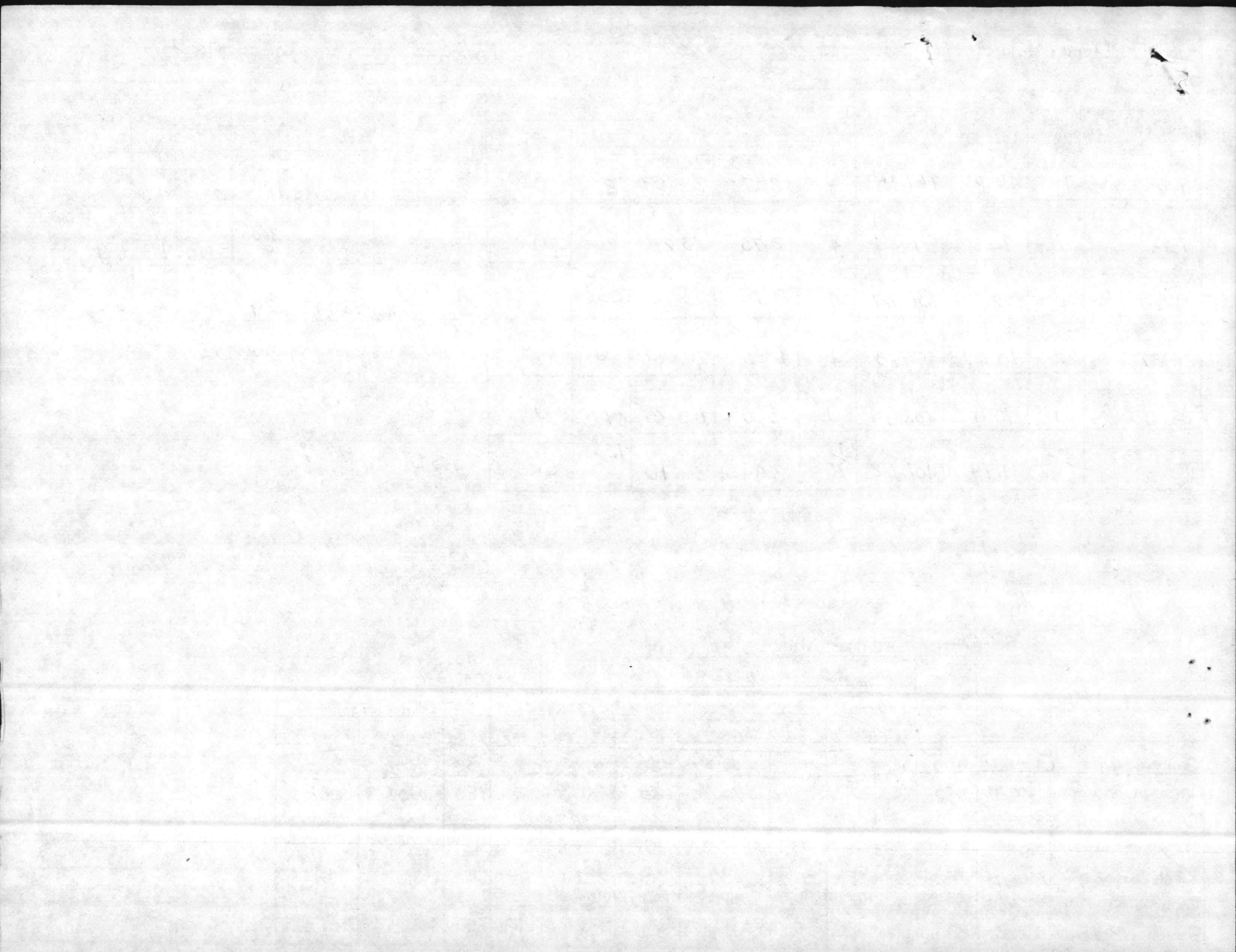
% REMOVAL

BOD 93.5

TSS 97.7

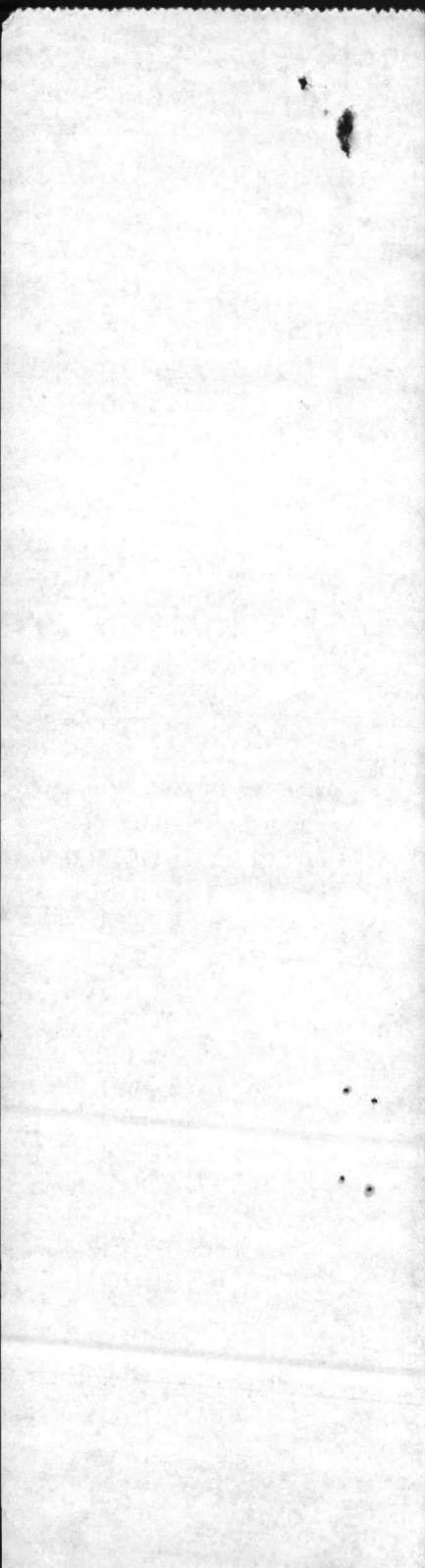
PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)





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PLANT: TARAWA TERRACE

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	4	16.75	94.66	4	6.75	38.63	2	2.00
7-13	4	16.00	89.55	4	6.25	32.45	2	0
14-20	4	19.25	104.06	4	6.75	36.94	3	0
21-27	3	17.67	101.69	4	5.25	31.23	3	0
28-30	1	15.0	76.34	1	14.0	71.25	1	0
MONTHLY	$\frac{16}{8}$	17.25	95.91	$\frac{17}{8}$	6.71	36.95	$\frac{11}{8}$	1.13

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	652,100	171.6	102.4	4.15	
MAXIMUM	749,000	224	160	5.0	7.0
MINIMUM	355,500	93	45	4.0	6.6

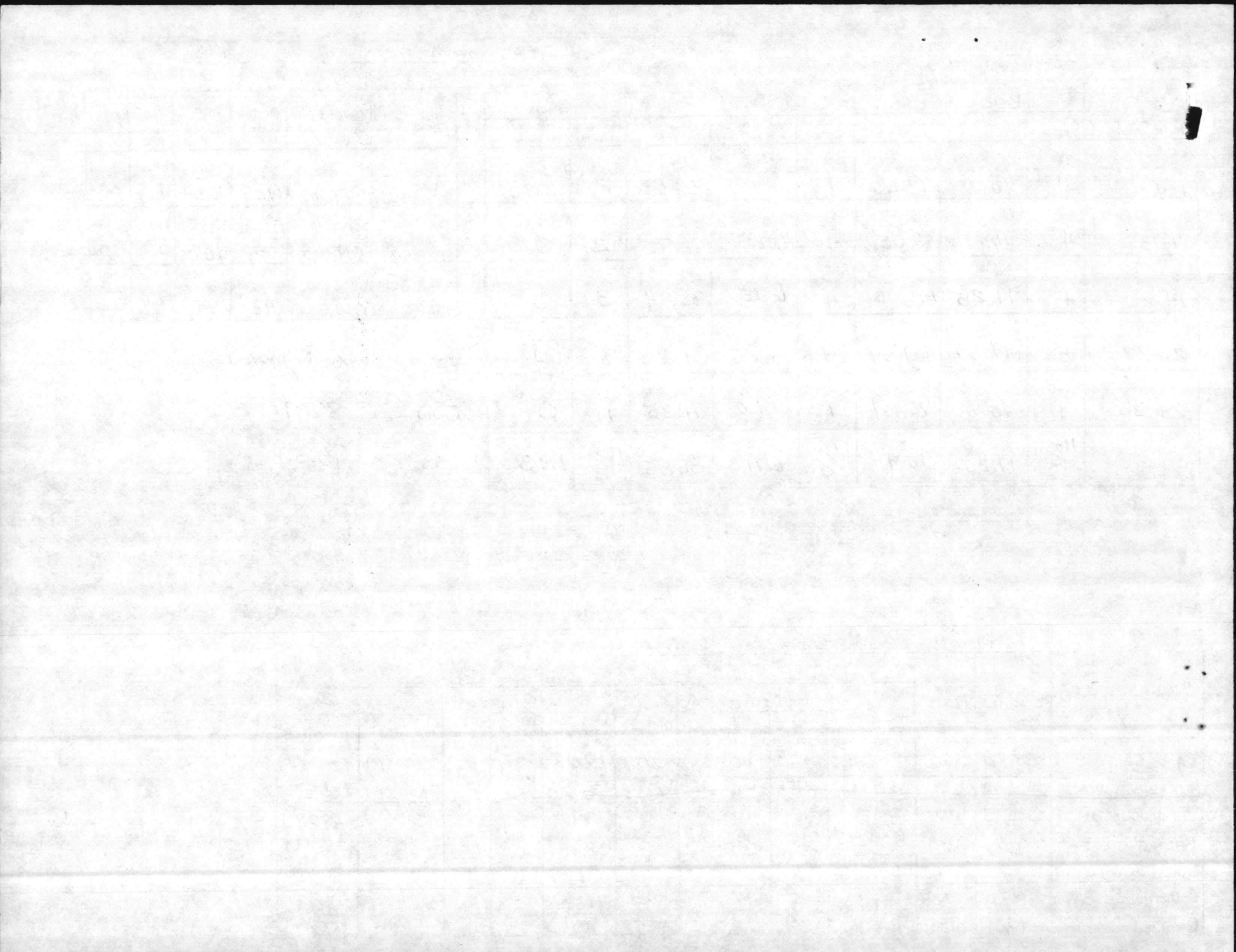
% REMOVAL

BOD 89.9

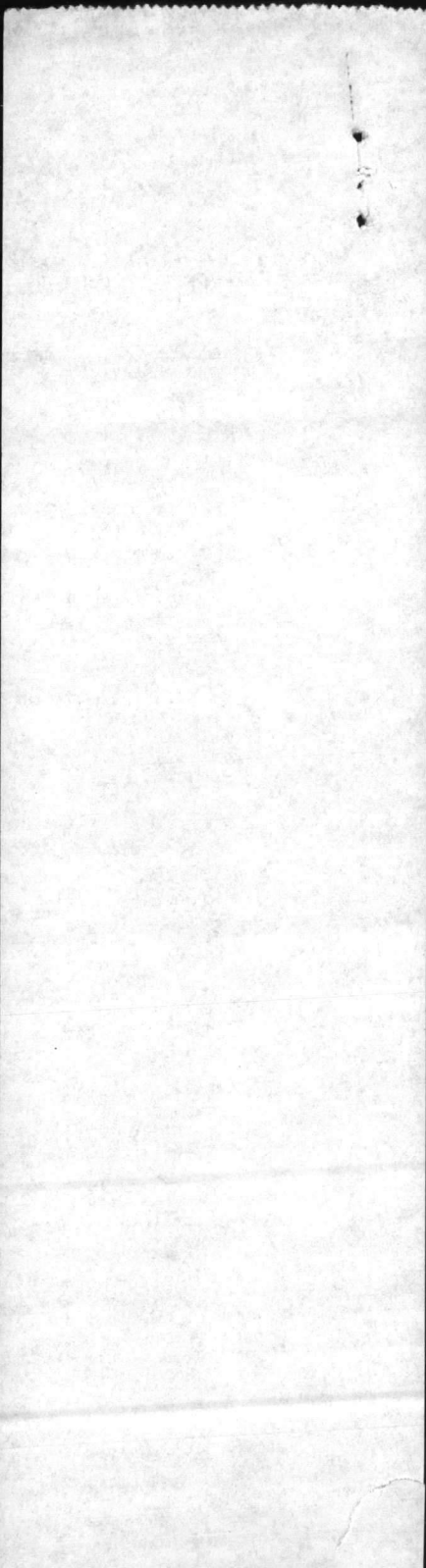
TSS 93.5

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



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977000	+
980000	+
983000	+
986000	+
989000	+
992000	+
995000	+
998000	+
1000000	+



PLANT: CAMP JOHNSON

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	4	9.5	40.04	4	3.5	14.89	2	0
7-13	4	12.75	33.56	4	3.5	9.18	3	0
14-20	4	11.25	17.21	4	1.75	2.68	3	0
21-27	3	9.0	15.68	4	3.75	6.18	3	0
28-30	1	8.0	29.56	1	6.0	22.17	1	0
MONTHLY	16/8	10.56	27.49	17/8	3.29	9.05	12/8	0

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	PH
AVERAGE	3097,000	159.8	100.4	4.2	
MAXIMUM	699,000 <del>730,000</del>	300 <del>235</del>	257	8.0	7.0
MINIMUM	130,000	88	37	0.0	6.0

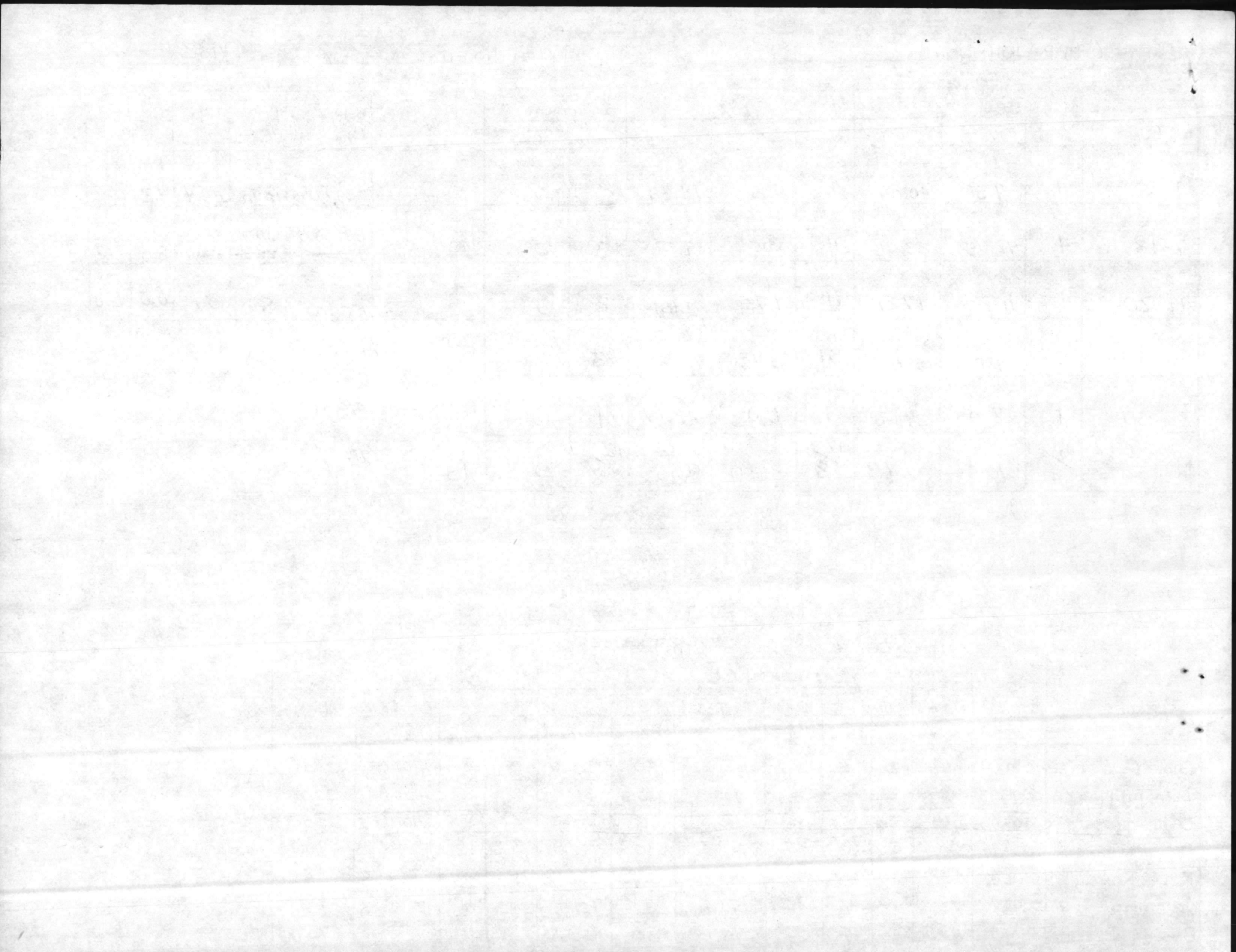
% REMOVAL

BOD 93.4

TSS 96.7

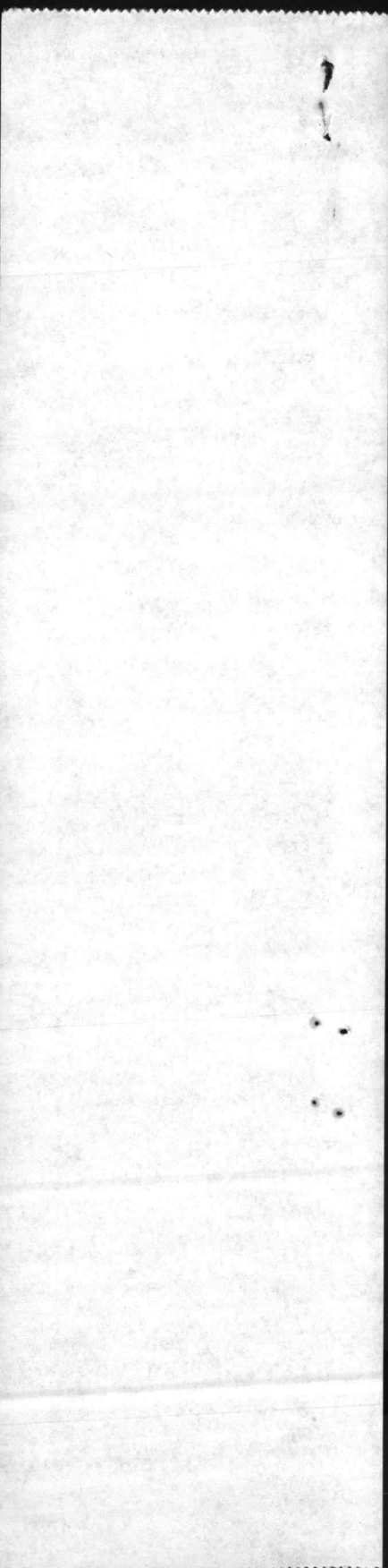
PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)





250000 +  
1999000 +  
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209700 +



PLANT: HADNOT POINT

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	4	14.0	667.33	4	6.5	309.09	3	2.88
7-13	5	14.2	578.81	5	4.6	188.88	2	1.52
14-20	5	27.8	1213.41	5	12.2	530.72	3	47.03
21-27	4	24.25	999.52	5	14.4	609.09	3	81.43
28-30	2	24.5	1062.72	2	17.5	749.80	1	620
MONTHLY	20/20	20.6	887.70	21/20	10.3	446.64	12/12	20.83

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	5,197,733	143.1	102.1	4.8	
MAXIMUM	5,827,000	190	146	6.0	7.0
MINIMUM	4,365,000	103	70	4.0	6.4

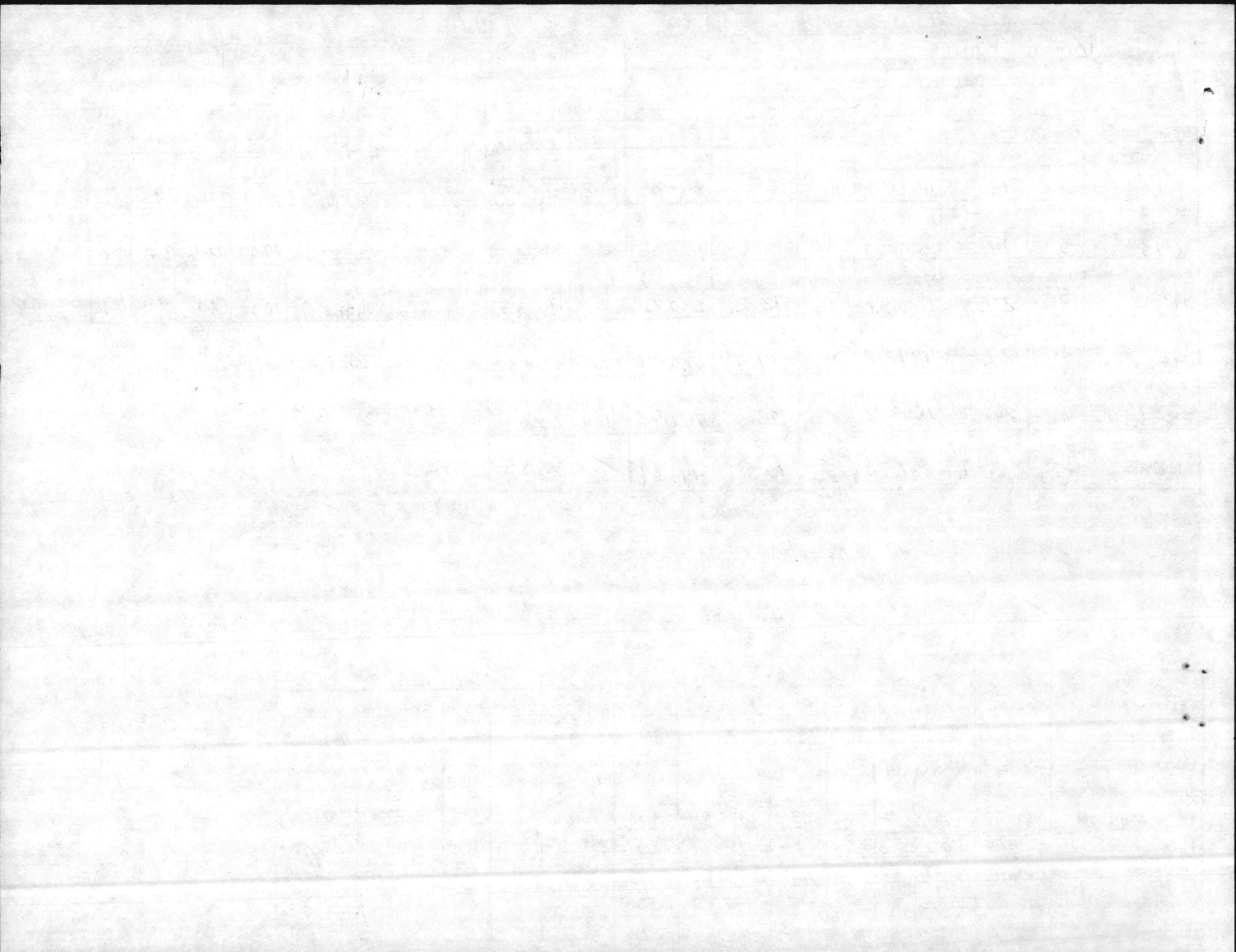
% REMOVAL

BOD 85.6

TSS 89.9

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	198.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



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4652000 +

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PLANT: RIFLE RANGE

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	1	4.0	7.70	1	6.0	11.55	1	0
7-13	2	3.0	5.83	2	2.5	4.93	2	0
14-20	2	5.0	10.60	2	3.0	5.75	2	0
21-27	1	4.0	8.20	2	2.5	5.08	2	2.00
28-30	1	2.0	3.94	1	2.0	3.94	1	2.00
MONTHLY	6/4	3.5	7.02	8/4	3.0	5.88	8/4	1.30

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	221,826	55.7	125.9	4.3	
MAXIMUM	254,180	88	217	5.5	6.7
MINIMUM	161,780	18	65	3.7	6.0

% REMOVAL

BOD 93.7

TSS 97.6

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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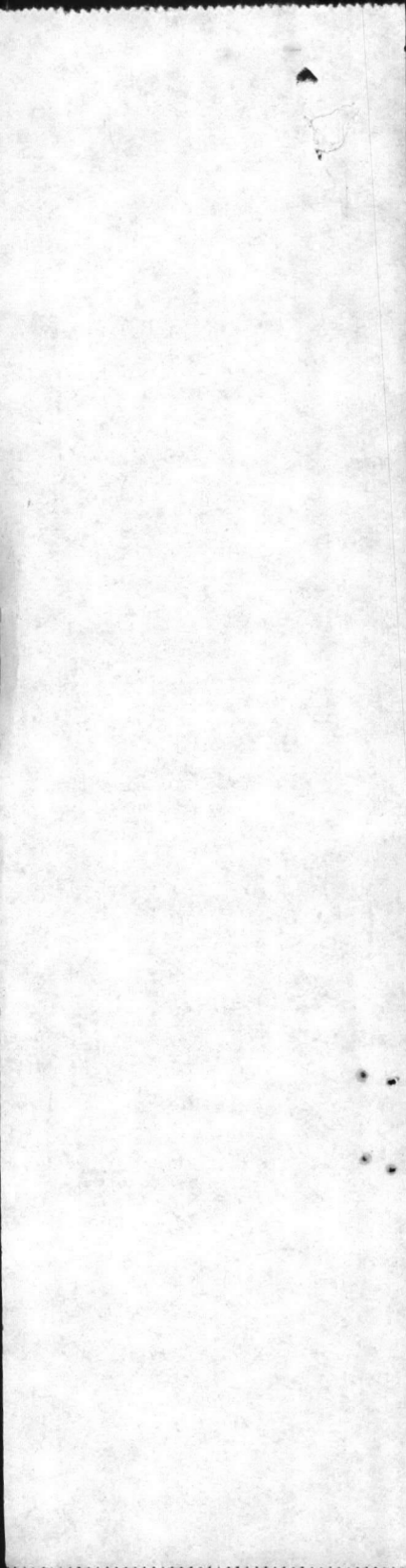
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PLANT: COURTHOUSE BAY

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	2	10.0	25.98	2	5.5	14.11	2	0
7-13	2	7.0	17.39	2	2.5	6.21	2	4.0
14-20	2	10.0	<del>10.36</del> 20.68	2	7.5	<del>6.16</del> 15.54	2	0
21-27	1	12.0	24.16	2	11.5	23.78	1	20
28-30	1	9.0	27.77	1	12.0	37.03	1	18
MONTHLY	8/4	9.9	22.50	9/4	7.3	17.37	8/4	29.5

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	279,263	160.4	193	4.7	
MAXIMUM	370,000	220	585	6.5	7.0
MINIMUM	139,600	104	90	4.0	6.6

% REMOVAL

BOD 91.2

TSS 96.4

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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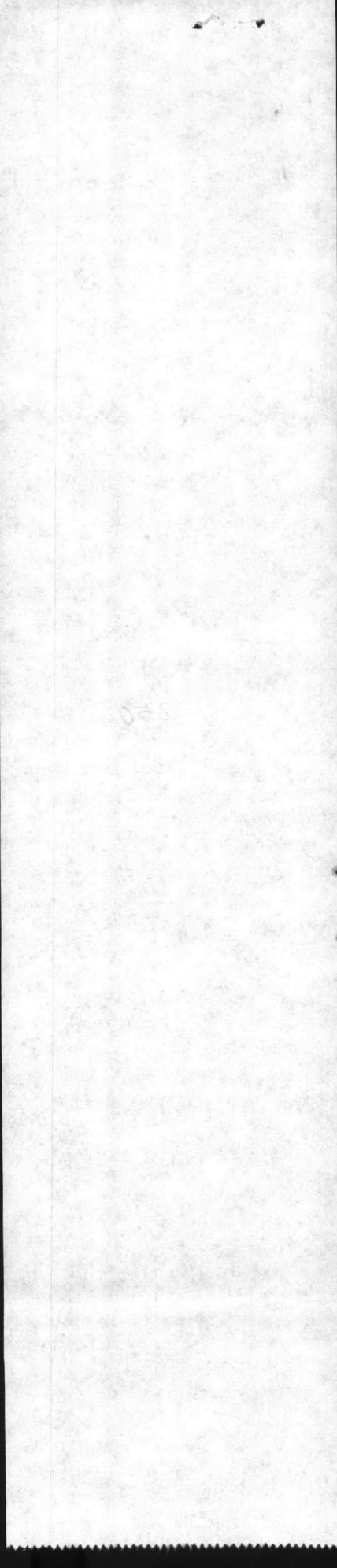
1988

1989

1990

1991

250



PLANT: ONslow BEACH

MONTH: NOVEMBER

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-6	2	8.0	6.87	2	2.5	2.16	2	2.00
7-13	2	7.0	5.60	2	1.0	0.79	2	0
14-20	2	8.0	6.19	2	1.5	1.16	2	0
21-27	1	6.0	4.61	2	3.0	2.32	1	0
28-30	1	20.0	12.74	1	7.0	4.46	1	0
MONTHLY	8/4	9.0	6.84	9/4	2.54	1.92	8/4	1.19

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	95,958	140.6	205.9	4.2	
MAXIMUM	120,700	220	603	5.4	6.9
MINIMUM	76,380	72	68	2.8	6.2

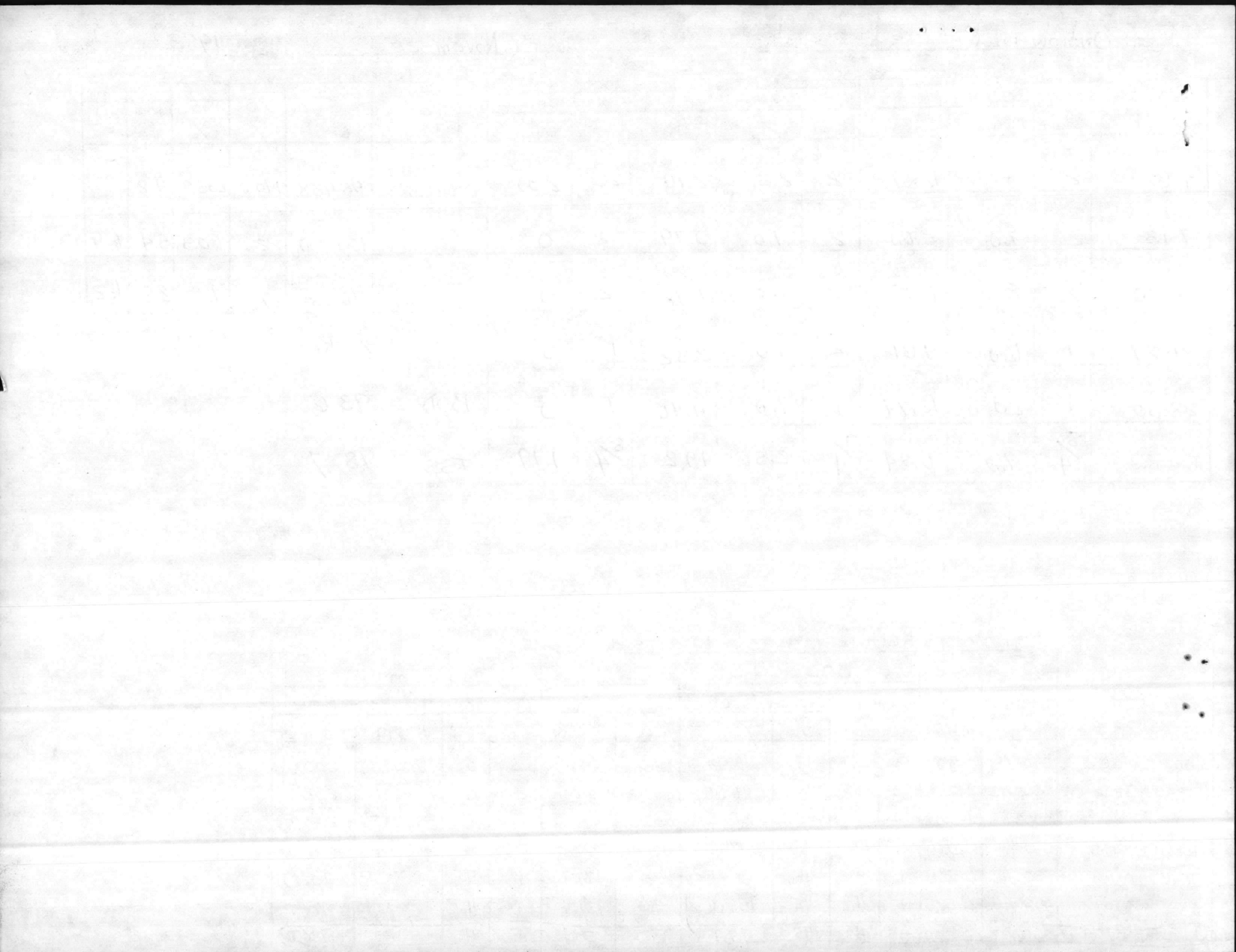
% REMOVAL

BOD 93.6

TSS 98.7

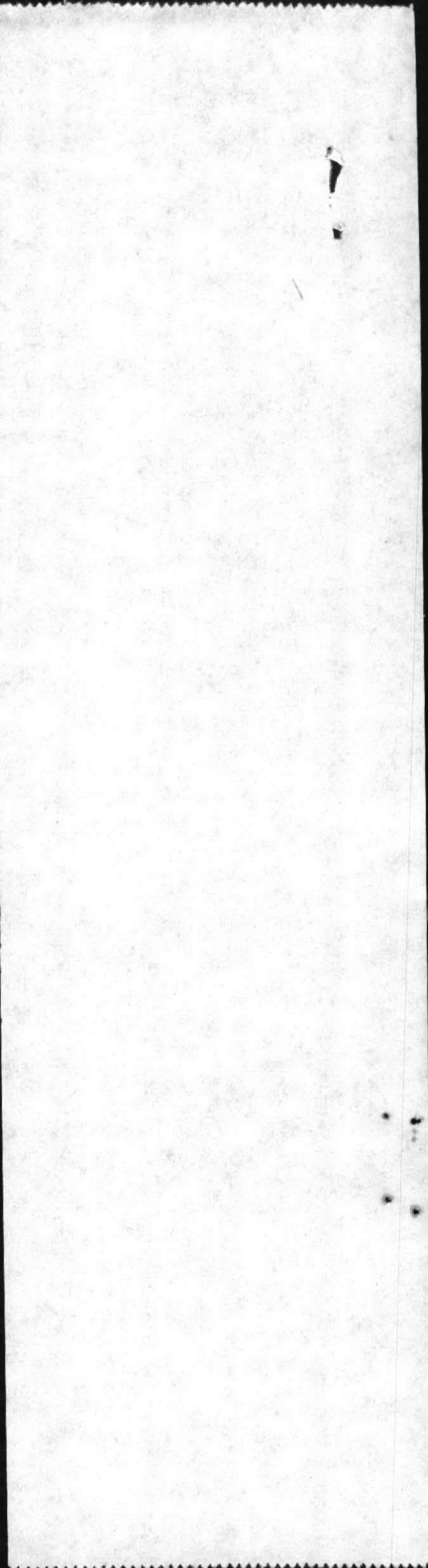
PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONslow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)









DATE: 21 JANUARY 1983

FROM: Ms. BETZ, QUALITY CONTROL LAB, ENVIR BR, NREAD

TO: MR. SHARPE, SUPERVISORY ECOLOGIST, ENVIR BR, NREAD

SUBJ: STORM DRAIN VIOLATIONS FOR NOVEMBER 1982

1. STORM DRAINS 21-25, 27, 28, 31, 36-38, 42, 43, 45-50, 56, 58-62, 65, 66, 89 AND 90 WERE CHECKED IN NOVEMBER 1982. BELOW IS A LIST OF VIOLATIONS AND A LIST OF DRY DRAINS.

