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 TOWNSEND, J. D. Pacific Gas & Electric Co.  
 RECIP. NAME RECIPIENT AFFILIATION

LEONARD, W. California, State of

SUBJECT: "Rept on Discharge Monitoring at Plant During Month of Jan 1988." W/880219 ltr.

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	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
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	ROOD, H	1 1		
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	AEOD/DSP/TPAB	1 1	ARM TECH ADV	1 1
	NRR/DEST/PSB	1 1	NRR/DREP/RPB	4 4
	NRR/PMAS/ILRB	1 1	<u>REG FILE</u> 01	1 1
	RGN5 FILE 02	1 1	RGN2/DRSS/EPRPB	1 1
EXTERNAL:	BNL TICHLER, JO3	1 1	LPDR	2 2
	NRC PDR	1 1		

10

11

12

13

PACIFIC GAS & ELECTRIC COMPANY  
NUCLEAR PLANT OPERATIONS

REPORT ON  
DISCHARGE MONITORING AT  
DIABLO CANYON POWER PLANT  
DURING THE MONTH OF  
JANUARY 1988

8802230080 880219  
PDR ADDCK 05000275  
R PDR

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## OVERVIEW

- A. During the month of January, discharges occurred from Discharge Paths 001 (once through cooling water), 001B, 001D, 001E, 001F, 001G, 001H, 001J, 001L, 001M, 001N, 001P, and 002 through 013. No discharges occurred from Discharge Paths 001A, 001C, 001I, and 001K.
- B. On January 14 a discharge occurred from 001M, the wastewater holding and treatment tanks, that exceeded the monthly average limit for non-filtrable residue (NFR). The NFR concentration of the discharge was 97 mg/l. The NFR limits for 001M are:

Monthly Average - 30 mg/l  
Daily Maximum - 100 mg/l

Because only one discharge occurred from 001M during January, it was not possible to bring the monthly average below 30 mg/l.

This discharge was originally intended to be made through 001F, the turbine building sump/oily water separator. But due to personnel error, the discharge was made directly overboard, bypassing 001F. The discharge commenced on January 14 at 1420, and was rerouted through 001F on January 15 at 0230. In that time, approximately 39,000 gallons were released.

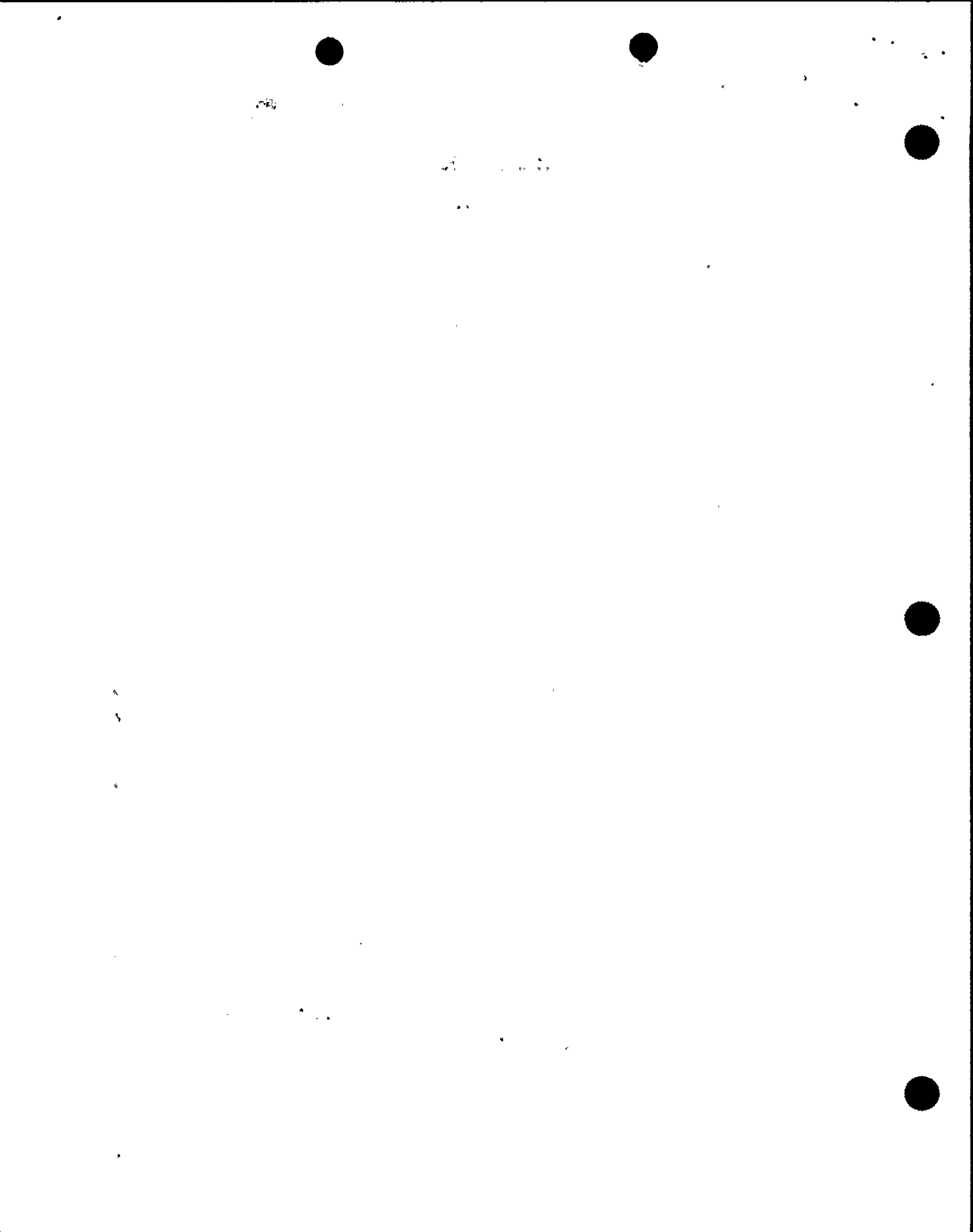
The following two corrective actions will be taken to ensure that 001M is discharged through the intended pathway:

1. Operations personnel will review the importance of using formal written communication to help prevent verbal misunderstanding.
  2. A locking mechanism will be installed on the 001M discharge overboard valve. The Shift Foreman must issue a key for the lock in order for the valve to be opened.
- C. In all cases, chemical, radiochemical, and toxicity analyses were performed in accordance with chemical analysis procedures contained in the Diablo Canyon Power Plant, Units 1 and 2 Plant Manual, Volume 8, by State approved laboratories, or laboratories meeting the requirements specified in the California Regional Water Quality Control Board Central Coast Region "Standard Provisions and Reporting Requirements" dated January 25, 1985. Receiving water monitoring was performed in accordance with approved biological and oceanographic procedures.

## SUMMARY OF MONITORING PROGRAM

### A. Monitoring of Plant Influent and Effluent

1. The results of the January plant influent and effluent monitoring are reported in Appendix 1.





2. The result of a static bioassay of Discharge 001 sampled January 11, 1988, is reported in Appendix 2.

B. Monitoring of Receiving Waters

1. Ecological Studies at Diablo Canyon

Ecological studies in accordance with the Thermal Effects Monitoring Program (Provision D.4.a) were completed December 31, 1987. The final TEMP report will be submitted to the Board by May 1, 1988. A series of studies proposed to the Board on July 21, 1987, commenced this month. Results of this program, which is referred to as the Diablo Canyon Marine Environmental Monitoring (MEM) Program, will be reported annually.

2. Sediment Analysis

Sediment samples are collected in September.

3. Aerial Photography of Kelp Beds

Aerial photography (infrared film type 2443) of kelp beds in the vicinity of Diablo Canyon is required in February, June, and October.

4. Surface Water Temperature

Surface water temperatures are measured and reported every other month.

5. Stratified Water Temperatures

Stratified water temperatures are measured in February, June, and October.

6. pH and Dissolved Oxygen of Receiving Waters

Monitoring of pH and dissolved oxygen in the receiving waters is scheduled in February, June, and October.

7. Incident Light Measurements

Incident light measurements are reported quarterly in reports submitted January, April, July, and October.

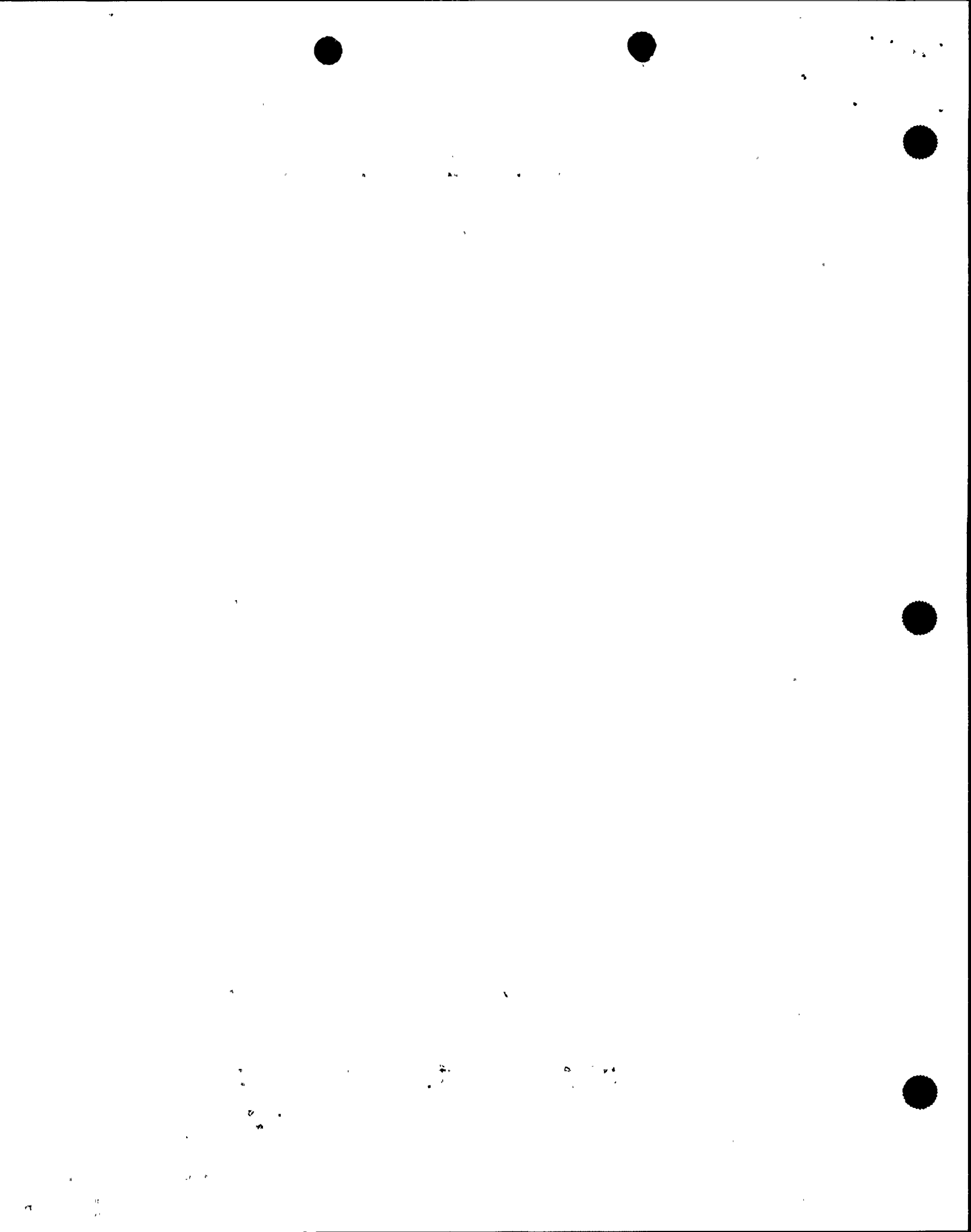
8. In situ Bioassay

Results of the Mussel Watch program will be reported to the Board directly from the California Department of Fish and Game in their periodic report for this program.



