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

LEONARD, W.                 California, State of

SUBJECT: "NPDES Discharge Monitoring Rept for First Quarter 1992 for  
 Diablo Canyon Power Plant." W/920420 ltr.

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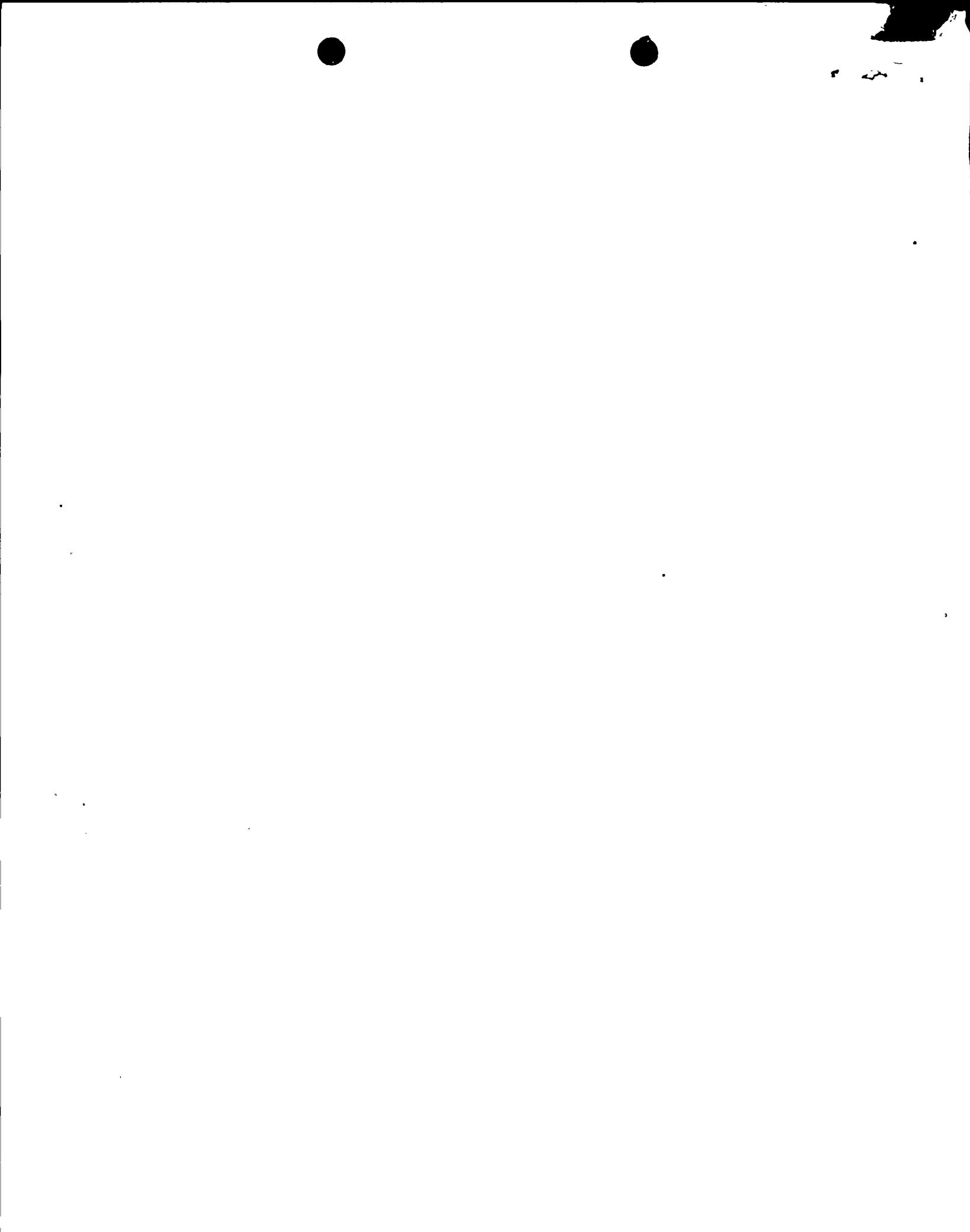
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	ACRS	6	6	NRR/DET/ESGB 8D	1	1
	OC/LFMB	1	0	OGC/HDS1	1	0
	REG-FILE- 01	1	1	RGN5 DRSS/RPB	1	1
EXTERNAL:	EG&G SIMPSON, F	2	2	NRC PDR	1	1
	NSIC	1	1			

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Pacific Gas and Electric Company

Diablo Canyon Power Plant  
P.O. Box 56  
Avila Beach, CA 93424  
805/541-7616

John D. Townsend  
Vice President—Diablo Canyon Operations  
and Plant Manager

April 20, 1992



Mr. William Leonard, Executive Officer  
California Regional Water Quality Control Board  
Central Coast Region  
81 Higuera Street, Suite 200  
San Luis Obispo, California 93401-5414

Dear Mr. Leonard:

Discharge Monitoring and Reporting Program  
Diablo Canyon Power Plant -- NPDES No. CA0003751

The report for the first quarter of 1992 of the Diablo Canyon Power Plant Discharge Monitoring Program, in accordance with Order 90-09 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.

If you have further questions, please contact Mr. Thomas C. Wilson at (805) 545-4439.

A handwritten signature in black ink, appearing to read "John D. Townsend".

JDT:ksb

Enclosure

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PDR ADOCK 05000275  
R PDR

CDD1

100-20878-1

**PR**

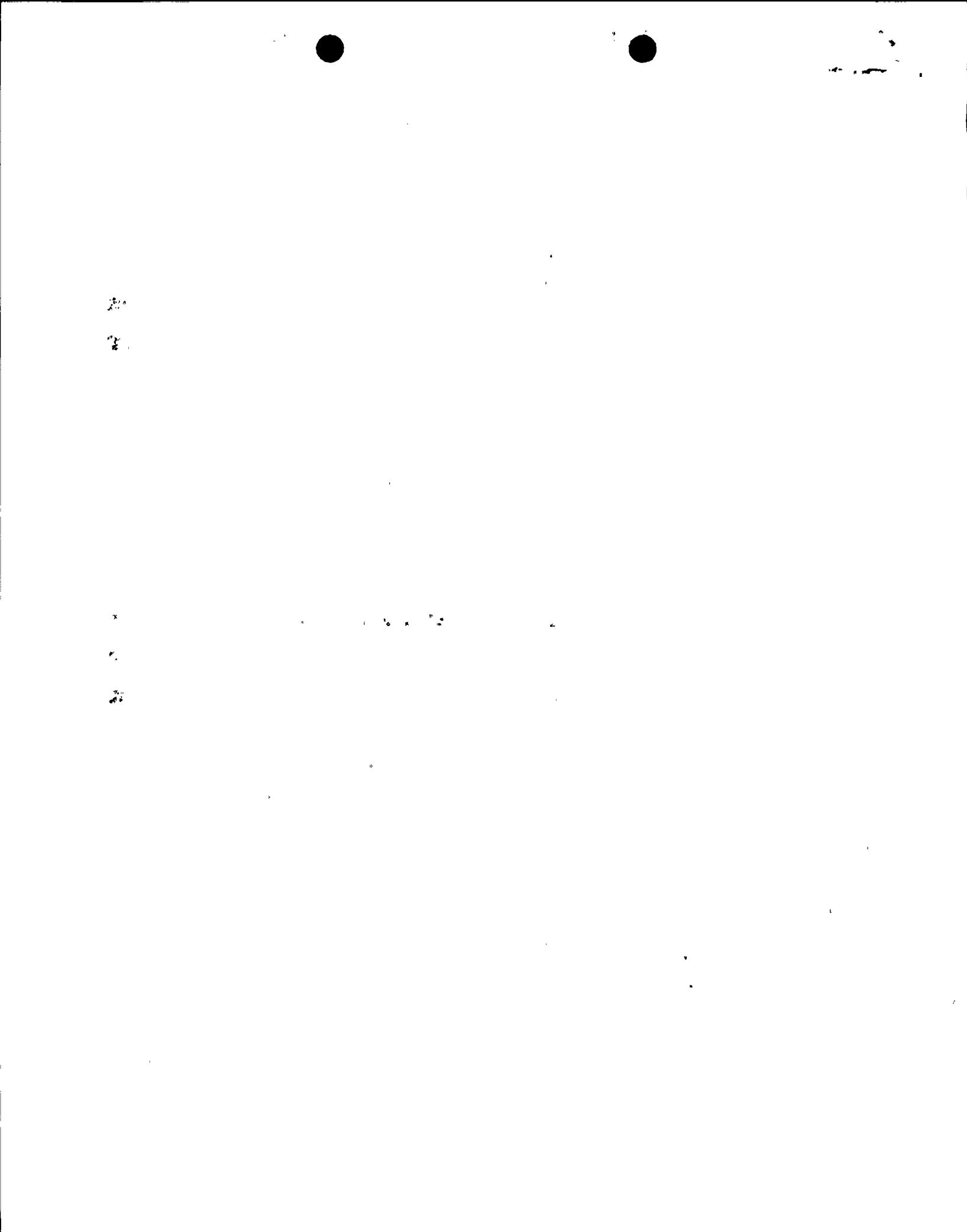
cc: Chief, Environmental Services Division  
California Department of Fish and Game  
Resources Building  
1416 Ninth Street  
Sacramento, California 95814

Regional Administrator, Region 9  
U. S. Environmental Protection Agency  
75 Hawthorne Street  
San Francisco, California 94105  
Attention: Carey Houk (W-5-3)

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

Document Control Desk  
U. S. Nuclear Regulatory Commission  
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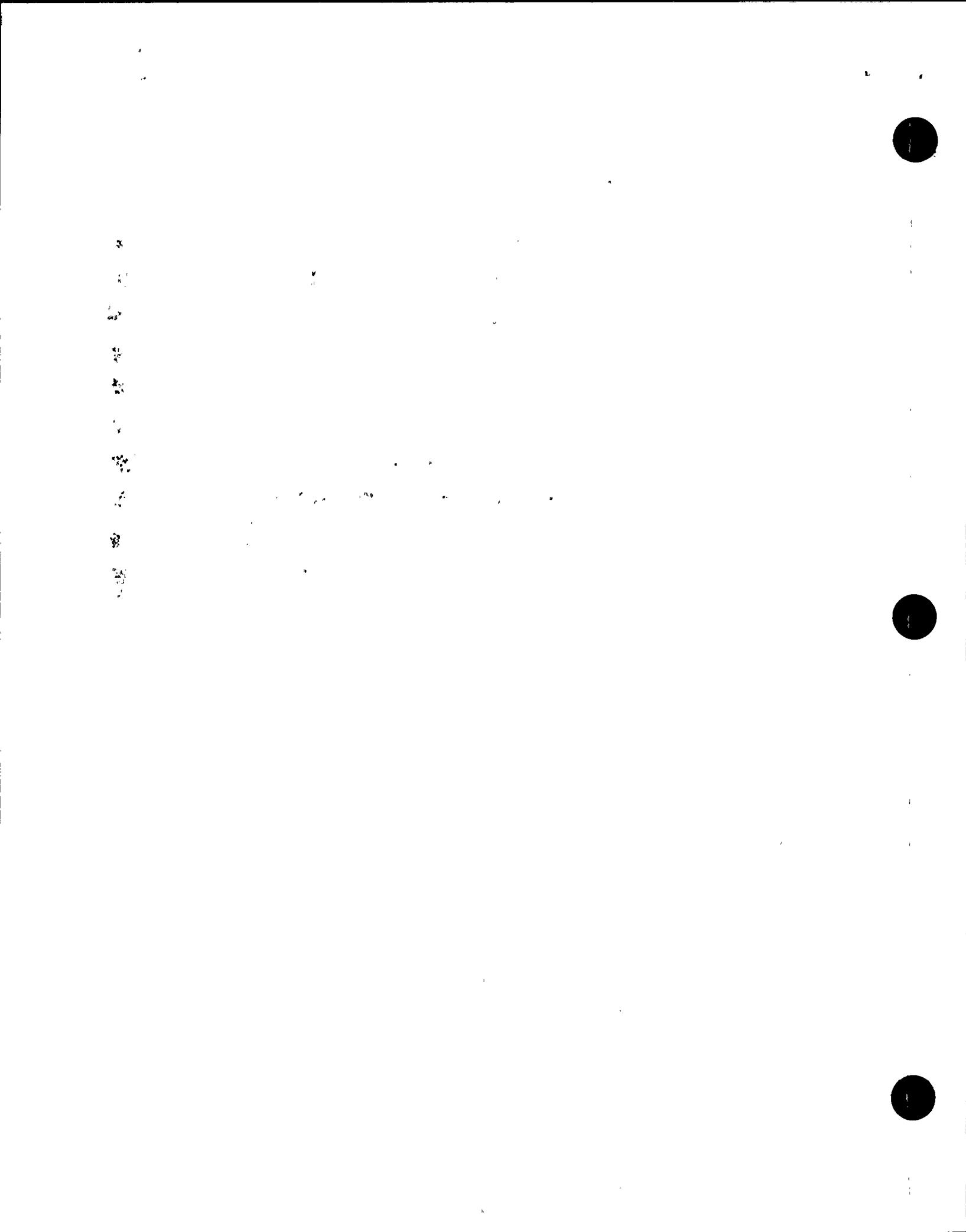
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California Department of Fish and Game  
Resources Building  
1416 Ninth Street  
Sacramento, California 95814



**PACIFIC GAS AND ELECTRIC COMPANY**  
**NUCLEAR POWER GENERATION**

**REPORT ON**  
**DISCHARGE MONITORING AT**  
**DIABLO CANYON POWER PLANT**  
**FIRST QUARTER OF 1992**

...9204290166



## **TABLE OF CONTENTS**

19  
61  
58  
54  
52  
50  
48  
46  
44  
42  
40  
38  
36  
34  
32  
30  
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## OVERVIEW

- A. During the first quarter of 1992, discharges occurred from Discharge Paths 001 (once through cooling water), 001B, 001D, 001E, 001F, 001G, 001H, 001J, 001L, 001M, 001N, 001P, 002 through 016. No discharges occurred from Discharge Paths 001I, 001K, and 017.
- B. Routine chlorination of the Circulating Water Pumps (Discharge 001) occurred throughout the first quarter of 1992. As described in PG&E Letter No. DCL-91-270, submitted to the Regional Board Staff on November 4, 1991, some modifications were made to the chlorination system and were initially tested during the first quarter of 1992. The modifications made and tested include installation of a dechlorination system and a continuous chlorination system used for the Auxiliary Saltwater System.

### 1. Dechlorination System

Initial testing of the dechlorination system began on January 3, 1992.

The dechlorination system injects a 20 - 40% sodium bisulfite ( $\text{NaHSO}_3$ ) solution into the condenser outlet water box concurrent with chlorination of a Main Circulating Water Pump (CWP) at the intake structure. The bisulfite readily reduces any remaining residual oxidant introduced at the intake structure. The injection rate of the bisulfite solution is minimized in order to avoid using more than is necessary to reduce the hypochlorite present.

### 2. Continuous Chlorination for the Auxiliary Saltwater System (ASW), Discharge 001B

Continuous chlorination of the ASW system is performed in order to control biological macrofouling of system piping. Testing of the system was initiated on January 2, 1992. The ASW system includes four pumps, each with a capacity of approximately 11,000 gpm. Normally, only two ASW pumps are operating at any time (one for each Unit). Continuous chlorination of the two operating pumps may be performed simultaneously as long as the four CWPs, each with a capacity of approximately 400,000 gpm, are also operating.

The target total residual chlorine (TRC) concentration for each ASW pump is approximately 1 ppm. At this concentration, TRC is not detectable in Discharge 001, downstream of the point where the ASW and CWP streams mix prior to entering Diablo Cove, as measured by an Orion 1770 Chlorine Monitor (lowest meter scale division is 1 ppb TRC).



C. On February 24, 1992, during the 30 minute chlorinations of CWP 1-2 and 2-1, the TRC concentration measured at Discharge 001 exceeded the limit of 75 ppb. Described below is the sequence of events and the actions taken to avoid future occurrences.

1. CWP 1-2

During the chlorination of CWP 1-2, two grab samples from Discharge 001 were collected and analyzed using an amperometric titrator. The TRC results for the two samples were 120 and 100 ppb. The limit for a 30 minute chlorination is 75 ppb TRC. These values were nearly double the concentrations observed during chlorination of CWP 1-1, an hour before. The same sodium hypochlorite injection rate setting of 2.3 gpm was used for both chlorination cycles.

An inspection of the chlorine injection system revealed that a pressure control valve (PCV) was malfunctioning. The PCV is designed to maintain the discharge pressure of the sodium hypochlorite pump at 20 psig. Sodium hypochlorite crystals had formed in the valve internals. During idle periods, sodium hypochlorite is left in the piping, which allows the crystals to form, causing the valve to stick.

The hypochlorite pump discharge line enters an eductor that carries the hypochlorite solution to the CWP intake. At times, a vacuum may exist in piping between the hypochlorite pump and the eductor. If the PCV does not maintain the proper pump discharge pressure, the sodium hypochlorite flowrate can vary for the same pump speed setting, which appears to have occurred on February 24.

The chlorine injection system has been modified to include a water flush at the end of injection cycle to remove residual sodium hypochlorite. This action should prevent crystals from forming in the PCV in the future. In addition, a high flowrate pump trip setting has been included in the system to stop the injection of hypochlorite if the flowrate increases unexpectedly to the predetermined maximum injection rate.

2. CWP 2-1

During the chlorination of CWP 2-1 on February 24, 1992, the TRC concentration reached approximately 500 ppb, for approximately five minutes. The limit for a 30 minute chlorination is 75 ppb. The high TRC concentration was caused by a misaligned valve.

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When the chlorination cycle was initiated, a valve between the sodium hypochlorite pumps and the CWP suction was inadvertently left in the closed position. After approximately 20 minutes, when no TRC increases were observed in Discharge 001, the operator inspected the system valve alignment, discovered the closed valve, and opened it. With the valve closed and the sodium hypochlorite pump running, sodium hypochlorite concentrated in a section of piping normally diluted with the flow of seawater. When the valve was opened, a relatively large volume of hypochlorite was injected in a short period of time, thus causing the high TRC observed.