LIST OF VIOLATIONS

<u>SD</u>	<u>LOCATION</u>	<u>PARAMETER</u>	<u>LIMITS</u>	<u>VALUE</u>	<u>DATE</u>	<u>HISTORY</u>
28	TT- BY ST-32	pH	6.0-9.0	9.2	30 Nov	pH 4 552 000
31	HOLCOMB BLVD BY GATE	pH	6.0-9.0	9.1	30 Nov	pH 6 550 061
47	HP- LOUIS ROAD	pH	6.0-9.0	11.2	18 Nov	pH 19 555 069
62	<sup>MAIN</sup> <del>COOPER</del> SERVICE RD	SS	50 mg/L	57.0	16 Nov	pH 0 552 062

LIST OF DRY DRAINS

<u>SD</u>	<u>LAST COLLECTION DATE</u>
21	11 AUGUST 1982
22	13 JANUARY 1981
23	13 JANUARY 1981 <del>14 OCTOBER 19</del>
24	14 APRIL 1982
27	23 MARCH 1982
37	5+17 FEBRUARY 1981
38	5+17 FEBRUARY 1981
50	24 AUGUST 1981
56	24 AUGUST 1981
58	23 MAY 1981
60	18 MARCH 1981
65	1 FEBRUARY 1982 <del>22 DECEMBER 19</del>
66	2 MARCH 1982
89	2 AUGUST 1982

*Elizabeth Betz*



NREAD/EAB/th  
6280/2

OCT 28 1982

Regional Administrator  
Environmental Protection Agency  
Region IV, Water Enforcement Branch  
345 Courtland Street  
Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit number NCO003239, discharge monitoring reports (DMRs) for the period June, July and August 1982 are submitted. Mr. Art Linton of your agency was advised on 30 September 1982 that the enclosed quarterly report would be delayed due to computer problems Atlantic Division, Naval Facilities Engineering Command were having in printing the DMRs. Also, as explained in the previous quarterly report dated 23 July 1982, the enclosed DMRs have been pen changed to reflect the data called for in the permit.

Camp Johnson Sewage Treatment Plant is missing one of the required two per week fecal coliform samples for the week of 13-19 June 1982, due to operator error. Hadnot Point Sewage Treatment Plant does not have the required five per week BOD samples for the weeks 6-12 and 20-26 June, 18-24 July and 8-21 August 1982 because of a laboratory problem shown by blank controls. Corrective action has been taken which appears to have eliminated the problem.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked, however, each time they were checked, they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further pertinent details on any of the above, you may contact Mr. Julián Hooten, Natural Resources and Environmental Affairs Division, telephone (919) 451-5003/2083.

Sincerely,

J. T. MARSHALL  
Colonel, U. S. Marine Corps  
Assistant Chief of Staff, Facilities  
By direction of the Commanding General

Enclosures

Copy to:  
NC Dept of Nat & Eco Res  
CMDR, LANTNAVFACENCOM (Code 114)

BCC:  
Dir Util(BMainD)  
OCL (NREAD)

1920

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
CHICAGO, ILLINOIS

REPORT OF THE  
COMMISSIONERS OF THE  
SCHOOL OF CHEMISTRY  
FOR THE YEAR 1920

CHICAGO, ILLINOIS  
1921

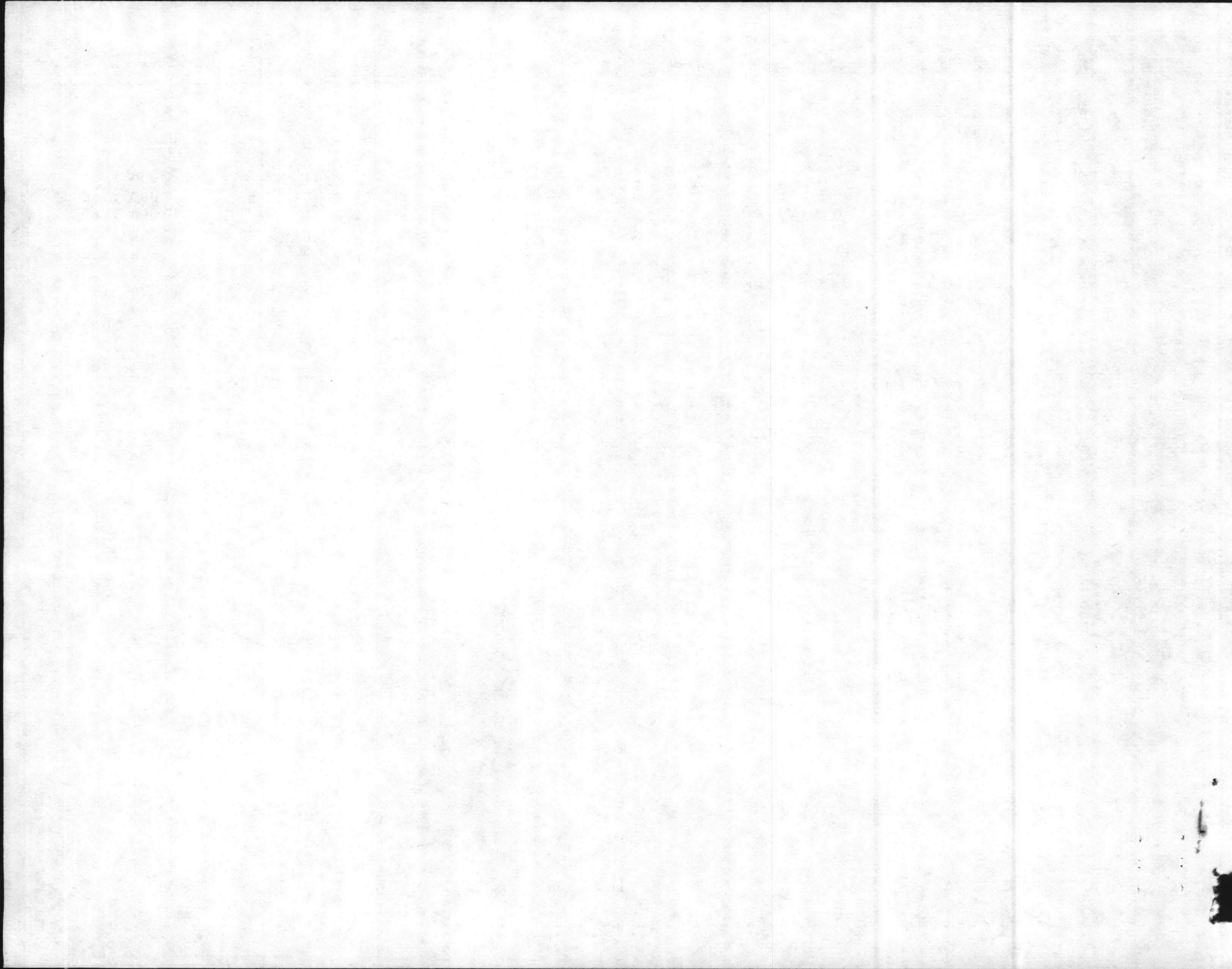
PRINTED BY THE UNIVERSITY OF CHICAGO PRESS

1921

CHICAGO, ILLINOIS

NPDES PERMIT NO. NC0003239 DISCHARGE VIOLATIONS FOR THE PERIOD June, July and August 1982

<u>Monitoring Station or Storm Drain No.</u>	<u>Parameter</u>	<u>Parameter Limits</u>	<u>Value</u>	<u>Date</u>
SD 43	O&G	15 mg/l	27.1	8 Jun 1982
SD 43	SS	50 mg/l	90.0	8 Jun 1982
SD 47	pH	6.0-9.0	9.5	8 Jun 1982
SD 47	O&G	15 mg/l	20.2	8 Jun 1982
SD 47	SS	50 mg/l	91.3	8 Jun 1982
SD 42	SS	50 mg/l	220	20 Jul 1982
SD 47	pH	6.0-9.0	10.1	20 Jul 1982
SD 22	SS	50 mg/l	100	11 Aug 1982
SD 30	pH	6.0-9.0	5.7	4 Aug 1982
SD 31	pH	6.0-9.0	9.2	4 Aug 1982
SD 90	pH	6.0-9.0	5.7	2 Aug 1982





NREA/eab

Regional Administrator  
Environmental Protection Agency  
Region IV, Water Enforcement Branch  
345 Courtland Street  
Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System permit number NC0003239, discharge monitoring reports for the period June, July and August 1982 are submitted. This quarterly report was delayed due to the late return of July and August 1982 DMRs from Atlantic Division, Naval Facilities Engineering Command which prints the DMRs.

Paragraph 1, of effluent limitation and monitoring requirements for each outfall, under Part I of the NPDES permit number NC0003239 for Marine Corps Base, Camp Lejeune, requires weekly averages to be calculated for compliance of weekly average limits stated for the Biochemical Oxygen Demand (BOD), Suspended Solids and Fecal Coliform parameters. Paragraph 2, requires that the monthly percent removal of BODs and suspended solids shall be calculated by comparing monthly average influent to monthly average effluent. The enclosed DMRs, generated by Atlantic Division, Naval Facilities Engineering Command, computed the maximum weekly values for compliance with weekly average limits, and also computed the average of the daily percent removals as the monthly percent removal. The enclosed DMRs have been pen changed to reflect the data called for in the permit.

Camp Johnson Sewage treatment plant is missing one out of the required two per week fecal coliform samples for the week of 13-19 June 1982, due to operator error. Hadnot Point sewage treatment plant does not have the required five per week BOD samples for the weeks 6-12, & 20-26 June, 18-24 July and 8-21 August 1982 because of a laboratory problem. This caused Hadnot Point to only have 17 BOD samples in June and 19 in August out of the required 20 samples/month. The problem shown by the blank controls is the



dilution water, used in the BOD analysis, that from time to time during the last four months has been unacceptable. Initially, the unsatisfactory dilution water was attributed to a bad demineralizer cartridge on the distiller used to produce the distilled water. The continued problem and further probing has shown that a new demineralizer requires a period of use before it provides satisfactory water. The laboratory is presently working out a schedule to avoid the use of water from too old or new demineralizer cartridges, so as to reduce the number of BOD samples lost.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drains monitoring points that have been previously provided to your agency. Storm drains that have not values reported for the quarter were checked, however, each time they were checked, they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Natural Resources and Environmental Affairs, Telephone (919)451-5003/2083.

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NPDES PERMIT NO. NC0003239 DISCHARGE VIOLATIONS FOR THE PERIOD

~~JUNE, JULY, AUGUST 1982~~

Monitoring Sta.  
or Storm Drain  
Number

Parameter

Parameter  
Limits

Value

Date

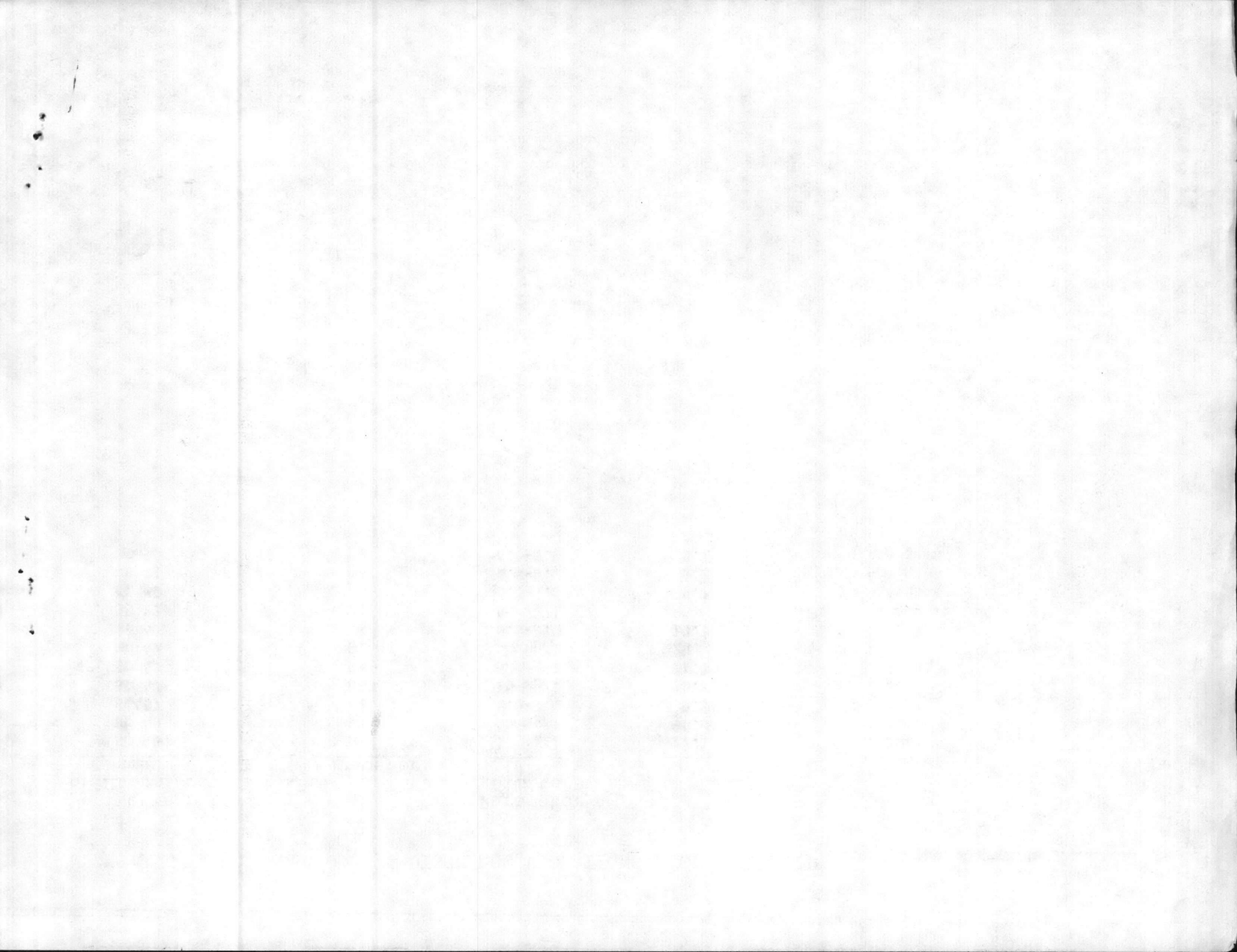
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O&G  
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27.1  
90.0  
9.5  
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91.3  
220  
10.1  
100  
5.7  
9.2  
5.7

8 June  
8 June  
8 June  
8 June  
8 June  
20 July  
20 July  
11 August  
4 August  
4 August  
2 August



Date: 23 June 1982

Memorandum

From: Ms. Betz, Quality Control Lab, Environmental Section, NREAB, BMaintDiv

To: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

Subj: Storm Drains Violations for June 1982

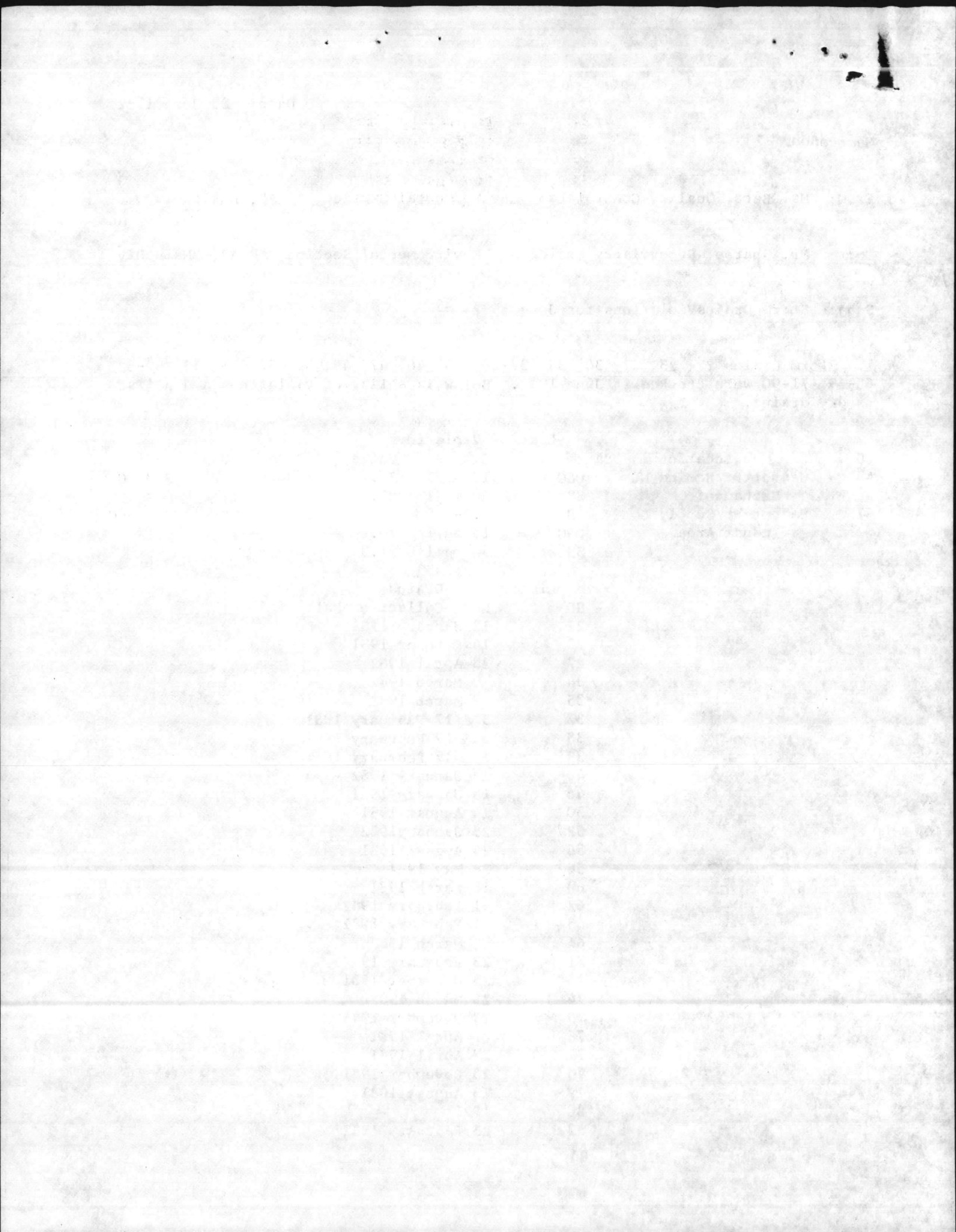
1. Storm Drains 22, 23, 27, 34, 35, 37-40, 43, 46, 47, 49, 50, 52, 56, 58, 60-62, 65-69, 71-90 were checked in June 1982. Below is a list of violations and a list of dry drains.

List of Violations

SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
43	Hadnot Pt/Behind MC Exchange	O&G	15 mg/l	27.1	8 June	pH 1 SS 3 OG 4
		SS	50 mg/l	90.0		
47	Hadnot Pt/Supply & Indust Area	pH	6.0-9.0	9.5	8 June	pH 17SS 5 OG 9
		O&G	15 mg/l	20.2		
		SS	50 mg/l	91.3		

List of Dry Drains

SD	Last Collection Date
22	13 January 1981
23	14 October 1981
27	23 April 1982
34	9 March 1982
35	9 March 1982
37	5 & 17 February 1981
38	5 & 17 February 1981
39	5 & 17 February 1981
40	18 January 1982
46	18 January 1982
50	24 August 1981
52	25 January 1982
56	24 August 1981
58	28 May 1981
60	18 March 1981
62	1 February 1982
65	1 February 1982
66	2 March 1982
71	23 February 1982
73	23 December 1981
74	23 March 1982
75	23 November 1981
76	27 April 1981
77	27 April 1981
78	23 November 1981
79	13 August 1981
80	1979
81	23 February 1982





84 23 February 1982  
85 23 February 1982  
88 29 September 1981  
89 24 August 1981  
90 25 January 1982

Elizabeth A., Betz  
Supervisory Chemist

1911  
1912  
1913  
1914  
1915

Date: 2 August 1982

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

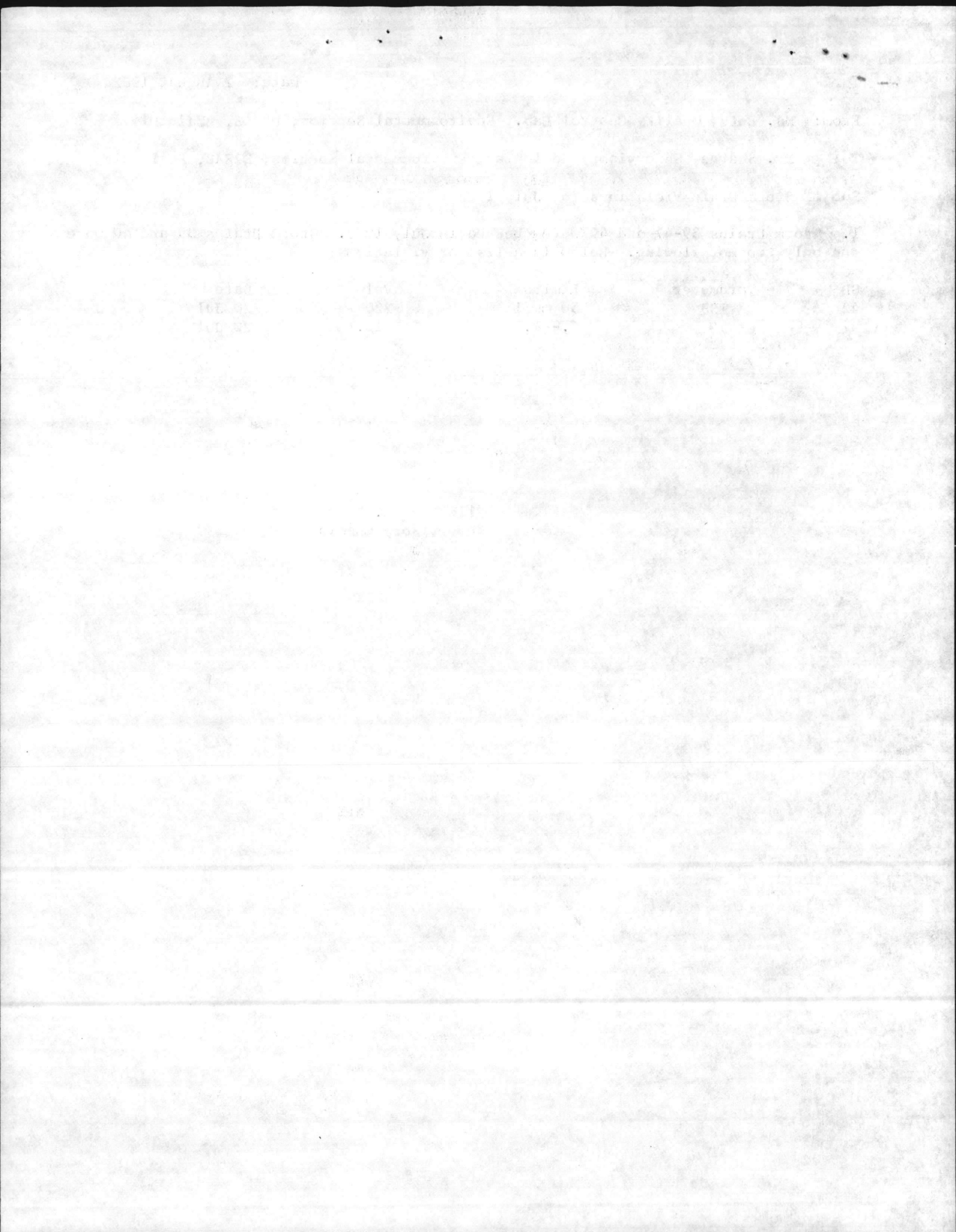
To: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

Subj: Storm Drain Violations for July 1982

1. Storm Drains 39-47 and 49 were checked in July 1982. Storm Drains 39 and 40 were the only two not flowing. Below is a list of violations:

SD	Parameter	Limits	Value	Date
42	TSS	50 mg/l	220	20 Jul
47	pH	6.0-9.0	10.1	20 Jul

Elizabeth A. Betz  
Supervisory Chemist



Date: 23 September 1982

Memorandum

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

To: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

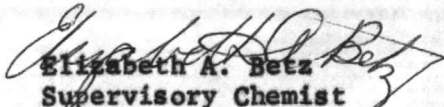
Subj: Storm Drain Violations for August 1982

1. Storm Drains 20-33, 36-40, 50-54, 66, and 73-90 were checked in August 1982. Below is a list of violations and a list of dry drains.

SD	Map/Location	List of Violations			Date	History-Flunk
		Parameter	Limits	Value		
22	Montford Pt/Area #3	SS	50 mg/l	100	11 Aug	pH 2 SS 2 OG 0
30	Midway Pk/ Lee Ave & Boundary	pH	6.0-9.0	5.7	4 Aug	pH 5 SS 1 OG 1
31	Midway Pk/Holcomb Blvd by Gate	pH	6.0-9.0	9.2	4 Aug	pH 6 SS 0 OG 1
90	Hadnot Pt/Cross ST	pH	6.0-9.0	5.7	2 Aug	pH 3 SS 1 OG 0

List of Dry Drains

SD	Last Collection Date
22	13 January 1981*
23	14 October 1981
24	14 April 1982
25	14 April 1982
27	23 March 1982
29	16 April 1981*
39	5 & 17 February 1981*
40	18 January 1982
50	24 August 1981
66	2 March 1982
73	23 December 1981
74	23 November 1981
75	23 November 1981
76	27 April 1981
77	27 April 1981
78	23 November 1981
79	13 August 1981
80	1979
84	23 February 1982
85	23 February 1982

  
Elizabeth A. Betz  
Supervisory Chemist

THE UNITED STATES OF AMERICA

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

WASHINGTON, D. C.

OFFICE OF THE ASSISTANT SECRETARY

FOR LAND MANAGEMENT

WASHINGTON, D. C.