APPENDIX 1

Influent and Effluent Monitoring  
January 1988



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (H) 1

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 88/01/01

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ENDING 88/01/31

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06

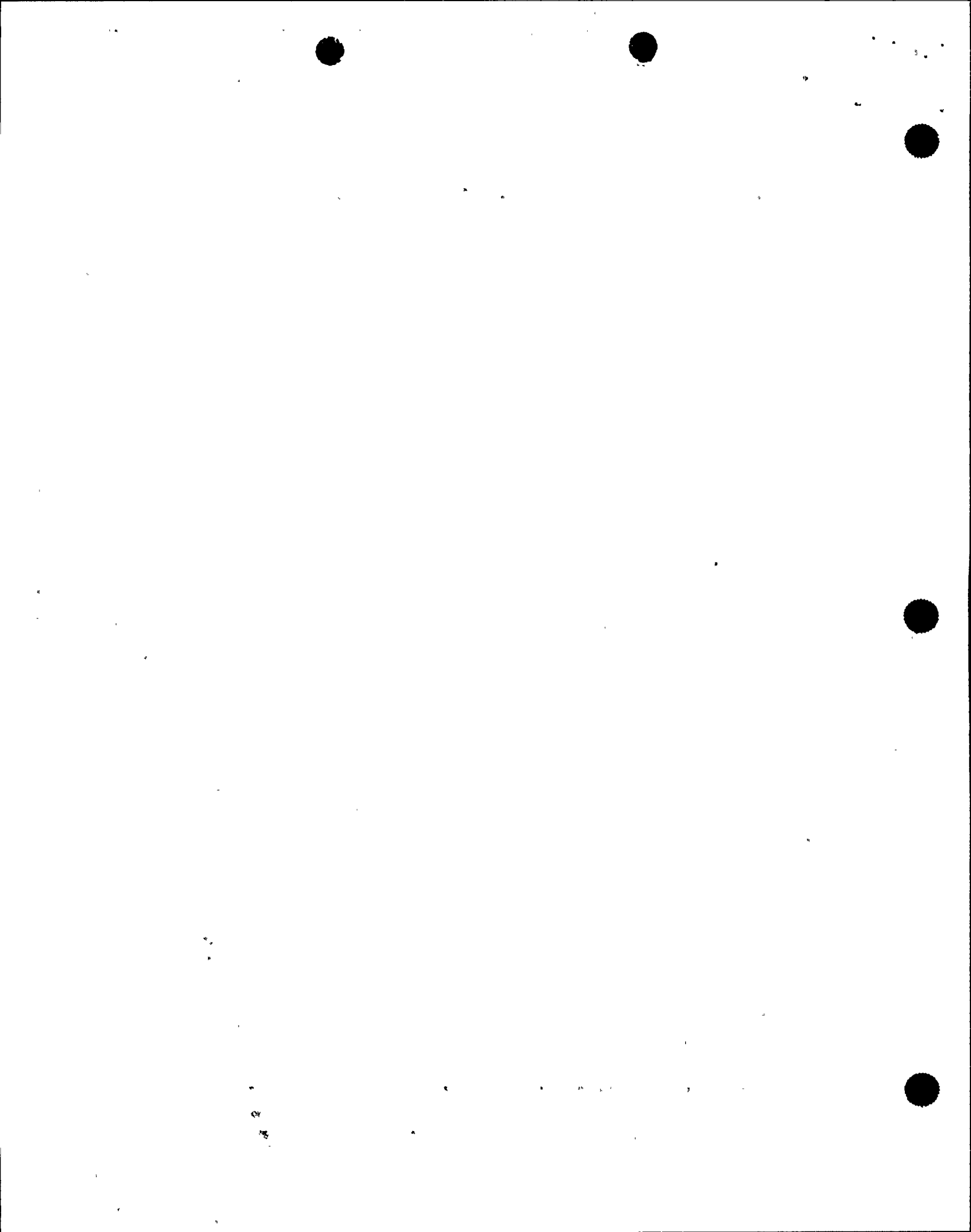
NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLOW MGD RECORDED DAILY	INFLUENT pH pH UNITS GRAB MONTHLY	EFFLUENT 001 pH pH UNITS GRAB MONTHLY	EFF 001P=3003 pH pH UNITS GRAB WEEKLY	EFFLUENT 002 pH pH UNITS GRAB MONTHLY	EFFLUENT 003 pH pH UNITS GRAB MONTHLY
JANUARY	†	†	†	†	†	†	†	†
1	55.8	64.9	2490					
2	55.8	66.9	2490					
3	55.8	67.7	2490					
4	55.3	68	2490	7.82	7.92		7.81	
5	55.1	66.9	2490					
6	55.8	67.1	2490					
7	56.1	66.4	2490					
8	56.3	66.3	2130					
9	56.4	66	1870					
10	56	64.5	2130					
11	55.8	63.2	2490					7.76
12	55	64.3	2390					
13	55.1	64.7	2380					
14	55.3	68.4	2490					
15	56	66.9	2490					
16	56.5	65.8	2490					
17	57	68.7	2280					
18	52.2	66.9	1840					
19	52.9	66.8	2490					
20	52.8	65.5	2490					
21	52.1	64.4	2490					
22	52	64.8	2490					
23	52.1	65.3	2490					
24	52.2	66.7	2490					
25	52.5	67.5	2490					
26	52.3	68.3	2490					
27	52.3	68.6	2490					
28	52.3	68.5	2490					
29	52.3	68.4	2490					
30	52.5	67.8	2490					
31	52.4	67.1	2490					
MONTHLY AVG	54.3	66.6	2412.3			NO DISCHARGE		
MONTHLY HIGH	57.0	68.7	2490.0					
MONTHLY LOW	52.0	63.2	1840.0					
TIMES EXCEEDED	NO LIMIT	MAXIMUM = 0	MAX 2760 = 0	NO LIMIT	MIN 6.0 = 0	MIN 6.0 = 0	MIN 6.0 = 0	MIN 6.0 = 0
TIMES EXCEEDED		INTAKE PLUS			MAX 9.0 = 0	MAX 9.0 = 0	MAX 9.0 = 0	MAX 9.0 = 0
TIMES EXCEEDED		22 DEGREES(††)						

REMARKS: (†) Number of Samples taken during the day. (††) Except During Demusseling.

PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
*John R. Krenney* 2/17/88



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LUIS OBISPO, CA 93401

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06

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CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 004 pH pH UNITS GRAB MONTHLY	INFLUENT TURBIDITY NTU GRAB MONTHLY	EFFLUENT 001 TURBIDITY NTU GRAB MONTHLY	EFFLUENT 001 OIL & GREASE mg/l GRAB MONTHLY	EFFLUENT 001F OIL & GREASE mg/l GRAB MONTHLY	EFFLUENT 001N OIL & GREASE mg/l GRAB MONTHLY	EFF001P=003 OIL & GREASE mg/l GRAB WEEKLY	EFFLUENT 001N SETTLE SOLIDS mg/l GRAB WEEKLY
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JANUARY	*	*	*	*	*	*	*	*
1								
2								
3								
4		.82	.3	<3				
5								
6								
7								
8						10		.1
9								
10								
11	7.97							
12								
13								
14								.1
15								
16								
17								
18					<3			
19								
20								.1
21								
22								
23								
24								
25								
26								
27								
28								
29								.1
30								
31								

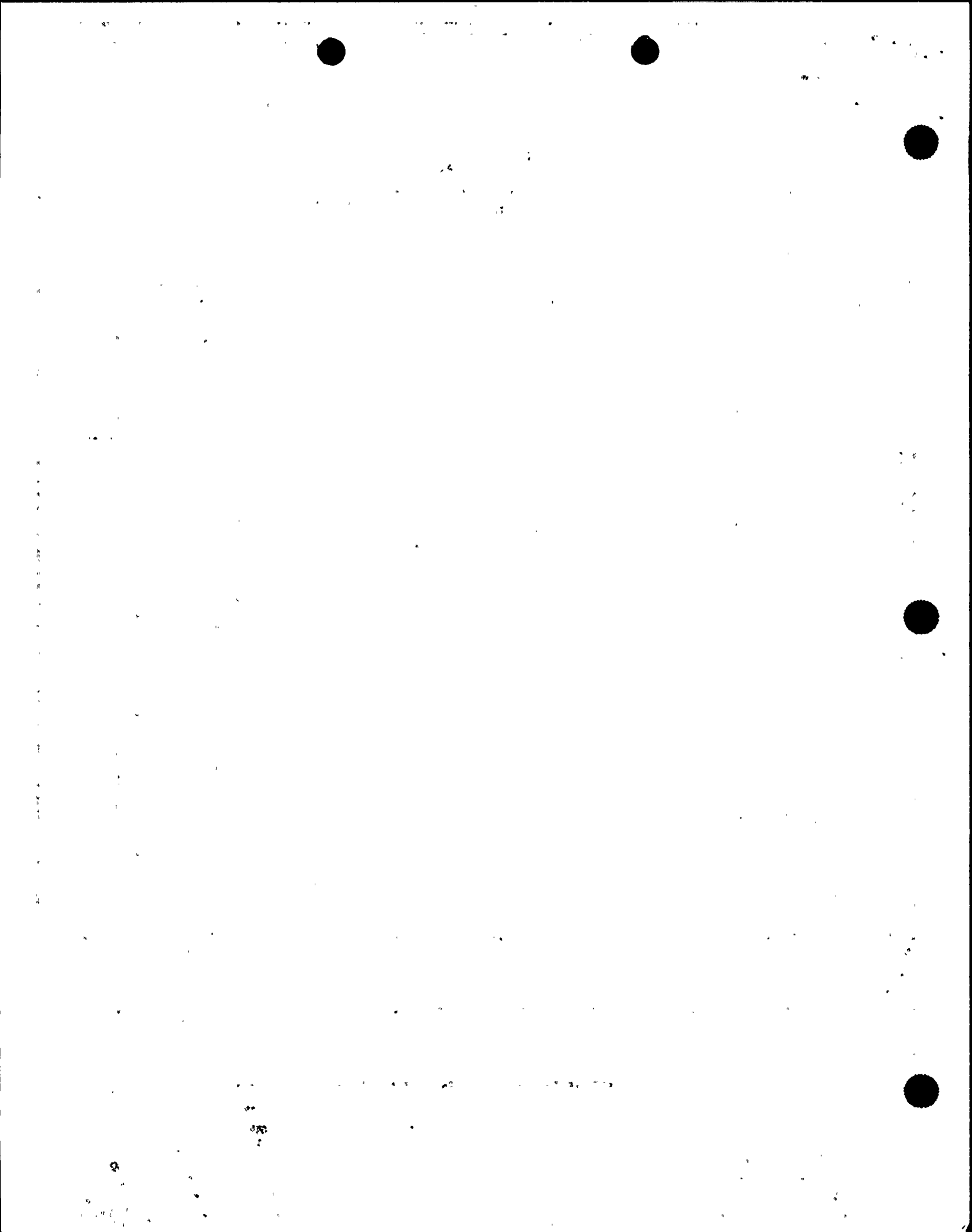
MONTHLY AVG	NO DISCHARGE							.1
MONTHLY HIGH								.1
MONTHLY LOW								.1

TIMES EXCEEDED	MIN 6.0 =0	NO LIMIT	NO LIMIT	NO LIMIT	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 1.0 =0
TIMES EXCEEDED	MAX 9.0 =0				D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 3.0 =0
TIMES EXCEEDED								

REMARKS: (\*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT  
*J.R. Krenig*  
DATE  
2/2/88





CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 CENTRAL COAST REGION  
 1102A LAUREL LANE  
 SAN LUIS OBISPO, CA 93401