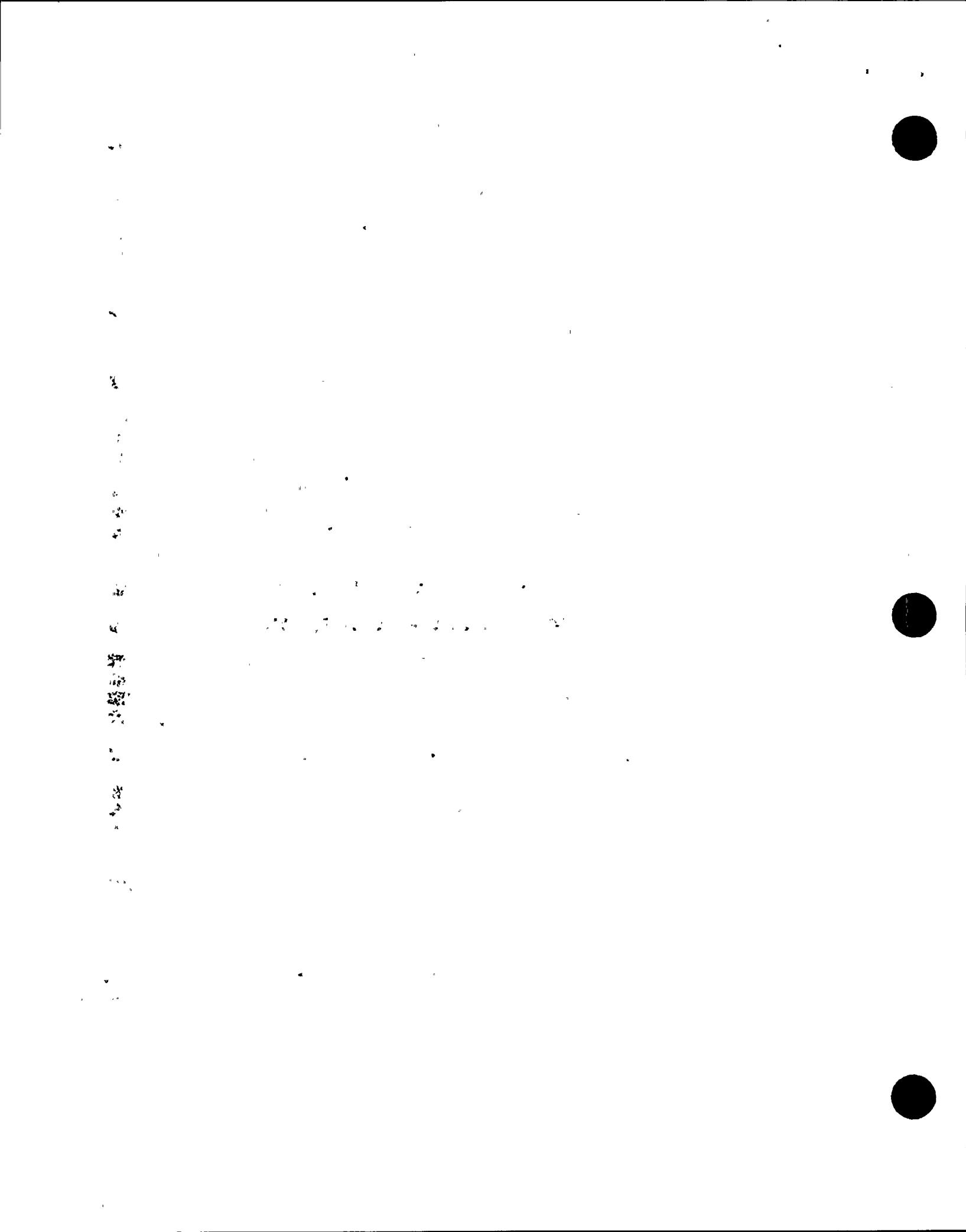
The root cause for this incident was personnel error. The procedure used to perform the chlorination contained the necessary instructions to prevent such a scenario from occurring. A summary of the event was reviewed with all of the operating personnel to reinforce the requirement that the procedures be followed completely as written.

- D. 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, February, and March plant influent and effluent monitoring are reported in Appendices 1, 2, and 3, respectively.
2. Results from one acute bioassay on water sampled from discharge 001 performed January 13, 1992, are included in Appendix 4.
3. Listed below are the detection limits used for the analyses performed during the quarter. The limits are based upon published values, contract laboratory reports, or Diablo Canyon's analytical experience. Diablo Canyon submitted its application for laboratory accreditation to the State of California on October 11, 1991. As part of the accreditation process, Diablo Canyon has proceduralized a method to formally determine method detection limits based upon the guidelines in 40CFR136.



<u>Parameter</u>	<u>Detection Limit (mg/l)</u>
Oil and Grease	3
Total Res Chlorine	0.020
Suspended Solids	1
Settleable Solids	0.01 ml/l
Ammonia (N)	0.04
Metals (chelation extraction)	0.001
Chromium      Copper	
Nickel      Zinc	

4. Each of the Appendices 1 through 3 contain additional laboratory results located after the normal Q2 forms that were used to develop "average" values reported on the Q2 forms. This information is provided to ensure that all analytical data is reported "uncensored."

Normally, the additional data will include results for analyses performed several times in one day, such as Total Residual Chlorine, for which an average value is reported on the Q2.

#### B. Monitoring of Receiving Waters

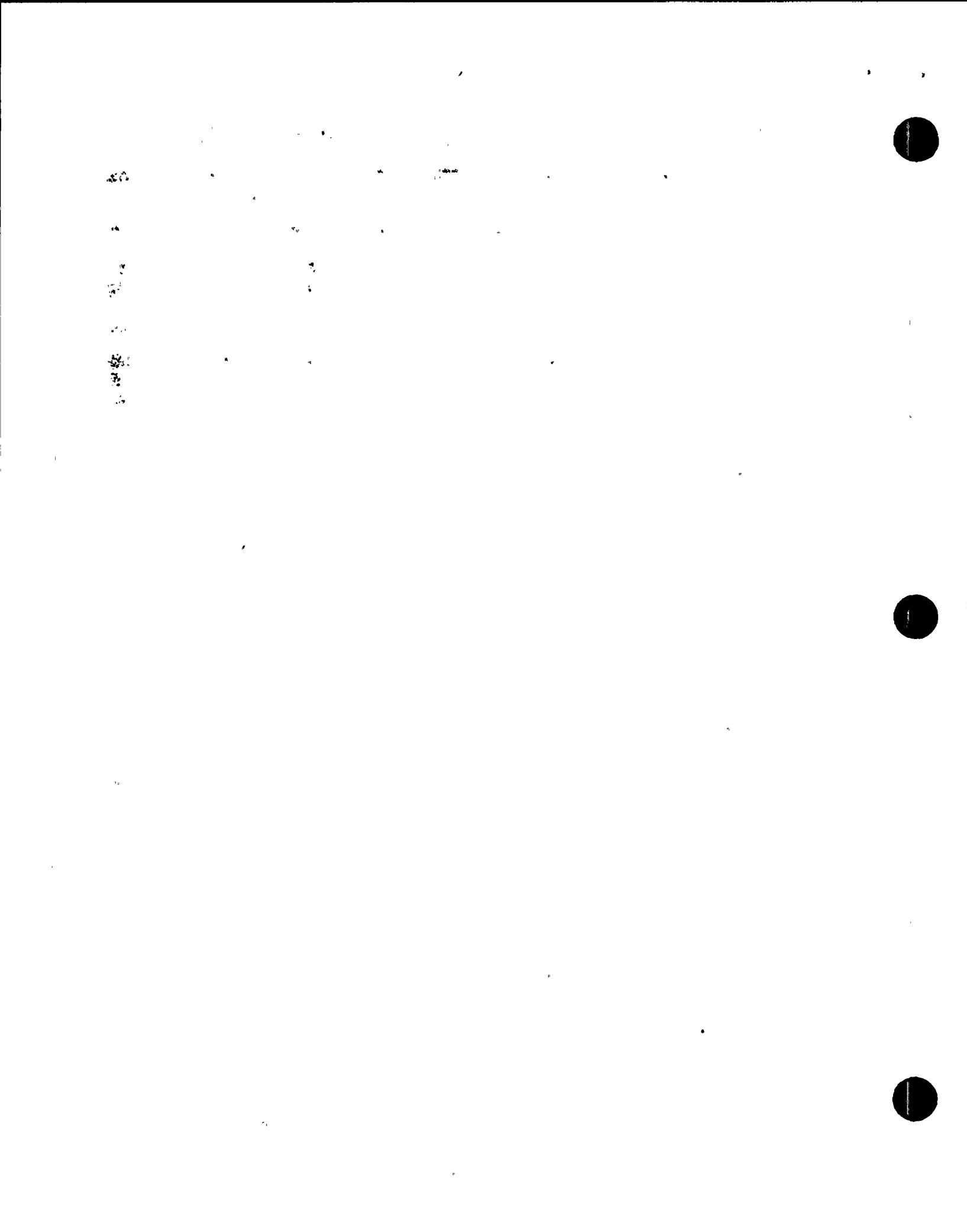
##### 1. Ecological Studies at Diablo Canyon

Ecological studies conducted during the fourth quarter in the vicinity of Diablo Cove, referred to as the Diablo Canyon Thermal Effects Monitoring Program (TEMP), are summarized in the following table:

<u>Subtask</u>	<u>Month Completed</u>
Intertidal Algal Scrapes	January
Intertidal Horizontal Bands	February
Intertidal Vertical Bands	January
Subtidal Benthic Stations	March
Subtidal Fish Observations	March
Intertidal Black Abalone	March

##### 2. Sediment Analysis

Annual sediment samples are collected in September. Results will be reported in the 1992 third quarter report.



3. Stratified Water Temperature

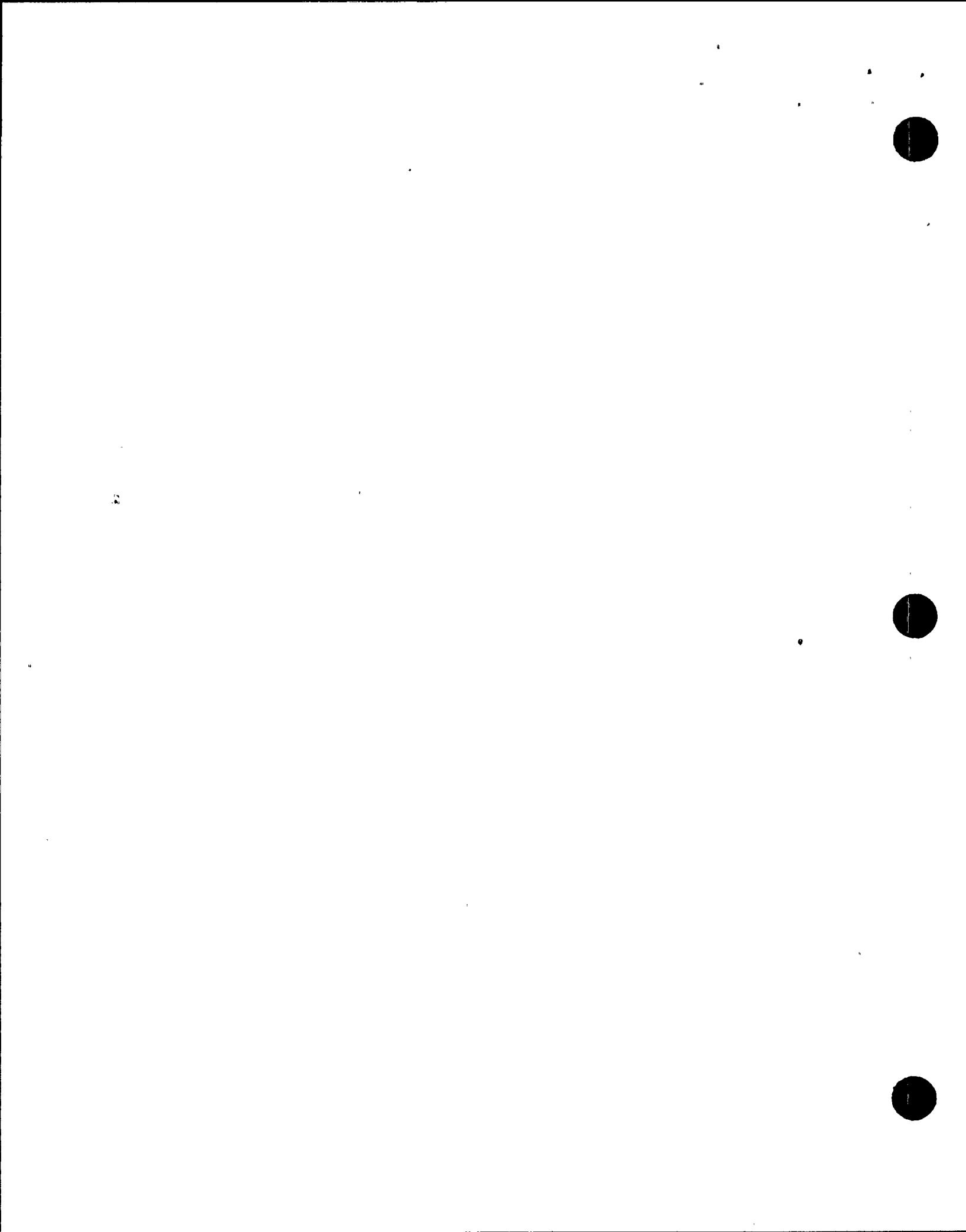
Stratified water temperatures measured on February 19, 1992 are reported in Appendix 5.

4. Dissolved Oxygen and pH of Receiving Waters

Results of Dissolved Oxygen and pH sampling conducted on February 19, 1992 are reported in Appendix 6.

5. In Situ Bioassay

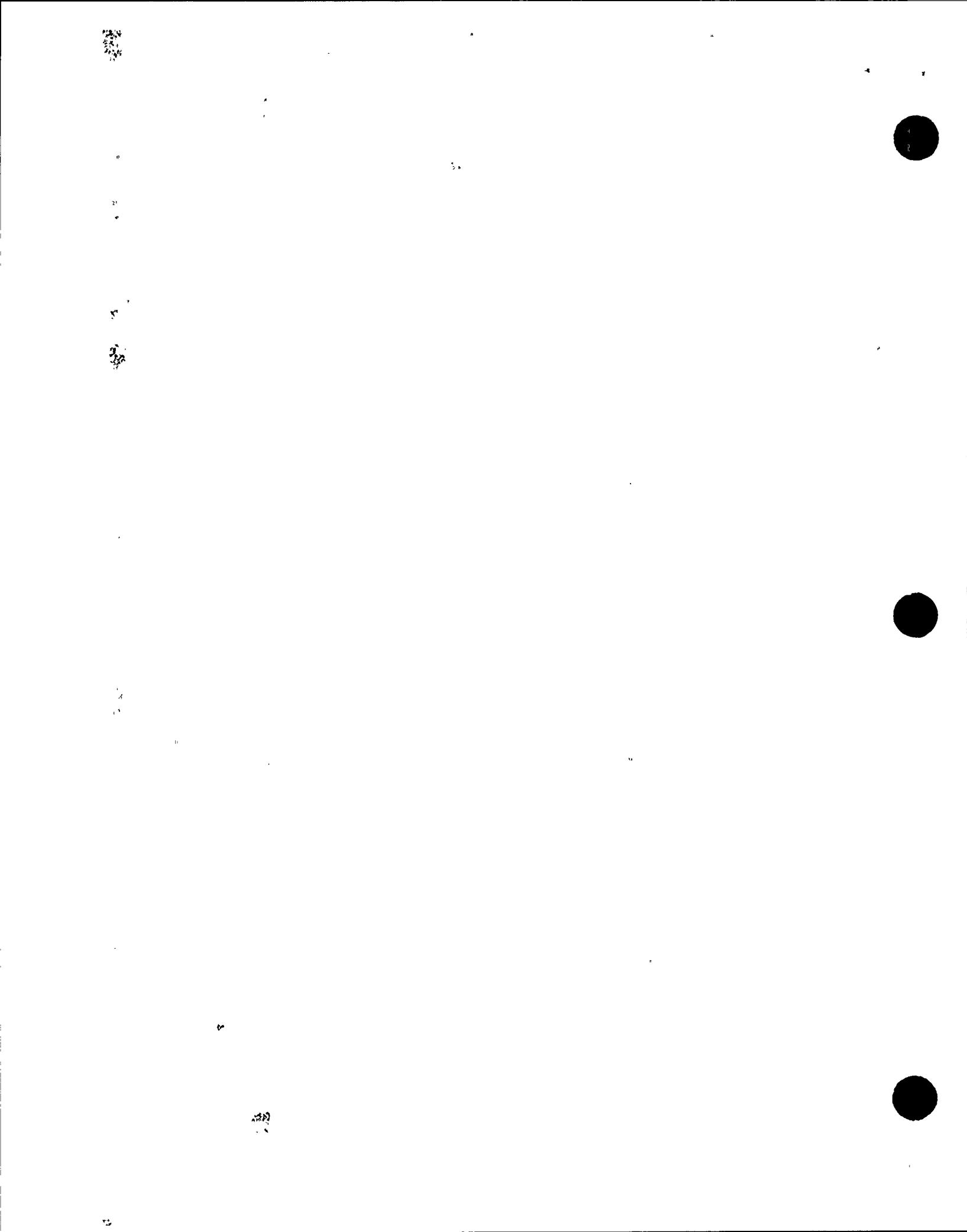
Results of the Mussel Watch program will be reported to the Board directly from the California Department of Fish and Game in their periodic report for this program.