RECEIVED

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PLANT: CAMP GEIGER

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	3	6.3	51.01	4	2.75	22.03	3	0
6-12 JUNE	2	8.0	68.92	4	7.0	61.67	3	0
13-19 JUNE	4	8.0	81.69	4	3.25	35.39	3	1.26
20-26 JUNE	3	8.3	80.94	4	4.5	42.90	3	0
27-30 JUNE	2	9.0	85.08	2	5.5	53.51	2	0
MONTHLY	14/8	7.9 <del>7.8</del>	73.62	18/8	4.5	41.94	14/8	1.05

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	1,097,100	116	105.7	3.1	
MAXIMUM	1,481,000 <del>75</del>	180	187 <del>123</del>	3.7	6.9
MINIMUM	753,000	30	20	2.3	6.1

85%	% REMOVAL
BOD	93.2
TSS	95.7

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

1	100	100	100	100	100
2	100	100	100	100	100
3	100	100	100	100	100
4	100	100	100	100	100
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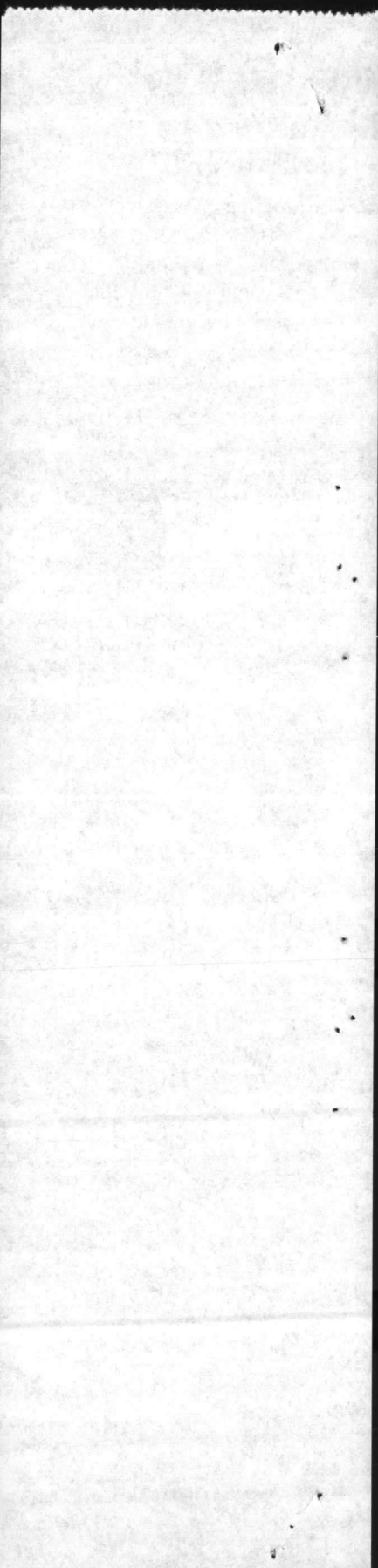
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PLANT: TARAWA TERRACE

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	3	13.0	128.84	4	6.0	61.26	3	1.26
6-12 JUNE	2	14.0	119.76	4	8.0	67.66	3	1.59
13-19 JUNE	4	11.25	95.02	4	5.75	51.44	3	1.26
20-26 JUNE	3	11.0	95.64	4	8.25	69.64	3	1.26
27-30 JUNE	2	15.0	132.76	2	9.0	79.25	2	3.46
* JUNE MONTHLY	14/8	12.5	111.33	18/8	7.2	64.36	14/8	1.53

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	PH
AVERAGE	1,016,443	226.6	245.2	3.7	
MAXIMUM	1,515,600	660	987	4.0	7.0
MINIMUM	807,700	104	43	2.5	6.7

85%	% REMOVAL
BOD	94.5
TSS	97.1

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

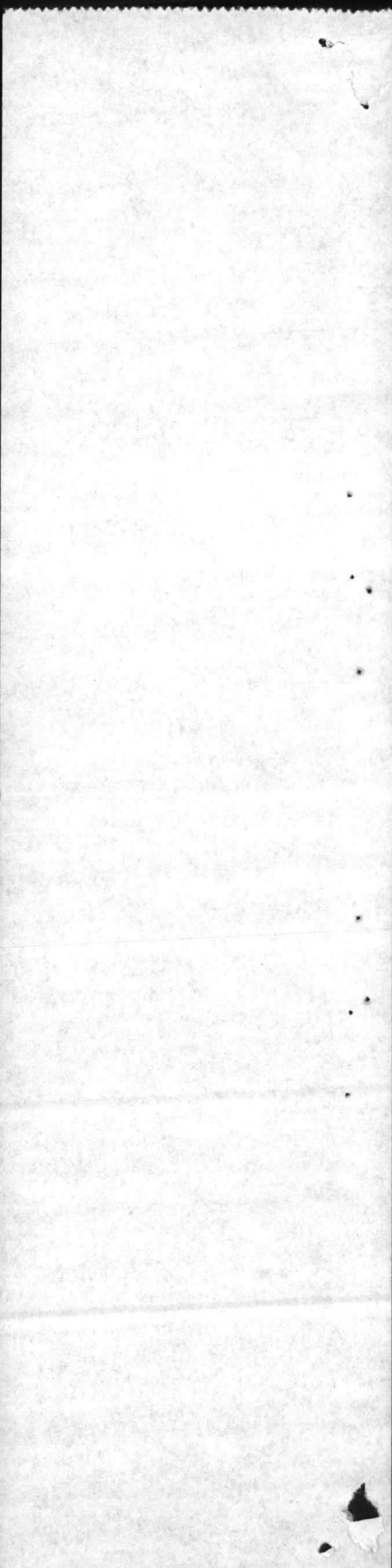
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PLANT: CAMP JOHNSON

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	3	9.7	15.32	4	4.25	6.99	3	0
6-12 JUNE	2	7.5	16.24	4	4.75	8.97	3	28.84
13-19 JUNE	4	9.75	36.90	4	5.25	20.32	1	0
20-26 JUNE	3	8.0	22.62	4	2.75	6.81	3	0
27-30 JUNE	2	9.5	23.68	2	3.5	8.01	2	0
JUNE MONTHLY	14/8	9.0	24.37	18/8	4.2	10.47	12/8	2.32

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	267,833	147.6	128.8	3.9	
MAXIMUM	701,000	215	470	8.0	7.4
MINIMUM	119,000	78	36	1.5	6.0

85%	% REMOVAL
BOD	93.9
TSS	96.7

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

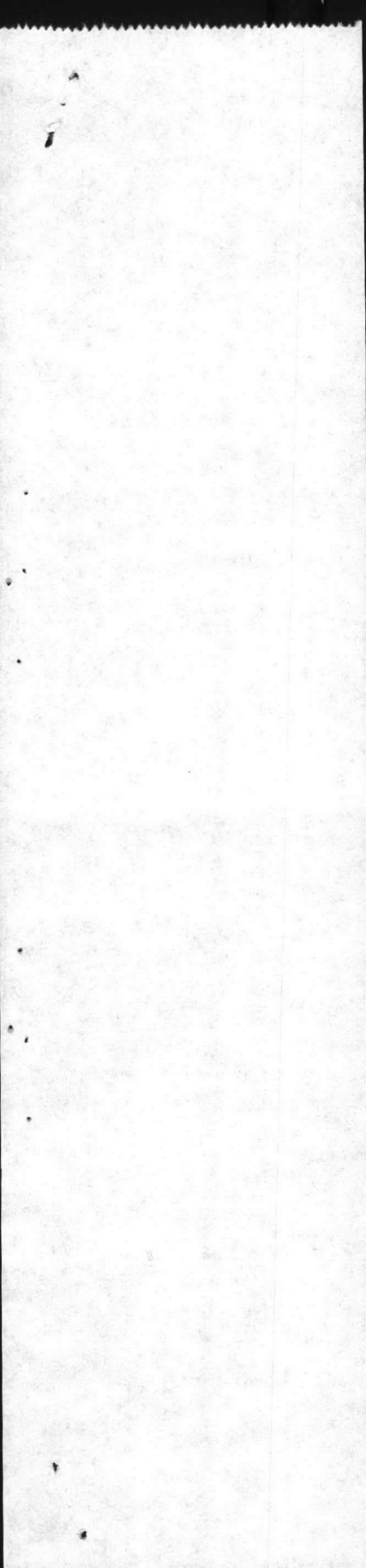
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PLANT: HADNOT POINT

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	3	14.7	651.07	4	4.0	176.71	3	1.82
6-12 JUNE	2	10.0	445.77	5	5.6	249.93	3	10.26
13-19 JUNE	5	11.4	505.54	5	6.0	221.88	3	29.75
20-26 JUNE	4	10.5	466.56	5	7.6	336.75	3	62.14
27-30 JUNE	3	11.3	563.68	3	7.0	347.79	2	0
• JUNE MONTHLY	17/20	11.6	525.28	22/20	5.8	268.131	14/12	9.38

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	5,405,800	143.4	127.3	3.95	
MAXIMUM	6,092,000	205	290	4.3	6.8
MINIMUM	5,097,000	82	53	3.3	6.4

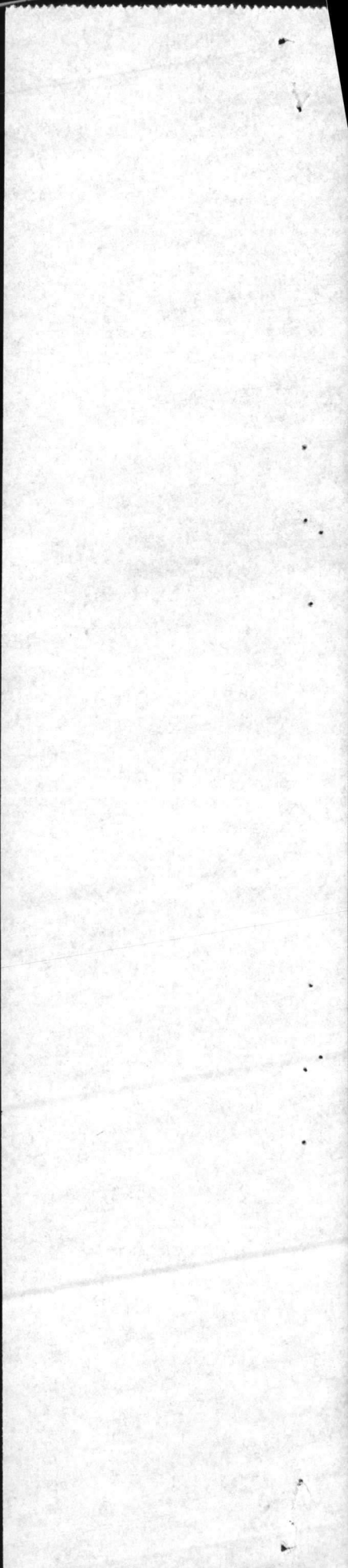
85%	% REMOVAL
BOD	91.9
TSS	95.4

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



DATE	DESCRIPTION	AMOUNT	CHECK NO.
12/15/19	...	100.00	1001
12/16/19	...	200.00	1002
12/17/19	...	300.00	1003
12/18/19	...	400.00	1004
12/19/19	...	500.00	1005
12/20/19	...	600.00	1006
12/21/19	...	700.00	1007
12/22/19	...	800.00	1008
12/23/19	...	900.00	1009
12/24/19	...	1000.00	1010
12/25/19	...	1100.00	1011
12/26/19	...	1200.00	1012
12/27/19	...	1300.00	1013
12/28/19	...	1400.00	1014
12/29/19	...	1500.00	1015
12/30/19	...	1600.00	1016
12/31/19	...	1700.00	1017
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1/2/20	...	1900.00	1019
1/3/20	...	2000.00	1020
1/4/20	...	2100.00	1021
1/5/20	...	2200.00	1022
1/6/20	...	2300.00	1023
1/7/20	...	2400.00	1024
1/8/20	...	2500.00	1025
1/9/20	...	2600.00	1026
1/10/20	...	2700.00	1027
1/11/20	...	2800.00	1028
1/12/20	...	2900.00	1029
1/13/20	...	3000.00	1030
1/14/20	...	3100.00	1031
1/15/20	...	3200.00	1032
1/16/20	...	3300.00	1033
1/17/20	...	3400.00	1034
1/18/20	...	3500.00	1035
1/19/20	...	3600.00	1036
1/20/20	...	3700.00	1037
1/21/20	...	3800.00	1038
1/22/20	...	3900.00	1039
1/23/20	...	4000.00	1040
1/24/20	...	4100.00	1041
1/25/20	...	4200.00	1042
1/26/20	...	4300.00	1043
1/27/20	...	4400.00	1044
1/28/20	...	4500.00	1045
1/29/20	...	4600.00	1046
1/30/20	...	4700.00	1047
1/31/20	...	4800.00	1048
2/1/20	...	4900.00	1049
2/2/20	...	5000.00	1050



PLANT: RIFLE RANGE

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	1	3.0	7.07	2	4.0	9.10	2	0
6-12 JUNE	1	4.0	8.29	2	2.0	4.00	2	0
13-19 JUNE	2	6.0	14.04	2	1.5	3.51	2	0
20-26 JUNE	1	1.0	2.61	2	1.0	2.36	2	2.83
27-30 JUNE	1	6.0	13.24	1	2.0	4.41	1	0
JUNE MONTHLY	6/4	4.3	9.88	9/4	2.1	4.71	9/4	1.26

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	255,965	44.2	123.2	3.97	
MAXIMUM	312,990	68 <del>52</del>	214	4.0	6.8
MINIMUM	189,500	25	60	3.5	6.4

85%	% REMOVAL
BOD	90.3 <del>94.6</del>
TSS	98.2 <del>94.5</del>

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	373.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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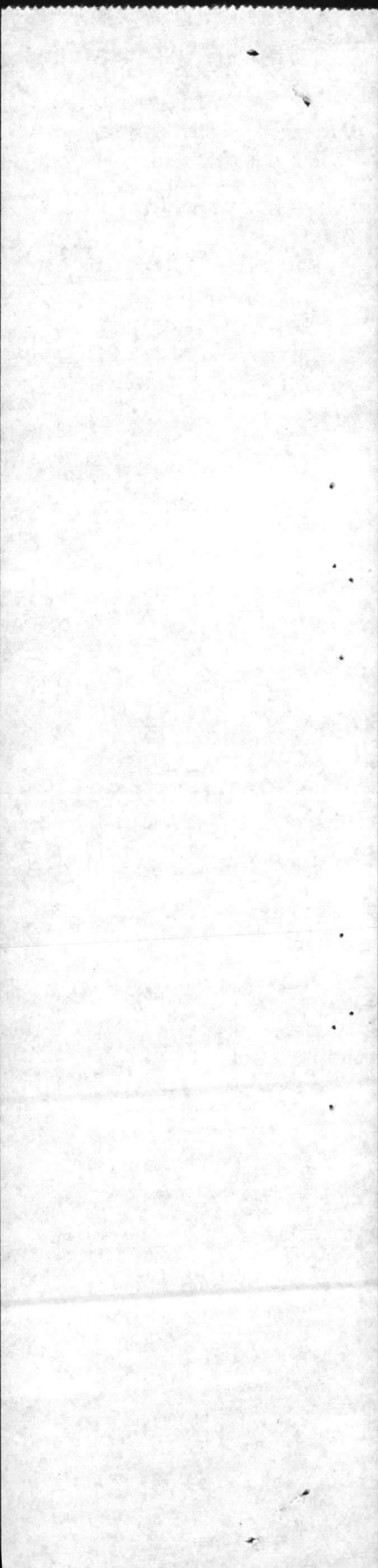
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PLANT: COURTHOUSE BAY

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	1	14.0	45.31	2	9.5	31.48	2	0
6-12 JUNE	1	8.0	32.73	2	9.0	33.28	2	0
13-19 JUNE	2	10.5	29.08	2	8.5	25.27	2	2.45
20-26 JUNE	1	8.0	29.57	2	6.5	20.24	2	0
27-30 JUNE	1	14.0	43.22	1	3.0	9.26	1	0
JUNE MONTHLY	6/4	10.8	34.83	9/4	7.8	25.54	9/4	1.22

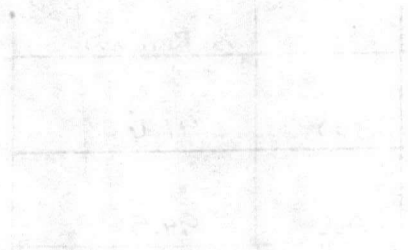
INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	364,900	128.8	143.1 <del>397</del>	3.97	
MAXIMUM	525,600	170	375	4.0	7.2
MINIMUM	265,100	80 <del>70</del>	50	3.5	6.6

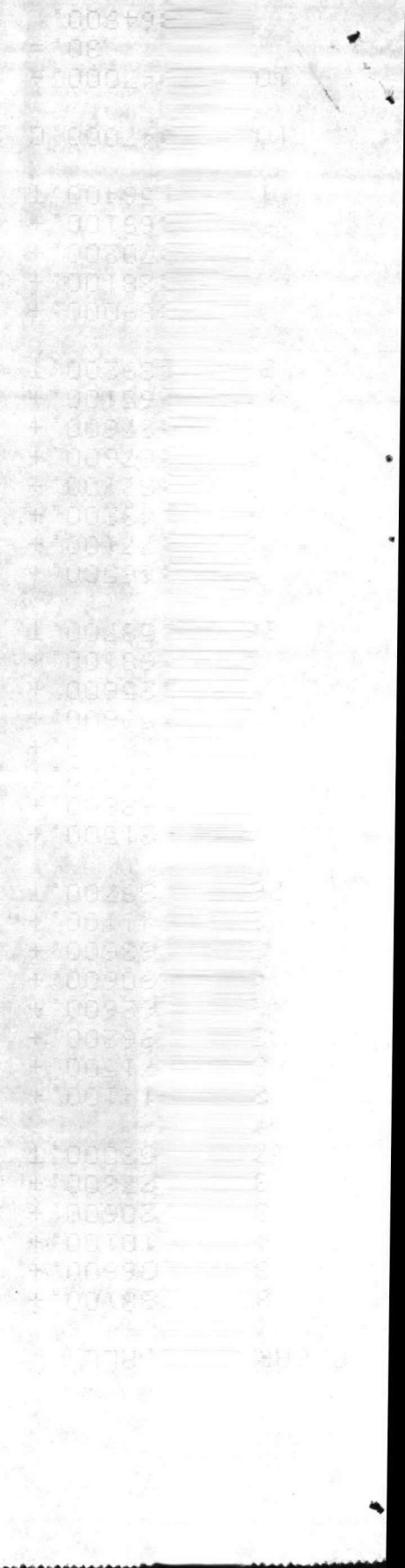
85%	% REMOVAL
BOD	91.6
TSS	94.5

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



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PLANT: ONSLow BEACH

MONTH: JUNE

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-5 JUNE	1	7.0	5.838	2	5.5	4.57	2	0
6-12 JUNE	1	8.0	6.54	2	5.0	4.48	2	6.32
13-19 JUNE	2	9.5	7.55	2	3.0	2.48	2	28.64
20-26 JUNE	1	5.0	4.91	2	2.5	2.36	2	0
27-30 JUNE	1	15.0	12.38	1	3.0	2.48	1	0
JUNE MONTHLY	6/4	9.0	7.43	9/4	3.9	3.36	9/4	3.18

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	111,533	146.2	55.7	3.9	
MAXIMUM	145,000	228	84	4.0	7.2
MINIMUM	89,000	<del>15</del> 90	43	3.0	6.0

85%	% REMOVAL
BOD	93.8
TSS	92.99

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	400.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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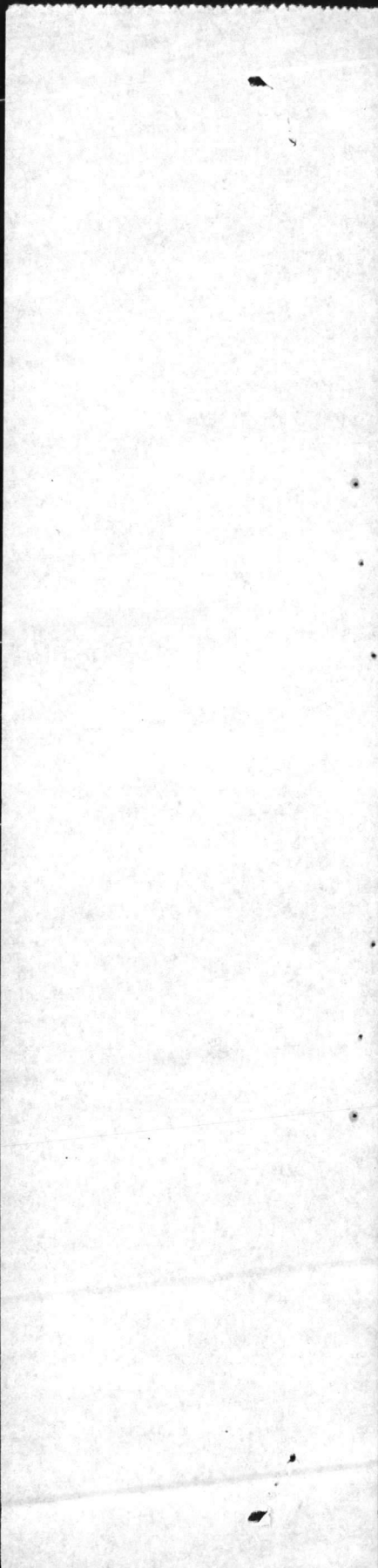
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PLANT: CAMP GEIGER

MONTH: JULY 19

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	2	7.0	51.21	2	5.0	34.61	1	0
4-10 JULY	4	5.0	34.40	4	4.0	29.81	3	0
11-17 JULY	4	6.75	42.42	4	9.25	60.97	3	0
18-24 JULY	3	5.0	38.34	4	8.25	65.36	3	0
25-31 JULY	4	7.25	49.88	4	11.25	73.83	3	0
* JULY MONTHLY	17/8	6.2	43.88	18/8	7.8	54.95	13/8	0

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	872,097	100.1	115.2	3.0	
MAXIMUM	1,161,000	178	207	3.8	6.8
MINIMUM	55,500	56	43	2.3	6.1

85%	% REMOVAL
BOD	93.8
TSS	93.2

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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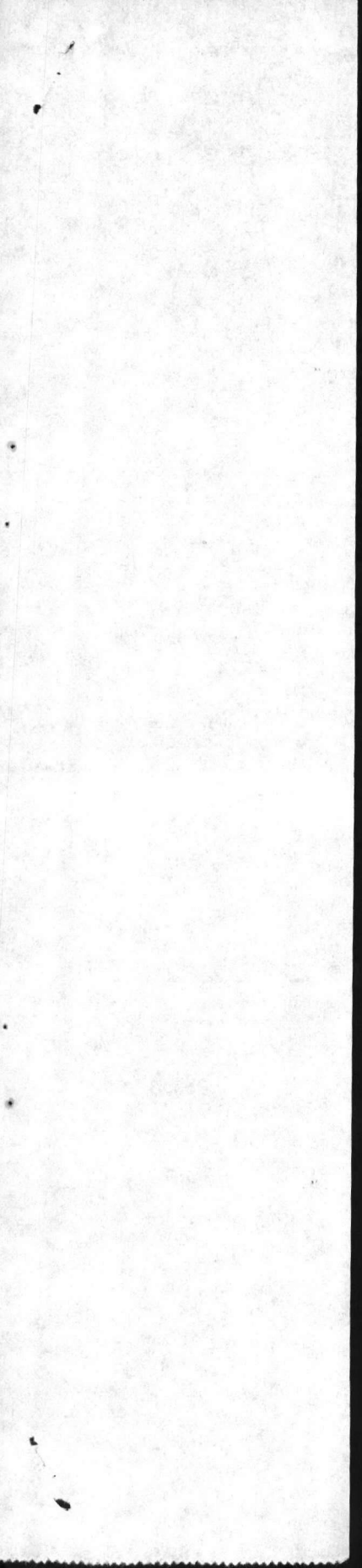
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PLANT: TARAWA TERRACE

MONTH: JULY

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	2	9.0	76.87	2	8.0	68.39	1	0
4-10 JULY	4	11.5	99.19	4	9.75	84.07	3	0
11-17 JULY	4	12.5	129.85	4	9.5	100.34	3	0
18-24 JULY	3	7.7	72.18	4	5.0	45.64	3	3.17
25-31 JULY	4	10.0	100.42	4	11.0	113.24	3	5.34
JULY MONTHLY	17/8	10.4	99.3	18/8	8.7	83.89	13/8	1.92

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	1,108,690	128	137	3.65	
MAXIMUM	1,707,500	172	393	5.0	7.0
MINIMUM	945,400	68	57	2.0	6.4

85%	% REMOVAL
BOD	91.9
TSS	93.6

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HAINOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12	70(T)	
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4	70(T)	
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4	70(T)	
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4	70(T)	

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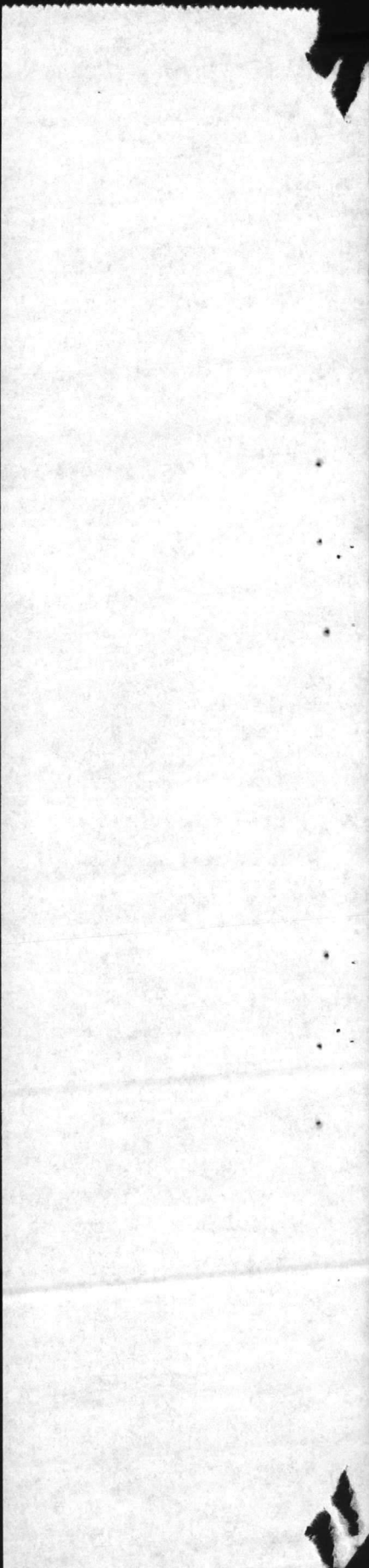
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PLANT: CAMP JOHNSON

MONTH: JULY

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	2	7.0	12.91	2	1.5	2.61	1	0
4-10 JULY	4	6.75	10.91	4	3.0	5.15	3	0
11-17 JULY	4	7.25	34.38	4	5.75	30.86	3	1.26
18-24 JULY	3	5.3	16.03	4	2.75	8.63	3	7.47
25-31 JULY	4	15.5	66.37	4	7.25	41.95	3	0
MONTHLY	$\frac{17}{8}$	8.1	30.62	$\frac{18}{8}$	4.3	19.53	$\frac{13}{8}$	1.68

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	389,161	122	105.5	3.9	
MAXIMUM	1,008,000	292	232	6.0	7.0
MINIMUM	133,000	43	42	2.2	6.1

85%	% REMOVAL
BOD	92.9
TSS	95.9

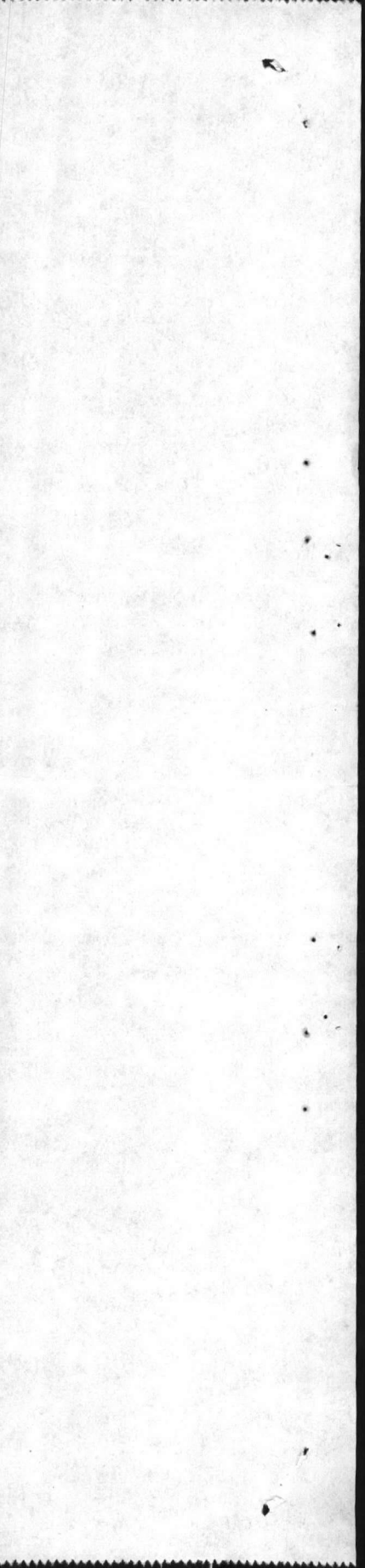
PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HABNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

11-15-1954	4	23	1954	4	23	2000	3	150	132	112	43	101
11-16-1954	4	19	1954	4	19	2000	3	150	132	112	43	101
11-17-1954	8	10	1954	8	10	2000	1	150	132	112	43	101

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PLANT: HADNOT POINT

MONTH: JULY

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	2	9.0	362.3	2	6.0 8	249.19	1	0
4-10 JULY	5	7.4	339.95	5	7.4	340.59	3	36.34
11-17 JULY	5	10.0	547.43	5	8.2	441.64	3	49.54
18-24 JULY	4	8.5	444.08	5	6.6	360.98	3	35.95
25-31 JULY	3	12.8	750.33	5	9.6	569.57	3	22.37
JULY MONTHLY	21 20	9.7	509.08	22 20	7.8	411.92	13 12	26.41

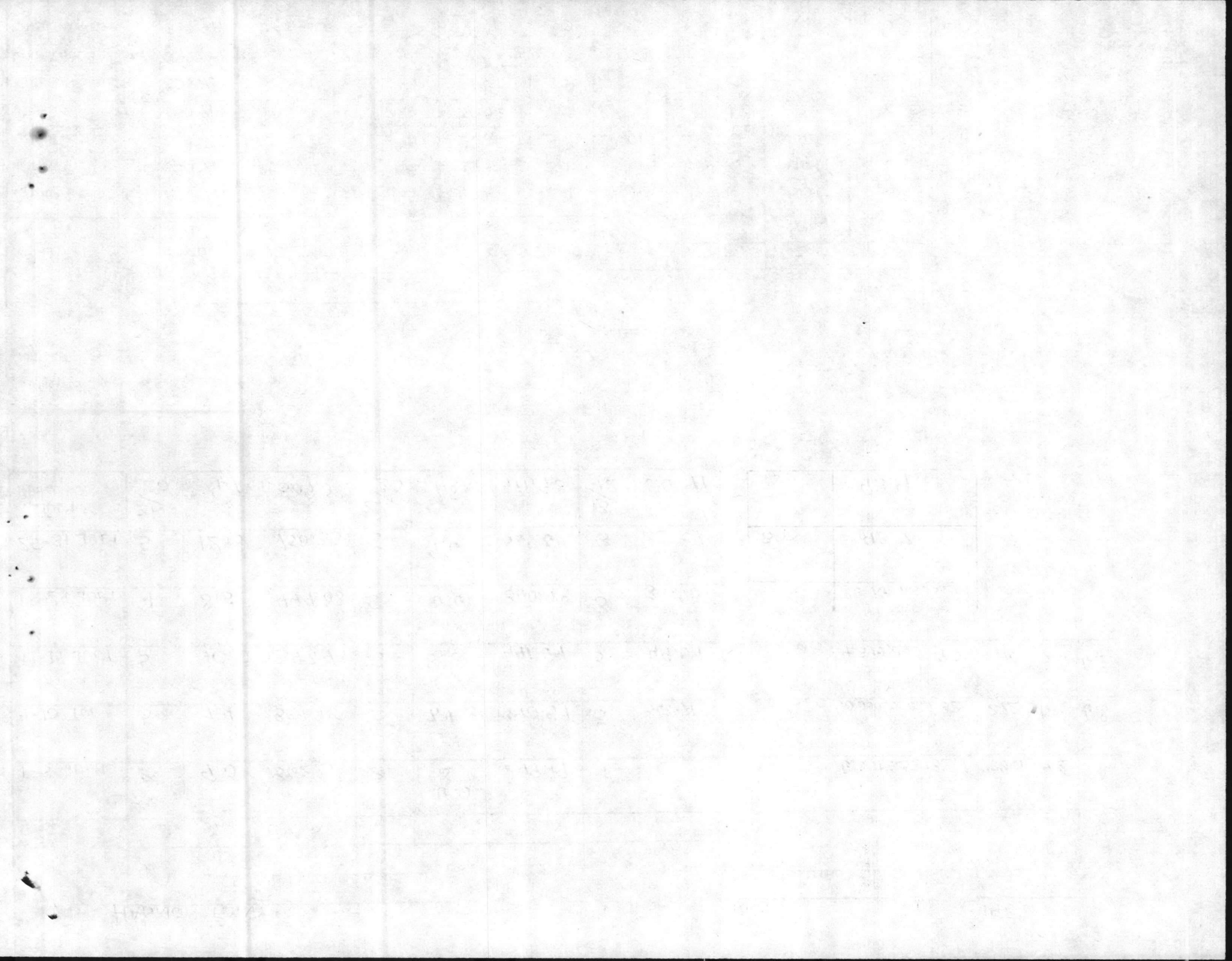
INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	PH
AVERAGE	6,051,225.8	132.1	128.1	4.2	
MAXIMUM	10,000,000	232	272	6.5	6.8
MINIMUM	4,340,000	70	40	3.8	6.2

85 %	% REMOVAL
BOD	92.7
TSS	93.9

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)





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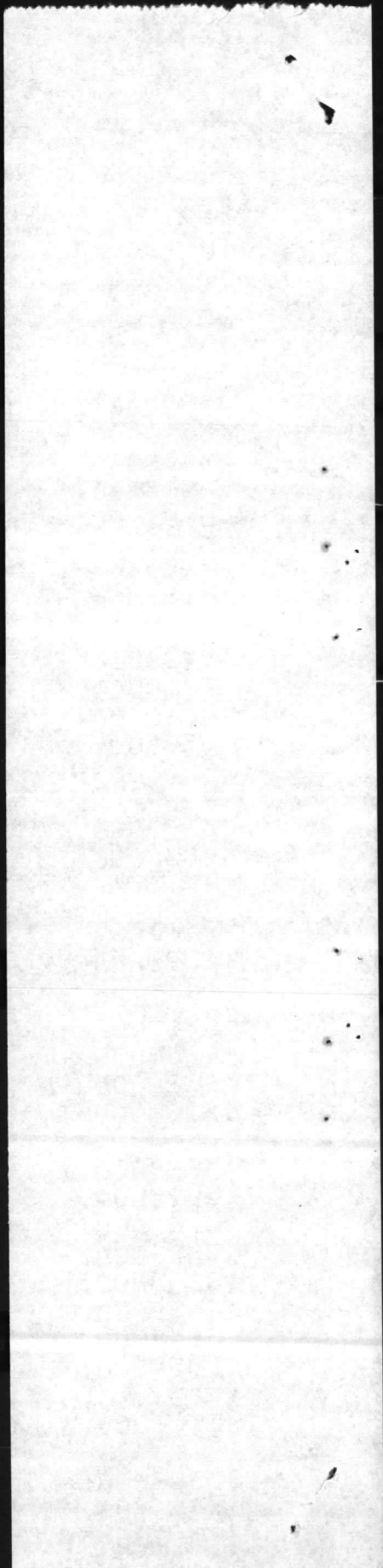
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PLANT: RIFLE RANGE

MONTH: JULY

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	1	3.0	8.68	1	2.0	5.79	1	0
4-10 JULY	1	3.0	5.82	2	3.0	5.90	2	0
11-17 JULY	2	3.0	6.87	2	3.5	8.06	2	0
18-24 JULY	1	2.6	5.20	2	2.5	6.04	2	0
25-31 JULY	2	3.0	7.55	2	4.0	9.16	2	2
JULY MONTHLY	7/4	2.9	6.93	9/4	3.1	7.12	9/4	1.17

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	257,341	37.6	96.6	3.8	
MAXIMUM	347,000	80	168	4.4	6.8
MINIMUM	184,650	12	35	3.0	6.2