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001 T NF RESIDUE mg/l 1st FLTR GRAB MONTHLY	EFFLUENT 001 T NF RESIDUE mg/l 2nd FLTR GRAB MONTHLY	EFFLUENT 001 T NF RESIDUE mg/l NET GRAB MONTHLY	EFFLUENT 001 T NF RESIDUE mg/l 1st FLTR GRAB MONTHLY	EFFLUENT 001 T NF RESIDUE mg/l 2nd FLTR GRAB MONTHLY	EFFLUENT 001 T NF RESIDUE mg/l NET GRAB MONTHLY	EFFLUENT 001C T NF RESIDUE mg/l GRAB MONTHLY	EFFLUENT 001D T NF RESIDUE mg/l GRAB MONTHLY
--	--	--	---	--	--	---	--	--

JANUARY	§	§	§	§	§	§	§	§
1								
2								
3								
4	15	13	2					12
5								
6								
7								
8								
9								
10								
11								
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29								
30								
31								

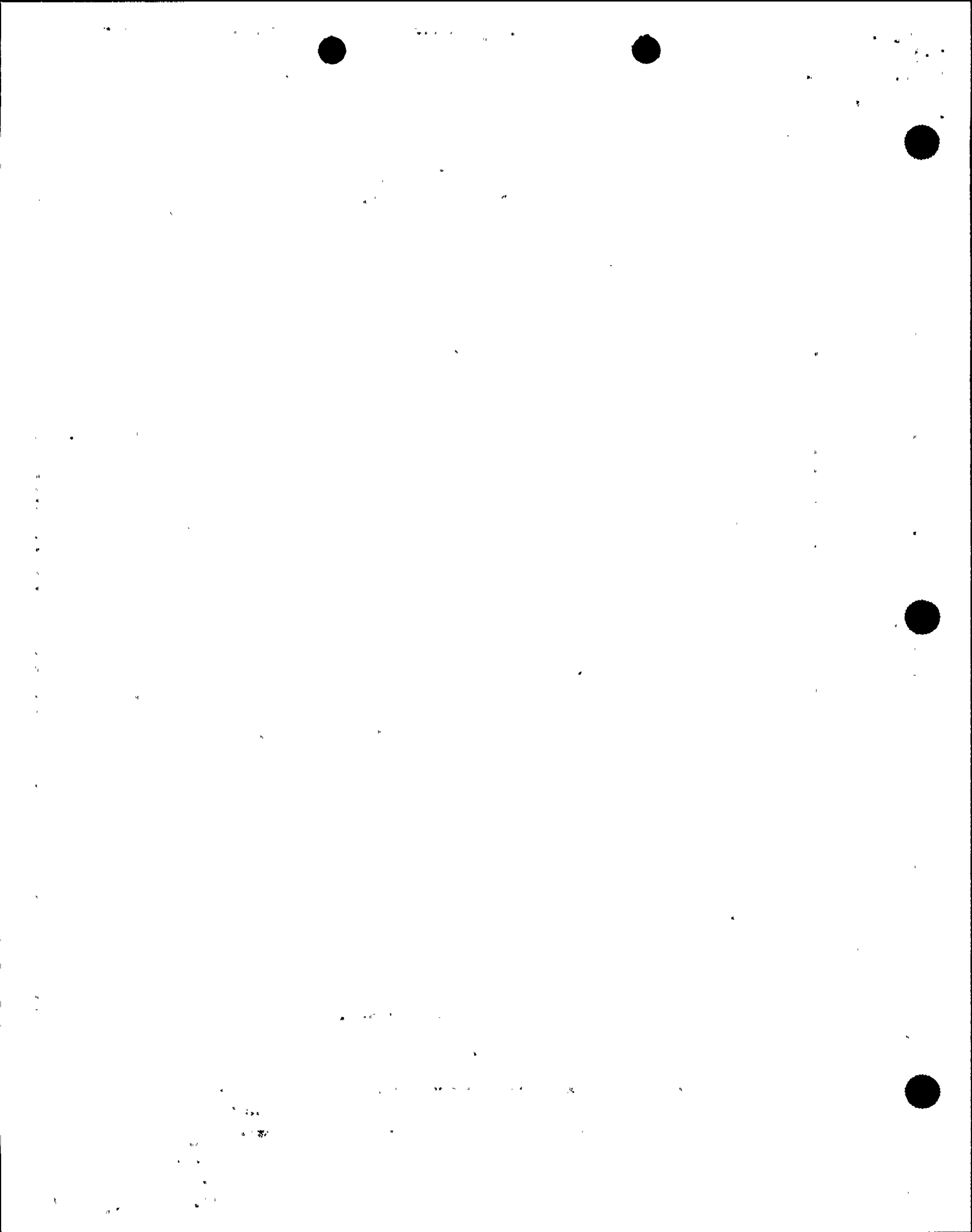
MONTHLY AVG	NO DISCHARGE							
MONTHLY HIGH	NO DISCHARGE							
MONTHLY LOW	NO DISCHARGE							

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO AVG 30 =0	NO AVG 30 =0
TIMES EXCEEDED						D MAX 100 =0	D MAX 100 =0	D MAX 100 =0
TIMES EXCEEDED								

REMARKS: (§) Number of Samples taken during the day. \_\_\_\_\_

PRINCIPAL EXECUTIVE OFFICER  
 JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
*John R. Krenn* 2/17/88



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STATE CODE  
 06

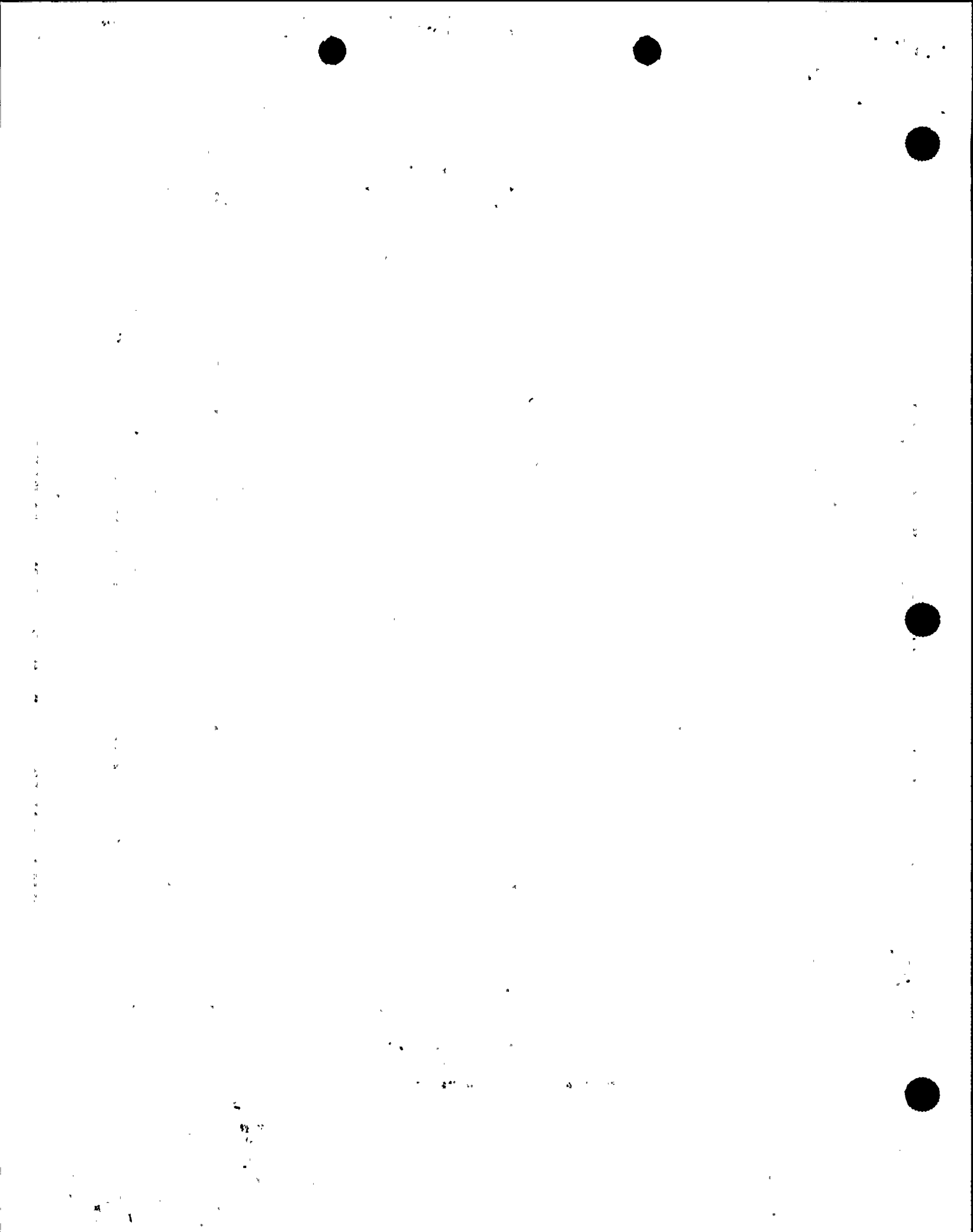
NPDES PERMIT #  
 CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001F	EFFLUENT 001G	EFFLUENT 001H	EFFLUENT 001J	EFFLUENT 001K	EFFLUENT 001L	EFFLUENT 001M	EFFLUENT 001N
	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l
	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
JANUARY	‡	‡	‡	‡	‡	‡	‡	‡
1								
2								
3			13					
4								
5								
6								
7								
8								19
9								
10				<1				
11		<1						
12								
13								
14								
15							97	
16								
17	4							
18								
19						1		
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								46
30								
31								
MONTHLY AVG	NO DISCHARGE							32.5
MONTHLY HIGH								46
MONTHLY LOW								19
TIMES EXCEEDED	MO AVG 30 = 0	MO AVG 30 = 0	MO AVG 30 = 0	MO AVG 30 = 0	MO AVG 30 = 0	MO AVG 30 = 0	MO AVG 30 = 1	MO AVG 60 = 0
TIMES EXCEEDED	D MAX 100 = 0	D MAX 100 = 0	D MAX 100 = 0	D MAX 100 = 0	D MAX 100 = 0	D MAX 100 = 0	D MAX 100 = 0	D MAX 100 = 0
TIMES EXCEEDED								

REMARKS: (‡) Number of Samples taken during the day. -----

PRINCIPAL EXECUTIVE OFFICER  
 JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
 John R. Krenn 2/17/88



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

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AVILA BEACH, CALIF 93424  
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FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
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STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001P T NF RESIDUE ug/l GRAB MONTHLY	EFFLUENT 002 T NF RESIDUE ug/l GRAB MONTHLY	EFF 001P=>003 T NF RESIDUE ug/l GRAB WEEKLY	EFFLUENT 001 T CHROMIUM ug/l GRAB MONTHLY	EFFLUENT 001 COPPER ug/l GRAB MONTHLY	EFFLUENT 001 NICKEL ug/l GRAB MONTHLY	EFFLUENT 001 ZINC ug/l GRAB MONTHLY
--	--	---	---	---	---------------------------------------	---------------------------------------	-------------------------------------

JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
				1								<1																			

MONTHLY AVG MONTHLY HIGH MONTHLY LOW

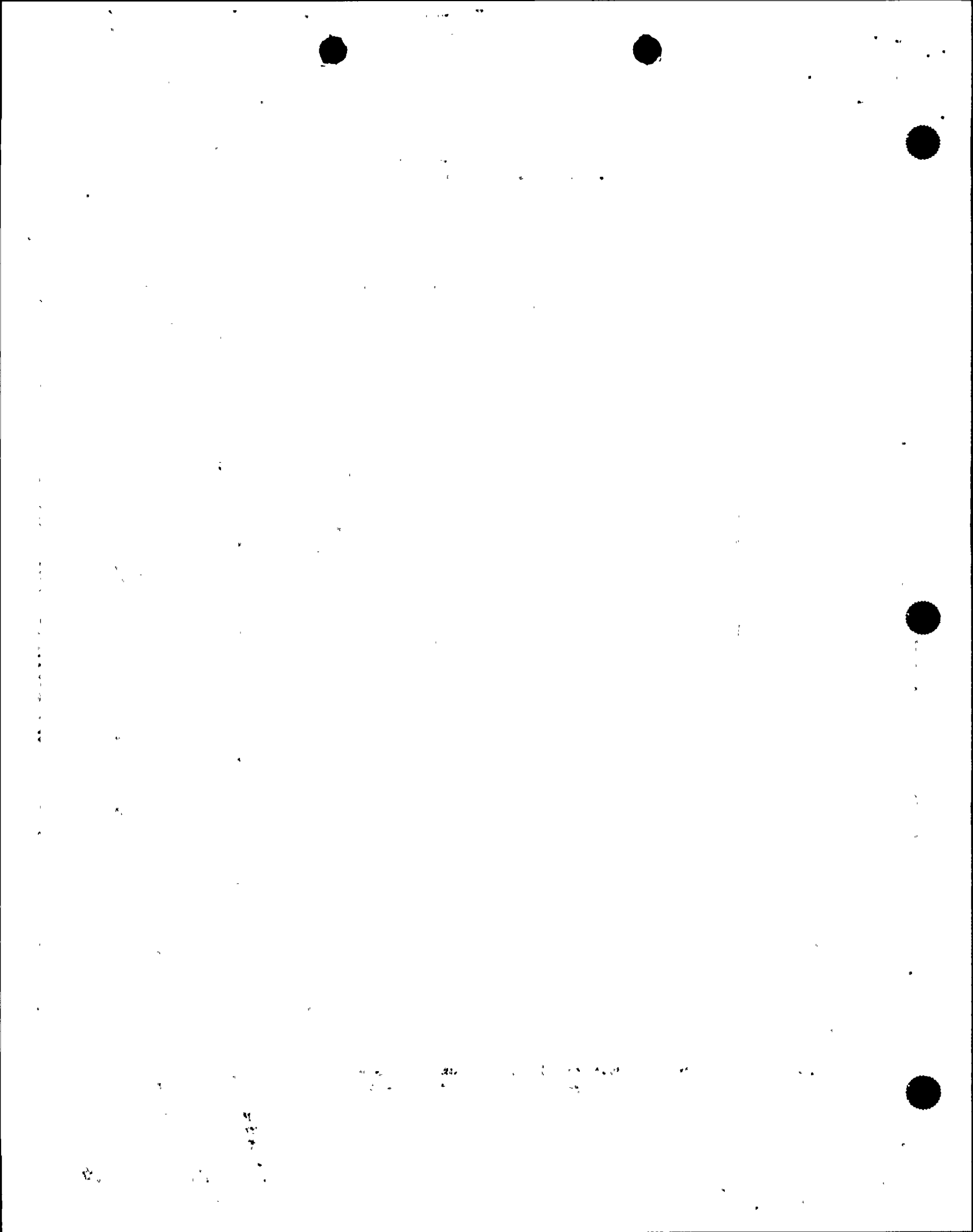
NO DISCHARGE

TIMES EXCEEDED	MD AVG 30 =0	MD AVG 30 =0	MD AVG 30 =0	6M-MEAN 15 =0	6M-MEAN 24 =0	6M-MEAN 148 =0	6M-MEAN 97 =0
TIMES EXCEEDED	D MAX 100 =0	D MAX 100 =0	D MAX 100 =0	D MAX 59 =0	D MAX 135 =0	D MAX 592 =0	D MAX 541 =0
TIMES EXCEEDED				I MAX 148 =0	I MAX 357 =0	I MAX 1480 =0	I MAX 1430 =0

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
John R. Krenay 2/7/88



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
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 SAN LUIS-OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

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 ENDING 88/01/31

STATE CODE  
 06

NPDES PERMIT #  
 CA0003751

STATION ANALYSIS UNITS SKPL TYPE FREQ.	EFFLUENT 001 T CHLOR RES ug/l GRAB 2 per CYCLE	EFFLUENT 001 FREE AVL CHL ug/l GRAB 2 per CYCLE	EFFLUENT 001 CHLORINE USED lbs/day RECORDED MONTHLY	EFFLUENT 001 AMMONIA (N) mg/l GRAB MONTHLY	EFFLUENT 001 TITANIUM ug/l GRAB MONTHLY	EFFLUENT 001D LITHIUM ug/l MONTHLY COMP. MONTHLY	EFFLUENT 001D BORON ug/l MONTHLY COMP. MONTHLY	EFFLUENT 001D HYDRAZINE ug/l GRAB MONTHLY
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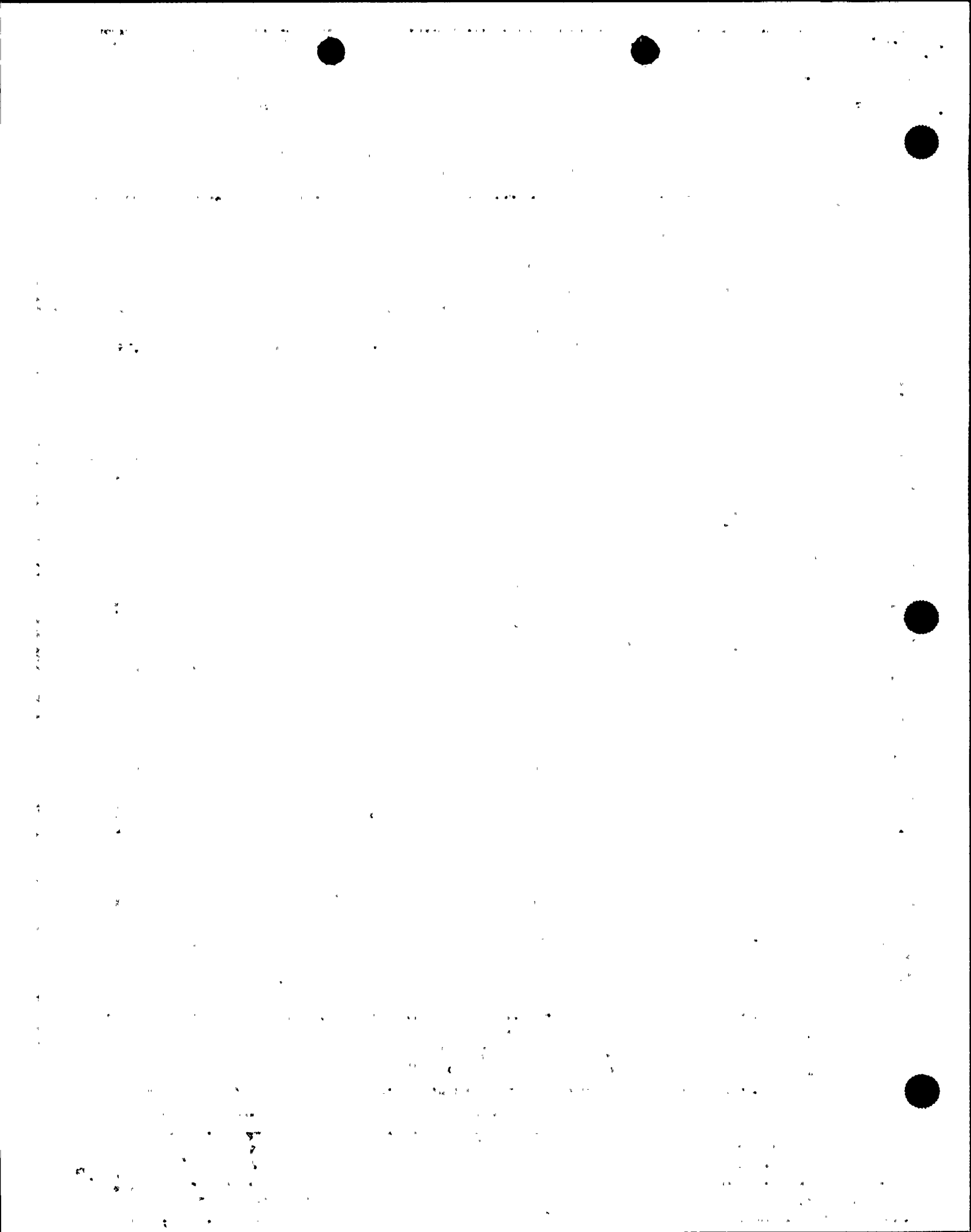
JANUARY	#	#	#	#	#	#	#	#
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2								
3								
4	6	50	6 <20	333	.021	14		27
5	6	40	6 <20	333				
6	6	50	6 20	333				
7	6	35	6 <20	333				
8								
9						** 104		
10								
11	8	35	8 <20	333			** 126000	
12								
13	6	45	6 20	333				
14								
15	6	35	6 20	333				
16								
17								
18								
19								
20	6	35	6 <20	333				
21								
22	6	55	6 <20	333				
23								
24								
25	8	50	8 20	333				
26								
27								
28								
29								
30								
31								

MONTHLY AVG								
MONTHLY HIGH								
MONTHLY LOW								
TIMES EXCEEDED	D MAX 200 =0	30 DAY AV 200	NO LIMIT	6M-MEAN 4.44=0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED	I MAX 200 =0	=0		D MAX 17.8 =0				
TIMES EXCEEDED		D MAX 500 =0		I MAX 44.4 =0				

REMARKS: (\*) Number of Samples taken during the day. (\*\*) Lithium and Boron analyzed on December, 1987 monthly composite.

PRINCIPAL EXECUTIVE OFFICER  
 JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
 John R. Krenn 2/17/88





CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

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PO BOX 56  
AVILA BEACH, CALIF 93424  
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FACILITY I.D.                                  YEAR/ MO / DAY                                  YEAR/ MO / DAY      STATE CODE      NPDES PERMIT #  
3 402003001                                  BEGINNING 88/01/01                                  ENDING 88/01/31                                  06                                  CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFF 001N=>003 TOTL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK	EFF 001N=>003 FECAL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK	EFF 001N=>INTK TOTL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK	EFF 001N=>INTK FECAL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK
--	---	--	--	---

JANUARY	†	†	†	†	†	†	†	†	†	†
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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29										
30										
31										