**APPENDIX 1**

**Influent and Effluent Monitoring**

**January 1992**



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
VIS 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 (M) 1

FACILITY I.D.		YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NFDES PERMIT #
3 402003001		BEGINNING 92 / 01 / 01		ENDING 92 / 01 / 31		06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	DELTA TEMP TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLOW MGD RECORDED DAILY	INFLUENT pH GRAB MONTHLY	EFFLUENT 001 pH GRAB MONTHLY (\$\$)	EFFLUENT 001F pH GRAB MONTHLY (\$\$)	EFFLUENT 002 pH GRAB MONTHLY
JANUARY								
1	56.8	75.6	18.8	2492				
2	56.8	75.5	18.7	2452				
3	56.4	75.3	18.9	2555				
4	56.5	75.3	18.8	2557				
5	56.7	75.4	18.7	2557				
6	56.9	75.6	18.7	2550				
7	56.8	75.4	18.6	2550				
8	56.4	74.8	18.4	2552				
9	56.5	75.1	18.6	2500				
10	56.4	75.0	18.6	2559				
11	56.3	74.6	18.5	2557				
12	56.1	74.6	18.5	2550				
13	56.0	74.5	18.5	2552				
14	56.3	74.9	18.6	2555				
15	56.3	74.8	18.5	2550				
16	56.2	74.8	18.6	2557				
17	56.2	74.7	18.5	2555				
18	56.3	74.6	18.3	2554				
19	56.3	73.6	17.3	2554				
20	56.5	74.5	18.0	2557				
21	56.4	74.9	18.5	2552				
22	56.2	74.9	18.7	2557				
23	56.1	74.7	18.6	2512				
24	56.3	74.8	18.5	2552				
25	56.2	74.7	18.5	2555				
26	56.2	74.4	18.2	2550				
27	56.3	75.0	18.7	2554				
28	56.4	75.2	18.8	2555				
29	57.0	75.9	18.9	2557				
30	57.2	76.2	19.0	2550				
31	57.3	76.3	19.0	2554				
MONTHLY AVG	56.5	75.0	18.6	2547				7.0
MONTHLY HIGH	57.3	76.3	19.0	2559				7.6
MONTHLY LOW	56.0	73.8	17.3	2492				7.3
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MAX 22 = 0	MAX 2760 = 0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED			(11)					
TIMES EXCEEDED								

MARKS: (1) Number of Samples taken during the day. (11) Except During Deaeration.

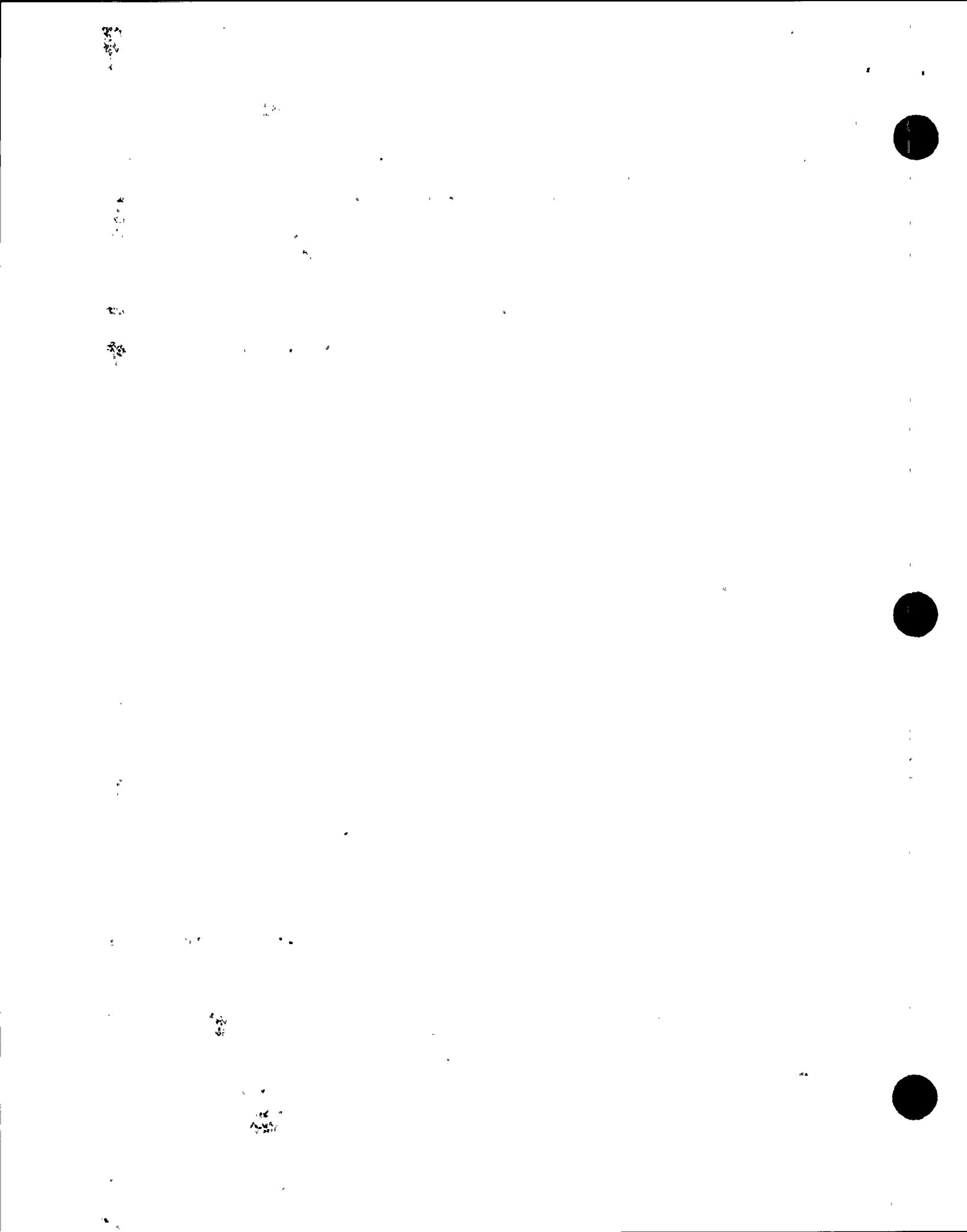
(111) Daily when discharging chemical cleaning wastes from discharges 001B, F, I, L and/or M.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

*John R. Kneeney* 4/6/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
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 (M) 2

FACILITY I.D.		YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #	
3 402003001		BEGINNING 92 / 01 / 01		ENDING 92 / 01 / 31		06	CA0003751	

STATION ANALYSIS UNITS	EFFLUENT 003 pH	EFFLUENT 004 pH	EFFLUENT 001N OIL & GREASE	EFFLUENT 001P OIL & GREASE	EFFLUENT 003 OIL & GREASE	EFFLUENT 001F OIL & GREASE	EFFLUENT 001 T CHLOR RES	EFFLUENT 001 CHLORINE USED
SMPL TYPE	GRAB	GRAB	COMPOSITE	GRAB	GRAB	GRAB	GRAB	RECORDED
FREQ.	MONTHLY	MONTHLY	WEEKLY	WEEKLY (1)	WEEKLY (1)	MONTHLY	2 per CYCLE	MONTHLY

JANUARY								
1							6 21	331
2							6 <20	331
3							6 <20	331
4							6 <20	331
5							6 <20	331
6							6 <20	331
7							6 <20	331
8							6 <20	331
9	7.9	8.0	5				6 <20	331
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30							6 <20	331
31							6 <20	331

MONTHLY AVG	6	ND DISCHARGE	ND DISCHARGE	28	322
MONTHLY HIGH	6			75	367
MONTHLY LOW	5			<20	248

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 15 = 0	I MAX 20G = 0	NO LIMIT			
TIMES EXCEEDED			D MAX 20 = 0					
TIMES EXCEEDED								

MARKS: (1) Number of Samples taken during the day.  
(1) When 001N is discharging to 001P. (1) When 001P is discharging to 003.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

JDR Kremeg 4/6/92

20

20

20

20

20

20

20

CALIFORNIA REGIONAL WATER QUALITY  
 CONTROL BOARD  
 CENTRAL COAST REGION  
 1109A LAUREL LANE  
 LIVERMORE, CA 94550

DISCHARGE SELF MONITORING REPORT

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 PAGE (M) 3

FACILITY I.D.

3 402003003

YEAR/ MO / DAY

BEGINNING 92 / 01 / 01

YEAR/ MO /DAY

ENDING 92 / 01 / 31

STATE CODE

06

NPDES PERMIT #

CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFF 001N=>003	EFF 001N=>003	EFFLUENT 001D			EFFLUENT 001F								
	TOTL COLIFORM	FECAL COLIFORM	SUSPENDED SOLIDS			SUSPENDED SOLIDS								
	MPN/100mL	MPN/100mL	mg/l	1st FLTR	mg/l	2nd FLTR	mg/l	NET	mg/l	1st FLTR	mg/l	2nd FLTR	mg/l	NET
	GRAB	GRAB		GRAB		GRAB				GRAB		GRAB		
	4 TIMES/WEEK	4 TIMES/WEEK		MONTHLY		MONTHLY				MONTHLY		MONTHLY		
JANUARY														
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MONTHLY AVE	NO DISCHARGE	NO DISCHARGE												
MONTHLY HIGH														
MONTHLY LOW														
TIMES EXCEEDED	10% SMPLS>1K	MEAN>200=0	NO LIMIT	NO LIMIT	NO AVG 30= 0	NO LIMIT	NO LIMIT	NO AVG 30 =0						
TIMES EXCEEDED	=G	90% SMPLS>400			D MAX 100 =0									
TIMES EXCEEDED	I MAX >10K=0	=0												

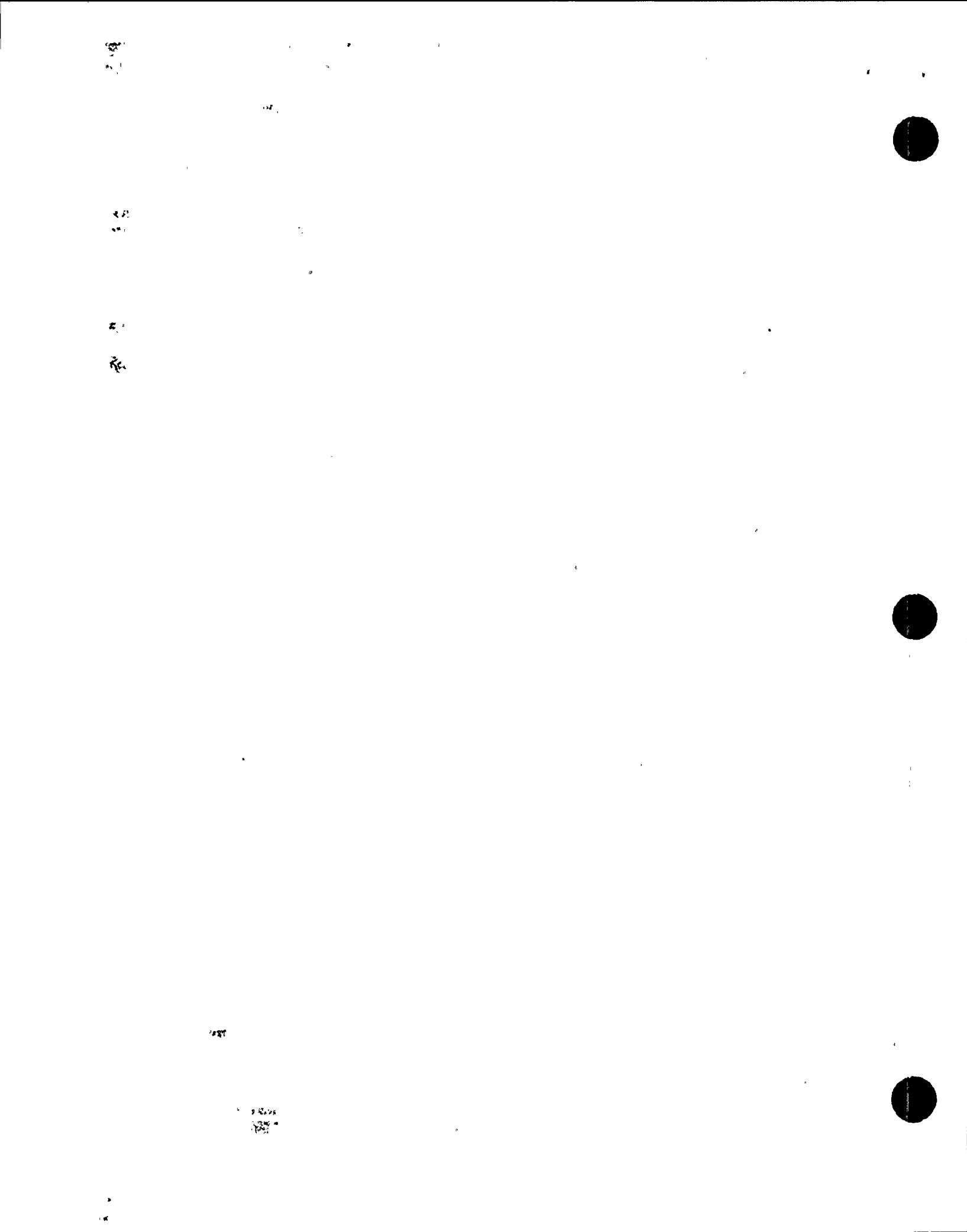
REMARKS: (\*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

*Joe R. Kremers* 7/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
100 LAUREL LANE  
MORO BAY, CALIFORNIA 93442

DISCHARGE SELF MONITORING REPORT

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PAGE (M) 4

FACILITY I.D.	YEAR / MO / DAY	YEAR / MO / DAY	STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING 92 / 01 / 01	ENDING 92 / 01 / 31	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001G			EFFLUENT 001H						
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY				
JANUARY										
1										
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31										
MONTHLY AVG										
MONTHLY HIGH										
MONTHLY LOW										
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 = 0	NO LIMIT	NO LIMIT	MD AVG 30 = 0				
TIMES EXCEEDED			D MAX 100 = 0			D MAX 100 = 0				
EXCEEDED										

REMARKS: (1) Number of Samples taken during the day.

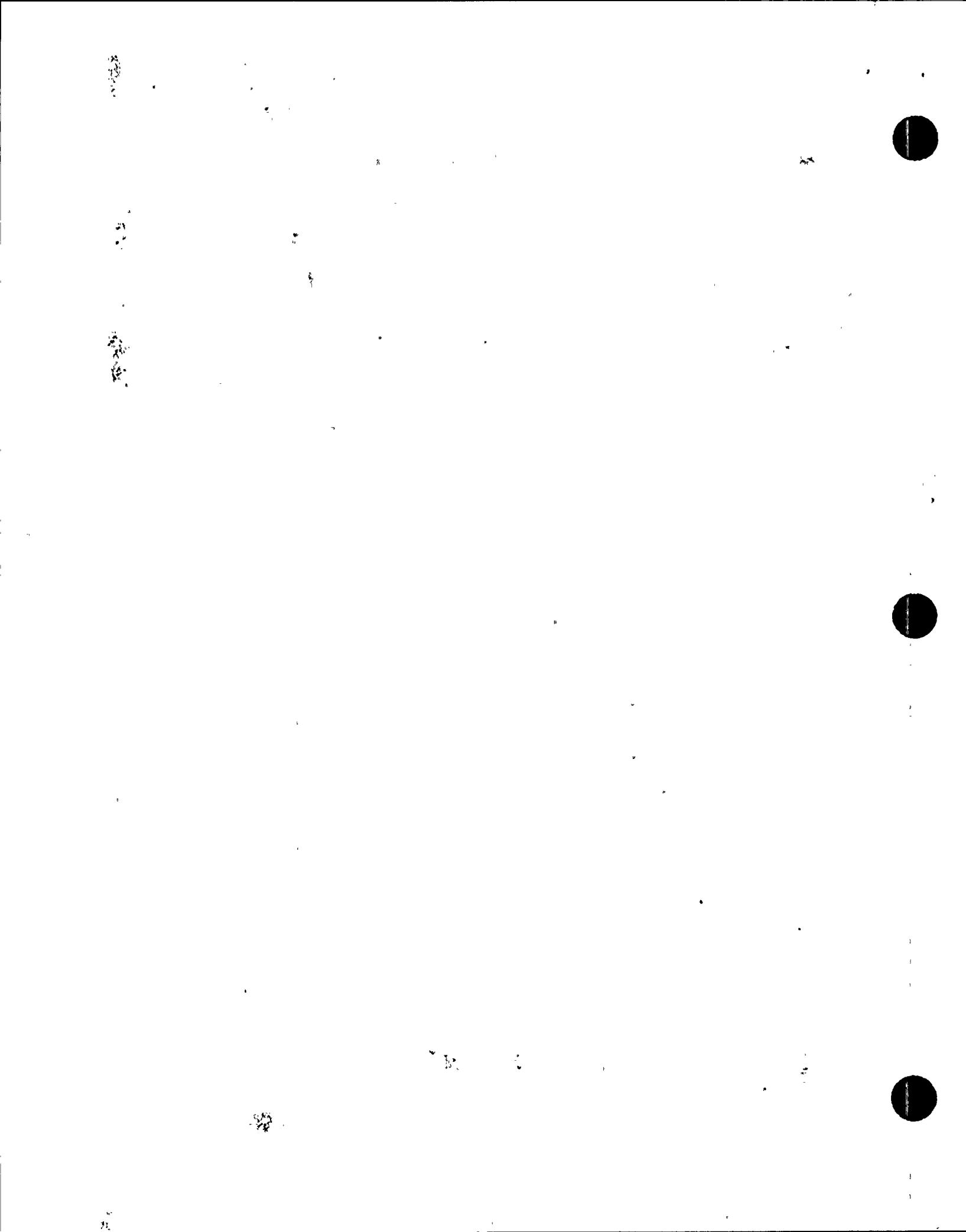
PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT / DATE

John Kremey

7/6/92



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PAGE (M) 5

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3 402003001	BEGINNING 92 / 01 / 01	ENDING 92 / 01 / 31	06	CA0003751