85%	% REMOVAL
BOD	92.3
TSS	96.8

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



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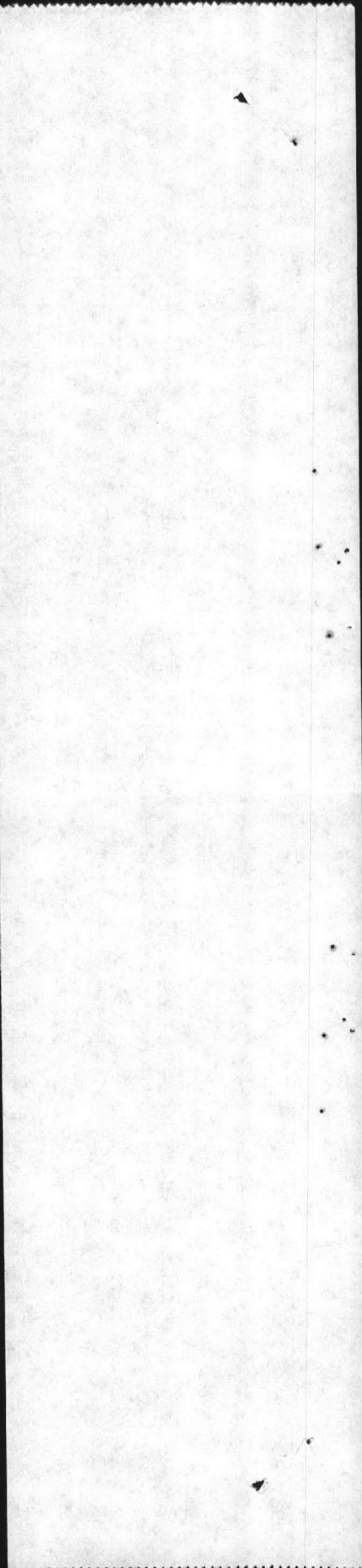
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PLANT: COURTHOUSE BAY

MONTH: JULY

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	1	6.0	12.79	1	4.0	8.52	1	2.0
4-10 JULY	2	11.0	28.42	2	12.0	30.93	2	0
11-17 JULY	2	14.5	42.89	2	22.0	65.01	2	1.41
18-24 JULY	1	4.0	12.90	2	12.0	34.38	2	0
25-31 JULY	2	12.0	48.64	2	17.5	67.68	2	3.16
JULY MONTHLY	8/4	10.6	33.20	9/4	14.6	44.95	9/4	1.51

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	328,481	109.6	150.1	4.1	
MAXIMUM	533,500	163	283	5.5	7.4
MINIMUM	238,000	65	74	3.0	6.6

85%	% REMOVAL
BOD	90.3
TSS	90.3

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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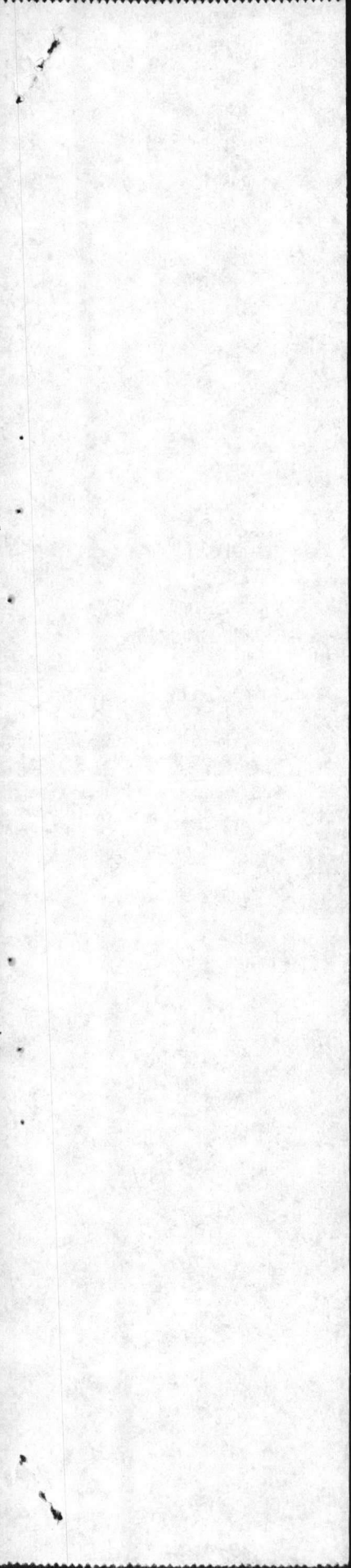
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PLANT: ONSLow BEACH

MONTH: JULY

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-3 JULY	1	6.0	3.90	1	1.0	0.65	1	0
4-10 JULY	2	7.5	5.63	2	3.0	2.19	2	0
11-17 JULY	2	6.5	4.68	2	6.0	4.20	2	0
18-24 JULY	1	2.0	1.93	2	4.5	3.05	2	2.83
25-31 JULY	2	28	23.94	2	13.5	11.06	2	7.75
* JULY MONTHLY	8/4	11.5	9.29	9/4	6.1	4.63	9/4	1.99

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	85,290	90.4	54.5	4.5	
MAXIMUM	141,000	143	88	8.0	7.2
MINIMUM	61,000	65	9	2.3	6.3

85%	% REMOVAL
BOD	87.3
TSS	88.8

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



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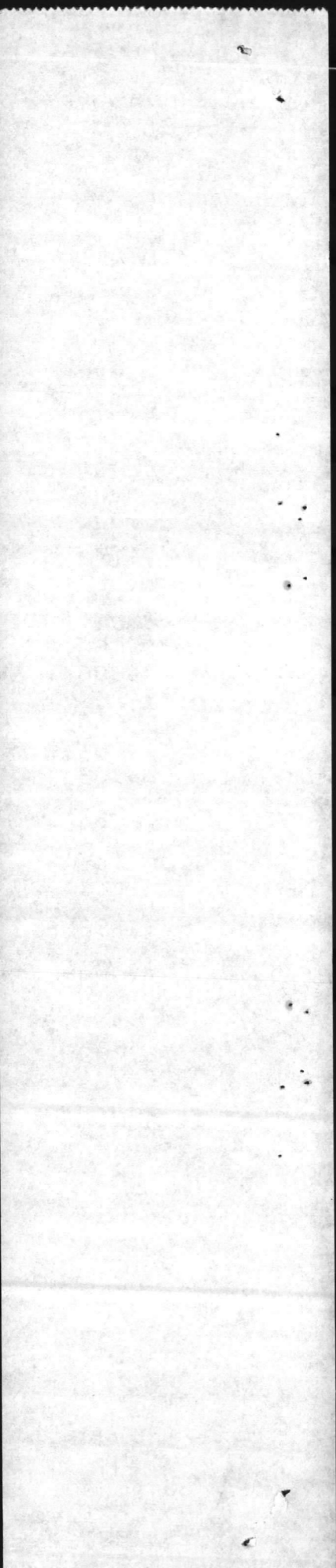
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PLANT: CAMP GEIGER

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUG	4	8.5	82.65	4	5.0	49.37	3	0
8-14 AUG	2	6.5	65.05	4	5.0	48.97	3	140.9
15-21 AUG	3	10.3	100.18	4	8.75	85.94	3	0
22-28 AUG	4	8.25	71.36	4	5.0	43.28	3	1.26
29-31 AUG	1	8.0	36.45	1	5.0	22.78	1	0
MONTHLY	14/8	8.5	77.37	17/8	5.9	54.88	13/8	3.30

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	PH
AVERAGE	1,106,977	146.5	171.4	3.4	
MAXIMUM	1,388,000	240	480	4.0	6.7
MINIMUM	546,300	100	81	2.5	6.2

85%	% REMOVAL
BOD	94.2
TSS	96.5

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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READY

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1233000 +  
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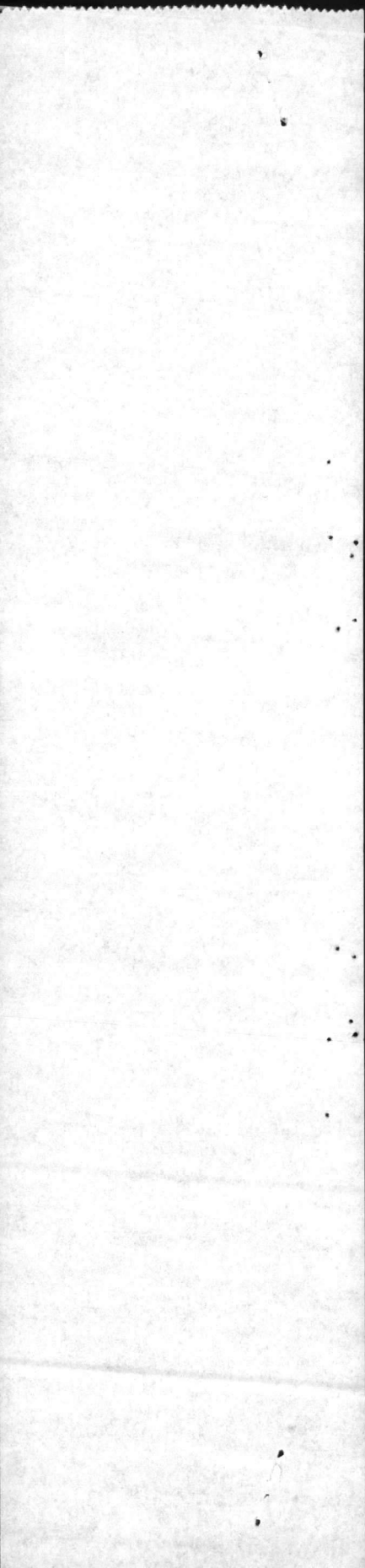
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2589300 T

34316300 C

34316300 -

31 =



PLANT: TARAWA TERRACE

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUG	4	10.75	82.33	4	8.0	61.29	3	1.26
8-14 AUG	2	12.0	89.37	4	8.15	64.00	3	148.89
15-21 AUG	3	14.7	89.45	4	10.75	67.57	3	0
22-28 AUG	4	12.5	85.25	4	7.5	50.56	3	1.26
29-31 AUG	1	16.0	92.55	1	9.0	52.06	1	4.0
AUGUST MONTHLY	14/8	12.6	86.42	17/8	8.8	60.34	13/8	3.92

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	874,997	151.6	218.8	3.8	
MAXIMUM	2,000,000	182	590	4.4	7.0
MINIMUM	536,600	113	70	3.2	6.5

85%	% REMOVAL
BOD	91.4
TSS	95.9

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HAINOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ON SLOW BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

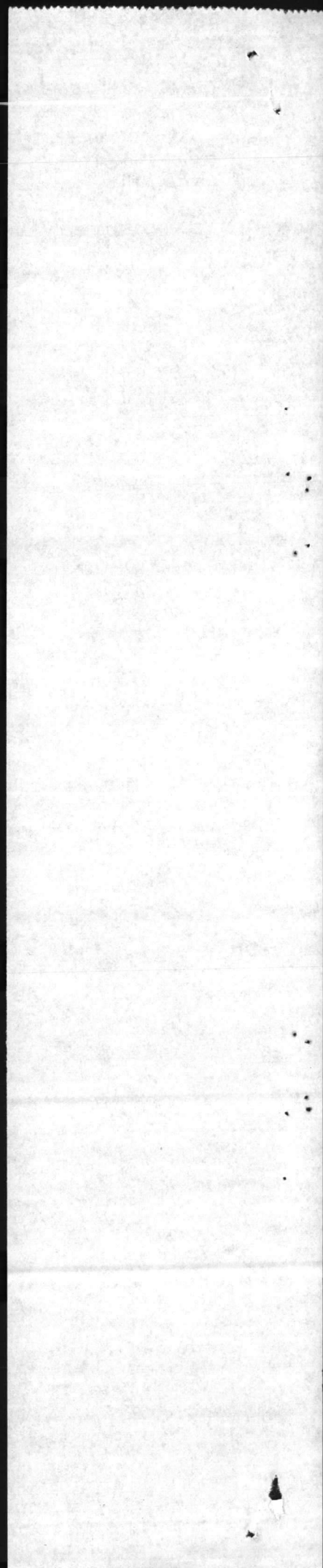
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DEBAR, ALL

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PLANT: CAMP JOHNSON

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUG	4	8.0	34.28	4	3.75	15.55	3	3.48
8-14 AUG	2	4.5	18.96	4	1.75	5.91	3	223.47
15-21 AUG	3	6.7	12.52	4	3.75	7.49	3	0
22-28 AUG	3	5.0	13.39	3	4.0	10.79	3	0
29-31 AUG	1	4.0	4.40	1	2.0	2.20	1	0
AUGUST MONTHLY	$\frac{13}{8}$	6.15	19.78	$\frac{16}{8}$	3.2	9.40	$\frac{13}{8}$	<del>4.64</del> 5.69

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	332,613	109.3	101.6	4.7	
MAXIMUM	618,000	175	240	8.0	7.0
MINIMUM	132,000	33	32	2.8	6.0

85%	% REMOVAL
BOD	94.4
TSS	97.1

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

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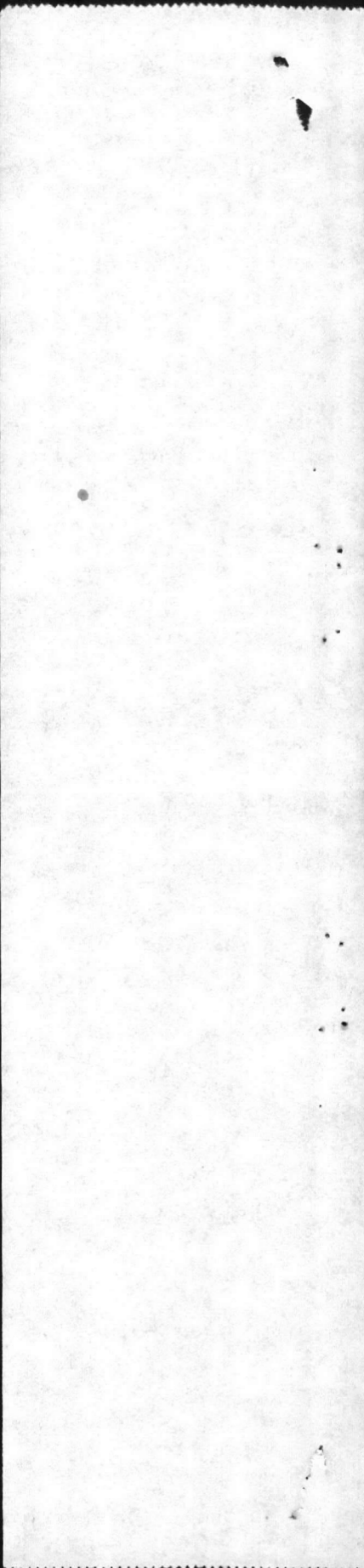
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PLANT: HADNOT POINT

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

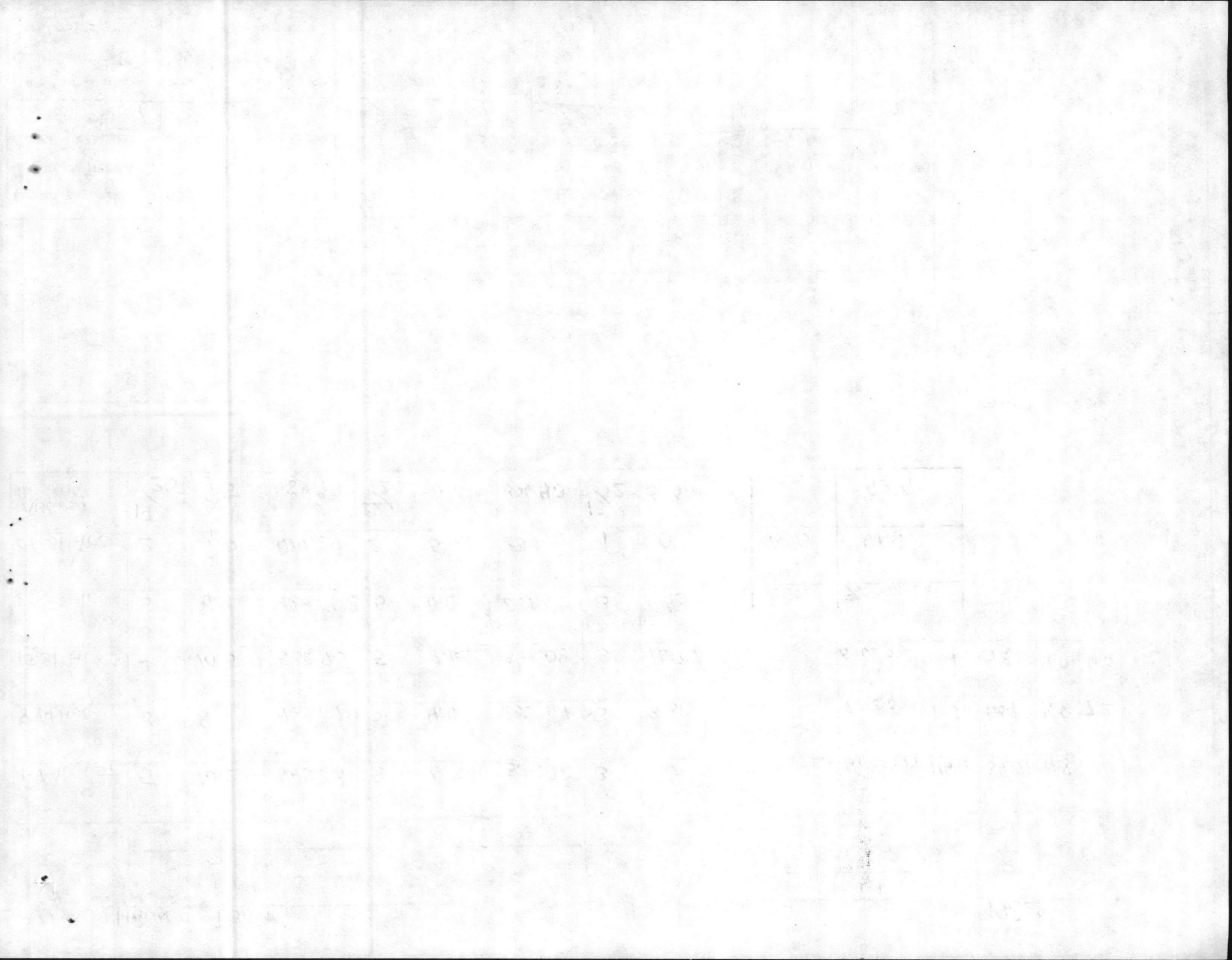
WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUGUST	5	10.2	545.20	5	6.2	325.12	3	0
8-14 AUG	3	8.3	468.67	5	4.6	258.64	3	3.30
15-21 AUG	4	10.5	532.90	5	7.6	384.08	3	11.77
22-28 AUG	5	8.8	424.17	5	6.0	281.65	3	4.93
29-31 AUG	2	9.0	414.29	2	5.0	230.16	1	0
AUGUST MONTHLY	19/20	9.5	484.90	22/20	6.0	306.40	13/12	3.36

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	6,151,839	116.6	84.09	4.8	
MAXIMUM	7,212,000	165	<del>134</del> <sup>150</sup>	6.8	7.2
MINIMUM	5,162,000	84	48	4.0	6.3
85%	% REMOVAL				
BOD	91.9				
TSS	92.9				

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	199.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)



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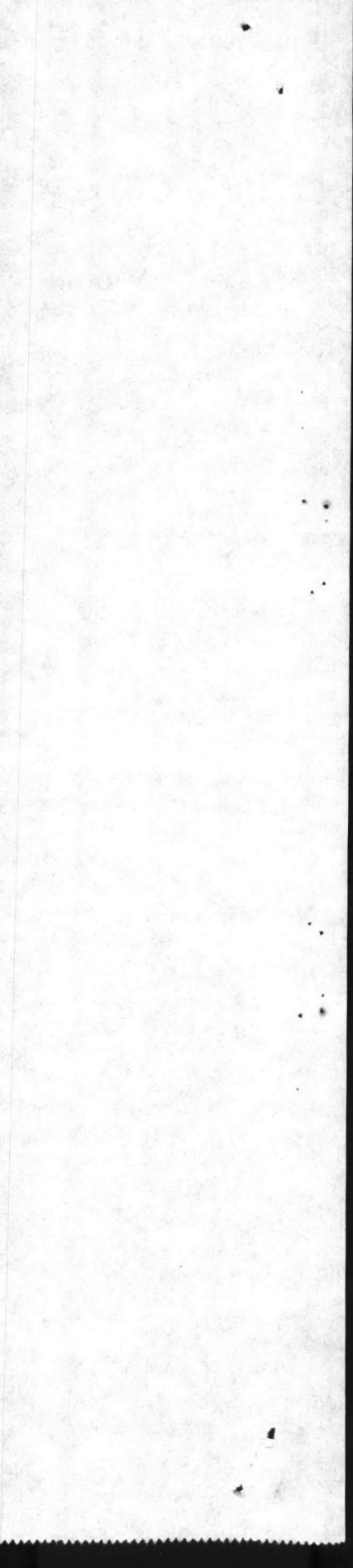
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CLERK RTF



PLANT: RIFLE RANGE

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUG	2	4.0	8.94	2	1.5	3.28	2	2.00
8-14 AUG	1	7.0	15.11	2	1.5	3.31	2	0
15-21 AUG	2	5.0	10.94	2	2.0	4.37	2	0
22-28 AUG	2	3.5	6.95	2	2.0	3.13	2	0
29-31 AUG	1	2.0	3.59	1	1.0	1.79	1	0
MONTHLY	8/4	4.25	9.04	9/4	1.7	3.46	9/4	1.17

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	252,701	61.5	123.2	4.0 <del>3.9</del>	
MAXIMUM	306,870	104	275	4.8	6.8
MINIMUM	183,890	30	33	3.4	6.2

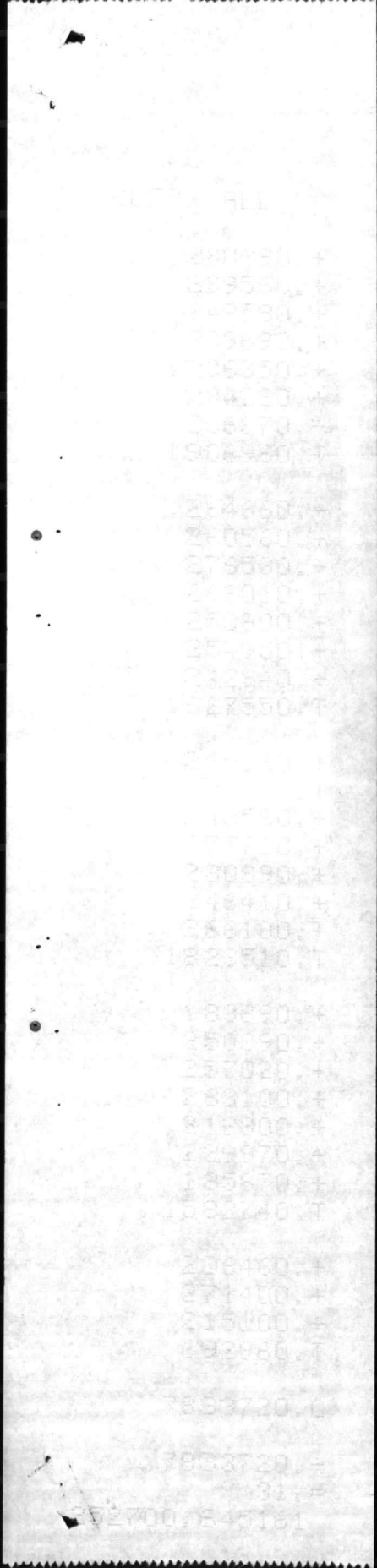
85%	% REMOVAL
BOD	93.2
TSS	98.3

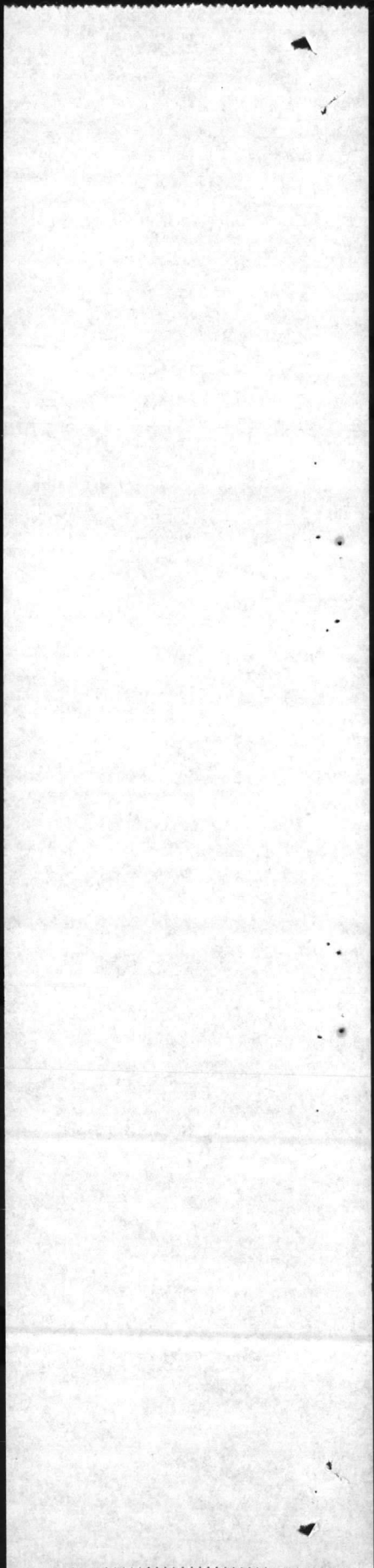
PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)









PLANT: COURTHOUSE BAY

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUG	2	9.5	31.37	2	8.5	28.06	2	0
8-14 AUG	1	24.0	83.27	2	11.5	38.83	2	0
15-21 AUG	2	9.5	26.93	2	5.5	15.60	2	1.41
22-28 AUG	2	8.0	19.35	2	8.5	20.77	2	2.45
29-31 AUG	1	10.0	26.98	1	6.0	16.19	1	0
MONTHLY	8 4	11.0	33.19	9 4	8.2	24.74	9 4	1.32

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	Cl <sub>2</sub> PPM	pH
AVERAGE	354,648	106.1	98.7	4.2	
MAXIMUM	493,200	176	182	6.0	7.0
MINIMUM	277,000	40	49	3.0	6.6

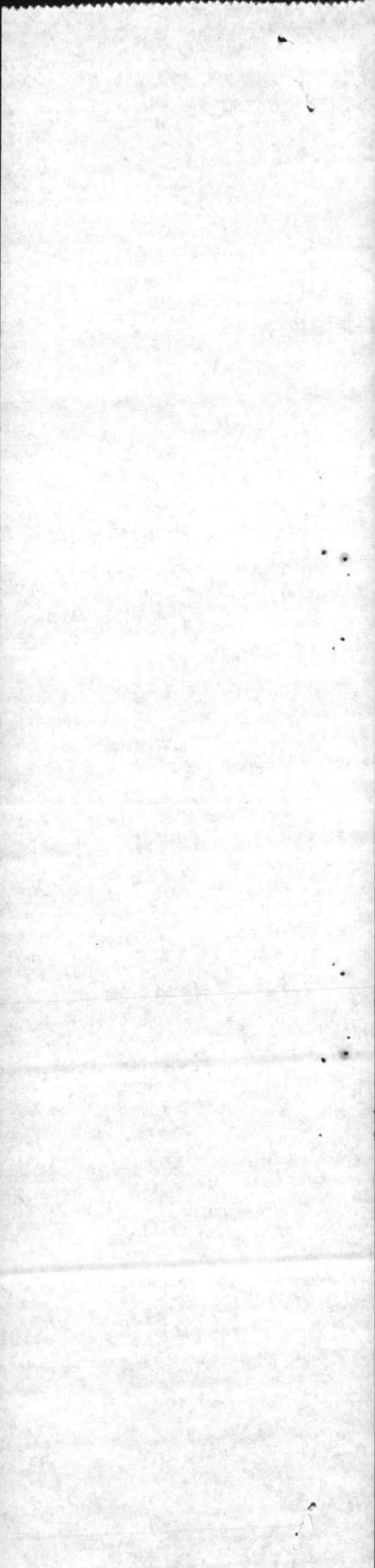
85%	% REMOVAL
BOD	89.6
TSS	91.9

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HAINOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)







PLANT: ONSLow BEACH

MONTH: AUGUST

YEAR: 1982

EFFLUENT AVERAGES

WEEK OF:	BOD			TSS			COLIFORM	
	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	MG/L	LBS/DAY	# SAMPLE	GEOMETRIC MEAN
1-7 AUG	2	9.0	9.93	2	8.5	8.98	2	49.64
8-14 AUG	1	13.0	13.15	2	3.0	2.51	2	0
15-21 AUG	2	11.0	9.75	2	6.0	5.32	2	2.00
22-28 AUG	2	9.0	10.28	2	5.5	<del>5.5</del> 6.30	2	<del>2.83</del> 2.83
29-31 AUG	1	8.0	6.42	1	3.0	2.41	1	6.00
MONTHLY	$\frac{8}{4}$	9.9	9.94	$\frac{9}{4}$	5.4	5.40	$\frac{9}{4}$	4.27

INFLUENT AVERAGES

	DAILY FLOW GPD	BOD MG/L	TSS MG/L	CL <sub>2</sub> PPM	pH
AVERAGE	113,958	123.3	68.1	4.7	
MAXIMUM	149,730	240	220	8.1	7.2
MINIMUM	96,000	50	13	2.7	6.0

85%	% REMOVAL
BOD	91.9
TSS	92.6

PERMIT REQUIREMENTS + LIMITS

PLANT	SERIAL #	FLOW MGD	BOD + TSS						COLIFORM			
			# SAMPLES		WEEKLY AVERAGES		MONTH AVERAGES		# SAMPLES		GEOMETRIC MEAN	
			PER WEEK	PER MONTH	MG/L	LBS/DAY	MG/L	LBS/DAY	PER WEEK	PER MONTH	WEEKLY	MONTHLY
CAMP GEIGER	5501/11	1.60	2	8	45	600.8	30	400.6	2	8	400(F)	200(F)
TARAWA TERRACE	5502/13	1.25	2	8	45	469.4	30	312.9	2	8	400(F)	200(F)
CAMP JOHNSON	5503/13	1.00	2	8	45	375.5	30	250.3	2	8	400(F)	200(F)
HADNOT POINT	5504/14	8.00	5	20	45	3004.2	30	2002.8	3	12		70(T)
RIFLE RANGE	5505/15	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
COURTHOUSE BAY	5506/16	0.525	1	4	45	197.1	30	131.4	1	4		70(T)
ONSLow BEACH	5507/17	0.200	1	4	45	75.1	30	50.1	1	4		70(T)

100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100

7



06148 2581

187080  
187080

187080  
+ 064863  
+ 06336  
+ 08180  
+ 080281

187080  
+ 061143  
+ 063296  
+ 082801

187080  
+ 042801  
+ 064863  
+ 082801

187080  
+ 08180  
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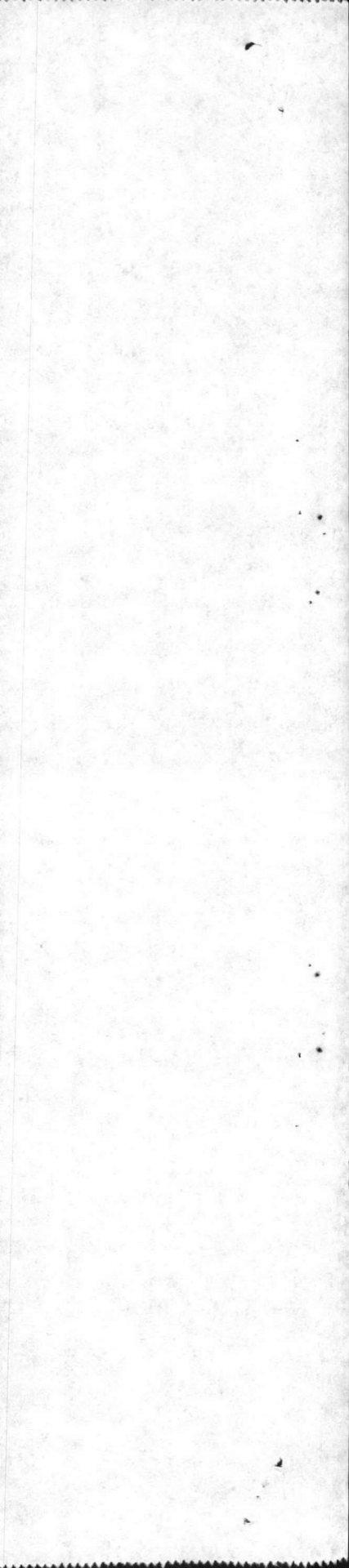
187080  
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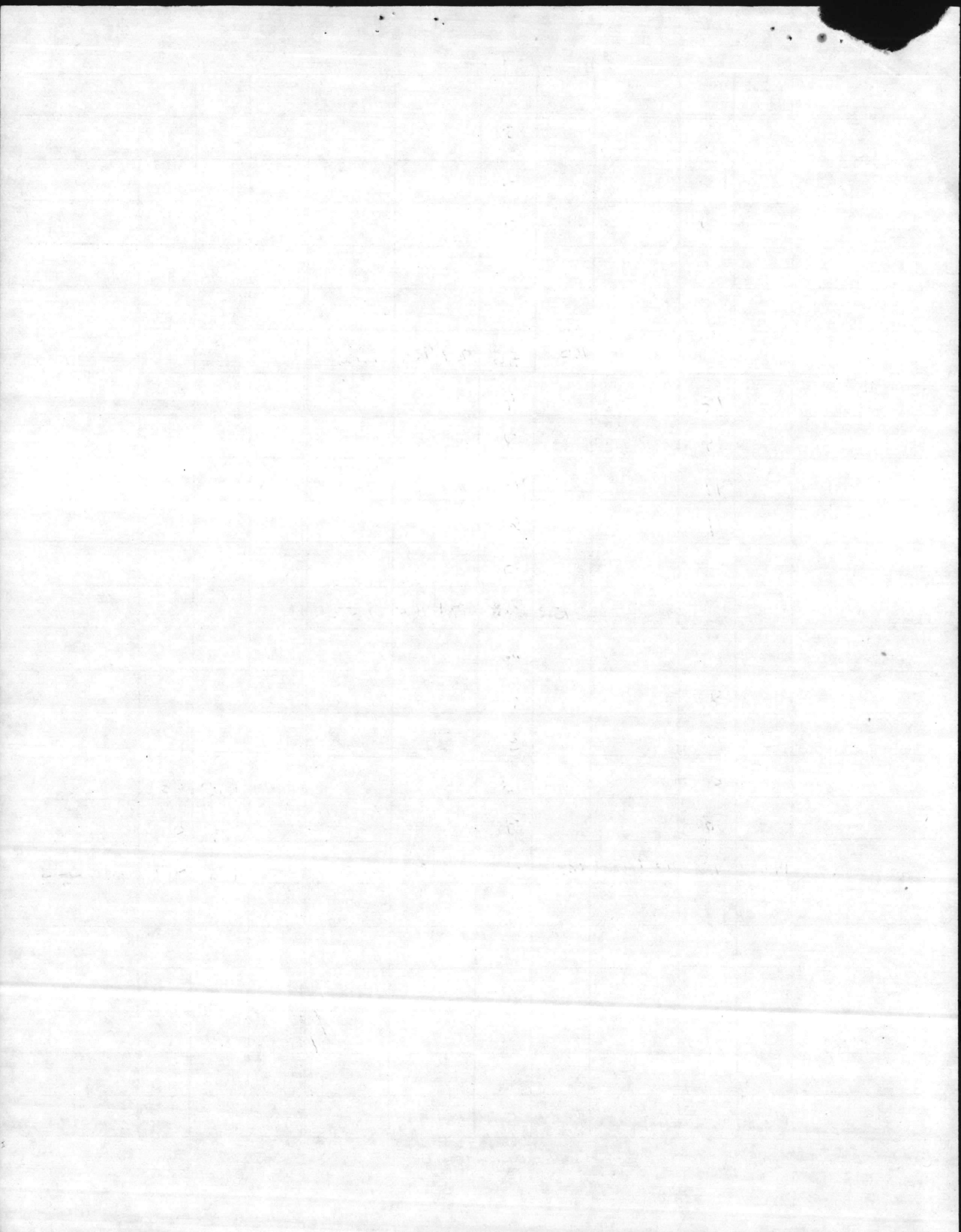