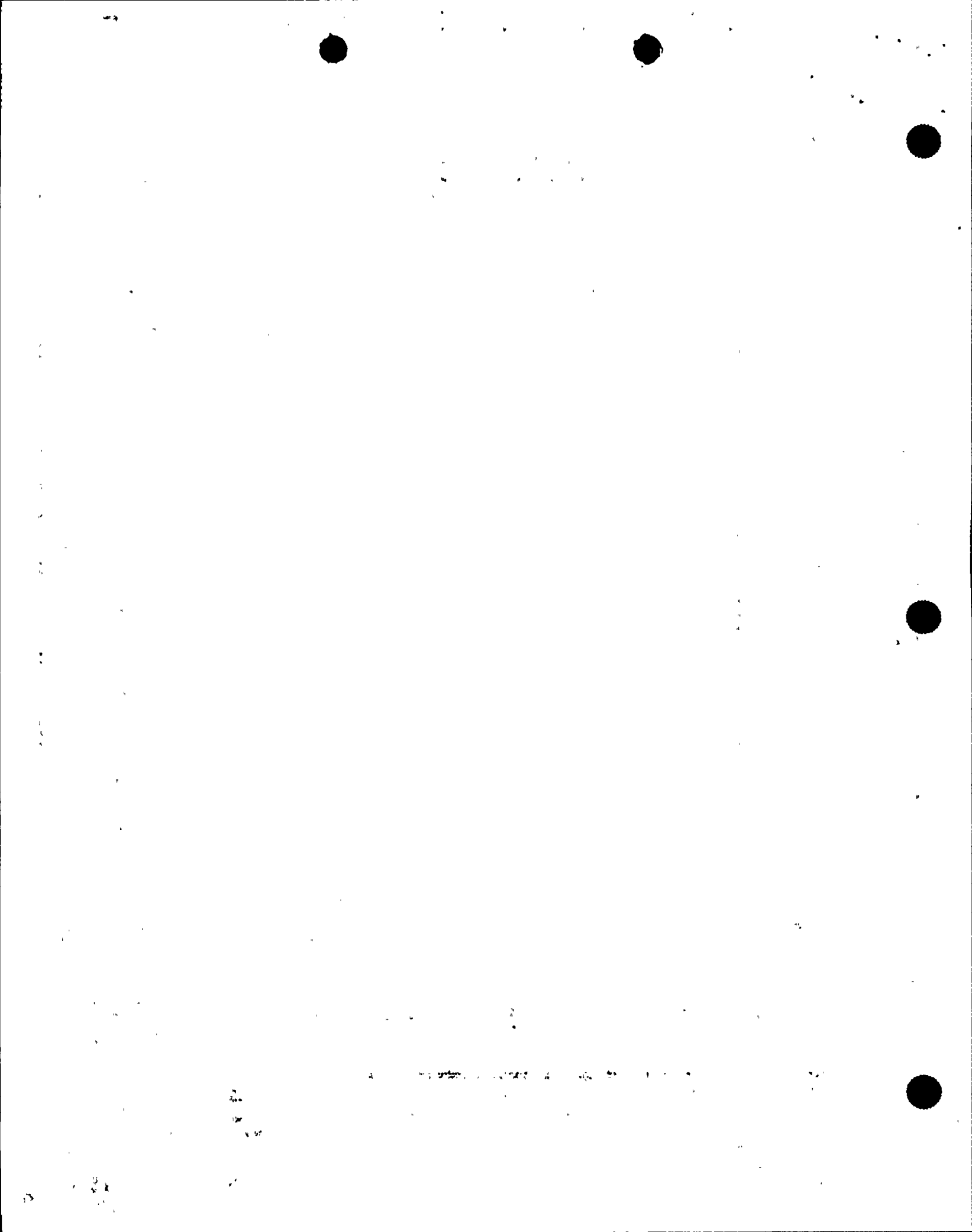
MONTHLY AVG      NO DISCHARGE    NO DISCHARGE    NO DISCHARGE    NO DISCHARGE  
MONTHLY HIGH  
MONTHLY LOW

TIMES EXCEEDED 80% SMPLS>1K    MEAN>200=    80% SMPLS>1K    MEAN>200=  
TIMES EXCEEDED                                  =    90% SMPLS>400                                  =    90% SMPLS>400  
TIMES EXCEEDED I MAX >10K=                                  =    I MAX >10K=                                  =

REMARKS: (†) Number of Samples taken during the day. \_\_\_\_\_

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>John R. Krenig</i>	2/17/88



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LAÑE  
SAN LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (0) 1

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 88/01/01

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ENDING 88/01/31

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001C OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001D OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001G OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001H OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001I OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001J OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001K OIL & GREASE mg/l GRAB JA/AP/JUL/OCT
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JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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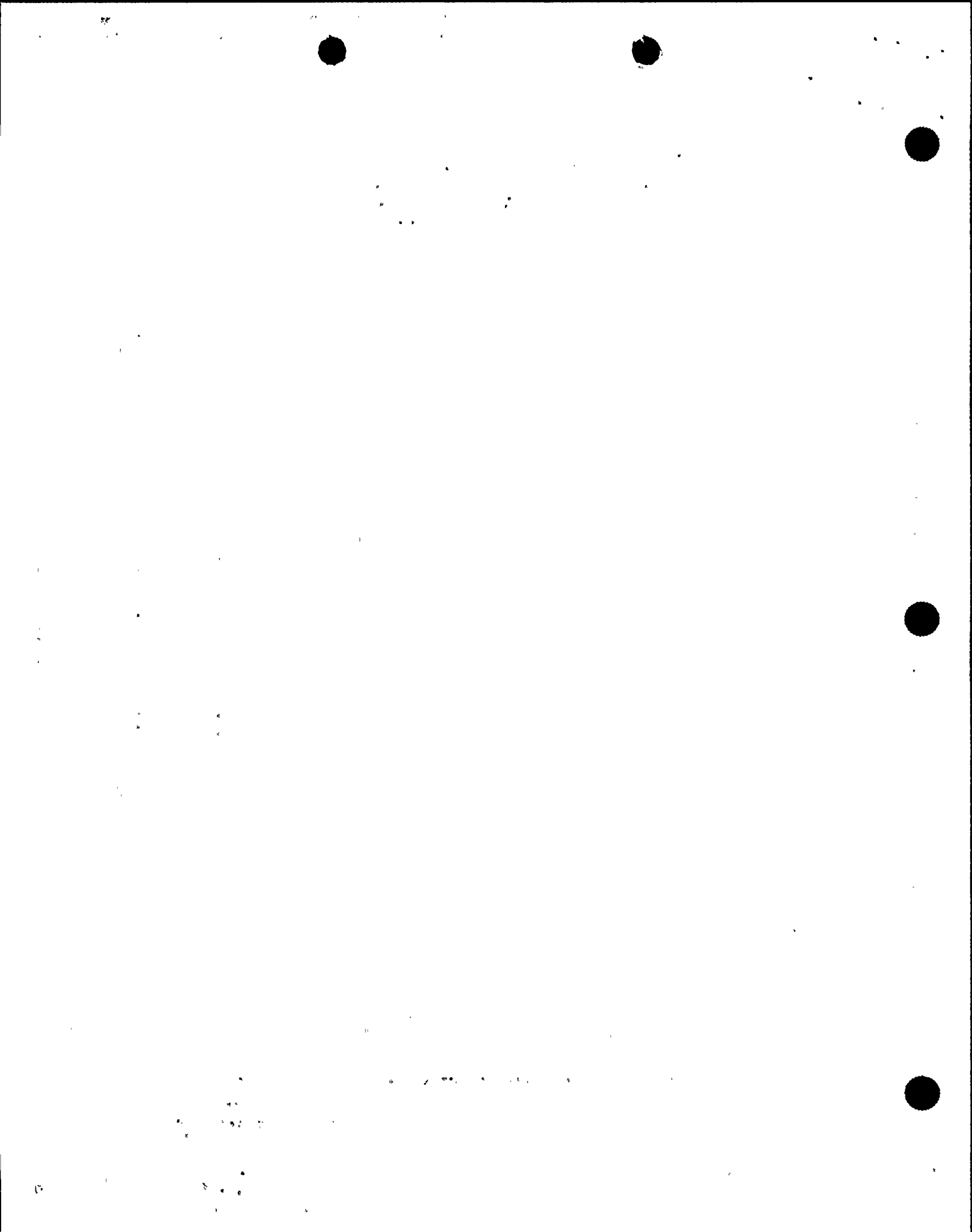
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MONTHLY HIGH												
MONTHLY LOW												

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TIMES EXCEEDED		D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0
TIMES EXCEEDED										

REMARKS: (\*) Number of Samples taken during the day. \_\_\_\_\_

PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
*John R. Krenn* 2/17/88



CALIFORNIA REGIONAL WATER QUALITY  
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001L OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001M OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001P OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 002 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 003 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 004 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	INFLUENT T NF RESIDUE mg/l 1st FLTR GRAB JA/AP/JUL/OCT	INFLUENT T NF RESIDUE mg/l 2nd FLTR GRAB JA/AP/JUL/OCT
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JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

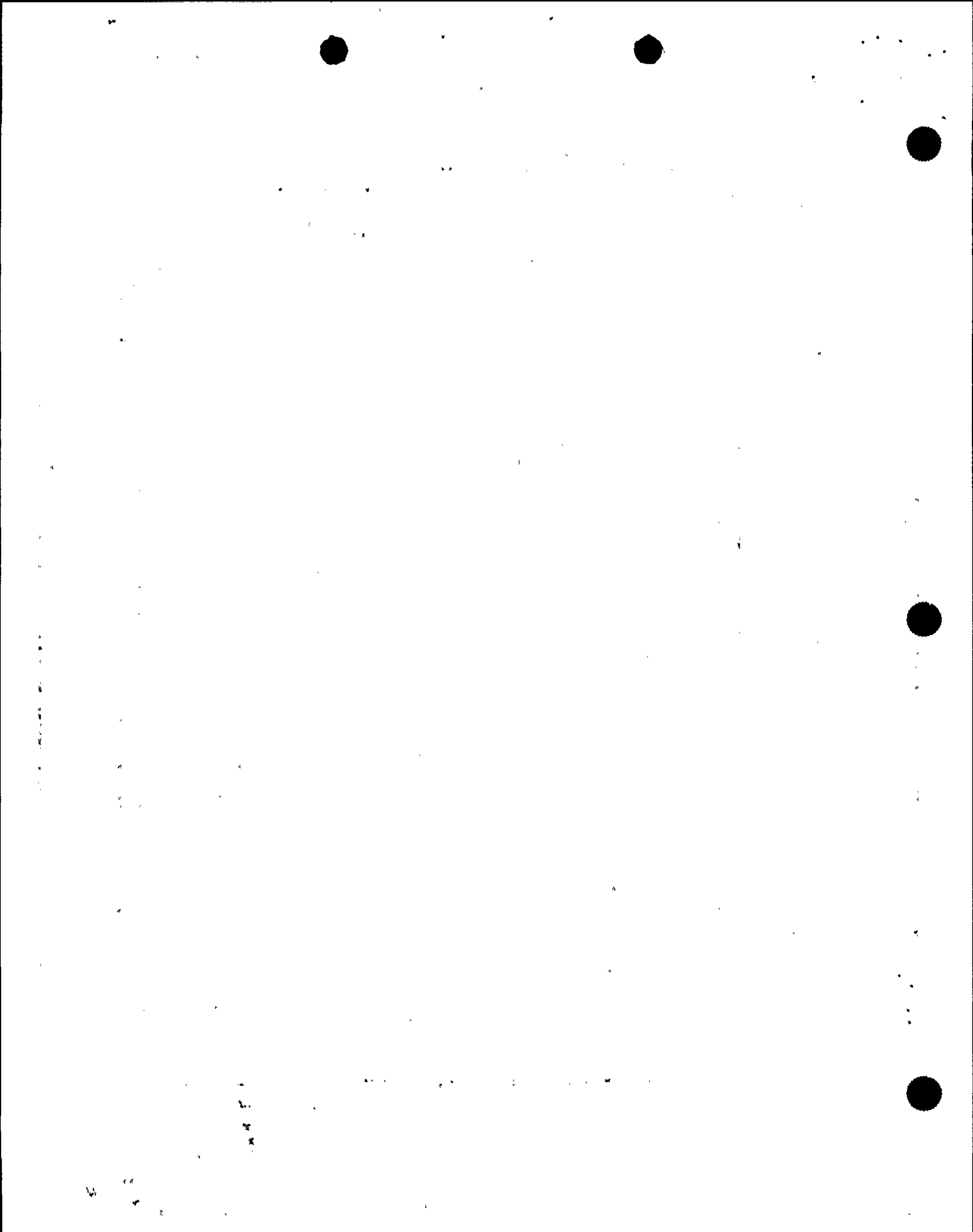
MONTHLY AVG																														
MONTHLY HIGH																														
MONTHLY LOW																														

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TIMES EXCEEDED	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0		
TIMES EXCEEDED								

REMARKS: (\*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
John R. Kneenan 2/12/88