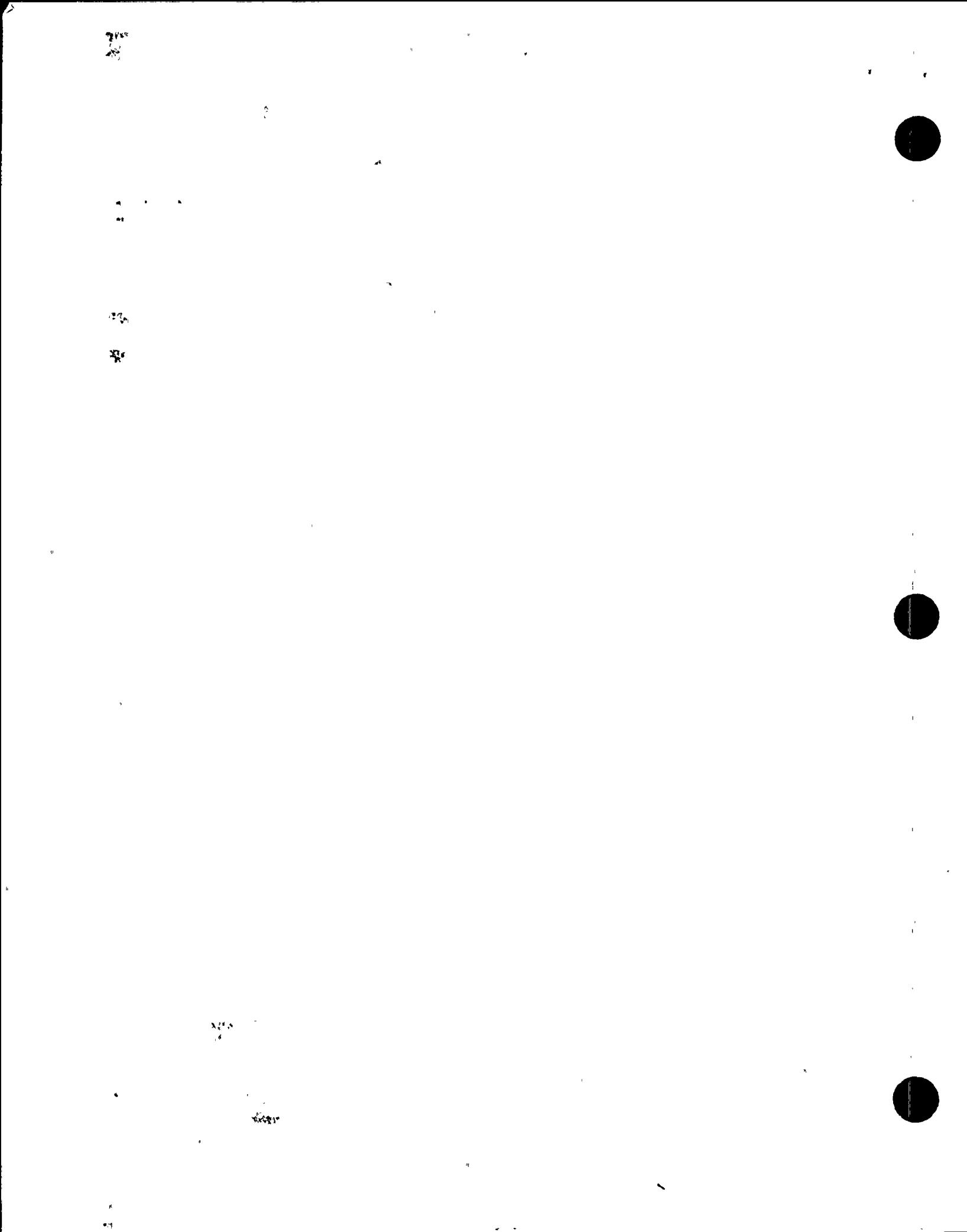
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I			EFFLUENT 001J		
	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR	SUSPENDED SOLIDS mg/l NET	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR	SUSPENDED SOLIDS mg/l NET
JANUARY	\$	\$	\$	\$	\$	\$
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
MONTHLY AVE	NO DISCHARGE			NO DISCHARGE		
MONTHLY HIGH						
MONTHLY LOW						
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 = 0	NO LIMIT	NO LIMIT	MD AVG 30 = 0
(1)			D MAX 100 = 0			D MAX 100 = 0
(2)						
(3)						

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF AUTHORIZED AGENT

DATE



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
MUS 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 (N) 6

FACILITY I.D. YEAR/ MO / DAY STATE CODE NPDES PERMIT #  
3 402003001 BEGINNING 92 / 01 / 01 ENDING 92 / 01 / 31 06 CA0003751

STATION ANALYSIS UNITS SHPL TYPE FREQ.	EFFLUENT 001K			EFFLUENT 001L		
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY
JANUARY	#/1 1st FLTR	#/1 2nd FLTR	#/1 NET	#/1 1st FLTR	#/1 2nd FLTR	#/1 NET
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	2<1
MONTHLY AVG	NO DISCHARGE			<1		
MONTHLY HIGH				<1		
MONTHLY LOW				<1		
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 =0	NO LIMIT	NO LIMIT	MD AVG 30 =0
TIMES EXCEEDED			D MAX 100 =0			D MAX 100 =0
TIMES EXCEEDED						

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

PRINCIPAL EXECUTIVE OFFICER

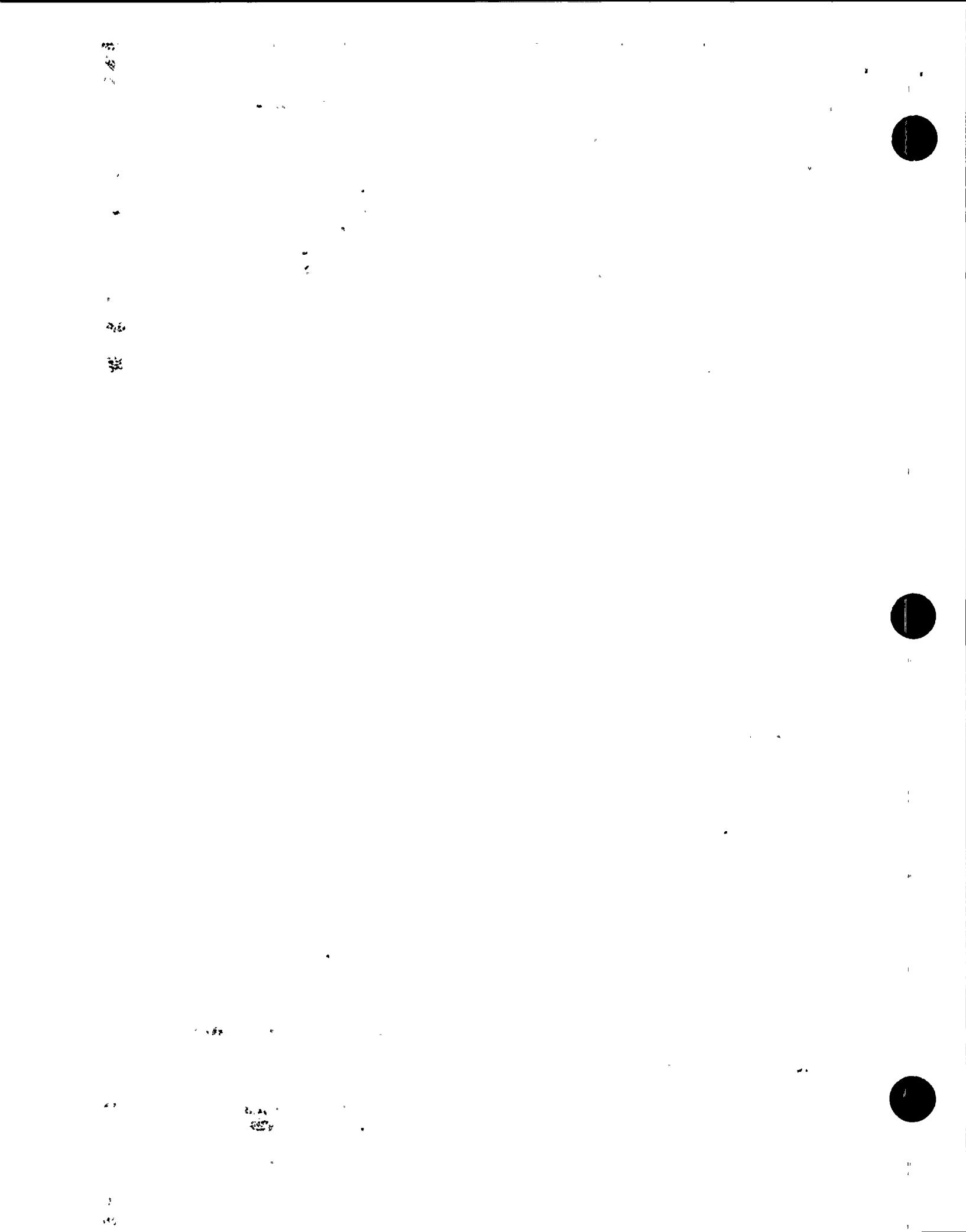
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

*Jack R. Knecht*

4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
11620 LAUREL LANE  
VIS BISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 7

FACILITY I.D.		YEAR / MD / DAY		YEAR / MD / DAY		STATE CODE	NPDES PERMIT #																										
3 402003001		BEGINNING	92 / 01 / 01	ENDING	92 / 01 / 31	06	CA0003751																										
STATION ANALYSIS UNITS SMPL TYPE FREQ.	-----EFFLUENT 001M----- SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR mg/l NET GRAB MONTHLY			-----EFFLUENT 001N----- SUSPENDED SLDs mg/l 1st FLTR mg/l 2nd FLTR mg/l NET COMPOSITE WEEKLY			-----EFFLUENT 001P----- SUSPENDED SOLIDS 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	
MONTHLY AVE						10																											
MONTHLY HIGH						13																											
MONTHLY LOW						(5																											
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 =0	MD AVG 60 =0	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			D MAX 100 =0																														
EXCEEDED																																	
REMARKS: (1) Number of samples taken during the day.																																	

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*Joseph Frenney* 4/16/92

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CALIFORNIA REGIONAL WATER QUALITY  
 CONTROL BOARD  
 CENTRAL COAST REGION  
 1102A LAUREL LANE  
 LIS DBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
 DIABLO CANYON NUCLEAR POWER PLANT  
 PO BOX 56  
 AVILA BEACH, CALIF 93424  
 PAGE (M) 8

FACILITY I.D.	YEAR/ MD / DAY	YEAR/ MD /DAY	STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING 92 / 01 / 01	ENDING 92 / 01 / 31	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 002			EFFLUENT 003			
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY	
JANUARY							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22	11	9	2	3			
23							
24							
25							
26							
27							
28							
29							
30							
31							
MONTHLY AVG			3				
MONTHLY HIGH			4				
MONTHLY LOW			1				
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 =0	NO LIMIT	NO LIMIT	MD AVG 30 =0	
TIMES EXCEEDED			I MAX 100 =0			I MAX 100 =0	
EXCEEDED							

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

[Signature] 4/16/92

2  
2  
2

CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
MONTEREY, CA 93701

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 9

FACILITY I.D. YEAR/ MD / DAY STATE CODE NPDES PERMIT #  
3 402003001 BEGINNING 92 / 01 / 01 ENDING 92 / 01 / 31 06 CA0003751

STATION ANALYSIS UNITS	-----EFFLUENT 003----- SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR mg/l NET GRAB			EFFLUENT 001N	EFFLUENT 001	EFFLUENT 001	EFFLUENT 001	EFFLUENT 001
SMPL TYPE FREQ.				SETTL SOLIDS m1/l	T CHROMIUM ug/l	COPPER ug/l	NICKEL ug/l	ZINC ug/l
JANUARY				GRAB	GRAB	GRAB	GRAB	GRAB
1					<0.1			
2					<0.1			
3					<0.1			
4					<0.1			
5					<0.1			
6					<0.1			
7					<0.1			
8					<0.1			
9					<0.1			
10					<0.1			
11					<0.1			
12					<0.1			
13					<0.1			
14					<0.1			
15					<0.1			
16					<0.1			
17					<0.1			
18					<0.1			
19					<0.1			
20					<0.1			
21					<0.1			
22					<0.1			
23					<0.1			
24					<0.1			
25					<0.1			
26					<0.1			
27					<0.1			
28					<0.1			
29					<0.1			
30					<0.1			
31					<0.1			
MONTHLY AVG				NO DISCHARGE	<0.1			
MONTHLY HIGH					<0.1			
MONTHLY LOW					<0.1			
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	MD AVG 30 =0	MD AVG 1.0 =0	6M-MEAN 10 =0	6M-MEAN 10 =0	6M-MEAN 30 =0
TIMES EXCEEDED				D MAX 100 =0	D MAX 3.0 =0	D MAX 40 =0	D MAX 50 =0	D MAX 100 =0
LESS EXCEEDED						I MAX 100 =0	I MAX 140 =0	I MAX 260 =0
							I MAX 950 =0	

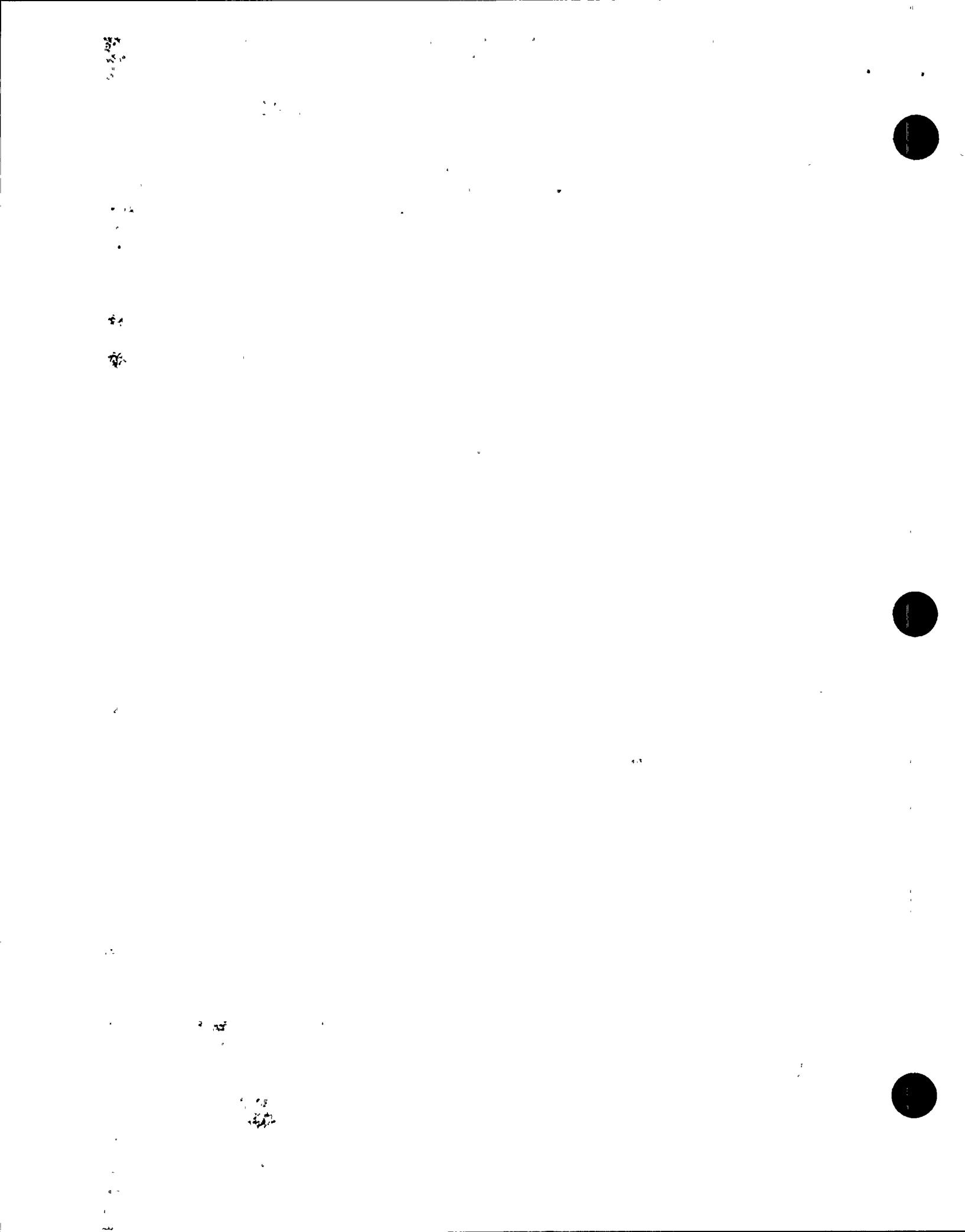
REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*James D. Shiffer* 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
MORO BAY, CA 93442

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (6) 1

FACILITY I.D.  
3 402003001

YEAR / MO / DAY  
BEGINNING 92 / 01 / 01

YEAR / MO / DAY  
ENDING 92 / 01 / 31

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	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 AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001D OIL & GREASE ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001E OIL & GREASE ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001H OIL & GREASE ug/l GRAB JA/AP/JUL/OCT
--	---	---	---	--	--	--	--	--

JANUARY	1	1	1	1	1	1	1	1
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22	(1)	1	(1)	(0.06)	(0.06)	(3)		
23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVE  
MONTHLY HIGH  
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT NO LIMIT NO LIMIT 6M-MEAN 3060 =0 NO AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0  
TIMES EXCEEDED D MAX 12240 =0 D MAX 20 =0 D MAX 20 =0 D MAX 20 =0  
TIMES EXCEEDED I MAX 36600 =0