MONTH: JUNE

YEAR: 1982

	BOD		BOD		TSS	TSS	TSS	(GEOMETRIC) COLIFORM		pH	RES. CL <sub>2</sub>	FLOW	
	INF	EFF	(1) %	(2)	INF	EFF	(1) %						(2)
PLANT: CG													
WEEK OF: 1-5		6				3							
6-12		8				7							
13-19		8				3							
20-26		8				5			MIN	6.1	2.3		
27-30		9				6			MAX	6.9	3.7		
MONTHLY AVERAGE	116	7.9	93.2	91.9	105.7	4.5	95.7	93.8	1.05	AVE	6.4	3.1	1,097,100
PLANT: TT													
WEEK OF: 1-5		13				6							
6-12		14				8							
13-19		11				6							
20-26		11				8			MIN	6.7	2.5		
27-30		15				9			MAX	7.0	4.0		
MONTHLY AVERAGE	226.6	12.5	94.5	92.6	245.2	7.2	97.1	94.5	1.53	AVE	6.8	3.7	1,016,443
PLANT: CJ													
WEEK OF: 1-5		10				4							
6-12		8				5							
13-19		10				5							
20-26		8				3			MIN	6.0	1.5		
27-30		10				4			MAX	7.4	8.0		
MONTHLY AVERAGE	147.6	9.0	93.9	93.1	128.8	4.2	96.7	95.3	2.32	AVE	6.5	3.9	267,830
PLANT: HP													
WEEK OF: 1-5		15				4							
6-12		10				6							
13-19		11				5							
20-26		11				8			MIN	6.4	3.3		
27-30		11				7			MAX	6.8	4.0		
MONTHLY AVERAGE	143.4	11.6	91.9	91.5	127.3	5.8	95.4	94.4	9.38	AVE	6.6	3.9	5,405,800

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL

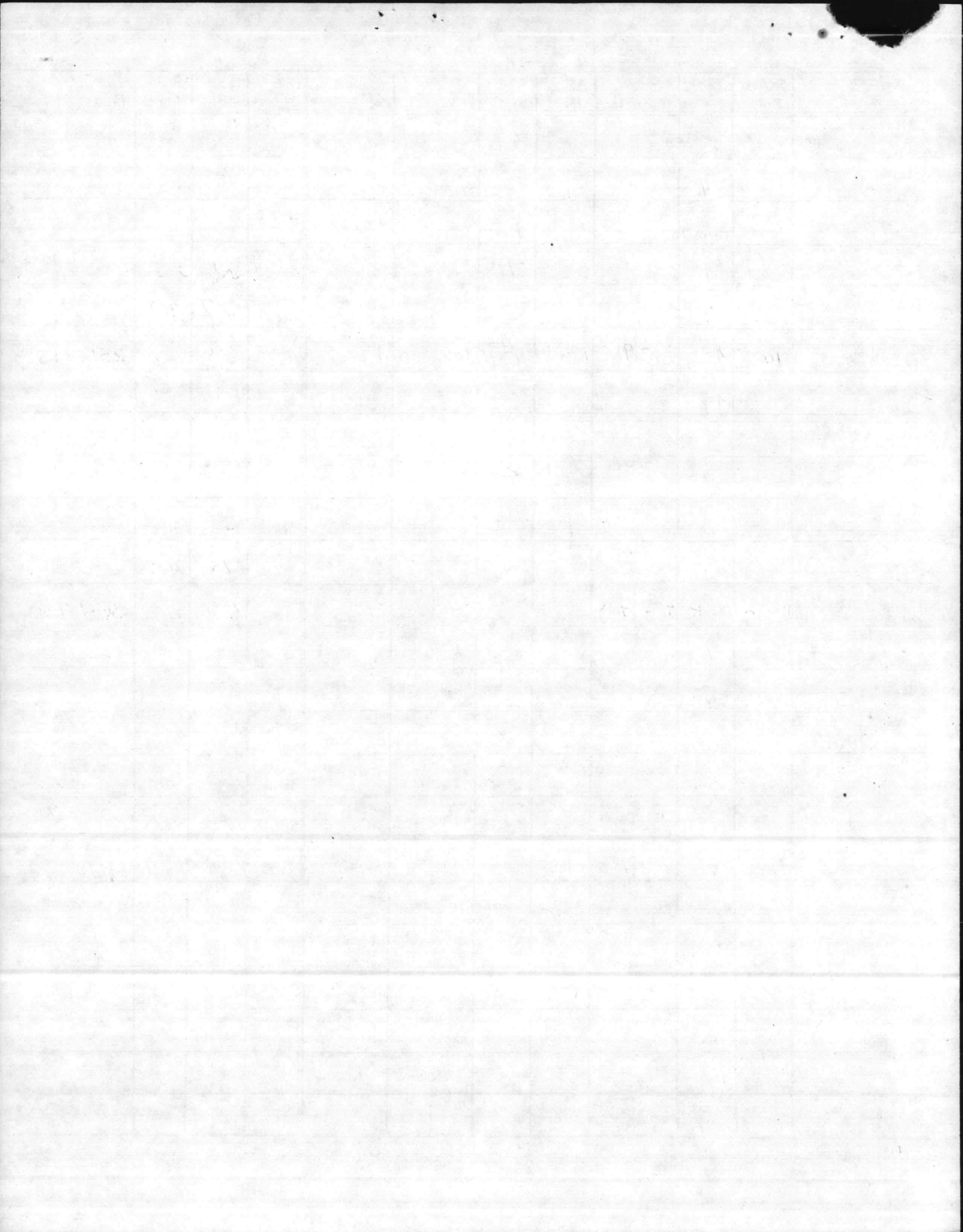


MONTH: JUNE

YEAR: 1982

	BOD	BOD	BOD		TSS	TSS	TSS		(GEOMETRIC)	pH	RES.	FLOW	
	INF	EFF	(1) % (2)		INF	EFF	(1) % (2)		COLIFORM		CL <sub>2</sub>		
PLANT: RR													
WEEK OF: 1-5		3				4.5							
6-12		4				2							
13-19		16				9.5							
20-26		8				4.5				MIN	6.4	3.5	
27-30		6				2				MAX	6.8	4.0	
MONTHLY AVERAGE	44.2	4.3	90.3	90.3	123.2	12.1	98.2	98.1	1.26	AVE	6.6	3.9	255,965
PLANT: CHB													
WEEK OF: 1-5		14				9.5							
6-12		8				9							
13-19		10.5				8.5							
20-26		8				6.5				MIN	6.6	3.5	
27-30		14				3				MAX	7.2	4.0	
MONTHLY AVERAGE	128.8	10.8	91.6	91.0	143.1	7.8	94.5	93.1	1.25	AVE	6.9	4.0	364,900
PLANT: OB													
WEEK OF: 1-5		7				5.5							
6-12		8				5							
13-19		9.5				3							
20-26		5				2.5				MIN	6.0	3.2	
27-30		15				3				MAX	7.2	4.0	
MONTHLY AVERAGE	146.2	9.0	93.8	93.3	55.7	3.9	93	93	3.17	AVE	6.6	3.9	111,533
PLANT:													
WEEK OF:													
										MIN			
										MAX			
MONTHLY AVERAGE										AVE			

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL

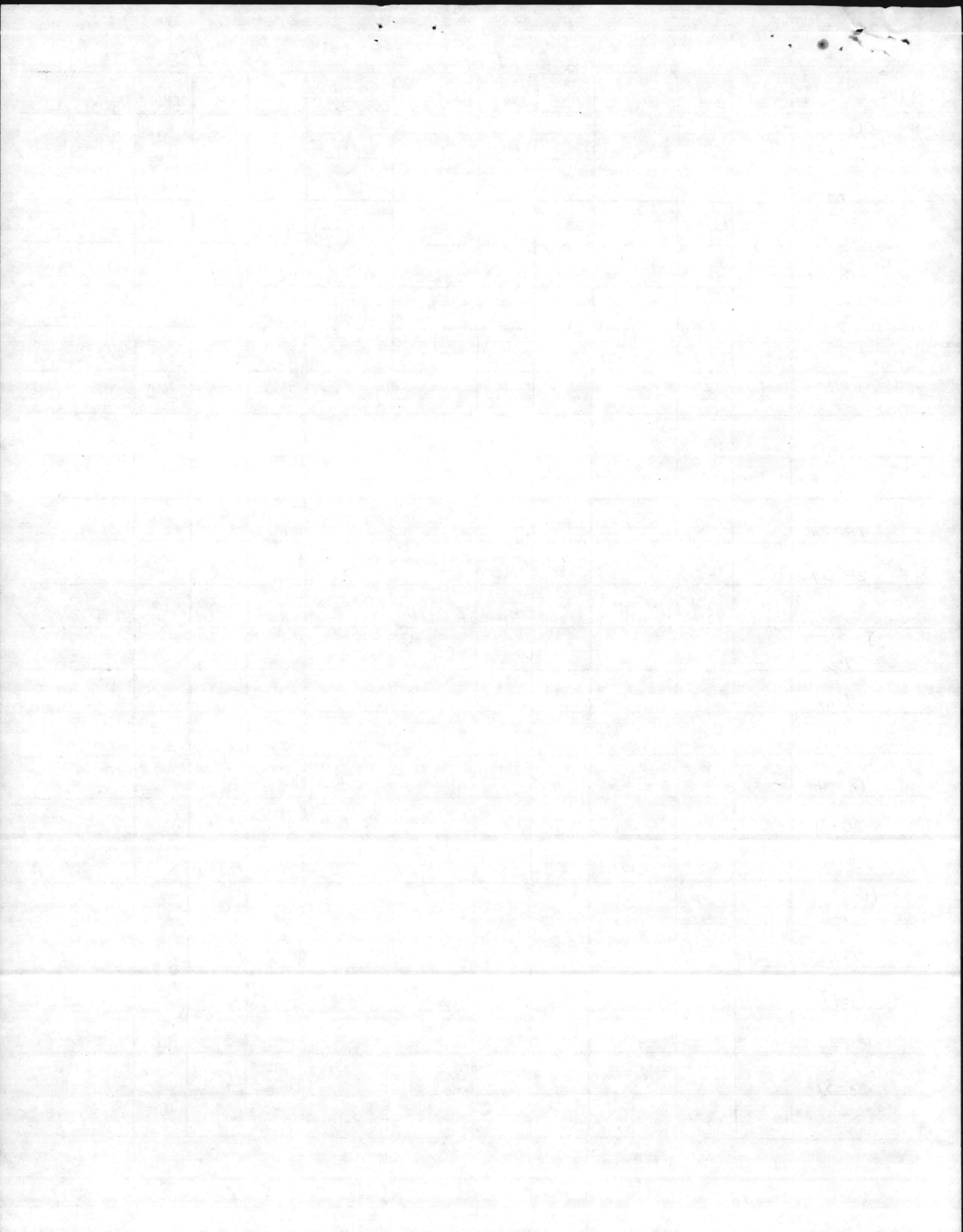


MONTH: JULY

YEAR: 1982

	BOD	BOD	BOD		TSS	TSS	TSS		(GEOMETRIC)	pH	RES.	FLOW	
	INF	EFF	(1)	(2)	INF	EFF	(1)	(2)	COLIFORM		CL <sub>2</sub>		
PLANT: CG													
WEEK OF: 1-3		7				5			0				
4-10		5				4			0				
11-17		6.75				9.25			0				
(MIN) 18-24	56	5			43	8.25			0	MIN	6.1	2.3	
(MAX) 25-31	178	7.25			207	11.25			0	MAX	6.8	3.8	
MONTHLY AVERAGE	100.1	6.2	93.8	93.1	115	7.8	93.2	90.9	0	Ave	6.49	3.0	872 096.77
PLANT: TT													
WEEK OF: 1-3		9				8							
4-10		11.5				9.75							
11-17		12.5				9.5							
18-24		7.7			42	5.0				MIN	6.4	2.0	
25-31		10			232	11.0				MAX	7.0	5.0	
MONTHLY AVERAGE	128	10.4	91.9	91.7	137	8.7	93.6	91.2	1.92	Ave	6.7	3.65	1,108,690
PLANT: CO													
WEEK OF: 1-3		7				1.5			0				
4-10		6.75				3			0				
11-17		7.25				5.75			1.26				
18-24		5.3			57	2.75			7.46	MIN	6.1	2.2	
25-31		15.5			393	7.25			0	MAX	7.0	6.0	
MONTHLY AVERAGE	122.4	8.7	92.9	91.1	105.5	4.3	95.9	95.0	1.68	Ave	6.45	3.9	389,161
PLANT: HP													
WEEK OF: 1-3		9				6							
4-10		7.4				7.4							
11-17		10				8.2							
18-24	70	8.5			40	6.6				MIN	6.2	3.8	
25-31	232	12.8			272	9.6				MAX	6.8	6.5	
MONTHLY AVERAGE	132.1	9.7	92.65	92.5	128	7.8	93.9	92.9	26.41	Ave	6.56	4.2	6,051,225.8

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL



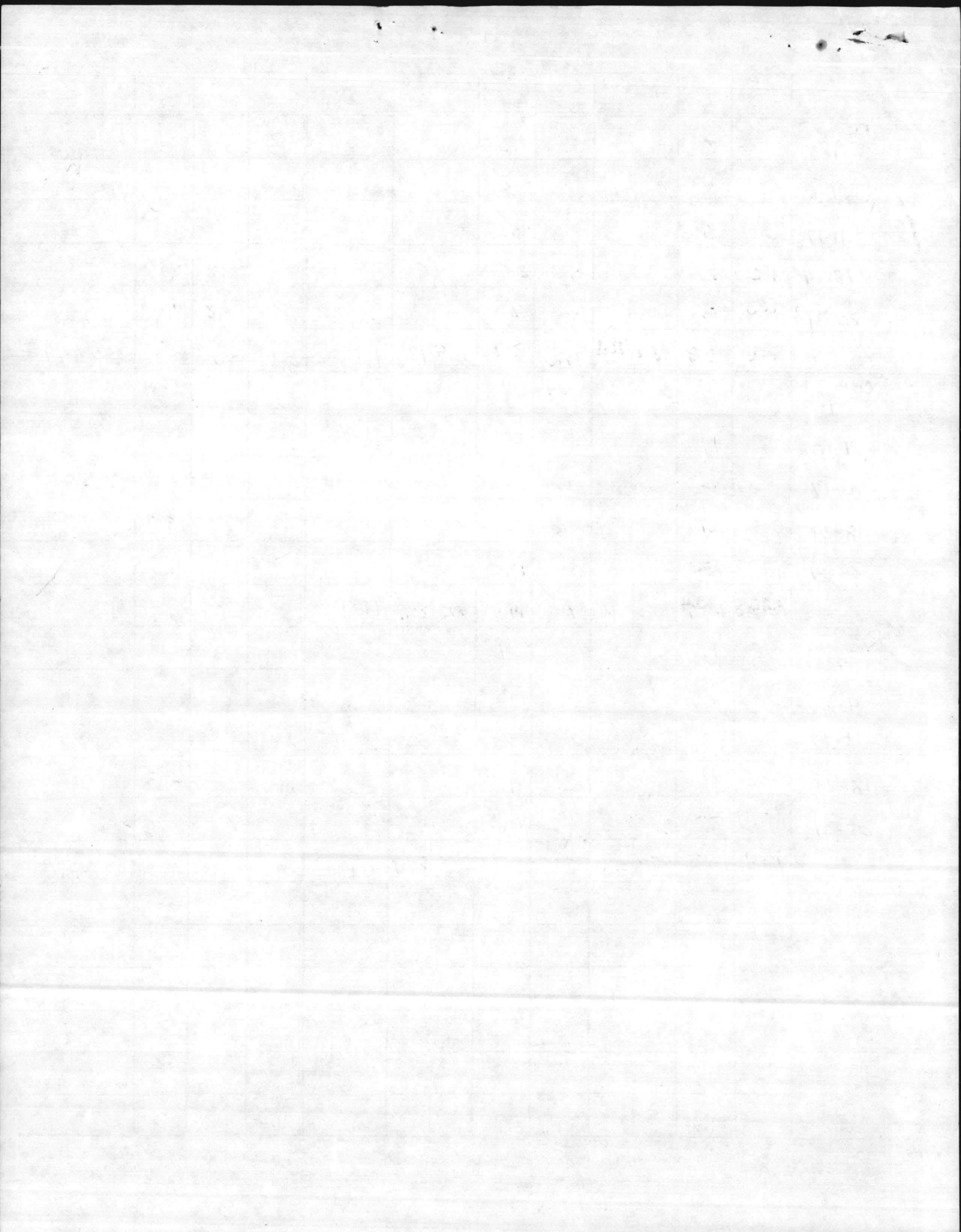


MONTH:

YEAR:

	BOD		BOD		TSS		TSS		(GEOMETRIC) COLIFORM		pH	Res. Cl <sub>2</sub>	Flow
	INF	EFF	(1) %	(2)	INF	EFF	(1) %	(2)					
PLANT: RR													
WEEK OF: 1-3		3				2							
4-10		3				3							
11-17		3				3.5							
18-24	12	2			35	2.5				MIN	6.2	3.2	
25-31	80	3			168	4				MAX	6.8	4.4	
MONTHLY AVERAGE	37.6	2.9	92.3	88.55	96.6	3.1	96.8	95.7	1.17	Ave	6.6	3.8	257341
PLANT: CHB						4							
WEEK OF: 1-3		6											
4-10		11				12							
11-17		14.5				22							
18-24	65	4			74	12				MIN	6.6	3.0	
25-31	163	12			283	17.5				MAX	7.4	5.5	
MONTHLY AVERAGE	109.6	10.6	90.3	89.6	150	14.6	90.3	89.7	1.51	Ave	6.87	4.1	328480.6
PLANT: RR						1							
WEEK OF: 1-3		6											
4-10		7.5				3							
11-17		6.5				6							
18-24	65	2			9	4.5				MIN	6.3	2.3	
25-31	143	28			88	13.5				MAX	7.2	8.0	
MONTHLY AVERAGE	90.4	11.5	87.3	86.6	54.6	6.1	88.8	87.7	1.99	Ave	6.68	4.5	85290.3
PLANT:													
WEEK OF:													
										MIN			
										MAX			
MONTHLY AVERAGE										Ave			

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL



MONTH: ~~11~~ AUGUST

YEAR: 1982

	BOD INF	BOD EFF	BOD (1) % (2)		TSS INF	TSS EFF	TSS (1) % (2)		(GEOMETRIC) COLIFORM		pH	RES. Cl <sub>2</sub>	Flow
PLANT: CG													
WEEK OF: 1-7		8.5				5.0			0				
8-14		6.5				5.0			140.94				
15-21		10.3				8.75			0				
22-28	100	8.25			81	5.0			1.2599	MIN	6.2	2.5	
29-31	240	8			480	5.0			0	MAX	6.7	4.0	
MONTHLY AVERAGE	146.5	8.5	94.2	93.9	171.4	5.9	96.5	96.1	3.30	AVE		3.4	1,106,977
PLANT: TT													
WEEK OF: 1-7		10.75				8.0			1.2599				
8-14		12.0				8.75			148.09				
15-21		14.7				10.75			0				
22-28	113	12.5			70	7.5			1.2599	MIN	6.5	3.2	
29-31	182	16			590	9.0			4	MAX	7.0	4.4	
MONTHLY AVERAGE	151.6	12.6	91.4	91.6	218.8	8.8	95.9	93.9	3.92	AVE		(78) 3.8	874996.8
PLANT: CT													
WEEK OF: 1-7		8.0				3.75			3.476				
8-14		4.5				1.75			223.47				
15-21		4.7				3.75			0				
22-28	33	5.0			32	4.0			0	MIN	6.0	2.8	
29-31	175	4.0			240	2			0	MAX	7.0	8.0	
MONTHLY AVERAGE	109.3	6.2	94.5	92.7	101.6	3.2	97.1	95.3	4.64	AVE		4.7	332612.9
PLANT: EP													
WEEK OF: 1-7		10.2 6.2				6.2							
8-14		8.3 4.6				4.6							
15-21		10.5				7.6							
22-28	84	8.8			48	6.0				MIN	6.3	4.0	
29-31	165	9.0			150	5.0				MAX	7.2	6.5	
MONTHLY AVERAGE	116.6	9.5	91.9	91.9	84.1	6.0	92.9	92.8	3.36	AVE		4.6	6,151,838.7

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL



MONTH: AUGUST

YEAR: 1982

	BOD		BOD		TSS		TSS		TSS		(GEOMETRIC) COLIFORM	PH	RES. CL <sub>2</sub>	FLOW
	INF	EFF	(1) %	(2)	INF	EFF	(1) %	(2)	(1) %	(2)				
PLANT: RR														
WEEK OF: 1-7		4.0				1.5								
8-14		1.0				1.5								
15-21		5.0				2.0								
22-28	30	3.5			33	2.0					MIN	6.2	3.4	
29-31	104	2.0			275	1.0					MAX	6.8	4.8	
MONTHLY AVERAGE	61.5	4.2	93.2	91.2	123.2	1.7	98.3	97.7	1.16		AVE		4.0	252,700.6
PLANT: CHB														
WEEK OF: 1-7		9.5				8.5								
8-14		24				11.5								
15-21		9.5				5.5								
22-28	40	8.0			55	8.5					MIN	6.6	3.0	
29-31	176	10.0			182	6.0					MAX	7.0	6.0	
MONTHLY AVERAGE	106.1	11	89.6	88	98.7	8.2	91.9	90.8	1.32		AVE		4.2	356,648.4
PLANT: DB														
WEEK OF: 1-7		9.0				8.5								
8-14		13.0				3.0								
15-21		11.0				6.0								
22-28	50	9.0			13	5.5					MIN	6.0	2.7	
29-31	240	8.0			220	3.0					MAX	7.2	8.1	
MONTHLY AVERAGE	123.2	9.9	91.9	89.9	68.1	5.4	92.6	86.7	4.27		AVE		4.7	113,957.7
PLANT:														
WEEK OF:														
MONTHLY AVERAGE											AVE			

- (1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT
- (2) AVERAGE OF THE DAILY PERCENT REMOVAL

		2.1		0.4		1.1
		2.1		1		1.1
		0.5		0.2		1.1
1.5 0.0		0.5	2.2	2.2	0.2	1.1
1.8 0.1		0.1	2.5	0.5	1.0	1.1
1.5 0.0	1.5 0.0	1.1	2.1	2.1	1.1	1.1
		2.1		2.1		1.1
		2.1		1.1		1.1
		2.1		2.1		1.1
1.5 0.0		2.1	2.2	0.8	0.1	1.1
1.8 0.1		2.1	2.1	1.1	1.1	1.1
1.5 0.0	1.5 0.0	2.2		0.7		1.1
		0.1		0.1		1.1
		0.1		0.1		1.1
1.5 0.0		2.1	2.1	0.1	0.2	1.1
1.8 0.1		0.1	2.1	0.8	0.1	1.1
1.5 0.0	1.5 0.0	1.1	2.1	1.1	1.1	1.1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2000-0015 29 JUL 82

NAME COMMANDING GENERAL  
 ADDRESS MARINE CORPS BASE  
CAMP LEJEUNE NC 28542

NC0003239  
 PERMIT NUMBER

029  
 DISCHARGE NUMBER

SD29  
 STORM DRAIN DOWNSTREAM OF:  
 POL STORAGE/GREASERACK  
 DISCHARGES  
 (TO BE E  
 LIMINATED)

FACILITY UIC 67001  
 LOCATION LANTDIV

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
82	06	01	TO	82	06	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
00056 FLOWRATE				GPD	*****	*****	*****			000/30	
ME: NO SAMPLE		NOT	QUANTIFIED		*****	*****	*****			001/90	GRAB
00403 PH LABORATORY		*****	*****		*****	*****	*****			000/30	
ME: NO SAMPLE		*****	*****		6.0000	*****	9.0000			001/90	GRAB
00530 TOTAL SUSPENDED SOLIDS		*****	*****		*****	*****	*****	MG/L		000/30	
ME: NO SAMPLE		*****	*****		*****	*****	50.0000			001/90	GRAB
00530 TOTAL SUSPENDED SOLIDS				LB/DAY	*****	*****	*****			000/30	
ME: NO SAMPLE		NOT	QUANTIFIED		*****	*****	*****			001/90	GRAB
70350 OIL AND GREASE		*****	*****		*****	*****	*****	MG/L		000/30	
ME: NO SAMPLE		*****	*****		*****	*****	15.0000			001/90	GRAB
70350 OIL AND GREASE				LB/DAY	*****	*****	*****			000/30	
ME: NO SAMPLE		NOT	QUANTIFIED		*****	*****	*****			001/90	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED						

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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NAME COMMANDING GENERAL  
 ADDRESS MARINE CORPS BASE  
CAMP LEJEUNE NC 28542  
 FACILITY UIC 67001  
 LOCATION LANTDIV

NC0003239  
 PERMIT NUMBER

033  
 DISCHARGE NUMBER

SD33

STORM DRAIN DOWNSTREAM OF:  
 GREASERACK DISCHARGE  
 (TO BE E

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
82	06	01	TO	82	06	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

LIMITED)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00056 FLOWRATE ME: NO SAMPLE				GPD	*****	*****	*****			000/30	
		NOT	QUANTIFIED		*****	*****	*****			001/90	GRAB
00403 PH LABORATORY ME: NO SAMPLE		*****	*****		*****	*****	*****			000/30	
		*****	*****		6.0000	*****	9.0000			001/90	GRAB
00530 TOTAL SUSPENDED SOLIDS ME: NO SAMPLE		*****	*****		*****	*****	*****	MG/L		000/30	
		*****	*****		*****	*****	50.0000			001/90	GRAB
00530 TOTAL SUSPENDED SOLIDS ME: NO SAMPLE				LB/DAY	*****	*****	*****			000/30	
		NOT	QUANTIFIED		*****	*****	*****			001/90	GRAB
70350 OIL AND GREASE ME: NO SAMPLE		*****	*****		*****	*****	*****	MG/L		000/30	
		*****	*****		*****	*****	15.0000			001/90	GRAB
70350 OIL AND GREASE ME: NO SAMPLE				LB/DAY	*****	*****	*****			000/30	
		NOT	QUANTIFIED		*****	*****	*****			001/90	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
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NAME COMMANDING GENERAL  
 ADDRESS MARINE CORPS BASE  
 CAMP LEJEUNE NC 28542  
 FACILITY TIC 87001  
 LOCATION LANTDIV

SC001923  
 PERMIT NUMBER

020  
 DISCHARGE NUMBER

MONITORING PERIOD  
 FROM YEAR 82 MO 06 DAY 01 TO YEAR 82 MO 06 DAY 30  
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00050 FLOWRATE	NO SAMPLE			GPD					000/30	
00003 PH LABORATORY	NO SAMPLE								000/30	
00530 TOTAL SUSPENDED SOLIDS	NO SAMPLE								000/30	
00530 TOTAL SUSPENDED SOLIDS	NO SAMPLE			LB/DAY					000/30	
00350 OIL AND GREASE	NO SAMPLE								000/30	
00350 OIL AND GREASE	NO SAMPLE			LB/DAY					000/30	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipals with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
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14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2000-0015

NAME COMMANDING GENERAL  
 ADDRESS MARINE CORPS BASE  
CAMP LEJEUNE NC 28542

PERMIT NUMBER NC0003237

DISCHARGE NUMBER 033

FACILITY JTC 57001  
 LOCATION LANTOIV

MONITORING PERIOD  
 FROM YEAR 02 MO 06 DAY 01 TO YEAR 02 MO 06 DAY 30  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
00056 FLOWRATE # NO SAMPLE				GPD					000/30		
				NOT QUANTIFIED					001/30	GRAB	
00403 PH LABORATORY # NO SAMPLE									000/30		
									001/30	GRAB	
00530 TOTAL SUSPENDED SOLIDS # NO SAMPLE									000/30		
									001/30	GRAB	
00530 TOTAL SUSPENDED SOLIDS # NO SAMPLE				LB/ DAY					000/30		
				NOT QUANTIFIED					001/30	GRAB	
00350 OIL AND GREASE # NO SAMPLE									000/30		
									001/30	GRAB	
00350 OIL AND GREASE # NO SAMPLE				LB/ DAY					000/30		
				NOT QUANTIFIED					001/30	GRAB	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2000-0015

NAME COMMANDING GENERAL  
 ADDRESS MARINE CORPS BASE  
CAMP LEJEUNE NC 28542  
 FACILITY UTL 87001  
 LOCATION CANTON

PERMIT NUMBER  
1873237

DISCHARGE NUMBER  
033

MONITORING PERIOD  
 FROM 

YEAR	MO	DAY
02	16	91

 TO 

YEAR	MO	DAY
87	04	30

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
0050 FLOWRATE NO SAMPLE				CPD							
0040 PH LABORATORY NO SAMPLE											
0030 TOTAL SUSPENDED SOLIDS NO SAMPLE											
0050 TOTAL SUSPENDED SOLIDS NO SAMPLE											
0030 OIL AND GREASE NO SAMPLE											
0030 OIL AND GREASE NO SAMPLE											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
			AREA CODE	NUMBER	YEAR

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2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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NAME COMMANDING GENERAL  
 ADDRESS CAMP LEJUNE MILITARY BASE  
CAMP LEJUNE MC 265-2  
 FACILITY DTIC 57001  
 LOCATION LANTDIV

PERMIT NUMBER 0000052

DISCHARGE NUMBER 00000000

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
82	08	01	TO	82	08	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00030 FLOWRATE										
NO SAMPLE										
00003 PH LABORATORY										
NO SAMPLE										
00530 TOTAL SUSPENDED SOLIDS										
NO SAMPLE										
00530 TOTAL SUSPENDED SOLIDS										
NO SAMPLE										
00350 OIL AND GREASE										
NO SAMPLE										
00350 OIL AND GREASE										
NO SAMPLE										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipals with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

FOLD HERE SECOND

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HERE  
 STAMP  
 PLACE

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FOLD HERE THIRD

STAPLE HERE

Date: 4 November 1982

Memorandum for the Record

From: Ms. Betz, Quality Control Lab, Environmental Br, NREAD, Facilities

Subj: 28 October 1982 Briefing with Colonel J. T. Marshall AS/C Facilities

1. On 28 October 1982, Julian Wooten and Elizabeth Betz went to Bldg 1 to brief the assistant chief of staff-Facilities, Col. Marshall, on the June-August 1982 NPDES Quarterly Report. Col. Fritzgerald was also present. The report was submitted to Col. Marshall for his signature and release.
2. Col. Marshall inquired about the reasons for missing data. The operator error for the coliform sample was easily explained, do to an operator forgetting to take the sample or the sample still having chlorine present when received by the lab. The missing BOD samples were explained by the new still, with a demineralizer that is using up cartridges at a much greater rate. And that an old and a brand new cartridge produces unsatisfactory water for the BOD analysis. I explained that a schedule was being worked out to alternate between the two stills to avoid using bad water.
3. Col. Marshall inquired into the storm drain violations. First, I pointed out the overlap of storm drain quarters and sewage plant quarters; an NPDES permit will have the last month of one quarter of storm drains and the first month of the next quarter. He had inquired as to the frequency of these violations. I pointed out that 42 and 47 were repeated violators and their point source is the main Steam Plant and Coal Pile. As for the others, I stated they were not repeated violators and that I was not sure of their frequency. I also stated that with P996 the list of violations had reduced and that a good portion of our 71 storm drains are drying up or at least not flunking.
4. Col. Marshall signed the report. He was assured that the reason for its delay was LANTDIV and not ours. However I failed to point out and explain the pen changes. Since the cover letter did not go into them I forgot to.
5. With the quarterly report aside, the Colonel brought up the question of how accurate the sampling is. Of course, when the operators in charge of operating are taking the samples, the question of forging samples always exists. I pointed out that occasional odd high flows have been seen and chlorine has been found where it shouldn't be. I also stated that the sewage samples have greatly improved during the past year, do to the efforts of the sewage foreman.
6. Next thing brought up was the possibility of spot checking. I stated that since most samples were composited, automatic samplers could be used for spot checking. The time element of traveling and transporting the sample(s) was brought up. I also stated that we had an automatic sampler. The Colonel stated that he wanted to see some spot checking. During a phone conversation held later that day with Mr. Davis, Mack stated he had no problems with the spot checks. Examination of our Isco composite sampler shows that flow proportioning can not be done. also electrical service has to be provided until a new battery pack can be obtained.
7. The Colonel then raised the question about the Lab taking over sampling. He wants manpower and costs prepared. I stated automatic samplers would be required.