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STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT T NF RESIDUE mg/l NET JA/AP/JUL/OCT	INFLUENT T CHROMIUM ug/l GRAB JA/AP/JUL/OCT	INFLUENT COPPER ug/l GRAB JA/AP/JUL/OCT	INFLUENT NICKEL ug/l GRAB JA/AP/JUL/OCT	INFLUENT ZINC ug/l GRAB JA/AP/JUL/OCT	INFLUENT AMMONIA (N) mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 PHENOLIC CMP ug/l (NONCL) GRAB JA/AP/JUL/OCT	EFFLUENT 001 CHLOR PHENOL ug/l GRAB JA/AP/JUL/OCT
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JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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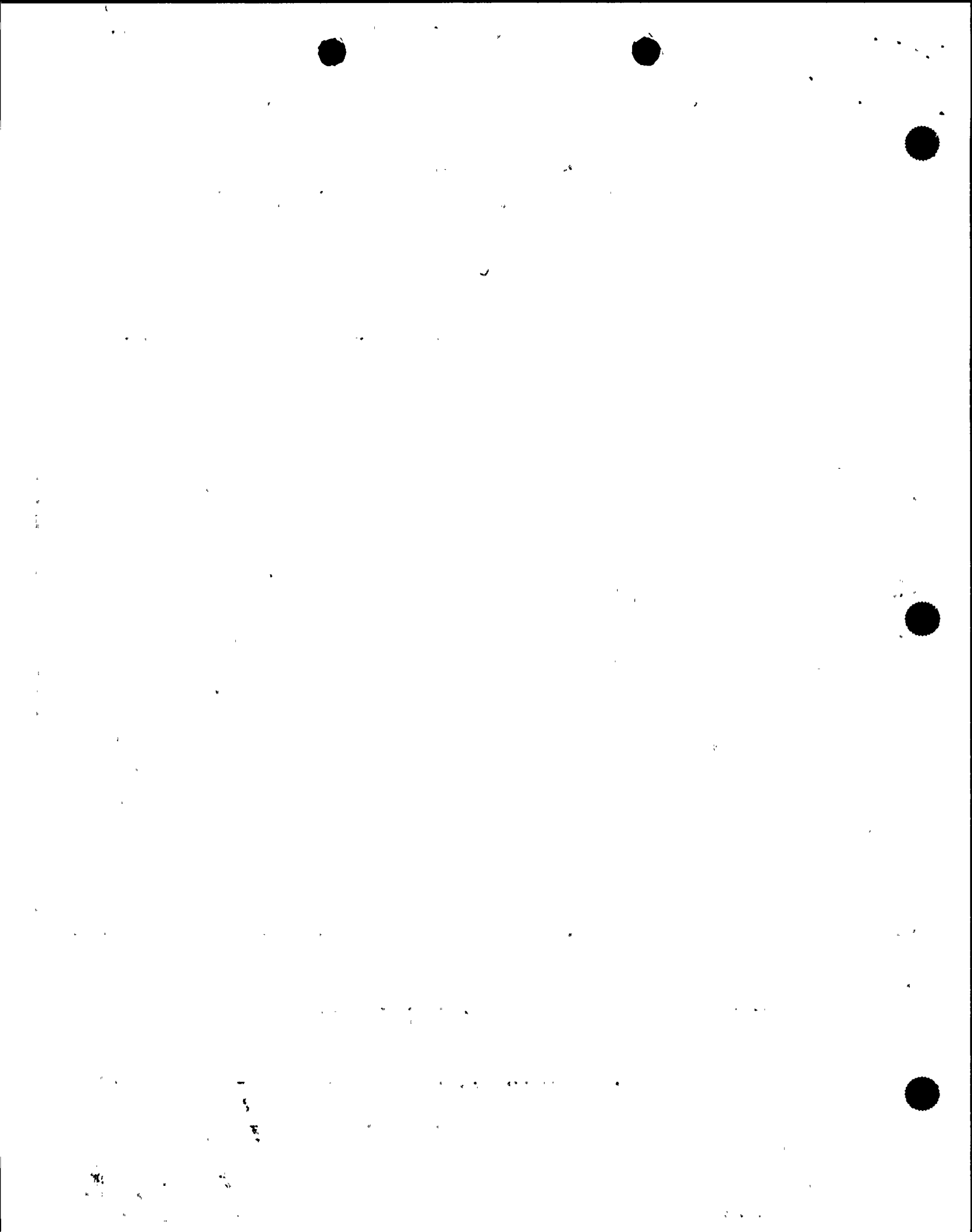
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MONTHLY HIGH																															
MONTHLY LOW																															

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TIMES EXCEEDED								I MAX 2200 =0	I MAX 70 =0

REMARKS: (\*) Number of Samples taken during the day.

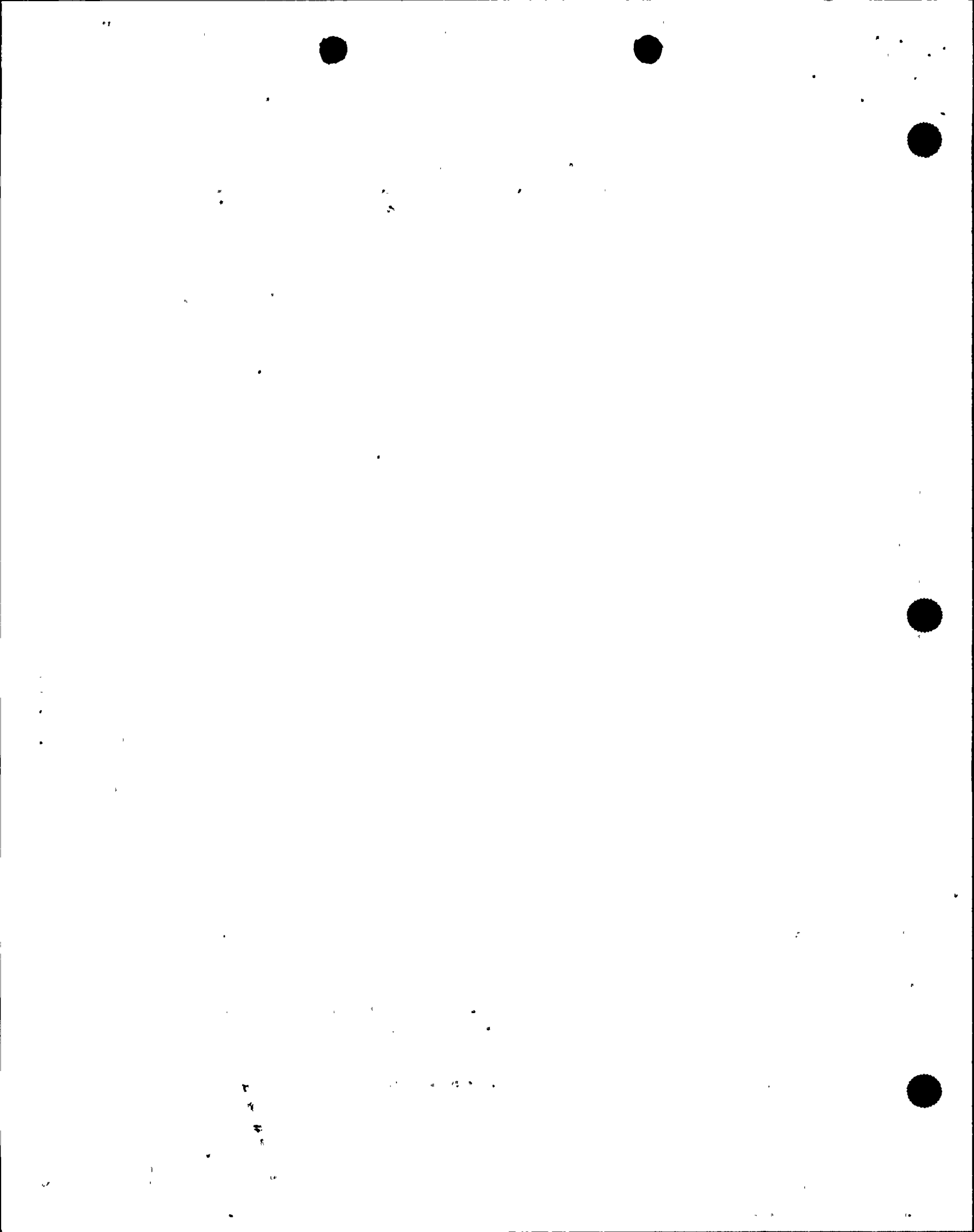
PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT  
*John R. Kienney*  
DATE  
2/17/88









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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F T CHROMIUM ug/l WEEKLY COMP JA/AP/JUL/OCT	EFFLUENT 001D COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F COPPER ug/l WEEKLY COMP JA/AP/JUL/OCT
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JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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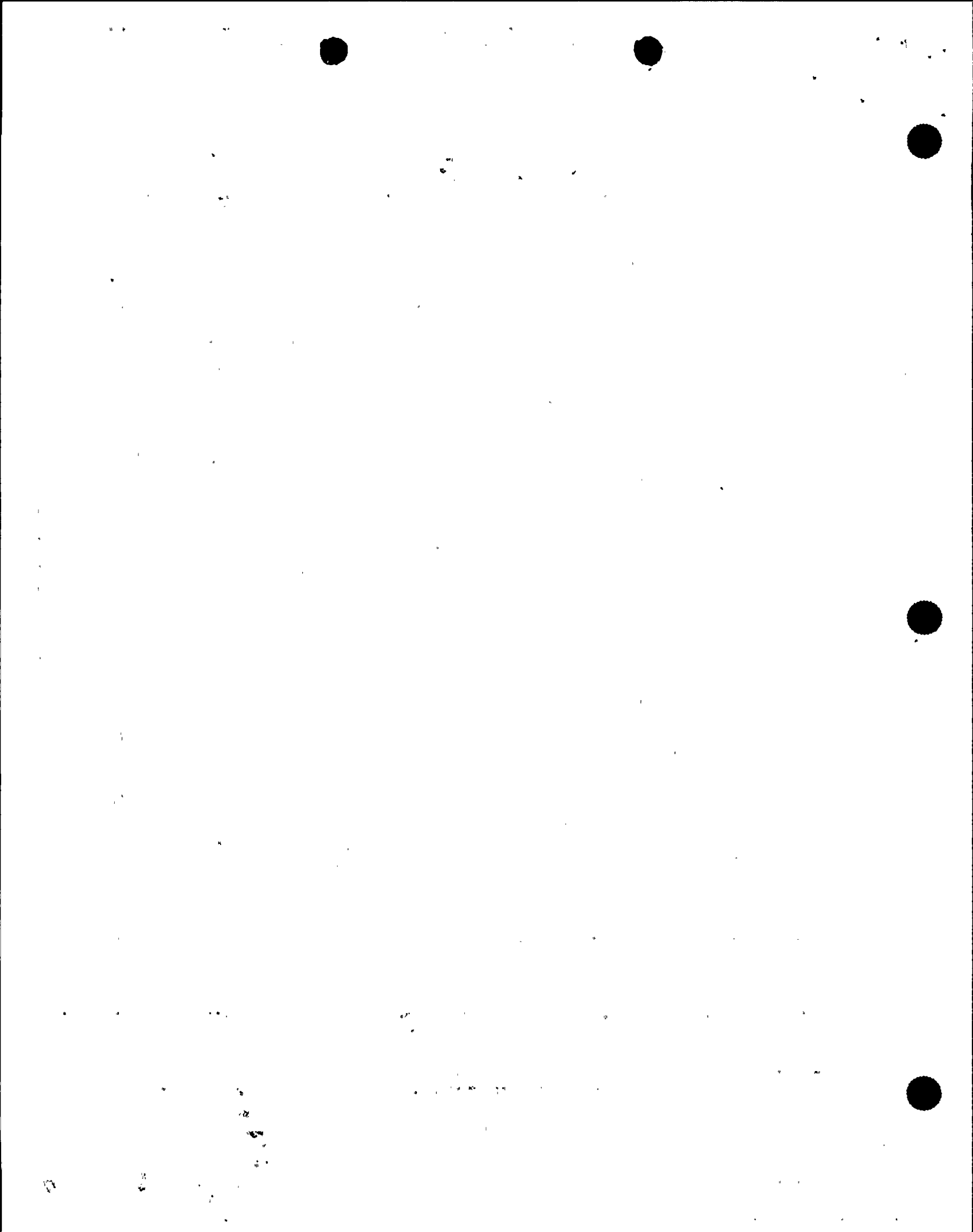
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MONTHLY LOW																																