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

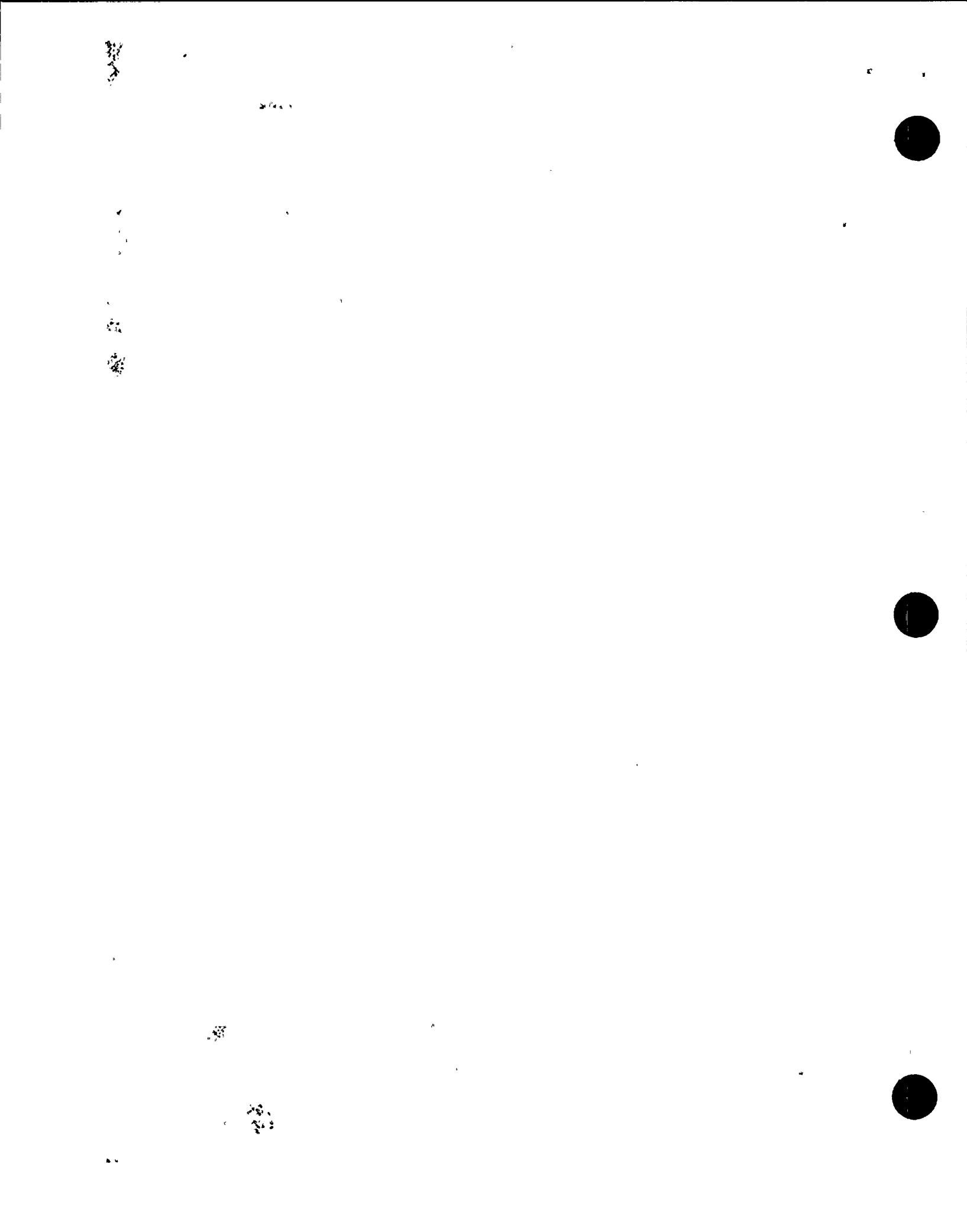
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

Jack Kremey

DATE

1/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAUREL LANE  
VIS BISPD, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (D) 2

FACILITY I.D.  
J 402003001

YEAR/ MO / DAY  
BEGINNING 92 / 01 / 01

YEAR/ MO /DAY  
ENDING 92 / 01 / 31

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	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	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
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	<3			5	
MONTHLY HIGH				<3			6	
MONTHLY LOW				<3			<3	
TIMES EXCEEDED	MD AVG 15 = 0	MD AVG 15 = 0	MD AVG 15 = 0					
TIMES EXCEEDED	D MAX 20 = 0	D MAX 26 = 0	D MAX 20 = 0					
EXCEEDED								

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

PRINCIPAL EXECUTIVE OFFICER

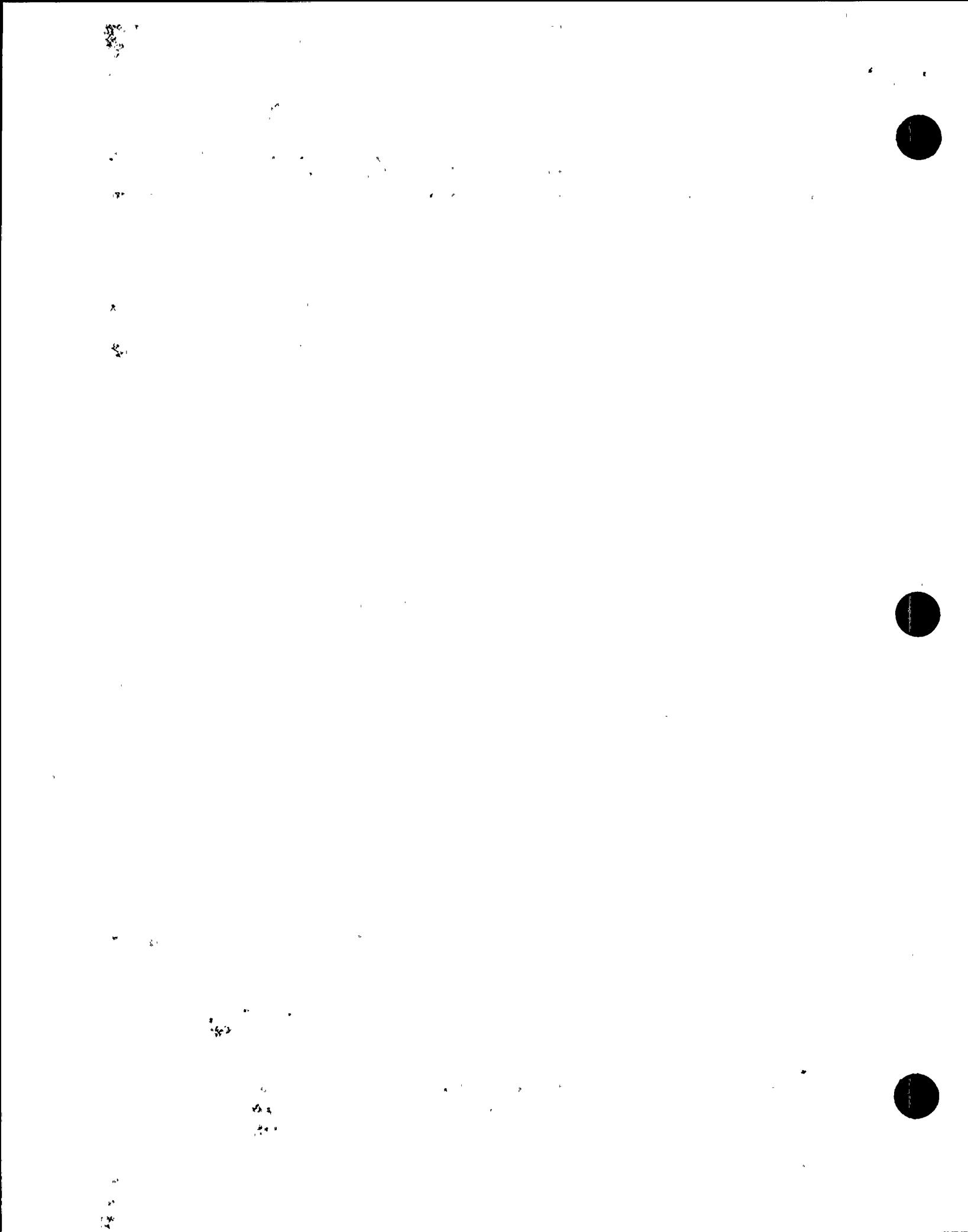
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kuehne

7/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LOUIS 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) 3

FACILITY I.D.		YEAR/ MD / DAY		YEAR/ MD /DAY		STATE CODE	NPDES PERMIT #
3 402003001		BEGINNING 92 / 01 / 01		ENDING 92 / 01 / 31		06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 004 OIL & GREASE	EFFLUENT 001 TOX CONCEN TU	EFFLUENT 001D CADMIUM ug/l	EFFLUENT 001H CADMIUM ug/l	EFFLUENT 001L CADMIUM ug/l	EFFLUENT 001F CADMIUM ug/l
JANUARY	#/1	GRAB	GRAB	BTRLY COMP	BTRLY COMP	1 WEEK COMP
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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22						
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24						
25						
26						
27						
28						
29						
30						
31						
MONTHLY AVG				86	<12	
MONTHLY HIGH				116	<12	
MONTHLY LOW				53	<12	
TIMES EXCEEDED	MD AVG 15 =0	6M-MEAN 0.26	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED	ID MAX 20 =0		=0			
TIMES EXCEEDED						

(1)K5: (1) Number of Samples taken during the day. (11) No Mortalities.

PRINCIPAL EXECUTIVE OFFICER

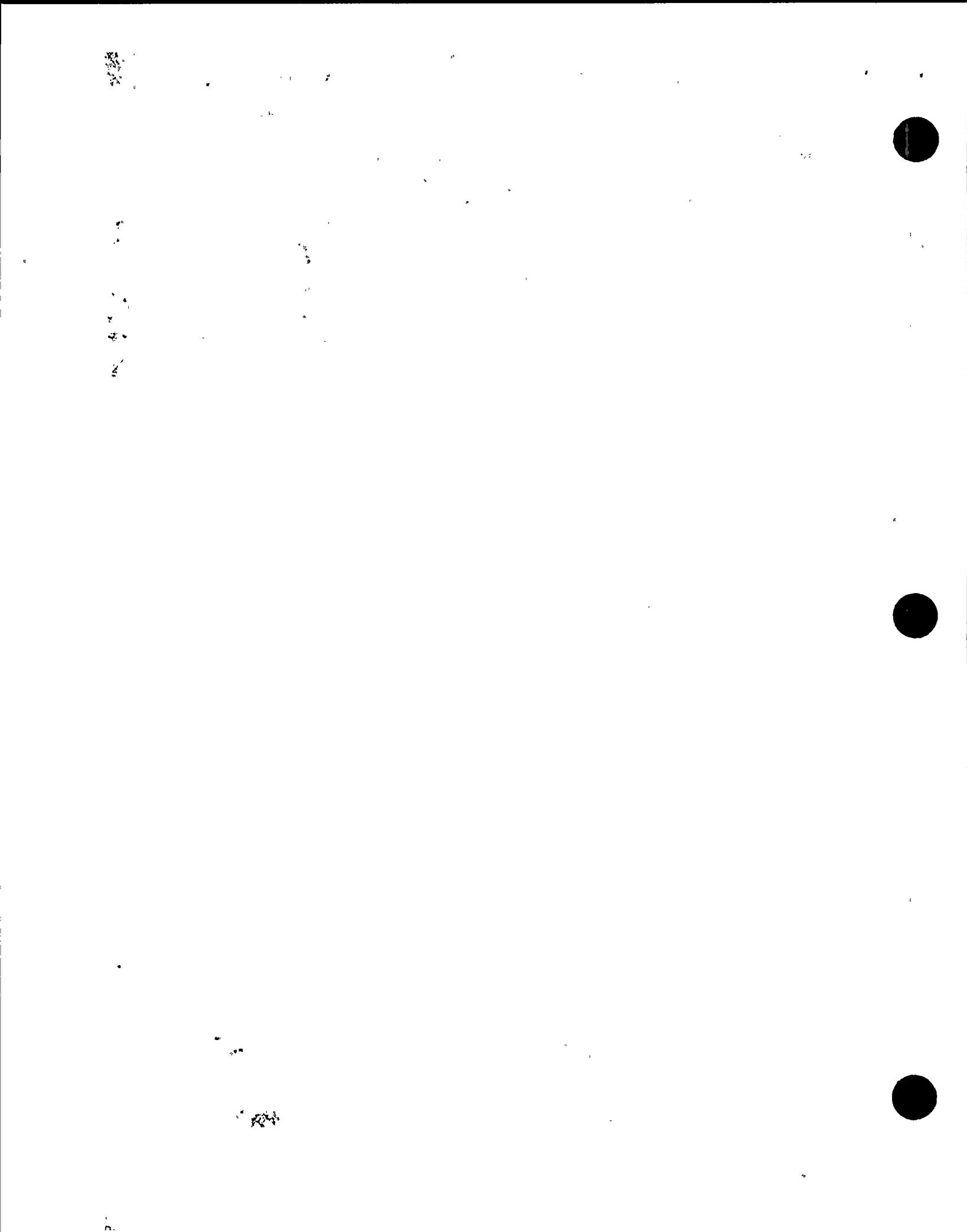
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Jack Kennedy

1/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
11 LAUREL LANE  
SLOBOISBPD, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (8) 4

FACILITY I.D.  
3 402003001

YEAR / MO / DAY  
BEGINNING 92 / 01 / 01

YEAR / MO / DAY  
ENDING 92 / 01 / 31

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D CHROMIUM ug/l	EFFLUENT 001H T CHROMIUM ug/l	EFFLUENT 001L T CHROMIUM ug/l	EFFLUENT 001F T CHROMIUM ug/l	EFFLUENT 001D COPPER ug/l	EFFLUENT 001H COPPER ug/l	EFFLUENT 001L COPPER ug/l	EFFLUENT 001F COPPER ug/l
JANUARY	\$	\$	\$	\$	\$	\$	\$	\$
1	<15	2	450	2<15	<15	58	2	419
2							2	36
3								<10
4								
5								
6								
7								
8								
9								
10								
11								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG		450	<15			419	36	
MONTHLY HIGH		507	<15			548	36	
MONTHLY LOW		392	<15			289	36	
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
AS EXCEEDED								
EXCEEDED								

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

PRINCIPAL EXECUTIVE OFFICER

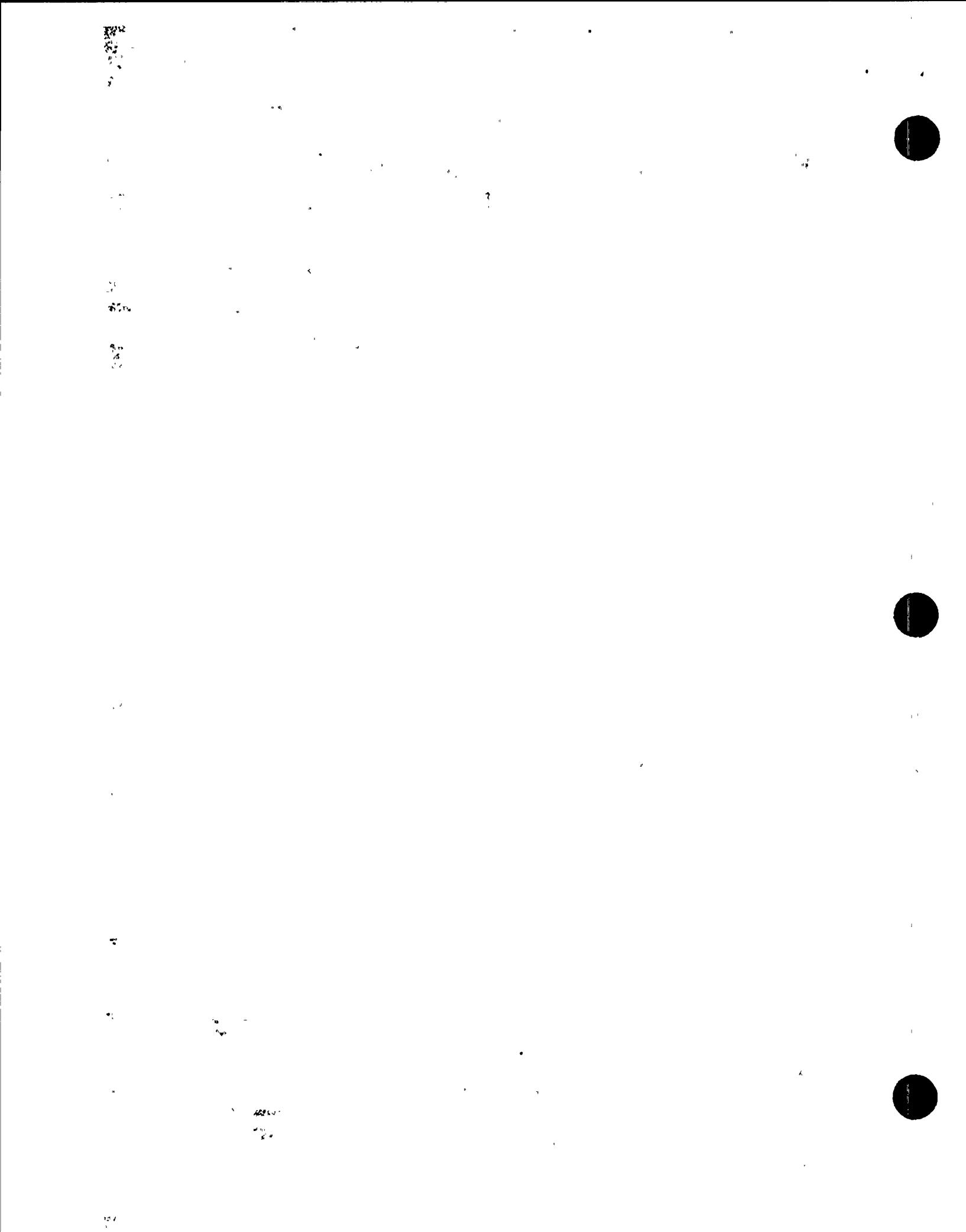
JAMES R. SCHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Jack Kneeney

7/16



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
DVIS 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 (Q) 5