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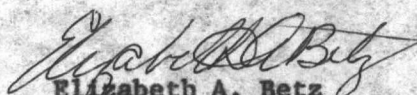
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Date: 4 November 1982

8. The final area covered was PCBs and Equipment needed. Col Marshall inquired as to the capacity for PCB analysis by the lab at present. I explained the flame test. He directed us to go out to Piney Green Rd and see what we could do and do it.
9. The Colonel then asked what would be needed to run PCBs. I stated a gas chromatograph, which could also run THMs and other organic analysis, at a cost of at least \$12,000. I then added that THM analysis cost \$25/sample at 5 samples/plann and FY82's contract ran over \$3,000 (\$5,000 to be exact). I also added that a gas chromatograph required continuous electrical power, ~~weeks~~ as in emergency generator for power outages, since it takes weeks to recalibrate. Also for proper care it should be kept at a constant temperature range, which presently the lab is not. Mr. Wooten mentioned the plans and money presently in the system to put the lab on its own heating and cooling system.
10. The Colonel stated he was still planning to visit the laboratory.

  
Elizabeth A. Betz  
Supervisory Chemist



Date: November 1953

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, and the records of the Bureau of Reclamation, and the records of the Bureau of Indian Affairs.

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The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, and the records of the Bureau of Reclamation, and the records of the Bureau of Indian Affairs.

*[Handwritten signature]*  
Special Agent in Charge

Date: 4 November 1982

## Memorandum for the Record

From: Ms. Betz, Quality Control Lab, Environmental Se, NREAD, Facilities

Subj: Sewage Operational Testing at Hadnot Point with Chlorine Residuals

Encl: (1) 26 October 1982 Results  
(2) 27 October 1982 Results

1. Background: In 1979, during LANTDIV's Environmental Survey, it was recommended that MCBCL Sewage Treatment Plants reduce their chlorine residuals. In the summer of 1981, the coliform counts increased so the chlorine residuals were raised. In preparation of the 1982 survey, Fred Cone, present Utilities Director, called for some testing and results to support the fact that 1.0-2.0ppm chlorine residuals would not kill bacteria sufficiently at MCBCL.
2. On 26 October 1982, Mack Davis, foreman at the Sewage Treatment Plants, under Fred Cone's orders, instructed his operators on the 12-8 shift to reduce the chlorine level to 1.0ppm in the contact chamber. When the chlorine reached 1.0ppm a bacteria sample was taken. The chlorine was then raised to 2.0ppm and a sample taken, then to 3.0ppm and 4.0ppm.
3. The four bacteria samples were brought to the Quality Control Lab for analysis. Enclosure (1) is a copy of the lab results. Below is a table summarizing the results.

Time	Chlorine Residual(ppm)	Total Coliform(/100ml)
3:45	1.0	4,000
5:15	2.0	86
5:45	3.0	50
6:30	4.0	46

4. Do to the closeness of the 2.0-4.0ppm samples further testing was done, on 27 October 1982, by Mack Davis, Elizabeth Betz, and Gaines Huneycutt. This time to prevent any further pollution in the river, testing was done using jars instead of the contact chamber. Samples were pulled off the secondary clarifier, just before the contact chamber. A saturated solution of HTH was prepared and used to chlorinate the rest of the samples. Chlorination was done by hit and miss since the chlorine demand was unknown. The first chlorine residual obtained was 2.0ppm, that was set aside and bacteria samples were pulled every ten minutes, for thirty minutes. At thirty minutes a final chlorine residual was taken, it had dropped to 1.5ppm. The second chlorine residual reached was 4.0ppm. It was set aside and bacteria samples pulled, its final chlorine residual readings was also 4.0ppm. The third was 1.0ppm with its final reading at 0.8ppm. The last chlorine residual reached was 3.0ppm and its final reading was 2.5ppm.

5. The samples were brought back to the lab and three dilutions (50 ml, 10 ml, 0.1 ml) for Total Coliform and two dilutions (50 ml, 100 ml) for Fecal Coliform were run. The samples were run in order of the highest chlorine residual and longest contact time to shortest contact time, same chlorine level, to next highest chlorine residual and so on (4.0ppm 30min, 400ppm 20min, ... 1.0ppm 10min). Complete results are shown on Enclosure (2). Below is a summary.



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First main paragraph of faint, illegible text.

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Third main paragraph of faint, illegible text.

Fourth main paragraph of faint, illegible text.

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Sixth main paragraph of faint, illegible text.

Seventh main paragraph of faint, illegible text.

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Cl <sub>2</sub> Res	10 min	Total		30 min	10 min	Fecal	
		20 min	30 min			20 min	30 min
1.0	TNTC	50,000	15,000		400	34	8
2.0	50,000	3,000	20		20	6	2
3.0	24	2	0*		0	0	0
4.0	750	10	0		46	2	0

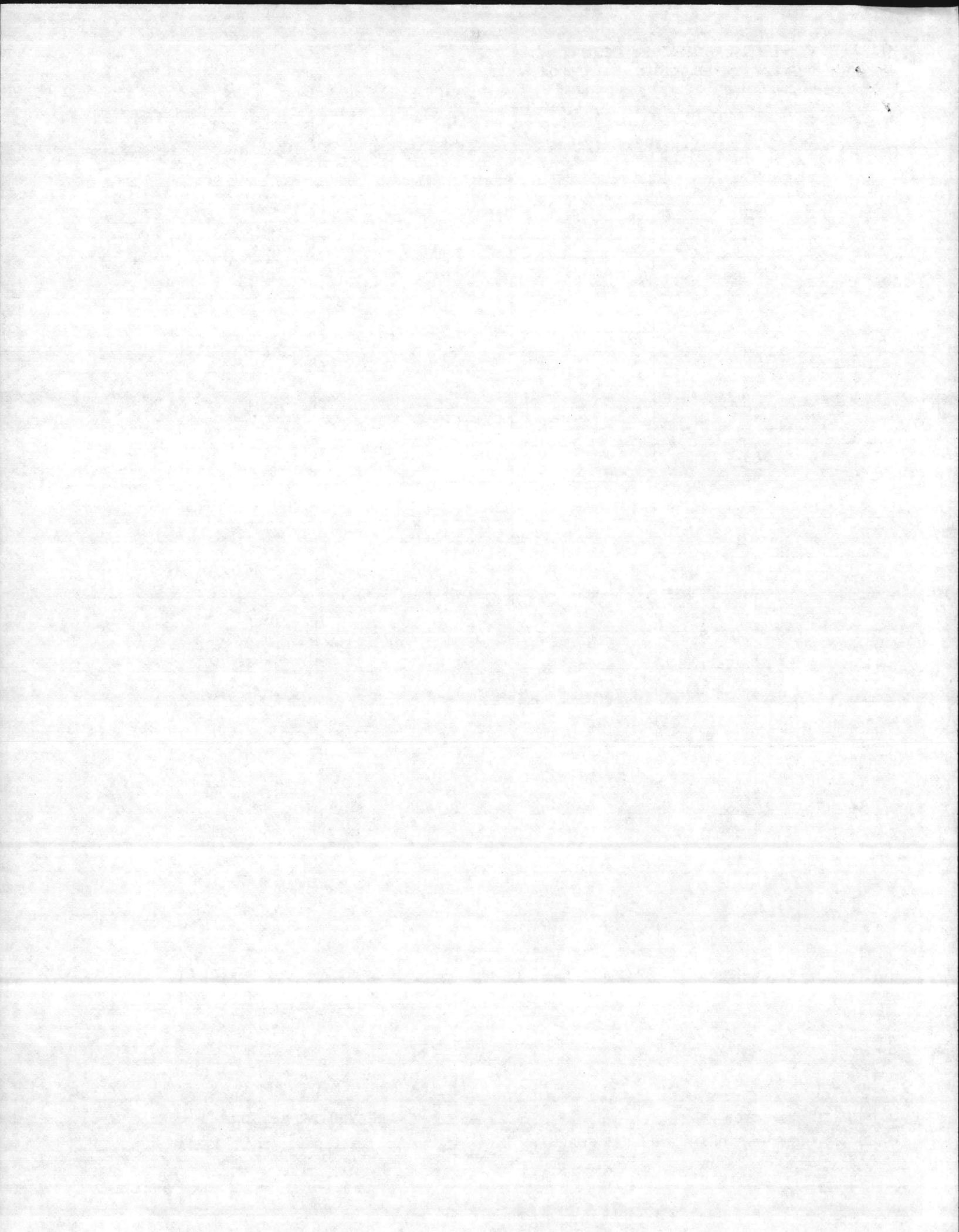
The 3.0ppm30min(50ml dilution) plate yeilded 24 colonies, mostly likely non-coliform, that were under stress.

6. These results show that 1.0-2.0ppm chlorine could no kill all the bacteria

*Elizabeth A. Betz*  
 Elizabeth A. Betz  
 Supervisory Chemist

*John J. [unclear]*





**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

MCBCL 11880/8 (REV. 4/78)

WATER TYPE AFTER 2 <sup>ND</sup>		SAMPLE COLLECTED BY			DATE COLLECTED		
HP STP - CLARIFIER		DAVIS, BETZ + HUNEYCUTT			27 OCTOBER 1982		
CL <sub>2</sub>	LOCATION	TIME MARKED	COLIFORM			FECAL	
			TOTAL DILUTIONS			DILUTIONS	
			50 ml	10 ml	0.1 ml	50 ml	1.0 ml
<del>1.0</del>		<del>10 min</del>					
1.0 PPM		10 MIN	TNTC	TNTC	TNTC	TNTC	400
		20 MIN	TNTC	TNTC	>50,000 TNTC	34	200
		30 MIN	TNTC	TNTC	15,000	8	0
2.0 PPM		10 MIN	TNTC	TNTC	750,000	20	0
		20 MIN	TNTC	TNTC	3,000	6	0
		30 MIN	20	20	1,000	2	0
3.0 PPM		10 MIN	24	30	0	0	0
		20 MIN	2	0	0	0	0
		30 MIN	?*	0	0	0	0
4.0 PPM		10 MIN	TNTC	750	0	46	0
		20 MIN	10	0	0	2	0
		30 MIN	0	0	0	0	0

ALL COUNTS ARE REPORTED AS COLONIES/100 ML

REMARKS THIS WAS AN EXPERIMENT. THE WATER WAS PULLED AT THE 2<sup>ND</sup> CLARIFIER. HTH WAS ADDED TO 4. SAMPLES TO REACH THE CL<sub>2</sub> RESIDUALS.

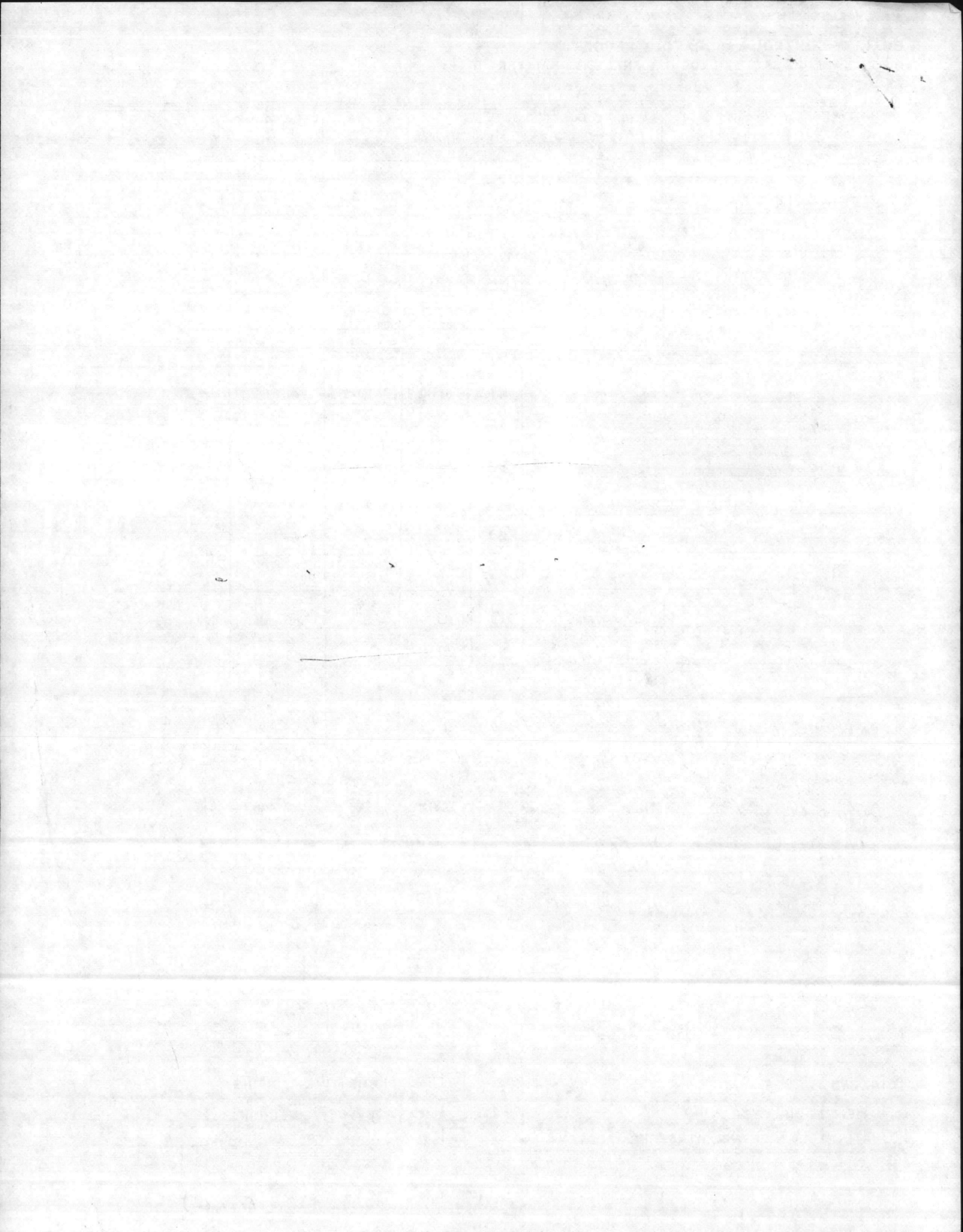
INITIAL CL <sub>2</sub>	TIME <sub>I</sub>	TIME <sub>10</sub>	TIME <sub>20</sub>	TIME <sub>30</sub> (FINAL)	FINAL CL <sub>2</sub>
2.0	11:07	11:17	11:27	11:37	1.5
4.0	11:14	11:24	11:34	11:44	4.0
1.0	11:20	11:30	11:40	11:50	0.8
3.0	11:26	11:36	11:46	11:56	2.5

\* THIS HAD 24 STRESS COLONIES - UNABLE TO DETERMINE IF IT IS COLIFORM

SIGNATURE Elizabeth A. Betz DATE 28 OCTOBER 1982

COPY TO

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





UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542

*Belay*

IN REPLY REFER TO  
MAIN/DDS/spk  
6280/2

*23 Jun 1982*

Regional Administrator  
Environmental Protection Agency  
Region IV, Water Enforcement Branch  
345 Courtland Street  
Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of the National Pollutant Discharge Elimination System (NPDES) permit number NC0003239, Discharge Monitoring Reports (DMRs) for the period March, April and May 1982 are submitted. This quarterly report was delayed due to the late return of May 1982 DMRs from Atlantic Division, Naval Facilities Engineering Command which prints the DMRs.

Paragraph 2, of effluent limitation and monitoring requirements for each outfall, under Part I of the NPDES permit number NC0003239 for Marine Corps Base, Camp Lejeune, requires that the monthly percent removal of BODs and suspended solids shall be calculated by comparing monthly average influent to monthly average effluent. The enclosed DMRs, generated by Atlantic Division, Naval Facilities Engineering Command, computes the average of the daily percent removals as the monthly percent removal. The enclosed DMRs have been pen changed to reflect the calculation method called for in the permit.

The Courthouse Bay sewage treatment plant BOD percent removal violation for May 1982 and BOD weekly effluent average violation for the week of 23 May 1982 appeared to be the result of oxygen demand of a reddish substance present in influent on 25 May 1982. Base personnel were not able to identify the substance nor its source. Sampling and laboratory errors are the cause for missing BOD and total coliform values for the Hadnot Point sewage treatment plant in May 1982. Sampling errors which occurred during the collection of the 4 May 1982 unchlorinated BOD effluent sample and the 11 May 1982 coliform sample resulted in discarding both samples due to chlorine contamination. Laboratory errors involving the 18, 27 and 29 May 1982 BOD samples were identified when dilution water used in these samples was shown by the blank controls to be unacceptable. The cause for the unsatisfactory dilution water was determined to be a bad demineralizer cartridge on the distiller used to produce distilled water.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked, however, each time they were checked, they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.





MAIN/DDS/spk  
6280/2

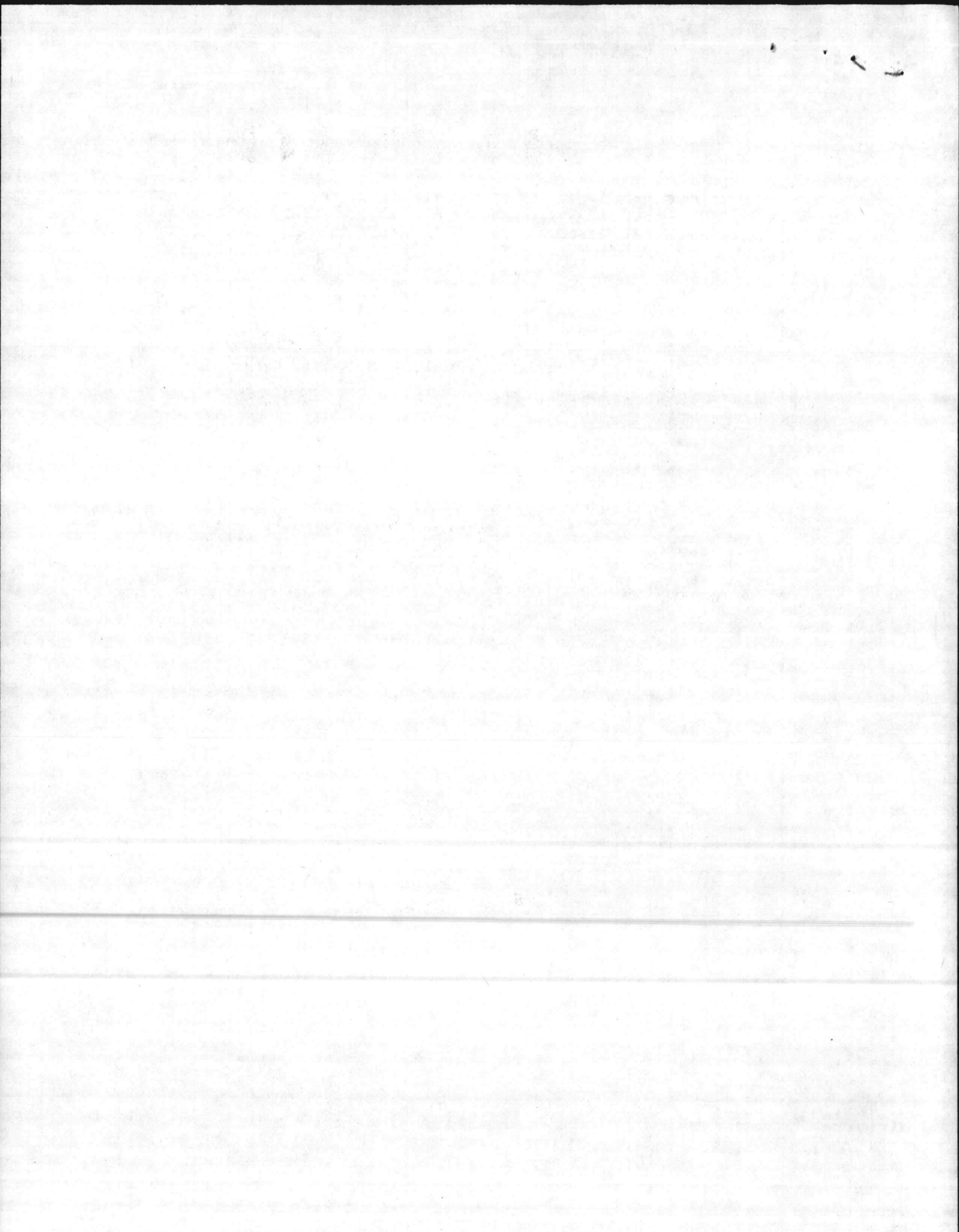
For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Natural Resources and Environmental Affairs Branch, Base Maintenance Division, telephone (919) 451-5003/2083.

Sincerely,

R. F. CALTA  
Lieutenant Colonel, U. S. Marine Corps  
Base Maintenance Officer  
By direction of Commanding General

Enclosures

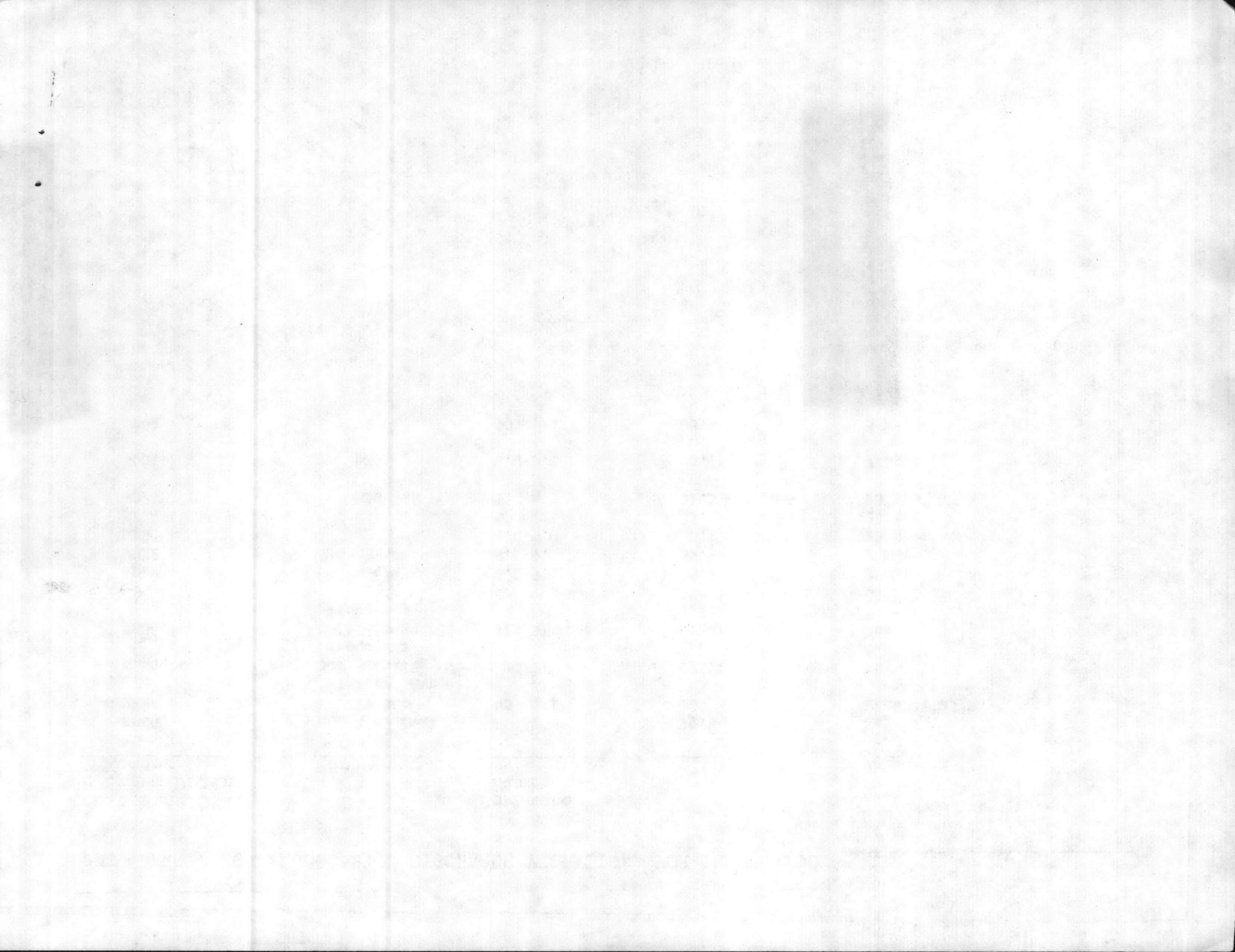
Copy to:  
N.C. Dept of Nat & Eco Res  
CMDR, LANTNAVFACENGCOM (Code 114)



## NPDES PERMIT NO. NCO003239 DISCHARGE VIOLATIONS FOR THE PERIOD

MARCH, APRIL, MAY 1982

<u>Monitoring Sta. or Storm Drain Number</u>	<u>Parameter</u>	<u>Parameter Limits</u>	<u>Value</u>	<u>Date</u>
SS06	BOD 7 Removal	85%	79.3	May
SS06	Weekly BOD Effluent Ave	45 mg/l	56	Week of 23 May
SS04	BOD Sampling Frequency	20/31	17/31	May
SS04	Coliform Sampling Frequency	2/31	11/31	May
SD20	pH	6.0-9.0	5.7	2 Mar
SD2	pH	6.0-9.0	55.7	2 Mar
SD30	pH	6.0-9.0	5.7	23 Mar
SD74	SS	50 mg/l	83.3	23 Mar
SD74	OGC	15 mg/l	31.3	23 Mar
SD51	pH	6.0-9.0	5.7	7 Apr
SD42	SS	50 mg/l	805.3	5 May



Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System permit number NC0003239, discharge monitoring reports for the period March, April, and May 1982 are submitted. This quarterly report was delayed due to the late return of May 1982 DMRs from Atlantic Division, Naval Facilities Engineering Command, which feeds the wastewater data into a computer and prints the DMRs for Marine Corps Base, Camp Lejeune.

Paragraph 2, of effluent limitation and monitoring requirements for each outfall, under Part I of National Pollutant Discharge Elimination System permit number NC0003239 for Marine Corps Base, Camp Lejeune, requires that the monthly percent removal of BODs and suspended solids shall be calculated by comparing monthly average influent to monthly average effluent. This quarterly report was initially computed by a new program developed by Atlantic Division, Naval Facilities Engineering Command, which computes the average of the daily percent removals as the monthly percent removal. The pen changes reflect the correct monthly percent removal called for in the permit.

The Courthouse Bay sewage treatment plant BOD percent removal violation for May 1982 and BOD weekly effluent average violation for the week of 23 May 1982 can be attributed to a reddish substance that entered the plant on 25 May 1982. The substance is suspected of causing the 56 mg/l BOD effluent recorded for that day. The 25 May 1982 samples were the only BOD samples for that week and therefore violated the 45 mg/l weekly effluent average and caused a monthly average percent removal of 79.3. An investigation as to the source and identity of the substance has not been fruitful.

In a system with a high degree of automation, the operator's role is to monitor the system and intervene when necessary. The operator should be able to detect and diagnose faults, and to take appropriate action to prevent further damage or to restore the system to normal operation.

The operator should be able to detect and diagnose faults, and to take appropriate action to prevent further damage or to restore the system to normal operation. This requires a high degree of vigilance and concentration, and the operator should be able to maintain this level of performance for extended periods of time.

The operator should be able to detect and diagnose faults, and to take appropriate action to prevent further damage or to restore the system to normal operation. This requires a high degree of vigilance and concentration, and the operator should be able to maintain this level of performance for extended periods of time.

Sampling and laboratory errors are the cause for missing BOD and Total Coliform values for the Hadnot Point sewage treatment plant in May 1982. Sampling errors occurred on 4 May 1982, while collecting the unchlorinated BOD effluent sample and on 11 May 1982, while collecting the coliform sample. Both samples were checked at the lab and were found invalid due to the presence of chlorine. Laboratory errors occurred when the 18, 27 and 29 May 1982 BOD samples were analyzed. The dilution water used in these samples was shown by the blank controls to be unacceptable. The cause for the bad dilution water was later attributed to a bad demineralizer cartridge on the distiller.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drains monitoring points that have been previously provided to your agency. Oily waste discharge violations are directly related to runoff from the areas with wash racks, grease racks, and maintenance areas. The major contributing factors to the presence of oily waste discharge on storm drains are due to inadequate abatement facilities. Concentrations of suspended solids that violate permit limitations may be directly attributed to runoff from roads and grounds. Storm drains that have no values reported for the quarter were checked, however, each time they were checked they were either dry or had no flow.

The base environmental staff is continuing to work on operational control methodology to reduce suspended solids discharges. An A&E firm has designed facilities to abate miscellaneous pollution discharges. The construction contract has been awarded and the estimated date of construction completion for full treatment of miscellaneous pollution sources is May 1983.

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Natural Resources and Environmental Affairs Branch, Base Maintenance Divi-

... and laboratory errors are being corrected. Total of 100  
... for the Hudson River survey was completed in May 1953. Sampling errors  
... on May 1953, while collecting the contaminated HON effluent sample and  
... 1953, while collecting the bottom sample. Both samples were taken  
... and were found invalid due to the presence of the laboratory  
... and May 1953. HON samples were analyzed. The  
... in these samples was shown to be blank and due to be  
... and later attributed to a blank  
... on the distiller.

The fact that violations detected by the unlined intake may be correlated with  
... by relating counts with numbered storm drains  
... have been previously provided to you. Only waste  
... to report from the area which  
... and maintenance areas. The major contributing factors to  
... and storm drains are still in operation and the  
... of suspended solids, total phosphorus and  
... from roads and grounds. Storm drains that  
... however, each time they were  
... of the waterway.

The base environmental still is operating now on general control water  
... which can be designed to  
... The connection contact has been  
... of construction materials for full treatment of  
... in May 1953.