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TIMES EXCEEDED																																
TIMES EXCEEDED																																

REMARKS: (\$) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER  
JAMES D. SHIFFER

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DATE  
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F LEAD ug/l WEEKLY COMP JA/AP/JUL/OCT	EFFLUENT 001D MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F MERCURY ug/l WEEKLY COMP JA/AP/JUL/OCT
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JANUARY	\$	\$	\$	\$	\$	\$	\$	\$
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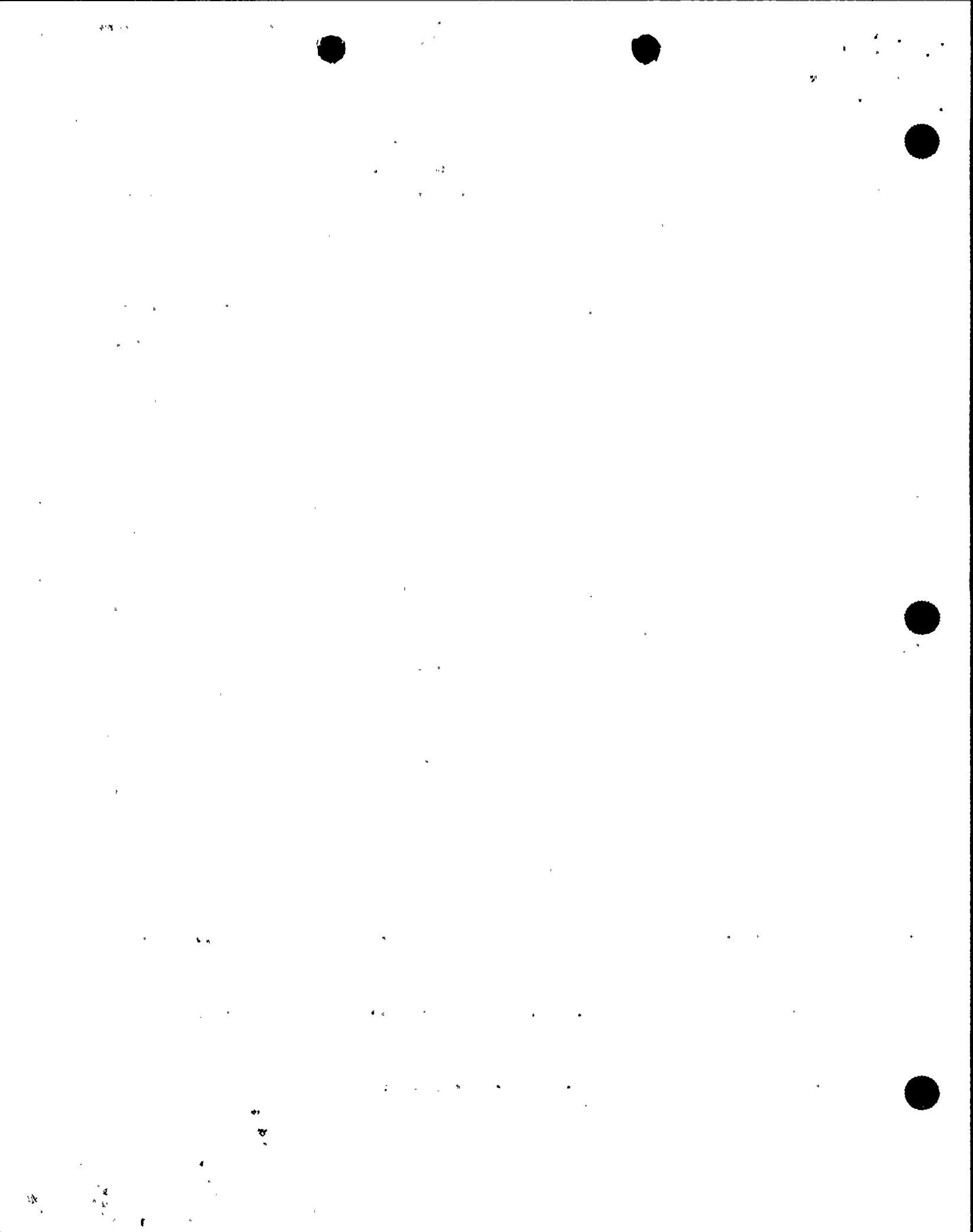
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MONTHLY HIGH								
MONTHLY LOW								

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED								
TIMES EXCEEDED								

REMARKS: (\*) Number of Samples taken during the day.

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YEAR/ MO / DAY  
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STATE CODE  
 06

NPDES PERMIT #  
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F NICKEL ug/l WEEKLY COMP JA/AP/JUL/OCT	EFFLUENT 001D SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F SILVER ug/l WEEKLY COMP JA/AP/JUL/OCT
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JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
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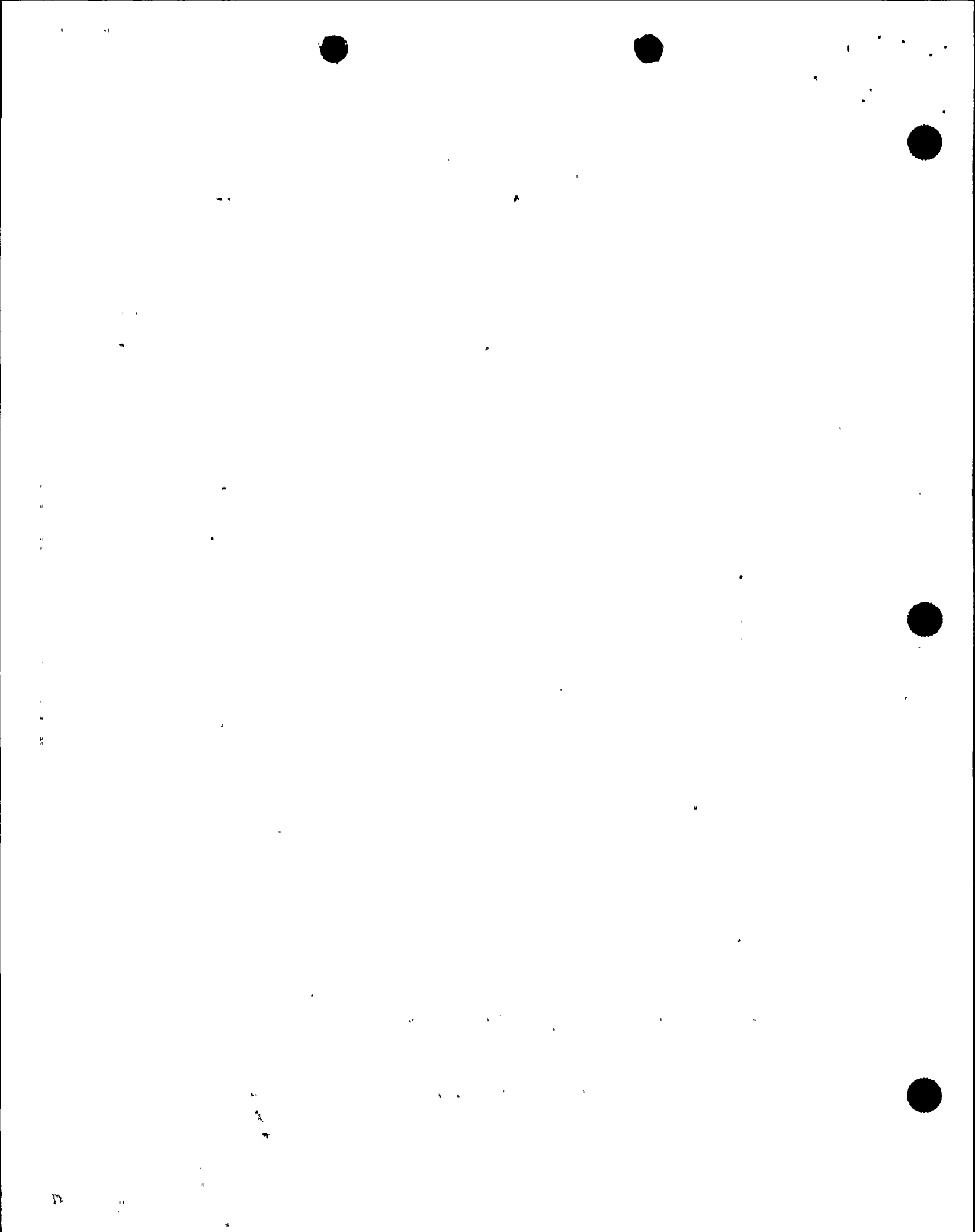
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MONTHLY HIGH																																
MONTHLY LOW																																

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	
TIMES EXCEEDED																																
TIMES EXCEEDED																																

REMARKS: (#) Number of Samples taken during the day.

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 J.R. Krenn 2/17/88





CALIFORNIA, REGIONAL WATER QUALITY  
 CONTROL BOARD  
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F ZINC ug/l WEEKLY COMP
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JANUARY									
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31									

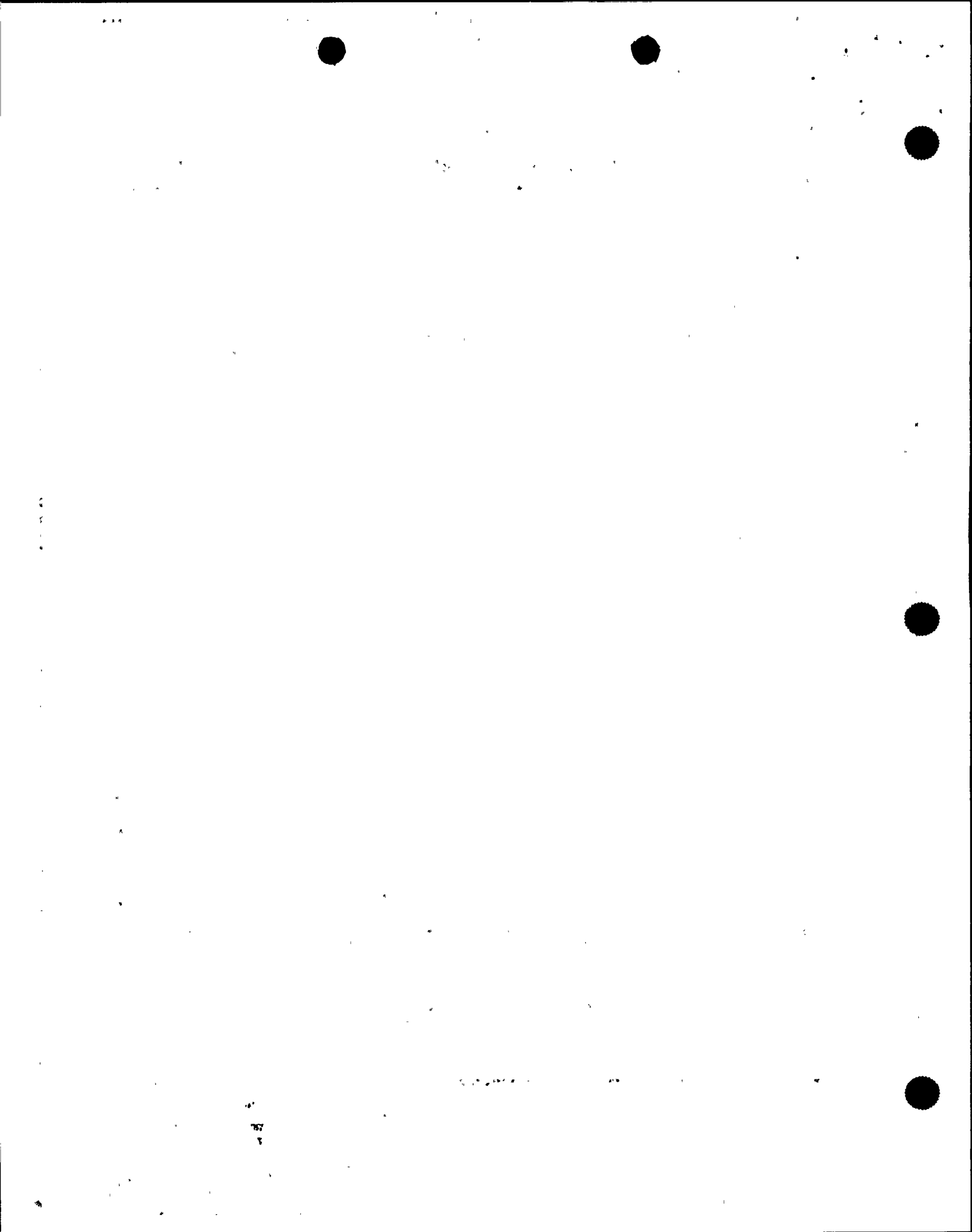
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 MONTHLY HIGH  
 MONTHLY LOW