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 92 / 01 / 01

YEAR/ MO /DAY  
ENDING 92 / 01 / 31

STATE CODE  
06

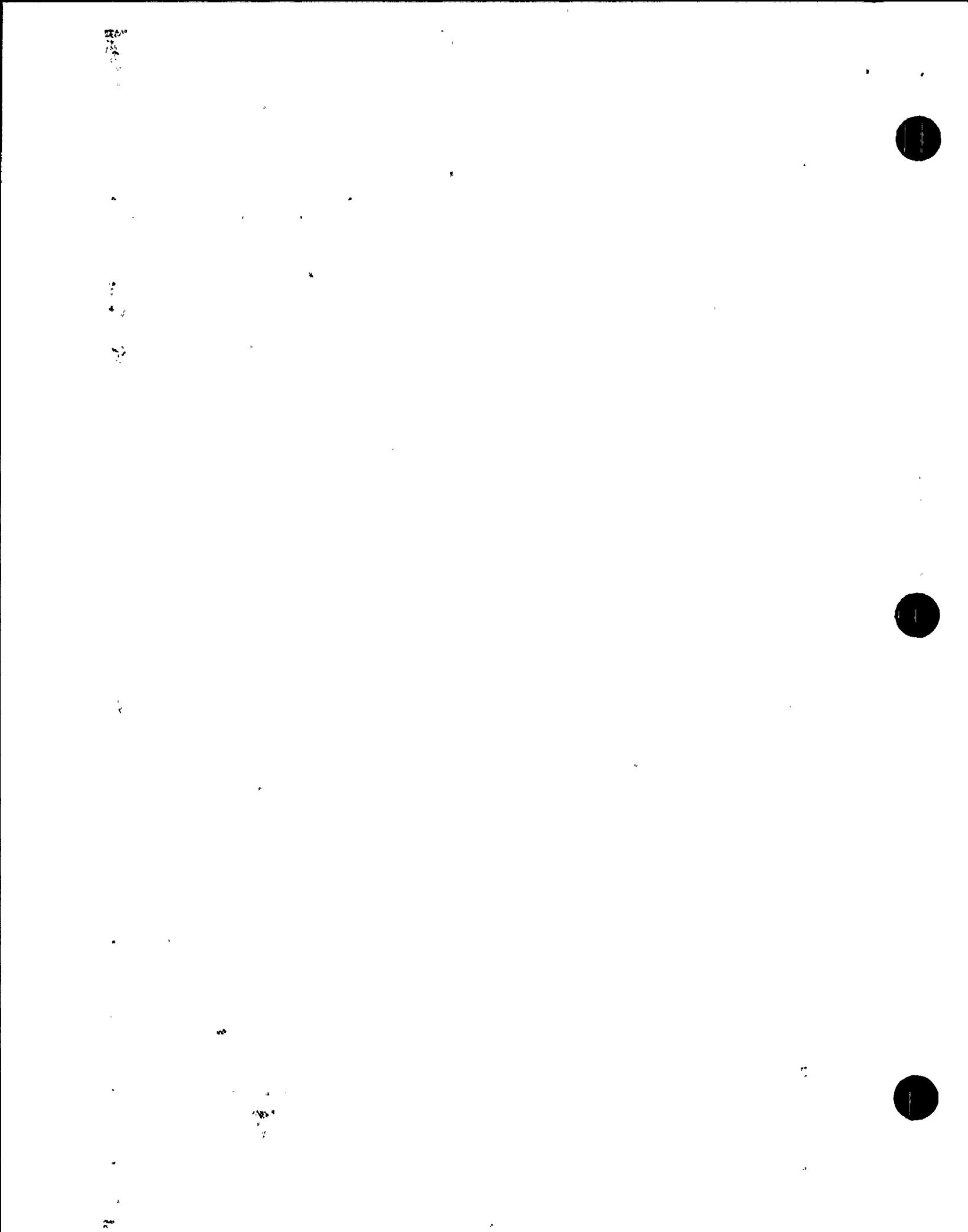
NPDES PERMIT #  
CA0003751

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 1 WEEK 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 1 WEEK COMP JA/AP/JUL/OCT
JANUARY	*	*	*	*	*	*	*	*
1	37	2	151	2	7	14	103	.2
2								.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 AVE		151	<1					
MONTHLY HIGH		162	<1					
MONTHLY LOW		139	<1					
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED								
TIMES EXCEEDED								

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

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Pat Kneeney</i>	4/6/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
VIS BISPD, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (D) 6

FACILITY I.D.		YEAR/ MO / DAY		YEAR/ MO /DAY		STATE CODE	NPDES PERMIT #
3 402003001		BEGINNING 92 / 01 / 01		ENDING 92 / 01 / 31		06	CA0003751

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 BTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F NICKEL ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D SILVER ug/l BTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H SILVER ug/l BTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L SILVER ug/l BTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F SILVER ug/l 1 WEEK COMP JA/AP/JUL/OCT
--	--	--	--	---	--	--	--	---

JANUARY	1	35	2	202	2 <19	<19	<11	2 19	2 <11	<11
2										
3										
4										
5										
6										
7										
8										
9										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

MONTHLY AVG	202	<19		19	<11		
MONTHLY HIGH	210	<19		24	<11		
MONTHLY LOW	194	<19		13	<11		
TIMES EXCEEDED	NO LIMIT						
TIMES EXCEEDED							
TIMES EXCEEDED							

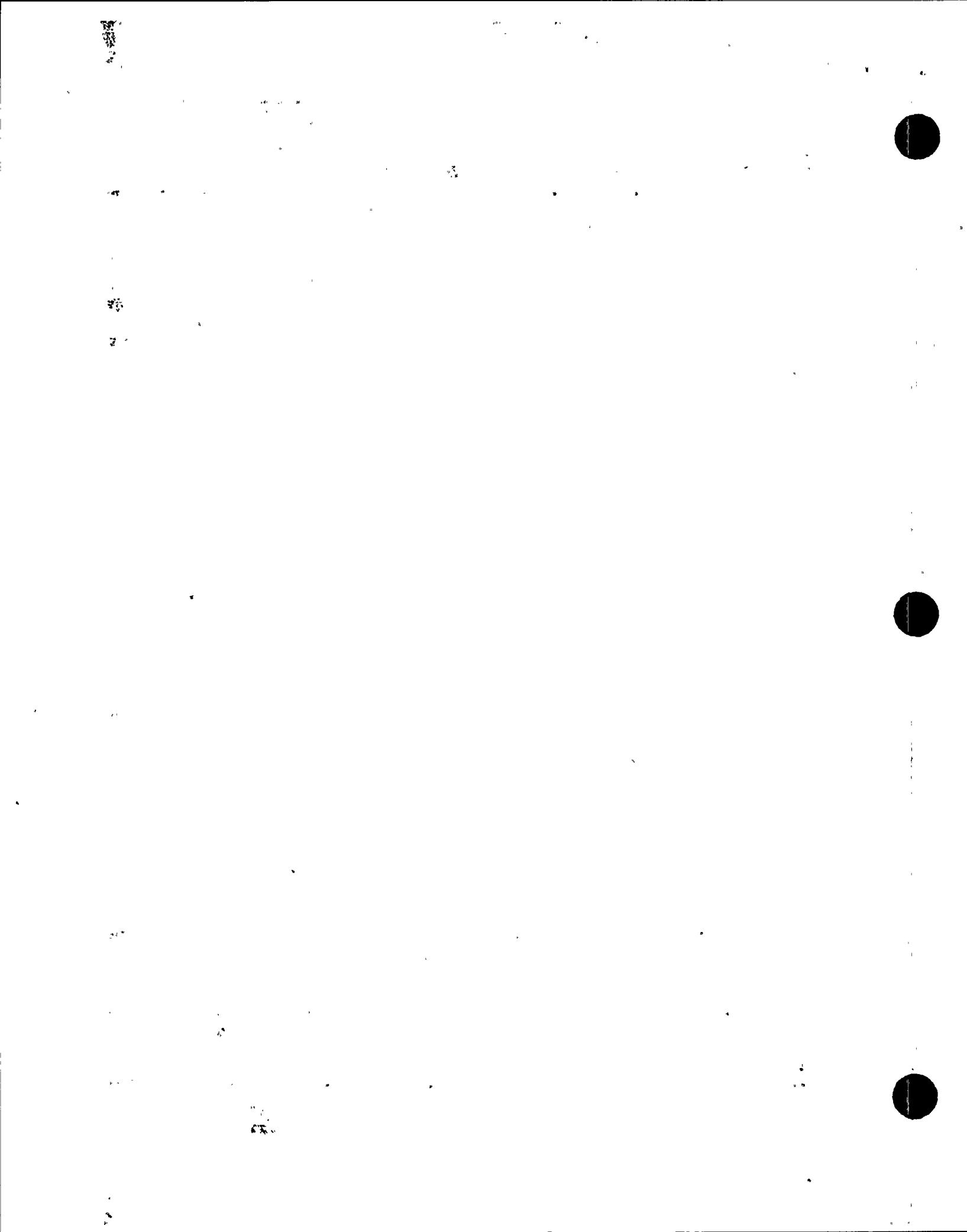
MARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*John Kremey* 1/16/92



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 (B) 7

PAGE (B) 7

FACILITY I.D.                    YEAR / MO / DAY                    YEAR / MO / DAY    STATE CODE    NPDES PERMIT #  
3 402003001                    BEGINNING 92 / 01 / 01                    ENDING 92 / 01 / 31    06                    CA0003751

STATION	EFFLUENT 001D	EFFLUENT 001H	EFFLUENT 001L	EFFLUENT 001F
ANALYSIS	ZINC	ZINC	ZINC	ZINC
UNITS	ug/l	ug/l	ug/l	ug/l
SMPL TYPE	BTRLY COMP	BTRLY COMP	BTRLY COMP	1 WEEK COMP
FREQ.	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT

MONTHLY AVG	254	34
MONTHLY HIGH	356	51
MONTHLY LOW	152	17

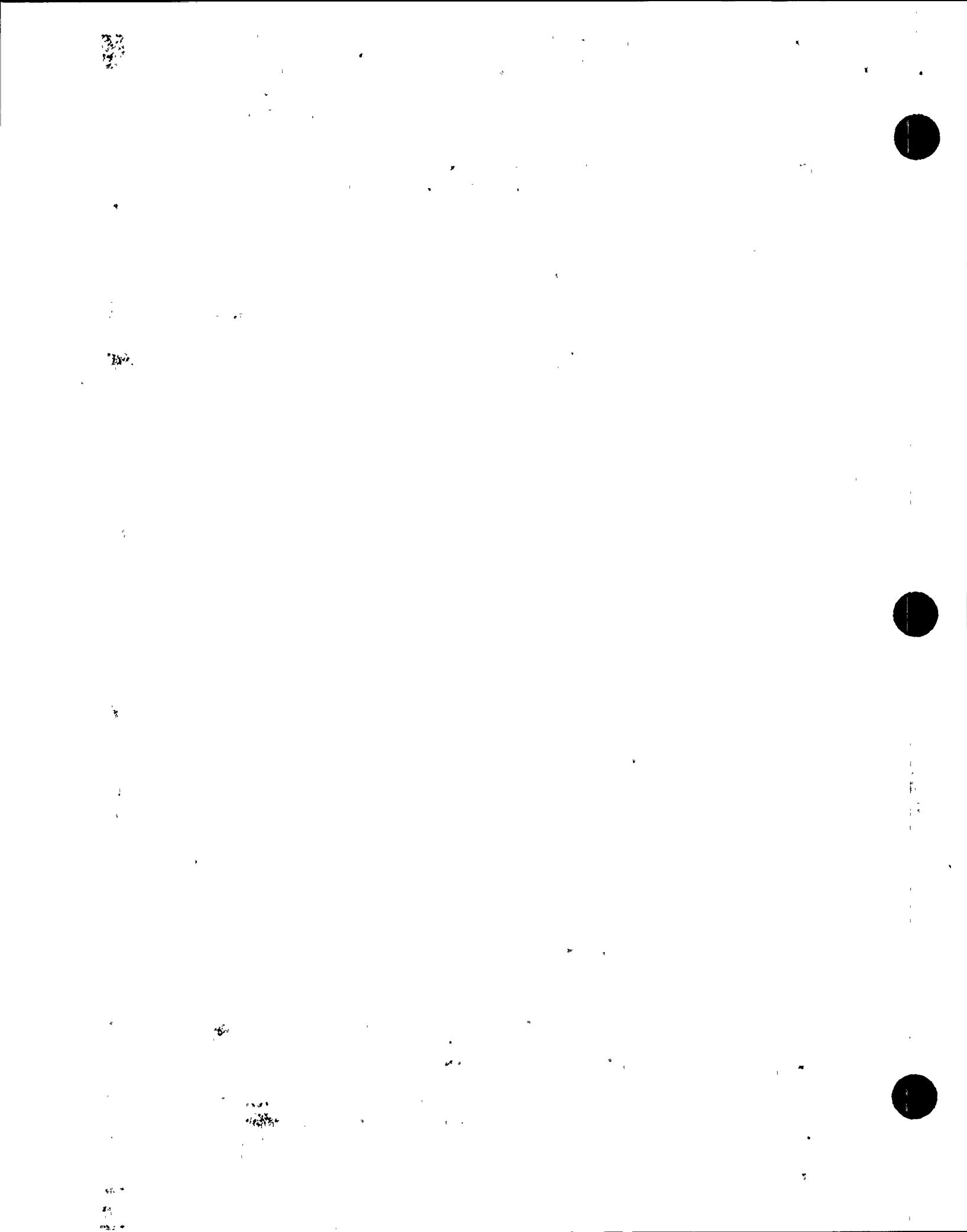
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED				
TIMES EXCEEDED				

(1) AS: (1) Number of Samples taken during the day.

**PRINCIPAL EXECUTIVE OFFICER**

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE  
*Jean R. Kremey* 4/16/91



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
11070 LAUREL LANE  
MORO BAY, CA 93442

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (Q) 8

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 92 / 01 / 01

YEAR/ MO / DAY  
ENDING 92 / 01 / 31

STATE CODE  
06  
NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D COPPER #g/l	EFFLUENT 001F COPPER #g/l	EFFLUENT 001I COPPER #g/l	EFFLUENT 001L COPPER #g/l	EFFLUENT 001M COPPER #g/l
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					
TIMES EXCEEDED	MD AVG 1 = 0				
TIMES EXCEEDED	D MAX 1 = 0				
EXCEEDED					

REMARKS: (1) Number of Samples taken during the day.

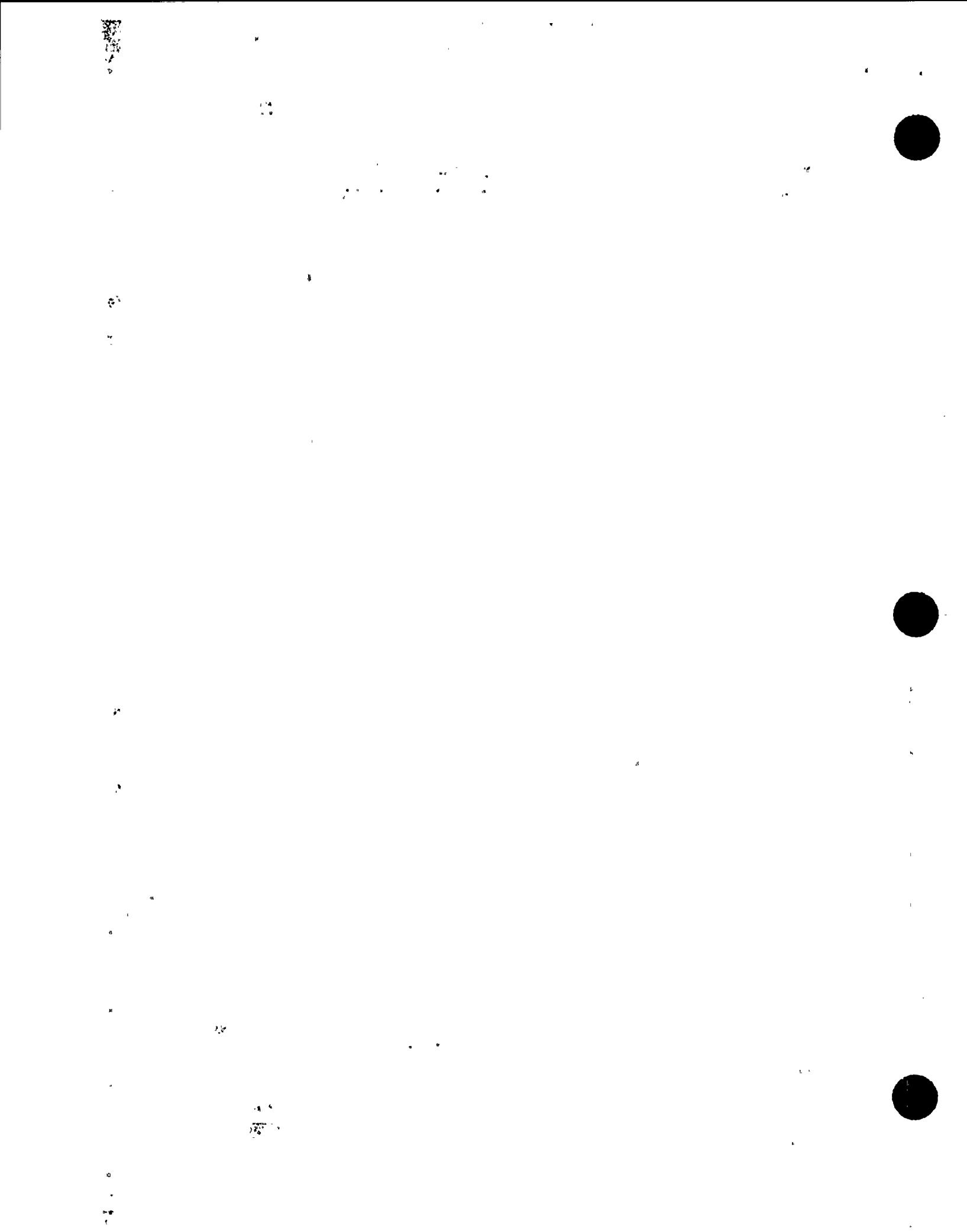
PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kremag 4/16/92



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 (8) 9

FACILITY I.D.	YEAR / MO / DAY BEGINNING 92 / 01 / 01	YEAR / MO / DAY ENDING 92 / 01 / 31	STATE CODE 06	NPDES PERMIT # CA0003751
3 402003001				

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D IRON Bg/l	EFFLUENT 001F IRON Bg/l	EFFLUENT 001I IRON Bg/l	EFFLUENT 001L IRON Bg/l	EFFLUENT 003M IRON Bg/l
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					
TIMES EXCEEDED	MD AVG 1 = 0				
TIMES EXCEEDED	D MAX 1 = 0				
TIMES EXCEEDED					