For further details or any other information, you may contact Mr. John  
... and Mr. Robert E. Miller, 835 Madison Avenue



SS

7-7 3.5 - 32.9

7-8 3.5

7-9 3.1

7-10 2.9

7-12 3.0

LS

7-7 6.2 - 57

7-8 6.1

7-9 5.8

7-10 5.7

7-12 4.5

BILL -

COLLECTION SYSTEM

~~DISTILL~~

DEMINERALIZER

} Docu  
#

Bottles on top shelf, please read  
one of each set on Sat 7-10

L

SS

23

77

MONTH: MARCH

YEAR: 1982

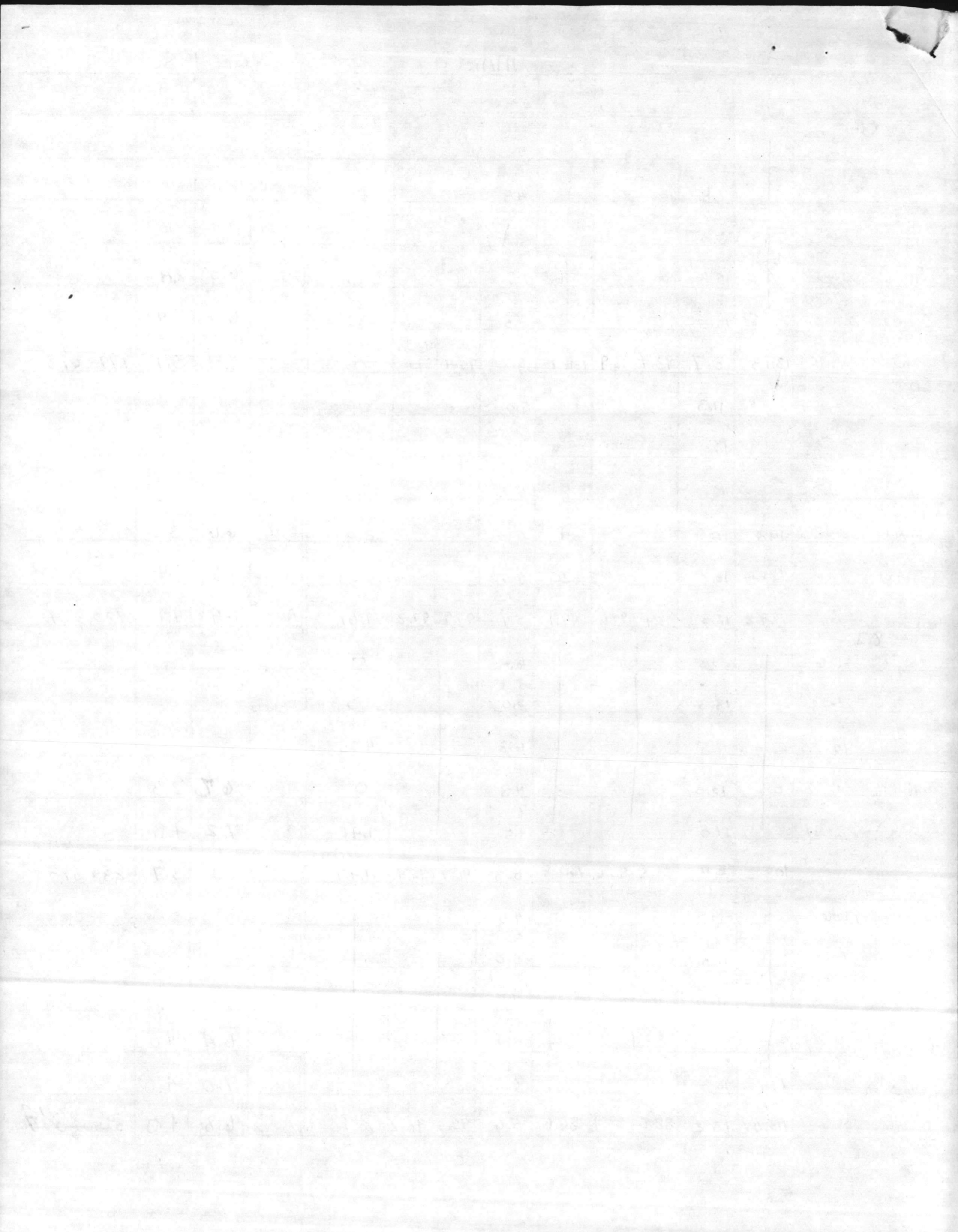
	BOD INF	BOD EFF	BOD ((1) % (2))		TSS INF	TSS EFF	TSS ((1) % (2))		(GEOMETRIC) COLIFORM		pH	RES. CL <sub>2</sub>	FLOW
PLANT: CG		* 9				* 8							
WEEK OF: 1-6		7.8				5.3			0				
7-13		* 10 7.8				* 12 4.8			0				
14-20		* 11 8.3				* 11 8.3			0				
(MIN) 21-27	(60)	* 11 10.3			(62)	* 11 7.3			0	MIN	(6.3)	(2.8)	
(MAX) 28-31	(180)	* 11 10.5			(280)	* 6 4.5			0	MAX	(6.6)	(3.4)	
MONTHLY AVERAGE	(131.3)	(8.7)	93.4	92.8	(136.1)	(6.2)	95.4	95.07 <del>94.76</del>	0	Ave	(6.4)	3.0 (3.1)	(1,193,613)
PLANT: TT		* 13				* 10			*				
WEEK OF: 1-6		11.3				5.0			0				
7-13		* 12 10.8				* 7 4.0			0				
14-20		* 14 12.0				* 11 6.3			1.59				
(MIN) 21-27	(148)	* 17 14.3			(84)	* 8 5.8			2.00	MIN	(6.6)	(3.3)	
(MAX) 28-31	(550)	* 20 16.0			(620)	* 5 3.5			4.90	MAX	(7.2)	(5.4)	
MONTHLY AVERAGE	(269.2)	(12.5)	95.4	94.6	(249.1)	(5.1)	97.9	97.2	(1.61)	Ave	6.9	4.0 (4.1)	(780,884)
PLANT: CJ		* 12				* 12			*				
WEEK OF: 1-6		23.5				6.8			0				
7-13		* 15 13.3				* 10 5.0			0				
14-20		* 14 12.5				* 10 6.8			114 4.85				
(MIN) 21-27	(53)	* 15 13.0			(28)	* 6 4.8			0	MIN	(6.7)	(2.3)	
(MAX) 28-31	(220)	* 16 14.0			(980)	* 2 1.5			2 1.41	MAX	(7.2)	(4.0)	
MONTHLY AVERAGE	(108.2)	15.6 (15.4)	85.8	83.6	(160.8)	(5.3)	96.7	92.4	(1.47)	Ave	7.0	3.7	(238,419)
PLANT: HP		* 18				* 10							
WEEK OF: 1-6		14.5				4.5							
7-13		* 14 11.8				* 15 5.0							
14-20		* 12 11.3				* 14 7.0							
(MIN) 21-27	(15)	* 15 13.2			(24)	* 10 5.4				MIN	(6.5)	(4.0)	
(MAX) 28-31	(196)	* 20 16.3			(162)	* 11 6.0				MAX	(7.0)	(4.0)	
MONTHLY AVERAGE	(115.0)	(13.2)	88.5	88.2	(86.6)	(5.6)	93.5	93.2	(2.98)	Ave	(6.8)	(4.0)	5,505,741.9 5,505,097

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT

(2) AVERAGE OF THE DAILY PERCENT REMOVAL

\* SHOWS MAXIMUM NOT AVERAGE (AVERAGE IS CALLED FOR IN PERMIT)

5505935



MONTH: MARCH

YEAR: 1982

	BOD INF	BOD EFF	BOD ((1) % (2))		TSS INF	TSS EFF	TSS ((1) % (2))		(GEOMETRIC) COLIFORM		pH	RES. CL <sub>2</sub>	Flow
PLANT: RR													
WEEK OF: 1-6		5.0				2.0							
7-13		6.5				3.5							
14-20		4.5				1.5							
(MIN) 21-27	43	9.0			68	5.0				MIN	6.3	3.6	
(MAX) 28-31	140	7.0			1676	3.0				MAX	7.3	4.0	
MONTHLY AVERAGE	78.4	6.6	91.6	91.0	223.4	3.1	98.6	97.9	1.51	Ave	6.6	4.0	372251.0
PLANT: CHB													
WEEK OF: 1-6		9.0				5.5							
7-13		8.5				6.0							
14-20		9.0				3.0							
(MIN) 21-27	60	7.0			25	4.0				MIN	6.6	3.5	
(MAX) 28-31	123	10			254	9.0				MAX	7.2	4.0	
MONTHLY AVERAGE	84.4	8.6	89.8	89.0	114.3	5.1	95.5	92.6	1.47	Ave	6.9	4.0	412793.5
PLANT: OB													
WEEK OF: 1-6		8.5				1.5							
7-13		8.0				8.0							
14-20		11.0				7.5							
(MIN) 21-27	70	16.5			23	7.5				MIN	6.4	3.5	
(MAX) 28-31	265	20.0			340	5.0				MAX	7.0	4.0	
MONTHLY AVERAGE	139.8	12.0	91.4	91.1	112.1	6.0	94.6	92.6	1.08	Ave	6.6	3.9	88,799
PLANT:													
WEEK OF:													
										MIN			
										MAX			
										Ave			

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL

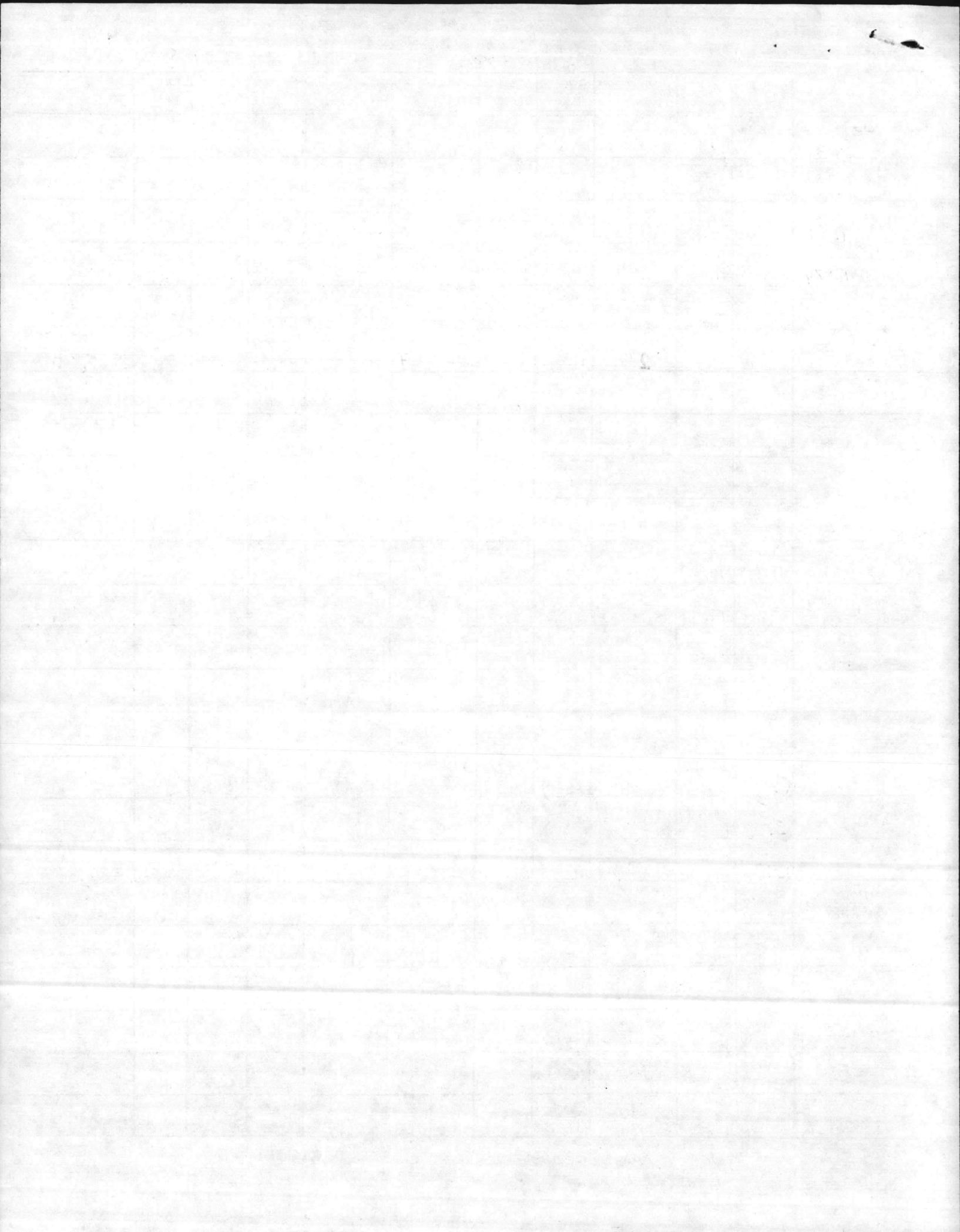


	BOD INF	BOD EFF	BOD (1) % (2)		TSS INF	TSS EFF	TSS (1) % (2)		(GEOMETRIC) COLIFORM		pH	RES. CL <sub>2</sub>	FLOW
PLANT: CG		* 8				* 9			* 0				
WEEK OF: 1-3		8				7.5			0				
4-10		* 11				* 11			* 0				
		9				5.8			0				
11-17		* 10				* 6			* 0				
		7.8				4.5			1.5874				
(MIN) 18-24	(108)	* 12			(92)	* 8			0	MIN	(6.5)	(2.6)	
		11.8				6.5			0				
(MAX) 25-30	(1100)	* 11			(290)	* 7			0	MAX	(6.8)	(3.6)	
		9.8				4.3			0				
MONTHLY AVERAGE	242.6	(9.4)	96.2	94.94	152.4	(5.5)	96.4	96.4	(1,125)	Ave	6.6	3.1	935,600
PLANT: TT		* 15				* 6			* 2				
WEEK OF: 1-3		13				5			2				
4-10		* 15				* 12			* 8				
		13				4.5			2				
11-17		* 13				* 17			* 2				
		11				7.5			1.5874				
(MIN) 18-24	(130)	* 18			(51)	* 14			* 4	MIN	(6.9)	(2.4)	
		16.3				9.8			2				
(MAX) 25-30	(410)	* 16			(4393)	* 10			* 4	MAX	(7.3)	(4.3)	
		13.3				9.3			2.5198				
MONTHLY AVERAGE	192.6	(13.3)	93.1	92.66	360.2	(7.4)	97.9	93.15	(2)	Ave	7.08	(3.8)	871,956.7
PLANT: CJ		* 9				* 6			* 8				
WEEK OF: 1-3		8.5				4.5			8				
4-10		* 14				* 10			* 0				
		11.8				5.8			0				
11-17		* 13				* 6			* 0				
		11.3				4.5			0				
(MIN) 18-24	(72)	* 24			(38)	* 10			* 0	MIN	(6.3)	(2.5)	
		16.8				5.5			0				
(MAX) 25-30	(240)	* 14			(234)	* 3			* 0	MAX	(7.4)	(5.2)	
		12.3				2.3			0				
MONTHLY AVERAGE	134.5	12.7	90.6	89.8	112.5	(4.5)	90.1	94.8	(1,1735)	Ave	4.86	(3.87)	227,333
PLANT: HP		* 13				* 8							
WEEK OF: 1-3		12.5				6.5							
4-10		* 20				* 11							
		14.2				4.4							
11-17		* 18				* 8							
		13.6				3.6							
(MIN) 18-24	(88)	* 19			(57)	* 10				MIN	(6.6)	(4.0)	
		15.6				7.0							
(MAX) 25-30	(215)	* 28			(278)	* 6				MAX	(6.8)	(4.0)	
		16.8				4.0							
MONTHLY AVERAGE	140.0	(14.8)	89.4	88.9	(112.6)	(4.9)	95.6	89.0	(2.41)	Ave	6.77	(4.0)	495,680.0

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL

\* SHOWS MAXIMUM NOT AVERAGE (AVERAGE IS CALLED FOR IN PERMIT)

430  
 11  
 419



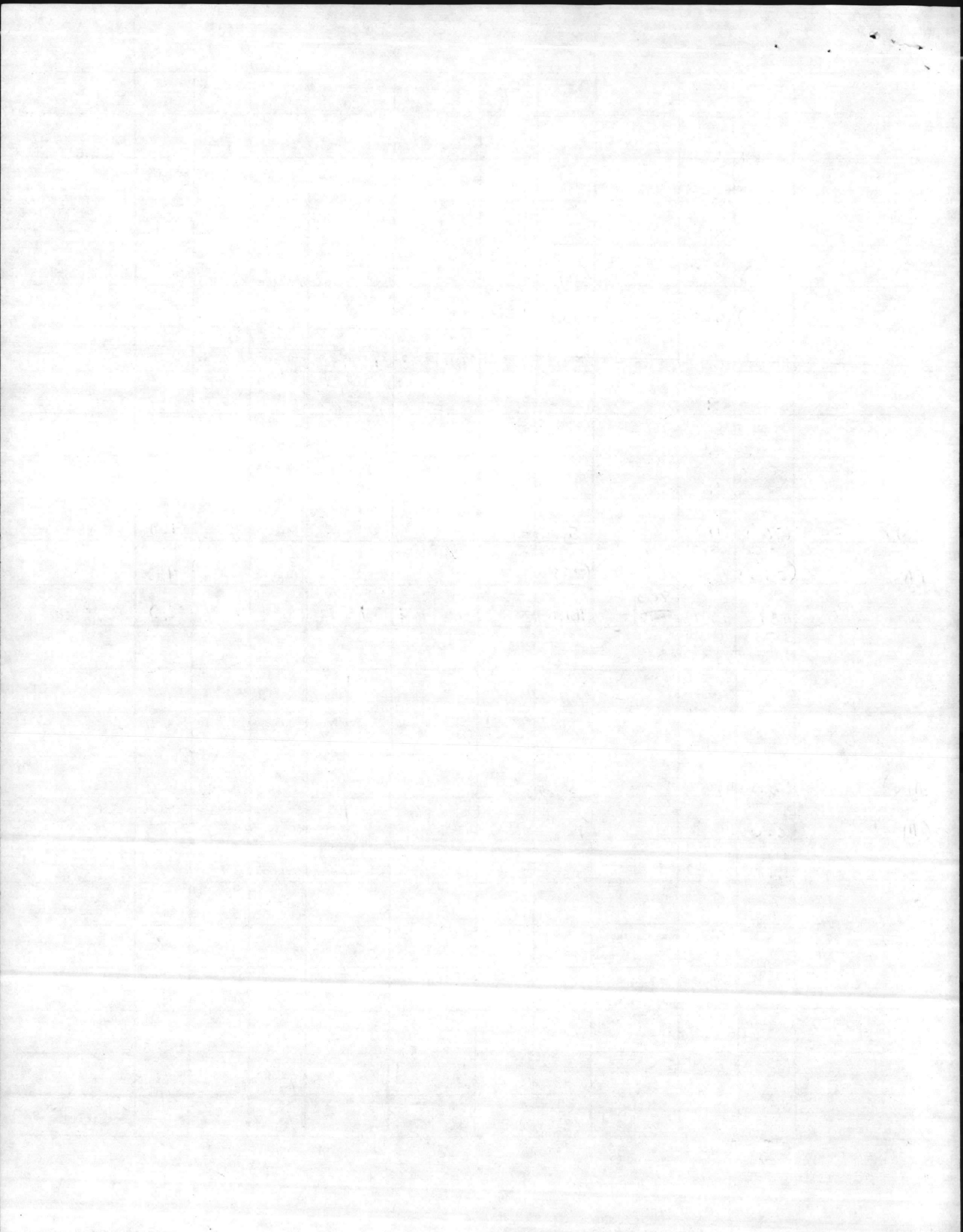


MONTH: APRIL

YEAR: 1982

	BOD INF	BOD EFF	BOD (1) % (2)	TSS INF	TSS EFF	TSS (1) % (2)	(GEOMETRIC) COLIFORM		pH	RES. CL <sub>2</sub>	FLOW		
PLANT: RR		* 6			*								
WEEK OF: 1-3		(6)			(1)								
4-10		* 6 5.5			* 2 1.5								
11-17		* 7 5.5			* 2 1.5								
(MIN) 18-24	(60)	* 6 5.5		(61)	* 6 3.5			MIN	(6.2)	(3.5)			
(MAX) 25-30	(430)	* 11 9.5		(700)	* 2 1.5			MAX	(6.9)	(4.0)			
MONTHLY AVERAGE	(144.6)	(6.4)	95.6	93.9	(299.1)	(1.9)	99.4	99.05 98.8	(1.29)	Ave	(6.67)	(3.9)	(289209)
PLANT: CHB		*			*								
WEEK OF: 1-3		(8)			(6)								
4-10		* 10 6.5			(4)								
11-17		* 8 8			* 9 3								
(MIN) 18-24	(76)	* 12 11		(51)	(1)			MIN	(6.8)	(4.0)			
(MAX) 25-30	(250)	* 26 18.5		(288)	* 7 6.5			MAX	(7.2)	(4.0)			
MONTHLY AVERAGE	(133.1)	(10.7)	92.0 <del>95.0</del>	92.2	(161.8)	(3.9)	97.6	96.4	(1.59)	Ave	(6.9)	(4.0)	(382566.7)
PLANT: OB		*			*								
WEEK OF: 1-3		(18)			(11)								
4-10		* 9 8.5			* 7 4								
11-17		* 12 12			* 4 3								
(MIN) 18-24	(88)	* 13 11.5		(36)	* 13 8			MIN	(6.2)	(3.4)			
(MAX) 25-30	(260)	* 15 14.5		(183)	(4)			MAX	(7.0)	(7.0)			
MONTHLY AVERAGE	(172.2)	(12.3)	92.9	92.4	(95.9)	(5.4)	94.4	(93)	(0)	Ave	(6.73)	(3.98)	(95,767)
PLANT: OB													
WEEK OF:													
MONTHLY AVERAGE													

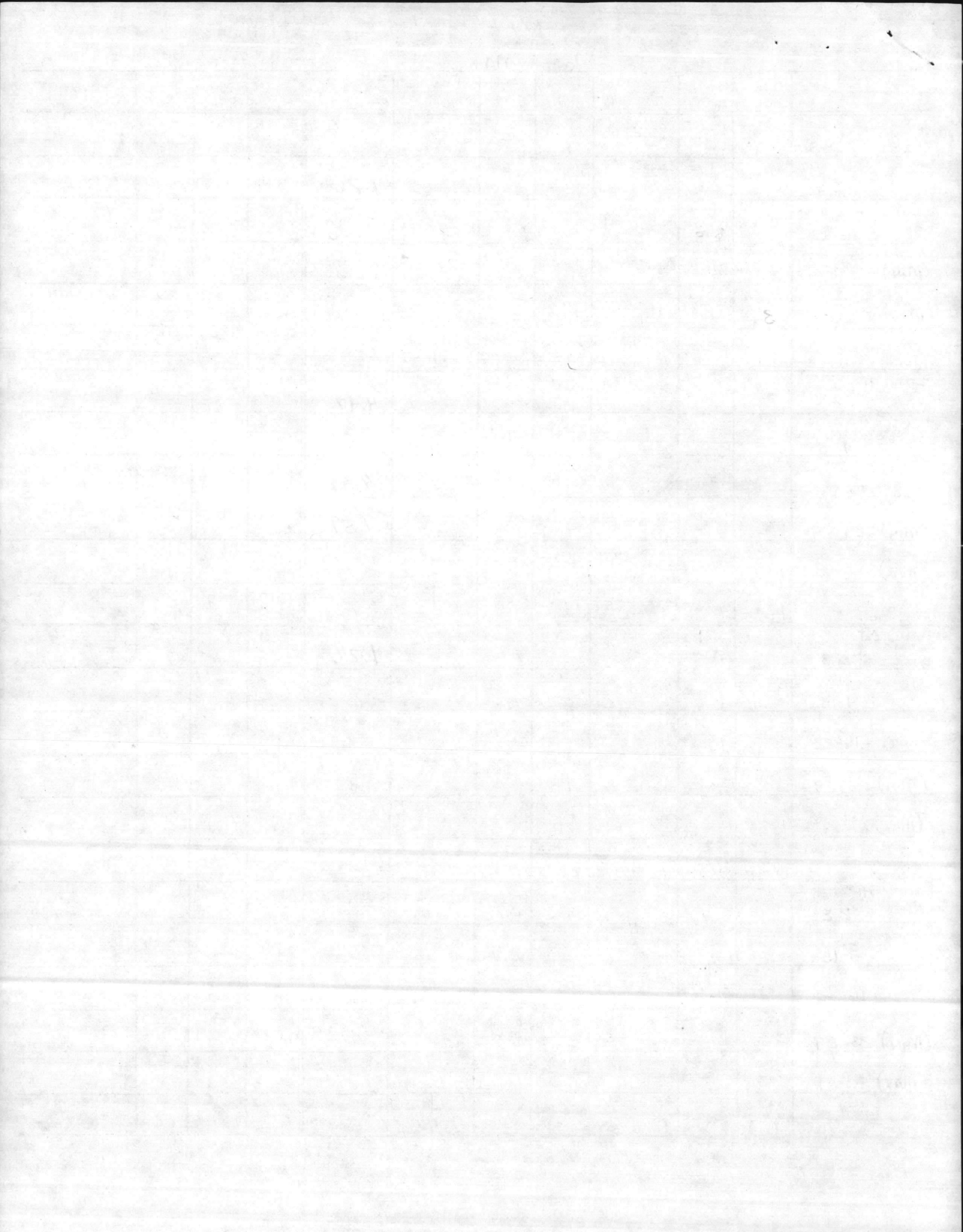
(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL



	BOD INF	BOD EFF	BOD ((1) % (2))		TSS INF	TSS EFF	TSS ((1) % (2))		(GEOMETRIC) COLIFORM		pH	RES. Cl <sub>2</sub>	FLOW
PLANT: CG													
WEEK OF: 2-8		6.5 <sup>9</sup>				4.8 <sup>8</sup>			0				
9-15		5.5 <sup>8</sup>				3.3 <sup>6</sup>			1.26				
16-22		8.3 <sup>10</sup>				6.0 <sup>9</sup>			2.00				
(MIN) 23-29	(76)	6.3 <sup>8</sup>			(50)	4.3 <sup>6</sup>			0	MIN	(6.2)	2.6	
(MAX) 30-31	(230)	—			(213)	—			—	MAX	(6.7)	1.85	
MONTHLY AVERAGE	(141.7)	(6.6)	95.3	95.2	(131.6)	4.6	96.5	95.9	(1.26)	Ave	6.5	3.0	(1,047,129)
PLANT: TT													
WEEK OF: 2-8		11 <sup>14</sup>				6 <sup>8</sup>			4.47				
9-15		13 <sup>18</sup>				8 <sup>11</sup>			1.59				
16-22		16 <sup>19</sup>				12.8 <sup>18</sup>			4.00				
(MIN) 23-29	(70)	12.3 <sup>14</sup>			(48)	5.0 <sup>11</sup>			1.59	MIN	(6.5)	2.9	
(MAX)	(195)	—			(352)	—			(20)	MAX	(7.2)	4.0	
MONTHLY AVERAGE	(142.9)	12.9	91.0	(90.5)	(129.5)	(7.9)	93.9	92.2	(2.47)	Ave	6.9	3.6	(895,266.7)
PLANT: CJ													
WEEK OF: 2-8		9.8 <sup>14</sup>				3.8 <sup>6</sup>			1.26 <sup>2</sup>				
9-15		8.5 <sup>11</sup>				4.5 <sup>10</sup>			0 0				
16-22		10.0 <sup>11</sup>				2.5 <sup>5</sup>			0 0				
(MIN) 23-29	(88)	9.0 <sup>10</sup>			(43)	2.0 <sup>3</sup>			0 0	MIN	6.0	3.2	
(MAX)	(195)	—			(146)	—				MAX	7.0	6.0	
MONTHLY AVERAGE	(136.7)	(9.3)	93.2	92.7	(86.4)	(3.2)	96.3	96.4	(1.06)	Ave		3.9	(225064.5)
PLANT: HP													
WEEK OF: 2-8		13.5 <sup>16</sup>				6.2 <sup>8</sup>							
9-15		15.6 <sup>20</sup>				4.4 <sup>9</sup>							
16-22		13.5 <sup>15</sup>				5.0 <sup>8</sup>							
(MIN) 23-29	(20)	12.3 <sup>13(25)</sup>			(34)	6.2 <sup>13</sup>			22	MIN	(6.5)	(3.0)	
(MAX) 30-31	(195)	—			(310)	8 <sup>8</sup>			0	MAX	(6.8)	(4.0)	
MONTHLY AVERAGE	(117.1)	(13.8)	88.2	88.5	(111.8)	(5.6)	96.0	93.9	(2.08)	Ave	6.7	(3.9)	(5350580)

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL

\* SHOWS MAXIMUM NOT AVERAGE (AVERAGE IS CALLED FOR IN PERMIT)

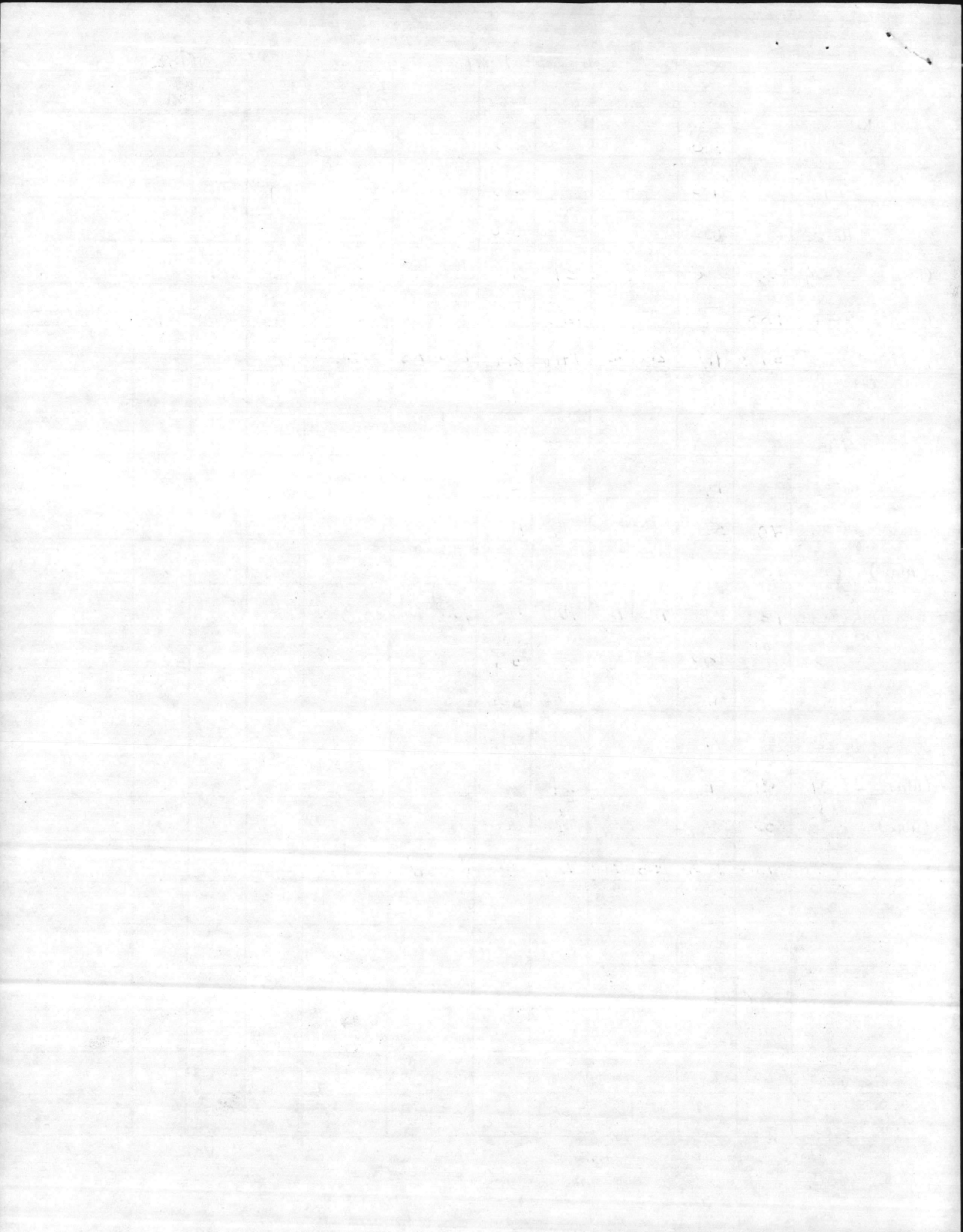


MONTH: MAY

YEAR: 1982

	BOD INF	BOD EFF	BOD (1) % (2)		TSS INF	TSS EFF	TSS (1) % (2)		(GEOMETRIC) COLIFORM	pH	RES. CL <sub>2</sub>	FLOW
PLANT: RR		5				3						
WEEK OF: 2-8		3.0				2.0						
9-15		5 4.0				3 2.5						
16-22		10 10.0				4 3.0						
(MIN) 23-29	(20)	4.0			(81)	3.0			0	MIN 6.4	3.5	
(MAX) <del>35</del>	(135)	-			(125)	-			8	MAX 6.8	4.0	
MONTHLY AVERAGE	(59.3)	(4.7)	92.1	(92)	(94.6)	2.6	97.3	(97.3)	(1.30)	Ave	3.9	279127.7
PLANT: CAB		12				8						
WEEK OF: 2-8		10.5				6.8						
9-15		9 8.5				6 5.0						
16-22		20 20				17 15.0						
(MIN) 23-29	(88)	56 56			(43)	10.8			0	MIN 6.6	3.5	
(MAX)	(133)	-			(144)	-			52	MAX 7.2	4.0	
MONTHLY AVERAGE	(92)	(19)	(79.3)	(78)	(96.9)	(9.0)	90.7	(88.4)	(3.36)	Ave	3.9	339693.5
PLANT: OB		12				10						
WEEK OF: 2-8	1	12.0				6.5						
9-15		11 10.5				5 3.5						
16-22		14 14				14 11.0						
(MIN) 23-29	(88)	9 9			(24)	2			0	MIN 6.2	1.0	
(MAX)	(230)	-			(142)	-			54	MAX 7.6	4.0	
MONTHLY AVERAGE	(173.5)	(11.3) 9.3	98.5	(92.9) 93.0	(77.1)	(5.8)	92.5	(91.4)	(5.18)	Ave	3.7	74473.54
PLANT:												
WEEK OF:												
										MIN		
										MAX		
MONTHLY AVERAGE										Ave		

(1) PERCENT REMOVAL OF THE AVERAGED INFLUENT AND EFFLUENT  
 (2) AVERAGE OF THE DAILY PERCENT REMOVAL



Date: 1 June 1982

Memorandum

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

To: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

Subj: Storm Drain Violations for May 1982

1. Storm Drains 32, 33, 39-40, 45, 48, and 62-65 were checked in May 1982. Below is a list of violations and a list of dry drains.