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED				
TIMES EXCEEDED				

REMARKS: (#) Number of Samples taken during the day. \_\_\_\_\_

PRINCIPAL EXECUTIVE OFFICER  
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M COPPER mg/l 24-HR COMP. METAL CLNG
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JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

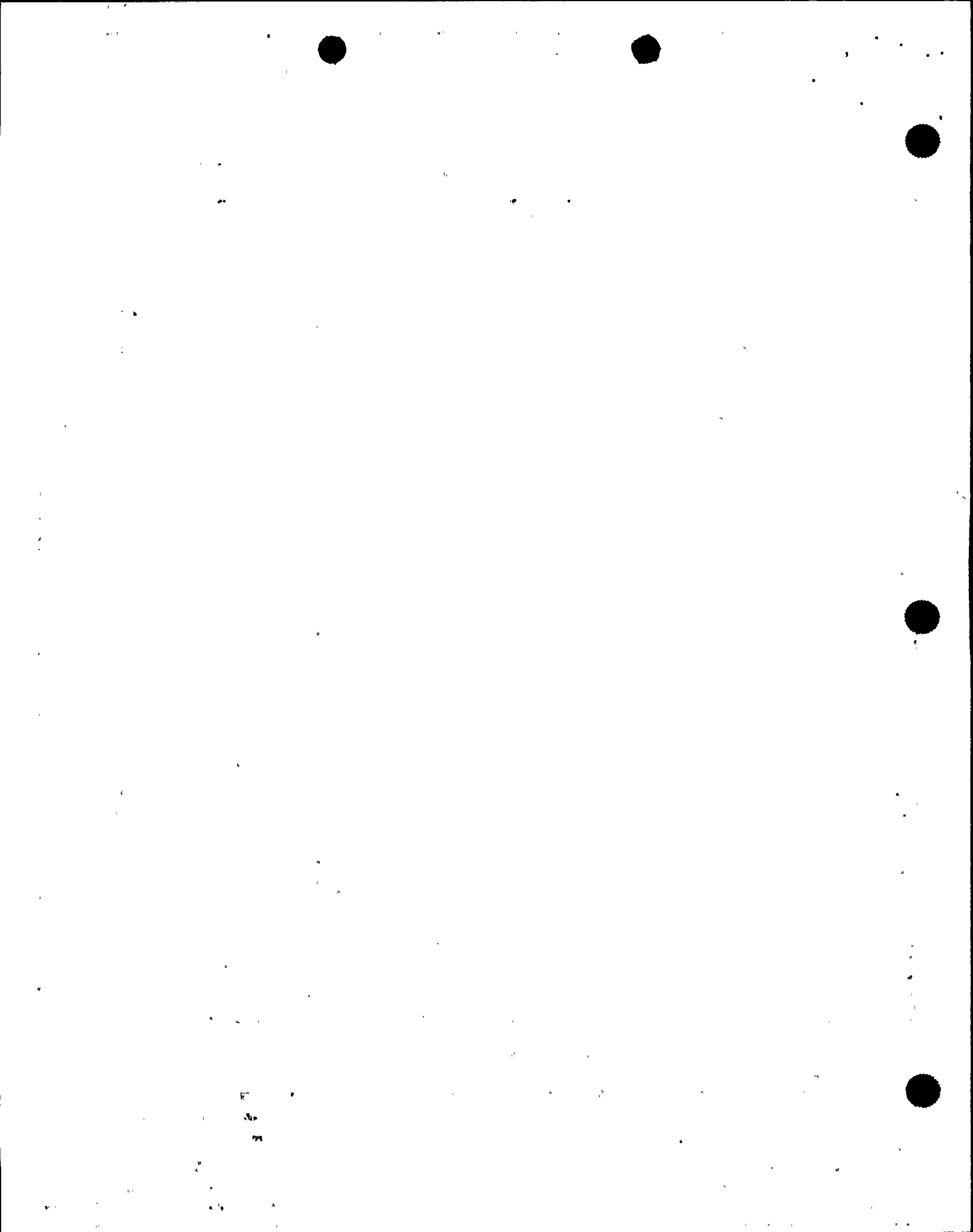
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MONTHLY HIGH					
MONTHLY LOW					

TIMES EXCEEDED	NO AVG 1 =	NO AVG 1 =	NO AVG 1 =	NO AVG 1 =	NO AVG 1 =
TIMES EXCEEDED	D MAX 1 =	D MAX 1 =	D MAX 1 =	D MAX 1 =	D MAX 1 =
TIMES EXCEEDED					

REMARKS: (\$) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

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<i>John R. Krenn</i>	2/17/88



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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M IRON mg/l 24-HR COMP. METAL CLNG
--	--	--	--	--	--

JANUARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

MONTHLY AVG	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE
MONTHLY HIGH					
MONTHLY LOW					

TIMES EXCEEDED	NO AVG 1 =	NO AVG 1 =	NO AVG 1 =	NO AVG 1 =	NO AVG 1 =
TIMES EXCEEDED	D MAX 1 =	D MAX 1 =	D MAX 1 =	D MAX 1 =	D MAX 1 =
TIMES EXCEEDED					

REMARKS: (#) Number of Samples taken during the day. \_\_\_\_\_

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JAMES D. SHIFFER

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<i>J.R. Krenn</i>	2/17/88



APPENDIX 2

Toxicity Bioassay  
January 11, 1988



CONFIDENTIAL



PACIFIC GAS & ELECTRIC COMPANY  
 DEPARTMENT OF ENGINEERING RESEARCH  
 DIABLO CANYON BIOLOGICAL LABORATORY  
 STATIC BIOASSAY REPORT SHEET

ASSAY NO. 147-N

TEST ORGANISM DATA

TEST SPECIES Red abalone

SOURCE Estero Bay Mariculture

AVERAGE LENGTH 16.5MM RANGE 13.5 to 18.3MM

ACCLIMATION TIME 1yr TEMPERATURE ambient

WATER SOURCE Bio Lab Sea water pump

DATE STARTED 11 Jan '88

VOLUME/DEPTH OF TEST SOLUTION 19 L. / 20cm.

TYPE OF AERATION Conde'

TEST SOLUTION DATA

SOURCE OF TEST SOLUTION DCPP

DATE/TIME SAMPLED

11 Jan '88 / 1045

TIME STARTED 1130 HRS.

RENEWAL OF TEST SOLUTION AT        HR. INTERVALS

NUMBER OF ORGANISMS PER CONCENTRATION 20

DILUTION WATER SOURCE Bio Lab Seawater pump

TEST CONCENTRATIONS

	<u>100%</u>	<u>CONTROL</u>	<u>INITIALS</u>
<u>0 HOURS</u>			
TEMP.	<u>12.8°C</u>	<u>12.8°C</u>	<u>VWt</u>
D.O.	<u>8.0</u>	<u>7.6</u>	
PH	<u>7.6</u>	<u>8.1</u>	
SALINITY/HARDNESS			
<u>24 HOURS</u>			
ORGANISMS SURVIVING	<u>20</u>	<u>20</u>	<u>VWt</u>
% SURVIVAL	<u>100%</u>	<u>100%</u>	
TEMP.	<u>12.2°C</u>	<u>12.2°C</u>	
D.O.	<u>8.0</u>	<u>7.2</u>	
PH	<u>7.8</u>	<u>7.7</u>	
<u>48 HOURS</u>			
ORGANISMS SURVIVING	<u>20</u>	<u>20</u>	<u>VWt</u>
% SURVIVAL	<u>100%</u>	<u>100%</u>	
TEMP.	<u>12.4°C</u>	<u>12.4°C</u>	
D.O.	<u>8.0</u>	<u>7.4</u>	
PH	<u>7.7</u>	<u>7.6</u>	
<u>72 HOURS</u>			
ORGANISMS SURVIVING	<u>20</u>	<u>20</u>	<u>VWt</u>
% SURVIVAL	<u>100%</u>	<u>100%</u>	
TEMP.	<u>12.6°C</u>	<u>12.6°C</u>	
D.O.	<u>7.4</u>	<u>7.2</u>	
PH	<u>7.7</u>	<u>7.6</u>	
<u>96 HOURS</u>			
ORGANISMS SURVIVING	<u>20</u>	<u>20</u>	<u>VWt</u>
% SURVIVAL	<u>100%</u>	<u>100%</u>	
TEMP.	<u>12.7°C</u>	<u>12.7°C</u>	
D.O.	<u>7.0</u>	<u>7.4</u>	
PH	<u>7.6</u>	<u>7.7</u>	
SALINITY/HARDNESS			

TU: No Mortalities

TESTED BY James C. Kelly

Reviewed By David Schrens



February 19, 1988



Mr. William Leonard, Executive Officer  
California Regional Water Quality Control Board  
Central Coast Region  
1102-A Laurel Lane  
San Luis Obispo, California 93401

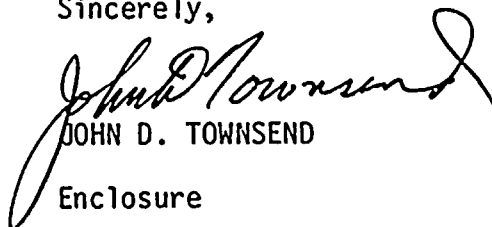
Dear Mr. Leonard:

Discharge Monitoring and Reporting Program  
Diablo Canyon Power Plant

The monthly report for January 1988 of the Diablo Canyon Power Plant Discharge Monitoring Program, in accordance with Order 85-101, NPDES No. CA0003751 is enclosed.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. The results of the influent and effluent monitoring presented are the observed results of the measurements and analyses required by the monitoring program, and is neither an assertion of the adequacy of any instrument reading or any analytical result, nor an endorsement of the appropriateness of any analytical or measurement procedure. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

  
JOHN D. TOWNSEND

Enclosure

JDT:af

TEAG  
11



Handwritten marks and characters in the top right corner.



Small handwritten marks and characters in the bottom left corner.

bcc: DWBehrens  
JVBoots  
VCFurtado  
JEGardner  
BSLew/ERKendle  
RWLorenz/KMGodfrey  
DDMalone  
MNNorem  
RJPeters/DJWilliamson  
JASexton  
JDShiffer  
DASetson  
RCThornberry/JTWells  
JWarrick  
RMS



cc: California Department of Fish and Game  
Marine Resources Region  
245 W. Broadway, Suite 350  
Long Beach, California 90802

Regional Administrator, Region IX  
Environmental Protection Agency  
215 Fremont Street  
San Francisco, California 94105

Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region 5  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

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Washington, DC 20555

Chief, Marine Resource Branch  
California Department of Fish and Game  
Resources Building  
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Sacramento, California 95814