REKS: {1} Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

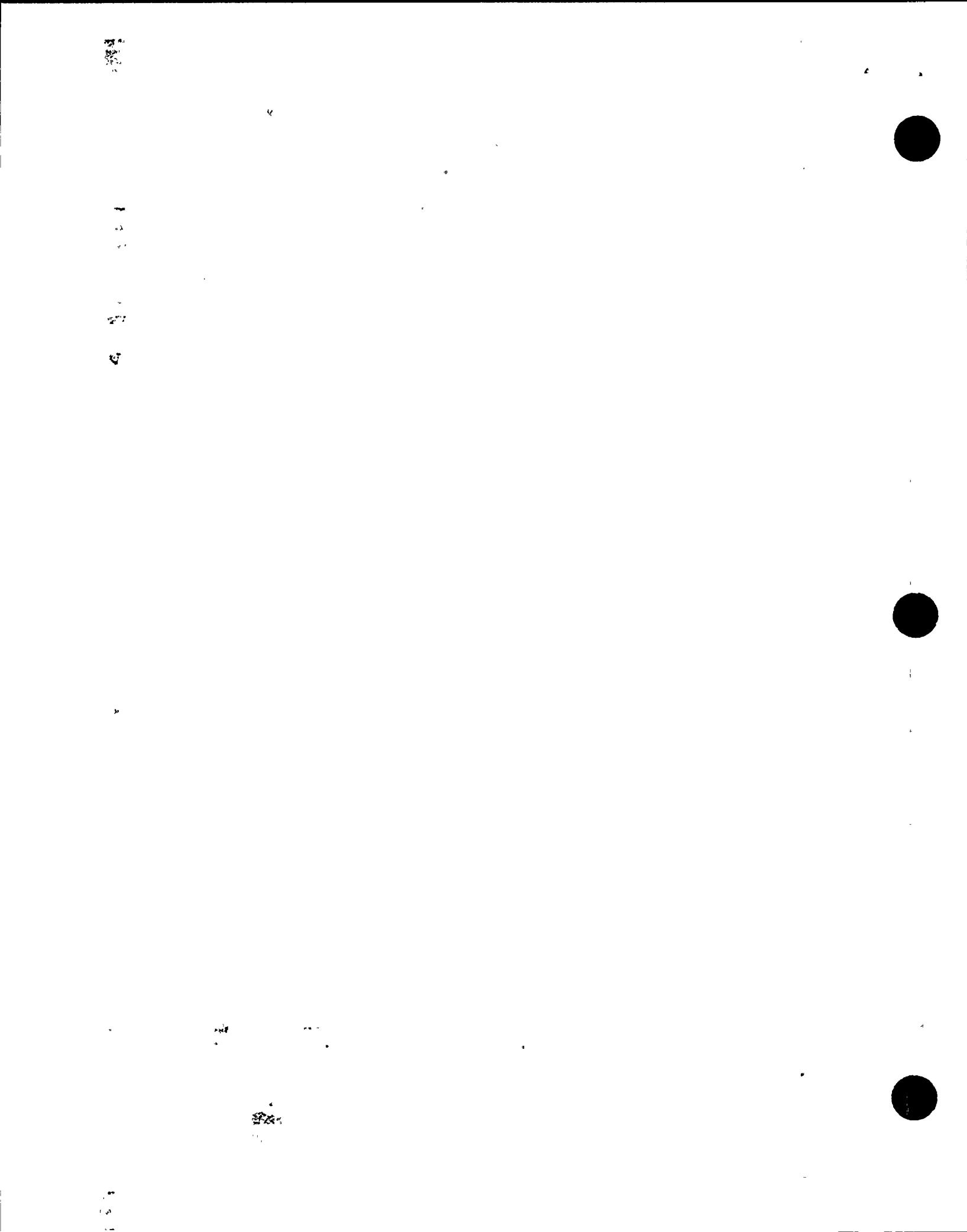
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

John Kremaga

DATE

4/16/93



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
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 (A) 1

FACILITY I.D.		YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #
	3 402003001	BEGINNING	92 / 01 / 01	ENDING	92 / 01 / 31	06	CA0003751

STATION ANALYSIS UNITS	EFFLUENT 001 TITANIUM ug/l	INFLUENT ARSENIC ug/l	EFFLUENT ARSENIC ug/l	INFLUENT CADMIUM ug/l	EFFLUENT 001 CADMIUM ug/l	INFLUENT LEAD ug/l	EFFLUENT 001 LEAD ug/l	INFLUENT ZINC ug/l
SMPL TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
FREQ.	OCTOBER	OCTOBER	OCTOBER	OCTOBER	OCTOBER	OCTOBER	OCTOBER	OCTOBER

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

MONTHLY AVG  
MONTHLY HIGH  
MONTHLY LOW

TIMES EXCEEDED	NO LIMIT	NO LIMIT	6H-MEAN 30 =0	NO LIMIT	6H-MEAN 10 =0	NO LIMIT	6H-MEAN 10 =0
TIMES EXCEEDED			D MAX 150 =0		D MAX 20 =0		D MAX 40 =0
TIMES EXCEEDED			I MAX 400 =0		I MAX 50 =0		I MAX 100 =0

REMARKS: (1) Number of Samples taken during the day. Influent Zinc analyzed for comparison to effluent analysis. All other analyses will be performed in October.

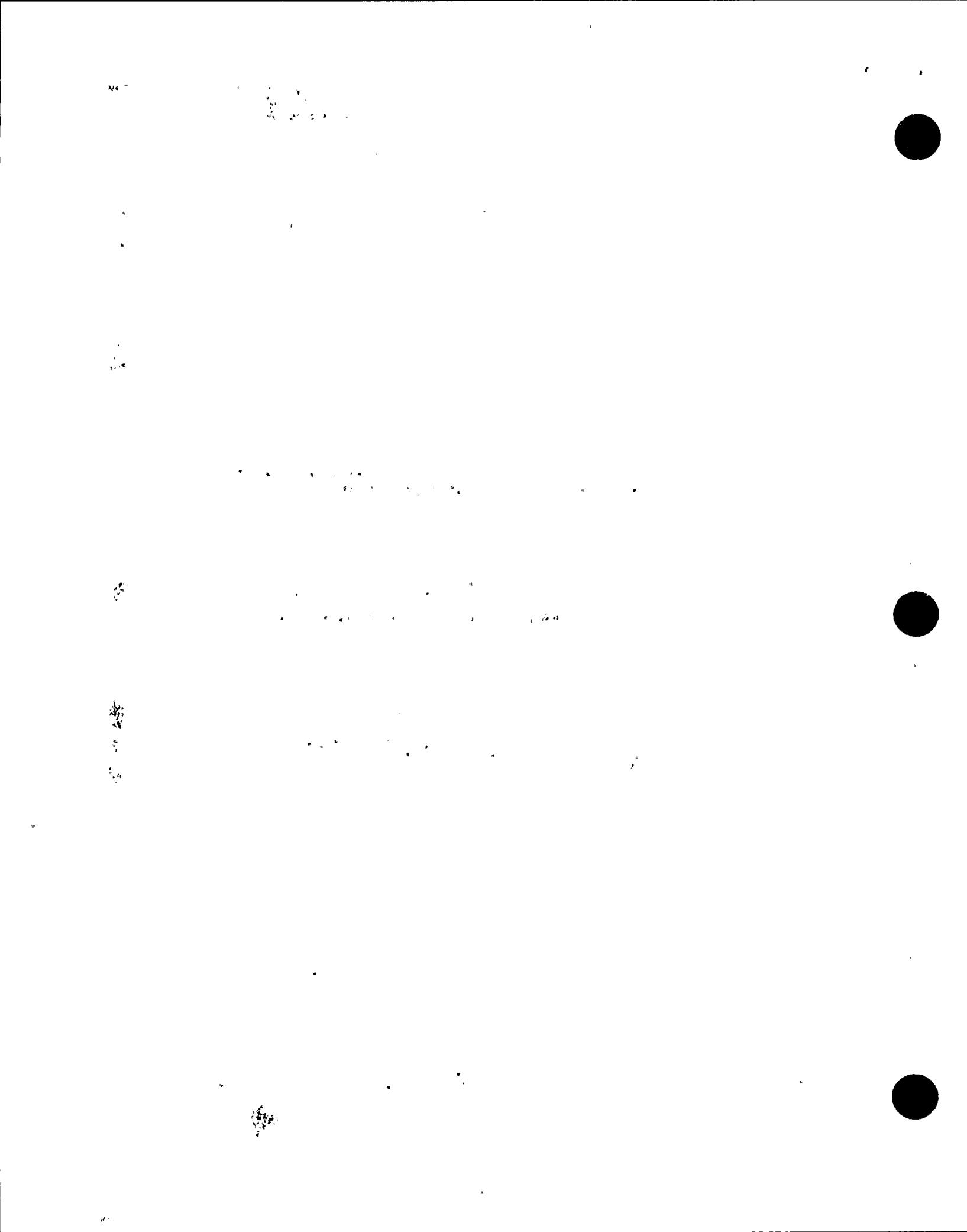
PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kremers 4/16/92



## CHEMISTRY SAMPLE DATA BULKER REPORT

Unit: 0 NPDES  
001 EFFLUENT CHLORINATION

From: 1/01/92 0:01  
Through: 1/31/92 23:59

Parameter:	CWP 1-1 1ST TOTAL	CWP 1-1 2ND TOTAL	CWP 1-2 1ST TOTAL	CWP 1-2 2ND TOTAL	CWP 2-1 1ST TOTAL	CWP 2-1 2ND TOTAL	CWP 2-2 1ST TOTAL	CWP 2-2 2ND TOTAL
High Limit:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Low Limit:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Sample Time:	PPM							

1/01/92 10:00	0.07	0.07	0.04	0.07	0.02	0.03	0.02	<0.02
1/03/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/06/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/07/92 10:00	<0.02	<0.02	0.06	0.11	<0.02	<0.02	<0.02	<0.02
1/13/92 10:00	0.05	0.06	0.06	0.04	0.03	0.06	0.05	0.04
1/14/92 10:00	0.06	0.12	0.13	0.10	0.12	0.08	0.13	0.14
1/15/92 10:00	0.06	0.06	0.04	0.06	0.02	0.04	0.05	0.06
1/16/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/17/92 10:00	<0.02	<0.02	<0.02	<0.02	0.03	0.03	0.04	0.04
1/23/92 10:00	0.02	0.02			0.05	0.08	0.10	0.15
1/24/92 10:00	0.07	0.10	0.10	0.10	<0.02	<0.02	0.06	0.11
1/28/92 10:30	0.06	0.07			0.10	0.12	0.12	0.12
1/29/92 10:00	0.05	0.09	0.08	0.10	0.05	0.06	0.05	0.06
1/30/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/31/92 10:00	0.03	0.03	0.05	0.03	0.09	0.05	0.04	0.06

NOTE: Individual sample results for Total Residual Chlorine (TRC) are adjusted by the following formula to account for dilution by the unchlorinated Circulating Water Pumps on the opposite operating Unit. It is assumed that no chlorine demand exists in the seawater:

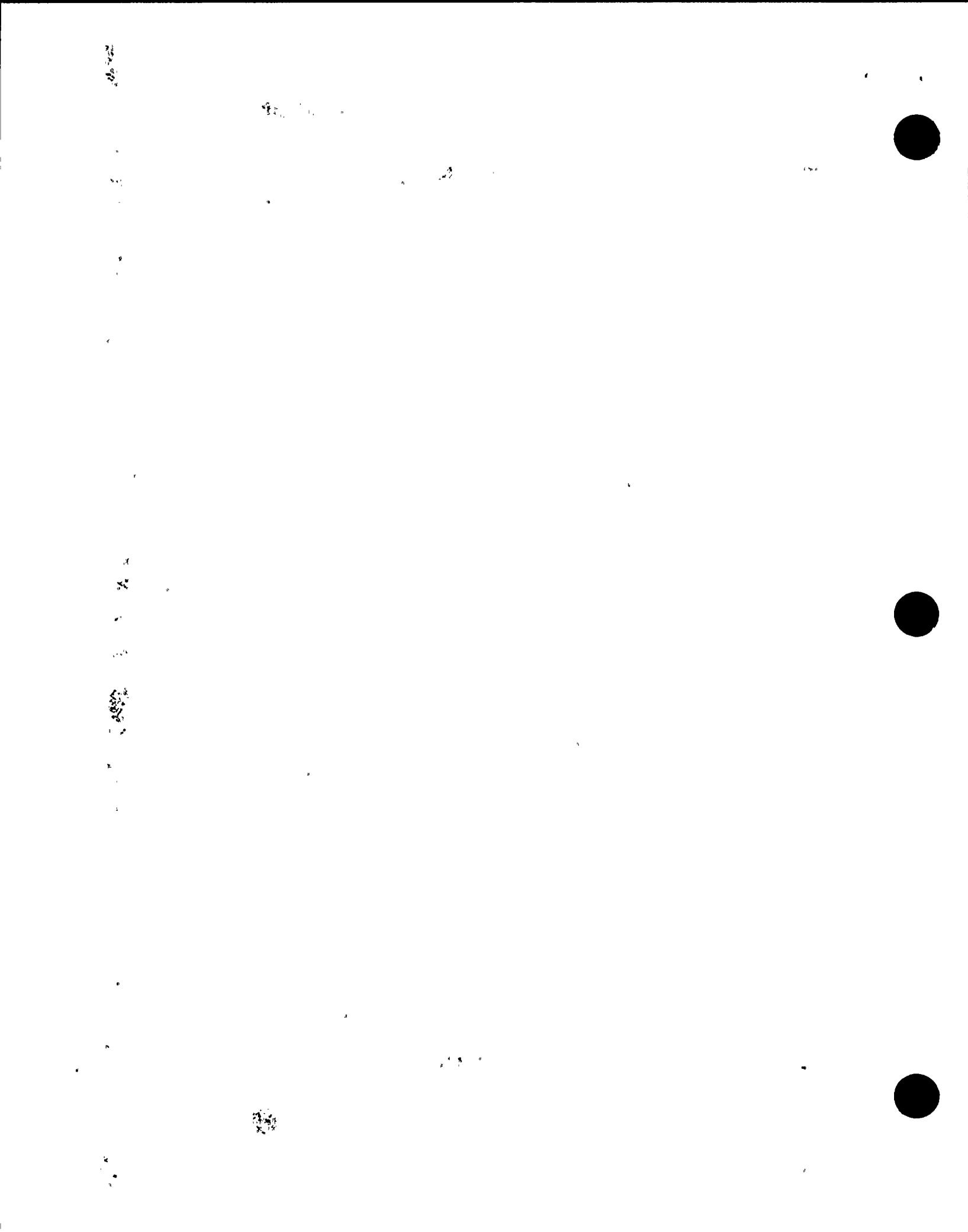
ppm TRC  $\times$  # of operating pumps on chlorinated Unit  
# of operating pumps for both Units

The daily average TRC value reported on the Q2 forms is the average of the adjusted TRC results for the day, which could include up to eight individual results (two analyses per chlorination cycle for a maximum of 4 cycles per day)

4/16/92 11:03

Requested by John Knemeyer

Page: 1



11/09/90 11:37 23805-489 0008  
JAN-21-1990 16:01 FRM1 3rd Floor Copy Room

PRP-AKROYO GRAND

TO

97738761 P.09

0006

PACIFIC GAS & ELECTRIC - DIABLO CANYON POWER PLANT  
SANITARY WASTEWATER TREATMENT SYSTEM  
CONTRACT # Z70-2104-86

(REV. 5/90)

Sanitation and Operation Consultants, INC.  
18340 E. Maple Grove Street  
La Puente, CA 91744

PG&E Gas and Electric Co.  
Contract:  
Randy Falcke (805) 695-4382  
John Khamoyer (805) 695-4472

CONSTITUENTS	UNITS	FREQ.	LIMITS		SAMPLE		RESULTS
			MONTHLY AVERAGE	DAILY MAX	DATE	TIME	
1. GREASE & OIL	mg/l	WEEKLY	15	20	1-3	1:22	4.7 mg/l Ave of
2. "	mg/l	"	15	20	1-9	5:25	4.7 mg/l Ave of
3. "	mg/l	"	15	20	1-14	1:34	7.3 mg/l Ave of
4. "	mg/l	"	15	20	1-21	9:46	7.7 mg/l Ave of
5. "	mg/l	"	15	20	1-27	2:04	7.0 mg/l Ave of
1. SUSPENDED SLD	mg/l	WEEKLY	60	N/A	1-3	1:08	6 mg/l
2. "	mg/l	"	60	N/A	1-9	5:07	13 mg/l
3. "	mg/l	"	60	N/A	1-14	1:14	12 mg/l
4. "	mg/l	"	60	N/A	1-21	9:21	< 5 mg/l
5. "	mg/l	"	60	N/A	1-27	1:50	12 mg/l
1. SETTLEABLE SLD	ml/l	WEEKLY	1.0	3.0	1-3	1:16	< 0.1 ml/l
2. "	ml/l	"	1.0	3.0	1-9	5:15	< 0.1 ml/l
3. "	ml/l	"	1.0	3.0	1-14	1:18	< 0.1 ml/l
4. "	ml/l	"	1.0	3.0	1-21	9:44	< 0.1 ml/l
5. "	ml/l	"	1.0	3.0	1-27	1:58	< 0.1 ml/l

NOTE:

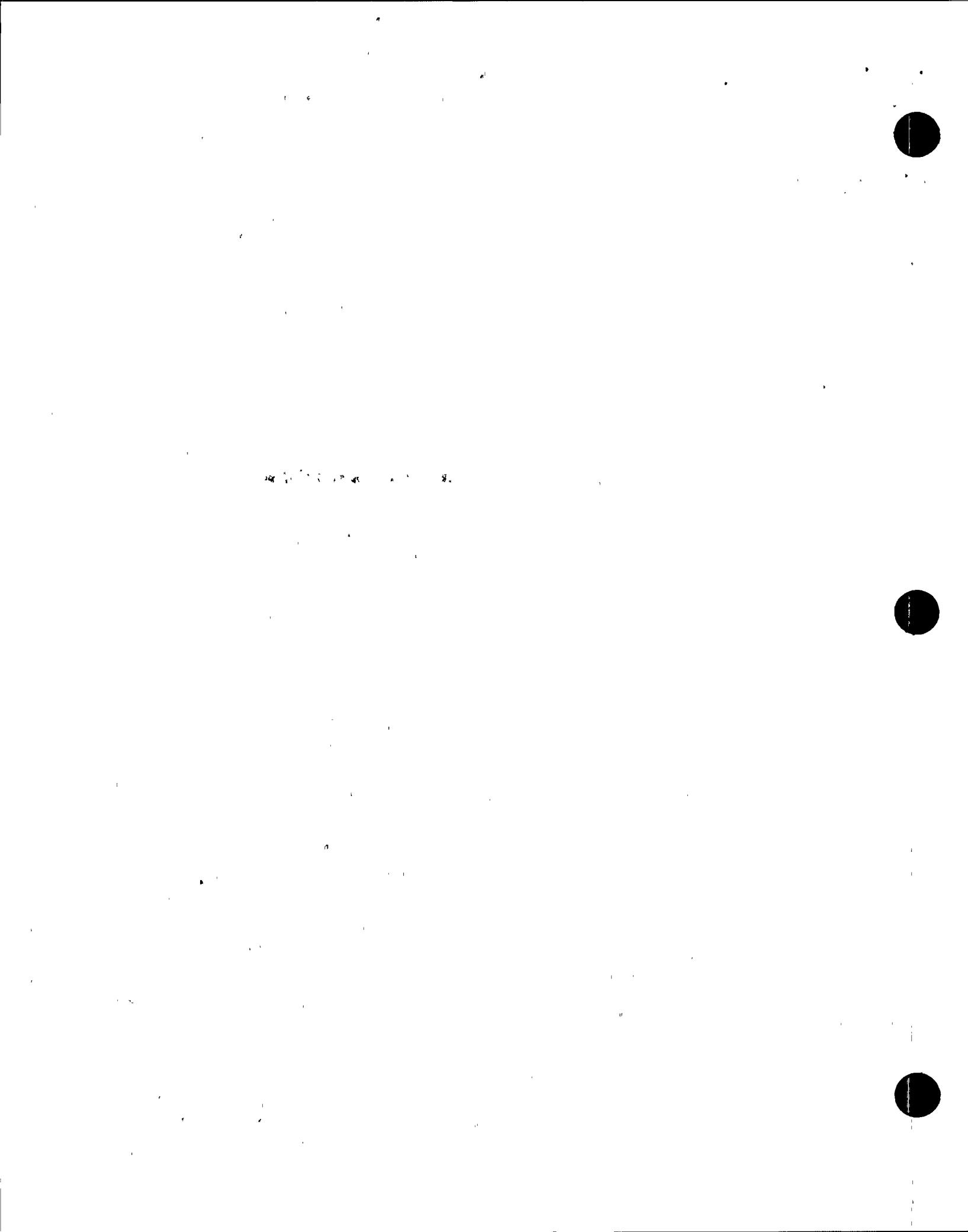
- ANALYSIS RESULTS ABOVE THE MONTHLY AVERAGE SHALL BE REPORTED VERBALLY WITHIN 8 HOURS TO A PG&E CONTACT LISTED ABOVE.
- G&O AND SUSP. SLD. SAMPLES ARE COMPOSITES DURING 1 DISCHARGE CYCLE.