List of Violations						
SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
42	Hadnot Pt-Behind MC Exchange	SS	50 mg/l	805.3	5 May	pH 8, SS 11, OG 1

List of Dry Drains

SD	Last Collection Date
39	5 & 17 February 1981
40	18 November 1981
43	1 February 1982
62	27 July 1981
65	1 February 1982

Elizabeth A. Begz  
Supervisory Chemist

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DEPARTMENT OF THE NAVY

# Memorandum

DATE: 29 April 1982

FROM: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

SUBJ: Storm Drain Violations for April 1982

1. Storm Drains 20-28, 30, 31, 36-38, 44, 50-60, 66, 89, and 90 were checked in April 1982. Below is a list of violations and a list of dry drains.


### List of Violations

SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
51	Hadnot Point/River Rd	pH	6.0-9.0	5.7	7 Apr	pH 2 SS 2 OG 0

### List of Dry Drains

SD	Last Collection Date
22	13 January 1981*
23	13 January 1981*
27	14 October 1981
37	5 & 17 February 1981*
38	5 & 17 February 1981*
50	24 August 1981
52	24 August 1981
56	24 August 1981
58	28 May 1981
60	18 March 1981*
66	16 April 1981*
89	24 August 1981
90	18 November 1981

\* Collected by A. T. Luke

  
Elizabeth Betz  
Supervisory Chemist

Mr. Robert G. Gentry, General Manager, Environmental Services, Inc., Birmingham, Alabama

Mr. Robert G. Gentry, General Manager, Environmental Services, Inc., Birmingham, Alabama

Some Main Violations for April 1981

1. Some items 1-12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50 were checked in April 1981. Below is a list of violations and a list of dry basins.

List of Violations

Basin No.	Location	Violation	Date
1	...	...	...
2	...	...	...

List of Dry Basins

Basin No.	Location	Date
1	...	11 November 1981
2	...	20 August 1981
3	...	16 April 1981*
4	...	13 March 1981*
5	...	28 May 1981
6	...	20 August 1981
7	...	24 August 1981
8	...	24 August 1981
9	...	24 August 1981
10	...	24 August 1981
11	...	24 August 1981
12	...	24 August 1981
13	...	13 January 1981*
14	...	13 January 1981*
15	...	14 October 1981
16	...	2 & 13 February 1981*
17	...	2 & 13 February 1981*

\* Collected by A. J. Lusk

Richard Gentry  
General Manager

DEPARTMENT OF THE NAVY

# Memorandum

DATE: 6 April 1982

FROM: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

SUBJ: Storm Drain Violations ofr March 1982

1. Storm Drains 20-28, 30-32, 34-39, 41, 49, 50, 56, 58-60, 62, 67, 68, 73-80, 85, 88, and 89 were checked in March 1982. Below is a list of violations and a list of dry drains.

### List of Violations

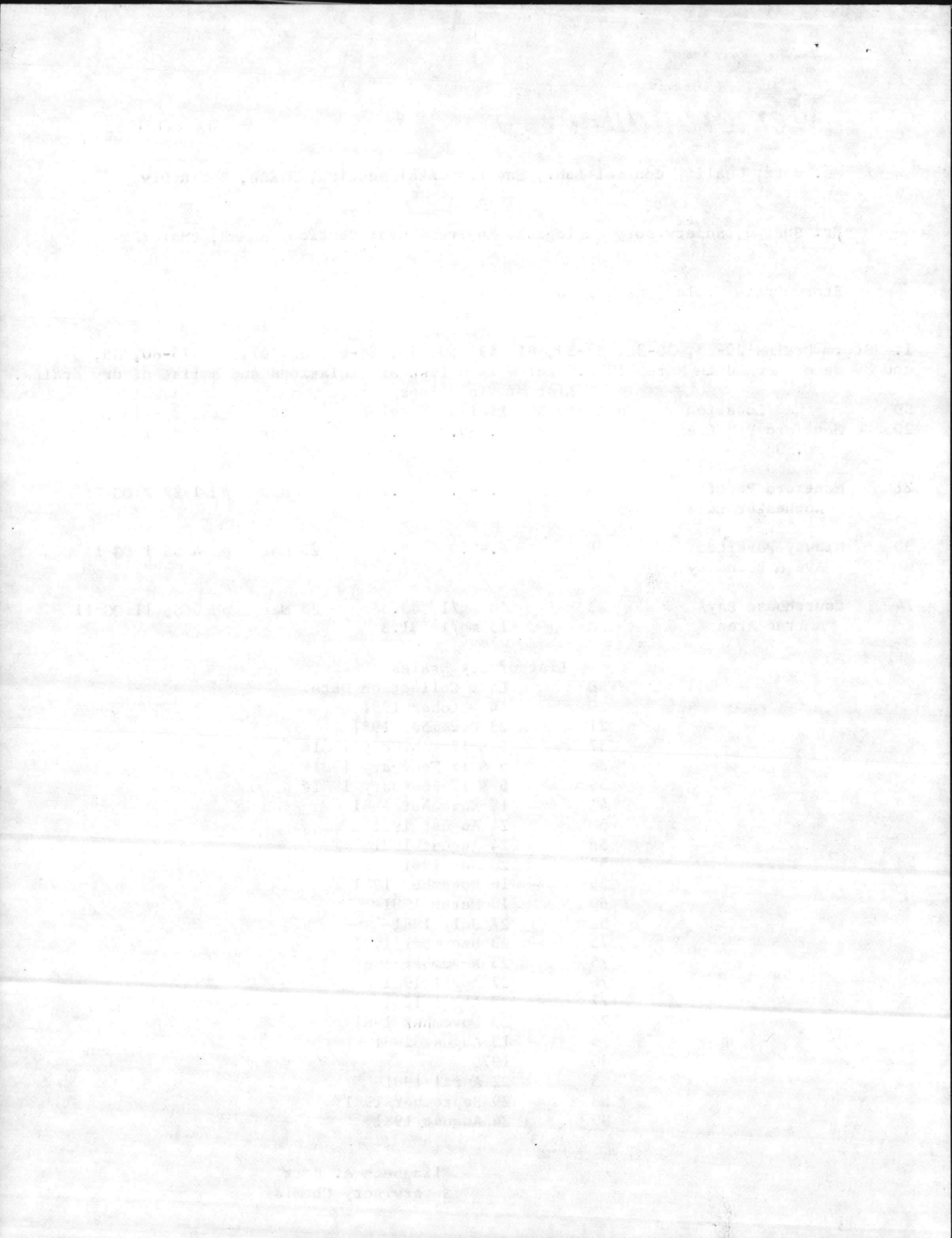
SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
20	Montford Pt/ Area No. 3	pH	6.0-9.0	5.7	2 Mar	pH 5 SS 1 OG 0
21	Montford Pt/Off Rochester Lane	pH	6.0-9.0	5.7	2 Mar	pH 1 SS 2 OG 0
30	Midway Park/Lee Ave & Boundary	pH	6.-9.0	5.7	23 Mar	pH 4 SS 1 OG 1
74	Courthouse Bay/ Amtrac Area	SS OG	50 mg/1 15 mg/1	83.3 31.3	23 Mar	pH 0 SS 11 OG 11

### List of Dry Drains

SD	Last Collection Date
20	14 October 1981
21	23 December 1981
37	5 & 17 February 1981*
38	5 & 17 February 1981*
39	5 & 17 February 1981*
41	18 November 1981
50	24 August 1981
56	24 August 1981
58	28 May 1981
59	16 December 1981
60	18 March 1981*
62	27 July 1981
73	23 December 1981
75	23 November 1981
76	27 April 1981
77	27 April 1981
78	23 November 1981
79	13 August 1981
80	1979
85	22 April 1981
88	29 September 1981
89	24 August 1981

58

Elizabeth A. Betz  
Supervisory Chemist



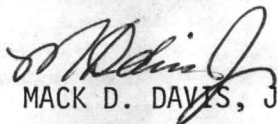
**BASE MAINTENANCE DIVISION**  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/MDD/rn  
11345  
9 Jun 1982

From: Sewage Disposal Plant Operator Foreman  
To: Quality Control Lab

Subj: Courthouse Bay Permit Violation

1. On 25 May 1982 the operator on duty at Courthouse Bay reported that a reddish substance was entering the plant influent. At 1130 a.m. I instructed him to take samples as normal, and to run a settleable solids test on the influent. The operator did this and recorded 10 mg/L. At about 1230, he checked the chlorine residual and had to increase the dosage from 45 to 65 pounds per day to obtain a 2.0 residual. The BOD for 25 May 1982 was 80 influent, 56 effluent, for 30% removal which lowered the monthly average removal to 79.3, violating the permit limits.
2. Investigation as to source of substance and identity has not been fruitful.

  
MACK D. DAVIS, JR.

1917  
1918  
1919

Received of the Treasurer of the  
Board of Directors of the  
City of New York

the sum of \$100.00

for the purchase of 100 shares of  
Common Stock of the City of New York  
at the price of \$1.00 per share  
as provided in the Charter of the  
City of New York, Chapter 100,  
Section 100.01, as amended.

This receipt is subject to the terms and conditions  
set forth in the Charter of the City of New York,  
Chapter 100, Section 100.01, as amended.

*[Handwritten Signature]*

MAIN/DDS/th  
6280/2

19 Apr 82

Regional Administrator  
Environmental Protection Agency  
Region IV, Water Enforcement Branch  
345 Courtland Street  
Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System permit number NC0003239, discharge monitoring reports for the period December 1981, January and February 1982 are submitted. This quarterly report was delayed due to computer problems, as was discussed by Mr. Danny Sharpe and Ms. Elizabeth Betz, Base Maintenance Division, and Mr. Jim Holdaway of your office on 31 March 1982.

Paragraph 2, of effluent limitation and monitoring requirements for each outfall, under Part I of National Pollutant Discharge Elimination System permit number NC0003239 for Marine Corps Base, Camp Lejeune, requires that the monthly percent removal of BODs and suspended solids shall be calculated by comparing monthly average influent to monthly average effluent. This quarterly report was computed by a new program developed by Atlantic Division, Naval Facilities Engineering Command, which computes the average of the daily percent removals as the monthly percent removal. On 8 April 1982, Mr. Holdaway advised that either of the two methods for making the calculations were acceptable to the Environmental Protection Agency.

The Courthouse Bay sewage treatment plant BOD percent removal violation for the month of December 1982 can be attributed to a shaft that broke on a filter feed pump and was overhauled during the month which resulted in sporadic feeding to the filter.

The Camp Johnson sewage treatment plant BOD percent removal violations for the months of January and February 1982 can be attributed to the filter being out twice for maintenance and repairs for a total of about two and one-half weeks in January 1982. The growth on the filter subsequently died and therefore it has taken some time for it to recover.

The discharge monitoring reports show no values for BOD for the Rifle Range, Courthouse Bay and Onslow Beach sewage treatment plants (SS 15-17/05-07) for the last week in February 1982, and three BOD values missing for the Hadnot Point sewage treatment plant (SS 14/04) that same month. A laboratory error occurred when reading the five-day dissolved oxygen for all seven sewage treatment plant samples collected on 23 and 25 February 1982 and the Hadnot Point sewage treatment plant sample collected on 26 February 1982.

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The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Oily waste discharge violations are directly related to runoff from areas with wash racks, grease racks and maintenance areas. The major contributing factors to the presence of oily waste discharge in storm drains are due to inadequate abatement facilities. Concentrations of suspended solids that violate permit limitations may be directly attributed to runoff from roads and grounds. Storm drains that have no values reported for the quarter were checked, however, each time they were checked they were either dry or had no flow.

The base environmental staff is continuing to work on operational control methodology to reduce suspended solids discharges. An A/E firm has designed facilities to abate miscellaneous pollution discharges. The construction contract has been awarded and the estimated date of construction completion for full treatment of miscellaneous pollution sources is May 1983.

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Natural Resources and Environmental Affairs Branch, Base Maintenance Division, telephone (919) 451-5003/2083.

Sincerely,

B. W. ELSTON  
Acting Base Maintenance Officer  
By direction of the Commanding General

Enclosures

Copy to:  
NC Dept of Nat & Eco Res  
CDR, LANTDIV, NAVFACEHCOM (Code 114)

BCC:  
Dir, UTIL BR



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both manual data entry and the use of specialized software tools. The goal is to ensure that the data is both accurate and easy to interpret.

The third part of the document provides a detailed breakdown of the results. It shows that there has been a significant increase in sales over the period covered by the report. This is attributed to several factors, including improved marketing strategies and better customer service.

Finally, the document concludes with a series of recommendations for future actions. These include continuing to invest in marketing, maintaining high standards of customer service, and regularly reviewing financial performance to identify areas for improvement.

The following table provides a summary of the key findings from the data analysis. It shows the total revenue, profit, and growth rate for each quarter. The data indicates a steady upward trend in all three metrics, which is a positive sign for the business.

Quarter	Total Revenue	Profit	Growth Rate
Q1	\$120,000	\$30,000	5%
Q2	\$135,000	\$35,000	12%
Q3	\$150,000	\$40,000	18%
Q4	\$165,000	\$45,000	25%

Based on the data presented in the table, it is clear that the business is performing well. The increase in revenue and profit over the four quarters is a strong indicator of success. However, it is important to remain vigilant and continue to monitor the market for any changes that could impact the business.

The final section of the document discusses the challenges faced during the reporting period. These include fluctuations in the economy and increased competition from new entrants in the market. Despite these challenges, the business has managed to maintain its growth, which is a testament to the resilience and adaptability of the management team.

NPDES PERMIT NO. NCO003239 DISCHARGE VIOLATIONS FOR THE PERIOD December 1981, January, February 1982

<u>Monitoring Sta. or Storm Drain Number</u>	<u>Parameter</u>	<u>Parameter Limits</u>	<u>Value</u>	<u>Date</u>
SS 06	BOD	85% Removal	84%	December 1981
SS 03	BOD	85% Removal	78.7%	January 1982
SS 03	BOD	85% Removal	82.6%	February 1982
SD 61	SS	50 mg/1	102.8	16 December 1981
SD 43	O&G	15 mg/1	15.2	17 December 1981
SD 43	SS	50 mg/1	137	17 December 1981
SD 73	SS	50 mg/1	300	23 December 1981
SD 33	pH	6.0-9.0	5.8	18 January 1982
SD 47	pH	6.0-9.0	11.5	18 January 1982
SD 42	SS	50 mg/1	1679	1 February 1982
SD 43	O&G	15 mg/1	19.3	1 February 1982
SD 65	SS	50 mg/1	102	1 February 1982

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Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System permit number NC0003239, discharge monitoring reports for the period December 1981, January and February 1982, are submitted.

The reason for the delay of this quarterly report was due to computer problems, as was discussed during a FONCON between Mr. Danny Sharpe and Ms. Elizabeth Betz, BMaintDiv, MCB CAMP LEJUNE, and Mr. Jim Holloway of your office on 31 March 1982. At that time, Mr. Holloway was also informed of the three sewage treatment plant BOD percent removal violations.

Paragraph 2, of effluent limitation and monitoring requirements for each outfall, under Part I of NPDES Permit No. NC0003239 for MCB Camp Lejeune, specifically require that the monthly percent removal of BODs and suspended solids shall be calculated by comparing monthly average influent to monthly average effluent. However this quarterly report, computed by Atlantic Division, Naval Facilities Engineering Command, shows the average of the daily percent removals as the monthly percent removal. During a FONCON, on 8 April 1982, between Ms. Elizabeth Betz and Mr. Jim Holloway this problem was presented, since the two different calculations yield two different answers.

The Courthouse Bay Sewage Treatment Plant BOD % Removal violation for the month of December 1981 can be attributed to a shaft that broke on a filter feed pump and was overhauled during the month which resulted in sporadic feeding to the filter.

The Camp Johnson Sewage Treatment Plant BOD % Removal Violations for the months of January and February 1982 can be attributed to the filter being out twice for maintenance and repairs for a total of about 2½ weeks in January 1982. The growth

In accordance with the requirements of National Security Agency Regulation 1.4(a)(1), the following information is being furnished to you for the period January and February 1951, and is classified "Secret".

The purpose of this report is to provide information on the activities of the Communist Party, USA, in the United States, during the period January and February 1951. This information is being furnished to you for the period January and February 1951, and is classified "Secret".

The following information is being furnished to you for the period January and February 1951, and is classified "Secret". This information is being furnished to you for the period January and February 1951, and is classified "Secret".

The following information is being furnished to you for the period January and February 1951, and is classified "Secret". This information is being furnished to you for the period January and February 1951, and is classified "Secret".

Close study of the discharge monitoring reports will show no values for BOD for the Rifle Range, Courthouse Bay,,and Onslow Beach Sewage Treatment Plants(SS15-17/05-07) for the last week in February 1982, and three BOD values missing for the Hadnot Point Sewage Treatment Plant(SS14/04) that same month. A laboratory error occurred when reading the 5-day dissolved oxygen for all seven sewage treatment plant samples collected on 23 and 25 February 1982, and also for the Hadnot Point Sewage Treatment Plant sample collected on 26 February 1982, which caused the loss of those values.

The Storm Drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Oily waste discharge violations are directly related to runoff from areas with wash racks, grease racks, and maintenance areas. The major contributing factors to the presence of oily waste discharge in storm drains is due to inadequate abatement facilities. Concentrations of suspended solids that violate permit limitations may be directly attributed to runoff from roads and grounds. Storm Drains that have no values reported for the quarter were checked, however, each time they were checked they were either dry or had no flow.

The base environmental staff is continuing to work on operational control methodology to reduce suspended solids discharges. An A & E firm has designed facilities to abate miscellaneous pollution discharges. The construction contract has been awarded and the estimated date of construction completion for full treatment of miscellaneous pollution sources is

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, NREAB, BMaintDiv, telephone (919) 451-5003/2083.





NPDES PERMIT NO. NCO003239 DISCHARGE VIOLATIONS FOR THE PERIOD December 1981, January, February 1982

<u>Monitoring Sta. or Storm Drain Number</u>	<u>Parameter</u>	<u>Parameter Limits</u>	<u>Value</u>	<u>Date</u>
SS 06	BOD	85% Removal	84%	December 1981
SS 03	BOD	85% Removal	78.7%	January 1982
SS 03	BOD	85% Removal	82.6%	February 1982
SD 61	SS	50 mg/l	102.8	16 December 1981
SD 43	O&G	15 mg/l	15.2	17 December 1981
SD 43	SS	50 mg/l	137	17 December 1981
SD 73	SS	50 mg/l	300	23 December 1981
SD 33	pH	6.0-9.0	5.8	18 January 1982
SD 47	pH	6.0-9.0	11.5	18 January 1982
SD 42	SS	50 mg/l	1679	1 February 1982
SD 43	O&G	15 mg/l	19.3	1 February 1982
SD 65	SS	50 mg/l	102	1 February 1982



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JIM HOLLOWAY @EPA

ON 31 MARCH 1982

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Betsy

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REPORT

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DEPARTMENT OF THE NAVY

# Memorandum

DATE: 28 January 1982

FROM: Mr. Sharpe Quality Control Lab., Environmental Section, NREAB, BMaintDiv

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

SUBJ: Storm Drain Violations for December 1982

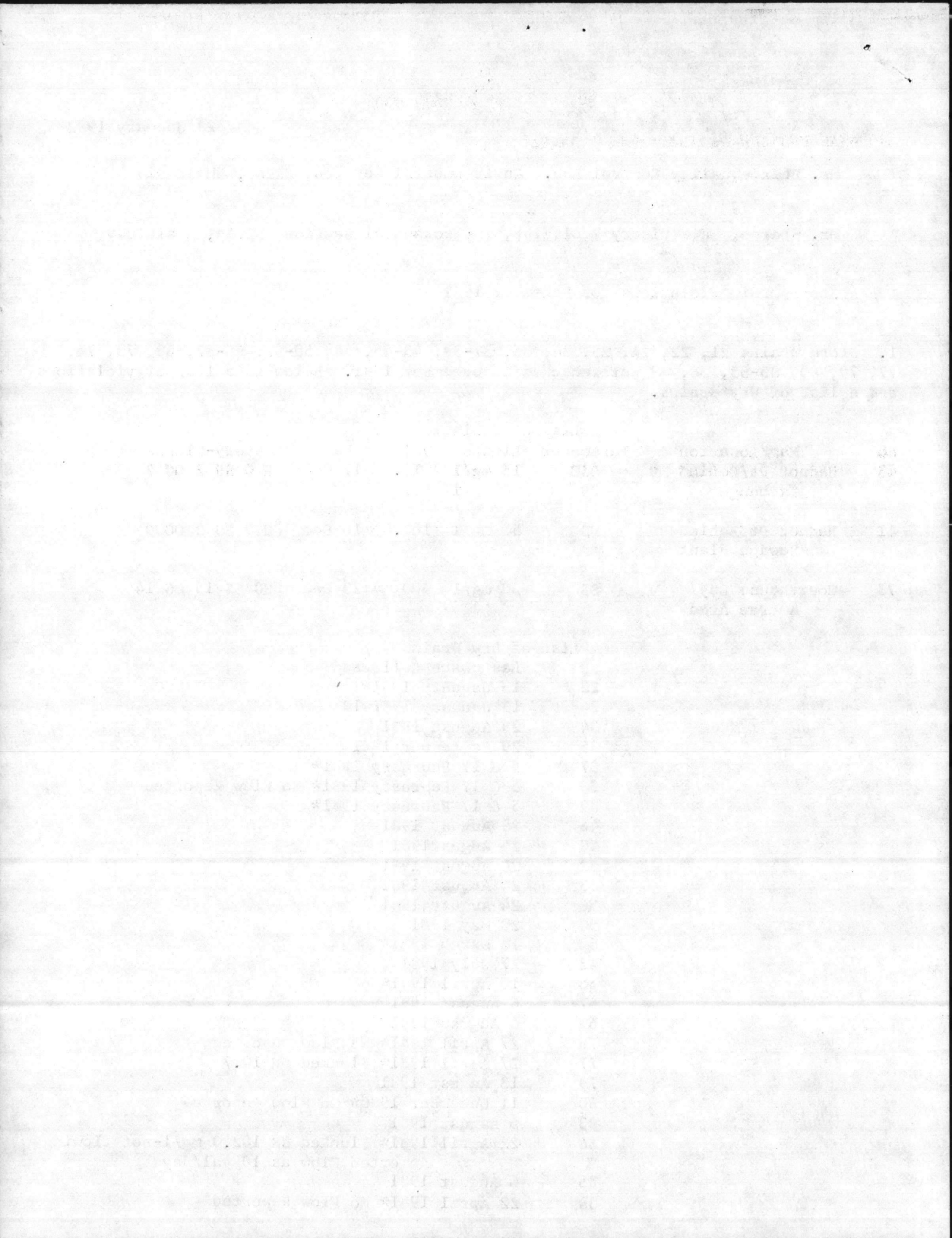
1. Storm Drains 21, 22, 24, 25, 34, 35, 37-39, 43-46, 48, 50-62, 65-67, 69, 73, 76, 77, 79, 80, 83-85, 88, 89 were checked in December 1981. Below is a list of violations and a list of dry drains.

### List of Violations

SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
43	Hadnot Pt/Behind MC Exchange	OGG SS	15 mg/l 50 mg/l	15.2 137	17 Dec	pH 0 SS 2 OG 2
61	Hadnot Pt/Behind Sewage Plant	SS	50 mg/l	102.8	16 Dec	pH 0 SS 2 OG00
73	Courthouse Bay/ Amtrac Area	SS	50 mg/l	300	23 Dec	pH0 SS 15 OG 14

### List of Dry Drains

SD	Last Date Collected
22	13 January 1981*
24	13 January 1981*19
34	28 August 1981
35	29 September 1981
37	5 & 17 February 1981*
38	5 & 17 February 1981* No Flow Reported
39	5 & 17 February 1981*
46	28 August 1981
50	24 August 1981
52	24 August 1981
53	24 August 1981
56	24 August 1981
58	28 May 1981
60	18 March 1981*
62	27 July 1981
66	16 April 1981*
67	6 August 1981
69	6 August 1981
76	27 April 1981* No Flow Reported
77	27 April 1981* Flunked pH 10.7
79	13 August 1981
80	11 December 1980* No Flow Reported
83	6 August 1981
84	22 April 1981* Flunked SS 102.0 mg/l-not flowing Reported Flow as 10 gal/day
85	6 August 1981
88	22 April 1981* No Flow Reported



8 These collections were done by Andy Luke

Elizabeth A. Betz  
Supervisory Chemist

OPNAV 5216/144 (REV. 6-70)

S/N 0107-LF-778-8099

DEPARTMENT OF THE NAVY

# Memorandum

DATE:

FROM :

TO :

SUBJ :



DEPARTMENT OF THE NAVY

# Memorandum

DATE: 28 January 1982

FROM: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, EMaintDiv

SUBJ: Storm Drain Violations for January 1982

1. Storm Drains 33, 39-41, 44-47, 51-55, 57, 61, 90 were checked in January 1982. Below is a list of violations and a list of dry drains.

List of Violations						
SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
33	Open Storage Area/ Bearhead Creek & Holcomb Blvd	pH	6.0-9.0	5.8	18 Jan	pH 1 SS 1 OG 0
47	Hadnot Pt/Supply & Indust. Area-Louis Rd	pH	6.0-9.0	11.5	18 Jan	pH 16 SS 4 OG 8

List of Dry Drains	
SD	Last Date Collected
39	5 & 17 February 1981*
41	18 November 1981
50	24 August 1981
53	24 August 1981
56	24 August 1981 Flunked O&G 18.1 mg/l
58	28 May 1981 Flunked SS 62.0 mg/l
59	27 July 1981
60	18 March 1981* Flunked SS 54.0 mg/l, No Flow Reported

\* These collections were done by Andy Luke.

Elizabeth A. Betz  
Supervisory Chemist

1. The first section of the report deals with the general situation in the country.

2. The second section describes the economic conditions and the state of the economy.

3. The third section discusses the social and cultural aspects of the country.

4. The fourth section provides a detailed analysis of the political system and the role of the government.

5. The fifth section examines the foreign relations and the country's position in the international community.

6. The sixth section discusses the current challenges and the future prospects of the country.

7. The seventh section provides a summary of the findings and conclusions of the study.

8. The eighth section contains the references and the list of sources used in the report.

9. The ninth section includes the appendixes and the statistical data.

10. The tenth section provides the final remarks and the author's acknowledgments.

11. The eleventh section contains the index and the table of contents.

12. The twelfth section includes the list of figures and tables.

13. The thirteenth section provides the list of abbreviations and acronyms.

14. The fourteenth section contains the list of footnotes and endnotes.

15. The fifteenth section includes the list of references and the bibliography.

DEPARTMENT OF THE NAVY

# Memorandum

DATE: 2 March 1982

FROM: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

TO: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

SUBJ: Storm Drain Violations for February 1982

1. Storm Drains 42, 43, 48, 62-65, 71, 72, 78-80, and 81-88 were checked in February 1982. Below is a list of violations and a list of dry drains.

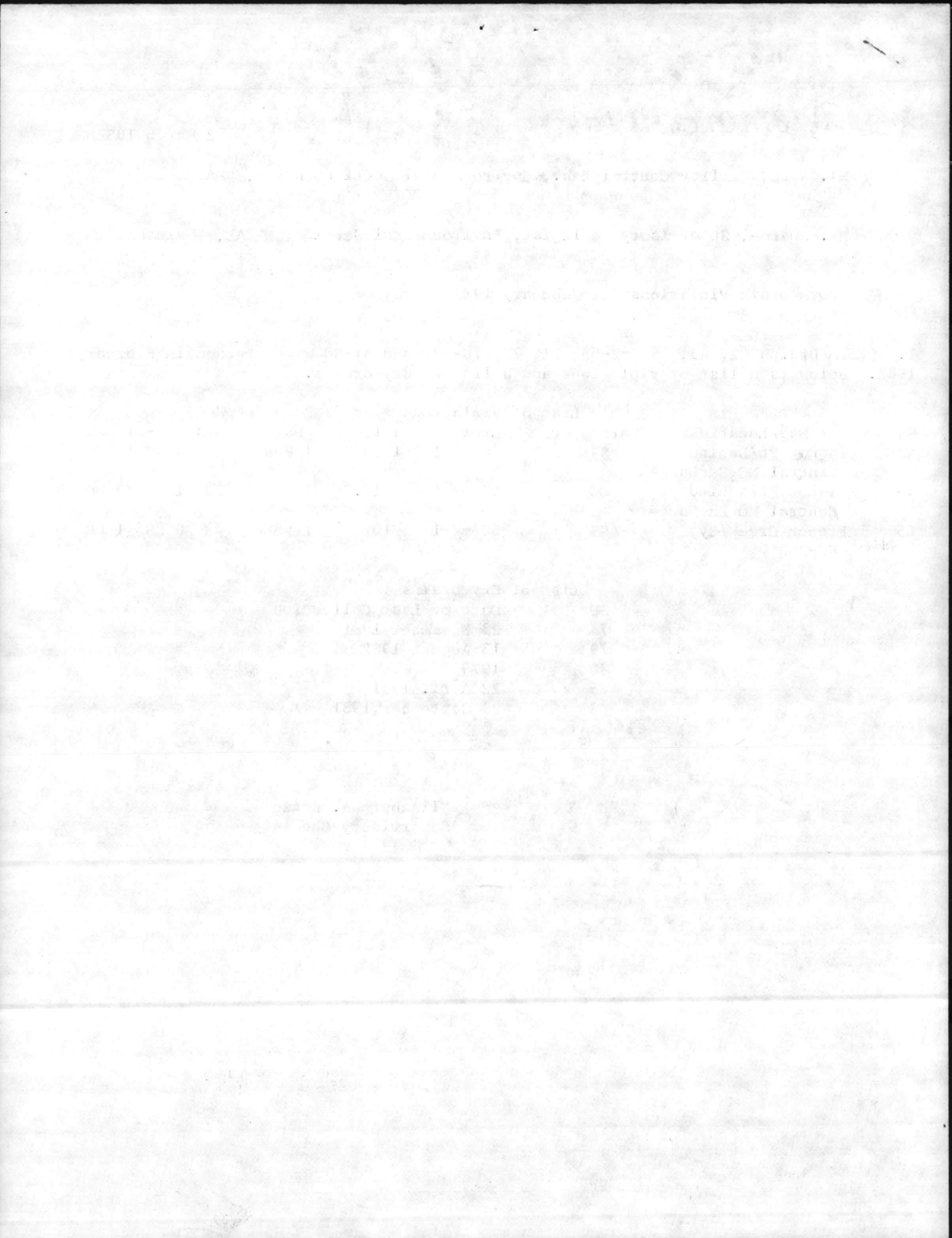
### List of Violations

SD	Map/Location	Parameter	Limits	Value	Date	History-Flunks
42	Hadnot Pt/Behind Central MC Exchange	SS	50 mg/l	1679	1 Feb	pH 8 SS 10 OG 1
43	Hadnot Pt/Behind Central MC Exchange	OG	15 mg/l	19.3	1 Feb	pH 1 SS 2 OG 3
65	French Creek/By FC-260	SS	50 mg/l	102	1 Febq	pH 0 SS 1 OG 0

### List of Dry Drains

SD	Date of Last Collection
78	23 November 1981
79	13 August 1982
80	1979
85	22 April 1981
88	29 September 1981

Elizabeth A. Betz  
Supervisory Chemist



**BASE MAINTENANCE DIVISION**  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/PSH/rn  
11345  
9 Mar 1982

From: Sewage Disposal Plant Operator General Foreman  
To: Quality Control Lab

Subj: Failure of B.O.D. at Courthouse Bay Sewage Treatment Plant for the  
month of December 1982

1. One of the filter feed pumps broke a shaft and had to be overhauled. This necessitated the operation of a bigger pump which increased the optimum hydraulic loading which cut off reducing the optimum loading. This sparadic feeding facilitated the failure of B.O.D. at the Courthouse Bay plant.

  
P. S. HUFFMAN, JR.

MEMORANDUM

TO : [Illegible]

FROM : [Illegible]

SUBJECT: [Illegible]

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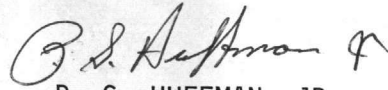
**BASE MAINTENANCE DIVISION**  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/PSH/rn  
11345  
9 Mar 1982

From: Sewage Disposal Plant Operator General Foreman  
To: Quality Control Lab

Subj: Failure of B.O.D. at Camp Johnson Sewage Treatment Plant for the month  
of January and February 1982

1. The filter at Camp Johnson Sewage Treatment Plant was out for five days the first of January for maintenance and repair. When we put the filter back in operation, it ran for about two weeks and the center column bearing went out (was out for about 1½ weeks). The growth on the filter died, causing the failure of B.O.D. for the months of January and February.

  
P. S. HUFFMAN, JR.

1912

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

ON THE CHEMISTRY OF

THE ALKYL HALIDES