COMMENTS:

SLUDGE DISPOSAL DATA

MONTH REMOVED	VOLUME REMOVED	WEIGHT REMOVED	DISPOSAL SITE
JANUARY 1992		1,899 lbs	WALSH NIPOMO

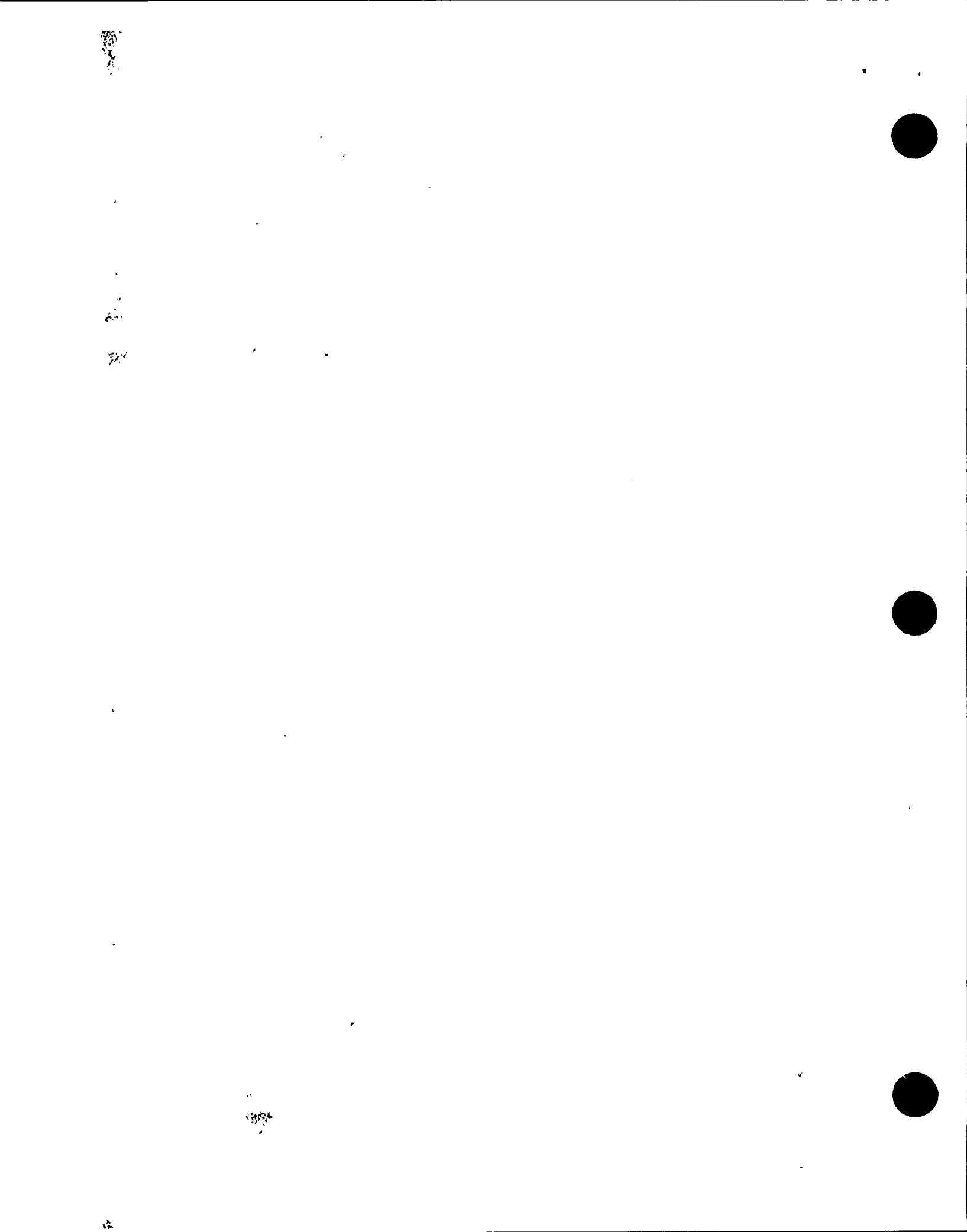
MATA SHEET NUMBER: Michael J. Beelesey 2-6-92



**APPENDIX 2**

**Influent and Effluent Monitoring**

**February 1992**



CALIFORNIA REGIONAL WATER QUALITY  
 CONTROL BOARD  
 CENTRAL COAST REGION  
 1102A LAUREL LANE  
 VIS BISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

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

FACILITY I.D.  
 3 402003001

YEAR/ MO / DAY  
 BEGINNING 92 / 02 / 01

YEAR/ MO /DAY  
 ENDING 92 / 02 / 29

STATE CODE  
 06

NPDES PERMIT #  
 CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	DELTA TEMP TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLDW MGD RECORDED DAILY	INFLUENT pH pH UNITS GRAB MONTHLY	EFFLUENT 001 pH pH UNITS GRAB MONTHLY (***)	EFFLUENT 001P pH pH UNITS GRAB MONTHLY	EFFLUENT 002 pH pH UNITS GRAB MONTHLY
FEBRUARY	\$	\$	\$	\$	\$	\$	\$	\$
1	57.0	76.0	19.0	2557				
2	56.7	75.7	19.0	2555				
3	56.8	75.7	18.9	2554				
4	57.1	76.2	19.1	2550				
5	56.7	75.5	18.6	2550				
6	57.1	75.9	18.8	2557				
7	57.8	76.5	18.7	2547				
8	58.6	77.2	18.6	2552				
9	58.4	77.2	18.6	2541				
10	57.3	76.2	18.5	2558				
11	57.4	76.3	18.9	2552				
12	57.7	76.7	19.0	2554				
13	58.4	77.3	18.9	2552				
14	58.2	77.1	18.9	2550				
15	58.4	77.7	19.3	2557				
16	58.7	76.0	19.3	2554				
17	56.7	77.4	18.7	2056				
18	56.6	77.2	18.6	2554				
19	58.6	77.4	18.6	2557				
20	58.6	77.4	18.8	2552				
21	57.7	76.9	19.2	2555				
22	56.8	75.7	16.9	2554				
23	57.0	75.6	18.6	2554				
24	58.4	77.1	18.7	2554				
25	57.6	76.5	18.9	2557				
26	57.2	76.1	16.9	2557	8.1			
27	57.3	76.2	18.9	2550				
28	57.9	76.8	18.9	2550				
29	57.6	77.1	19.5	2452				
30								
31								
MONTHLY AVG	57.7	76.6	18.9	2534				5.1
MONTHLY HIGH	58.7	77.7	19.5	2558				6.1
MONTHLY LOW	56.7	75.5	18.6	2090				6.6
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MAX 22 = 0	MAX 2760 = 0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED			(***)					
TIMES EXCEEDED								

REMARKS: (1) Number of Samples taken during the day. (11) Except During Demusseling.

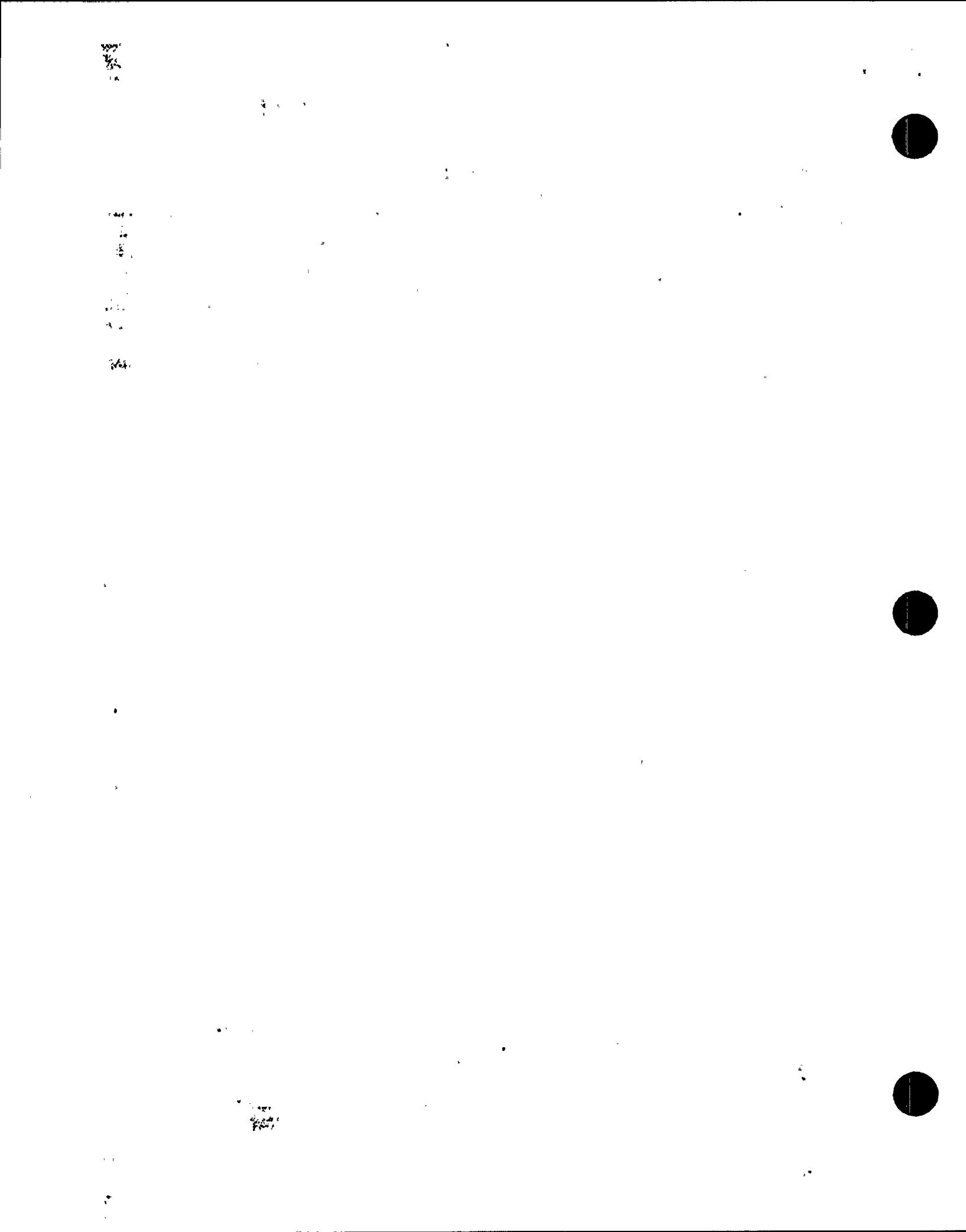
(\*\*\*) Daily when discharging chemical cleaning wastes from discharges 0GID, F, I, L and/or X.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*John R. Kennedy* 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
62A LAUREL LANE  
LUIIS 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 (M) 2

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 92 / 02 / 01

YEAR/ MO /DAY  
ENDING 92 / 02 / 29

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 pH UNITS GRAB MONTHLY	EFFLUENT 004 pH UNITS GRAB MONTHLY	EFFLUENT 001H OIL & GREASE mg/l COMPOSITE WEEKLY	EFFLUENT 001P OIL & GREASE mg/l GRAB WEEKLY (**)	EFFLUENT 003 OIL & GREASE mg/l GRAB WEEKLY (**)	EFFLUENT 001F OIL & GREASE mg/l GRAB MONTHLY	EFFLUENT 001 T CHLOR RES ug/l GRAB 2 per CYCLE	EFFLUENT 001 CHLORINE USED 105/08V RECORDED MONTHLY
FEBRUARY								
1								
2								
3								
4								
5	7.9	8.1	4.7			4	6 20	248
6							6 41	331
7							5 36	381
8							8 26	398
9							6 20	426
10								
11							6 20	331
12							6 20	454
13							6 27	454
14							6 27	331
15								
16								
17								
18							6 36	331
19							6 26	331
20							6 31	331
21							6 56	331
22								
23								
24							6 61	248
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG			6.0		NO DISCHARGE	NO DISCHARGE	32	352
MONTHLY HIGH			7.7				120	248
MONTHLY LOW			4.7				(20)	248
TIMES EXCEEDED	ND LIMIT	ND LIMIT	MD AVG 15 =0	MD AVG 15 =0	MD AVG 15 =0	MD AVG 15 =0	1	MAY 200 =0 ND LIMIT
TIMES EXCEEDED			D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0		
ES EXCEEDED								

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

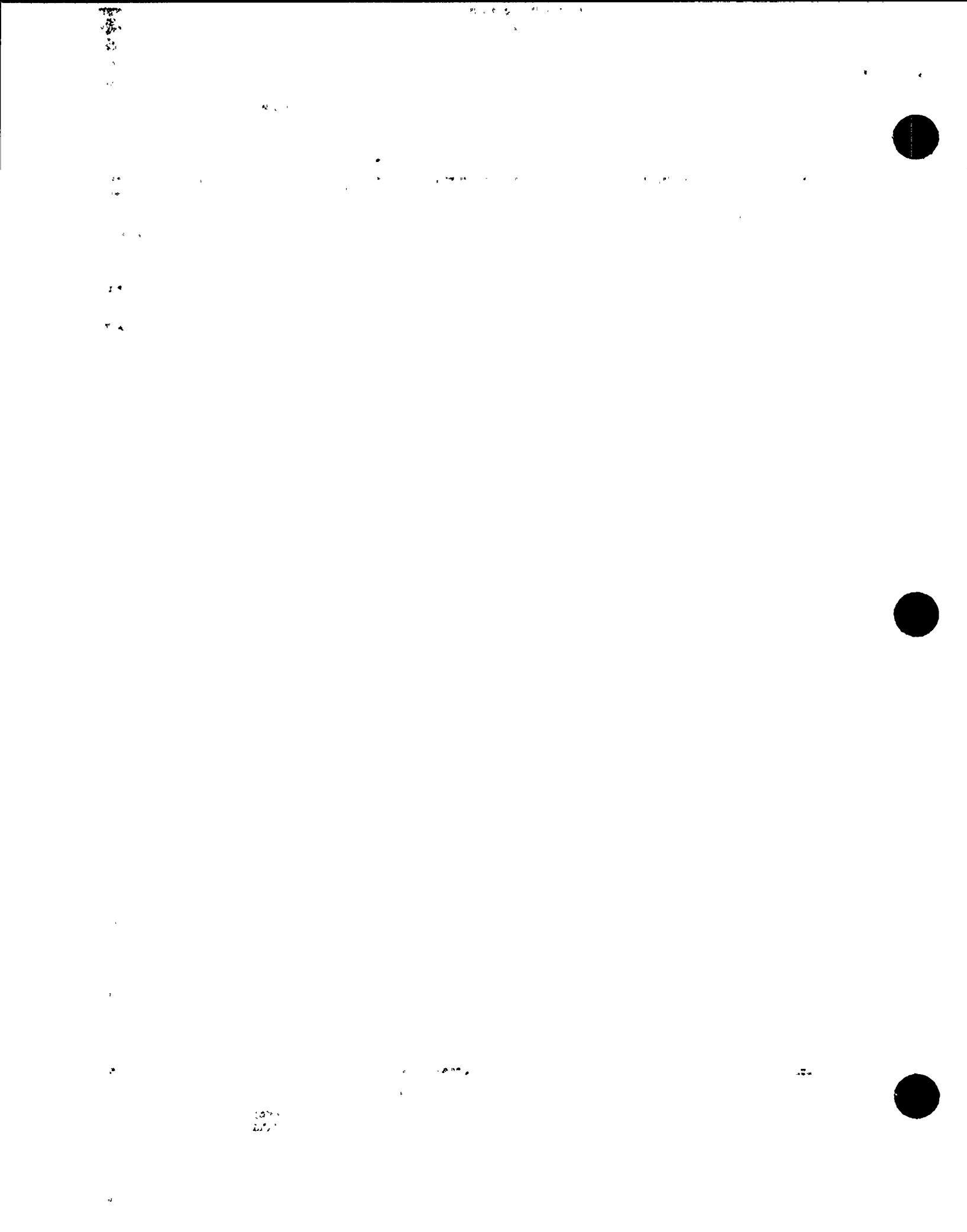
(\*\*) When 001H is discharging to 001P. (\*\*\*) When 001P is discharging to 003.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

JDR Kremey 4/16/92



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 (M) 3

FACILITY I.D.  
3 402003001

YEAR/ MD / DAY  
BEGINNING 92 / 02 / 01

YEAR/ MD /DAY  
ENDING 92 / 02 / 29

STATE CODE  
06  
NPDES PERMIT #  
CA0003751

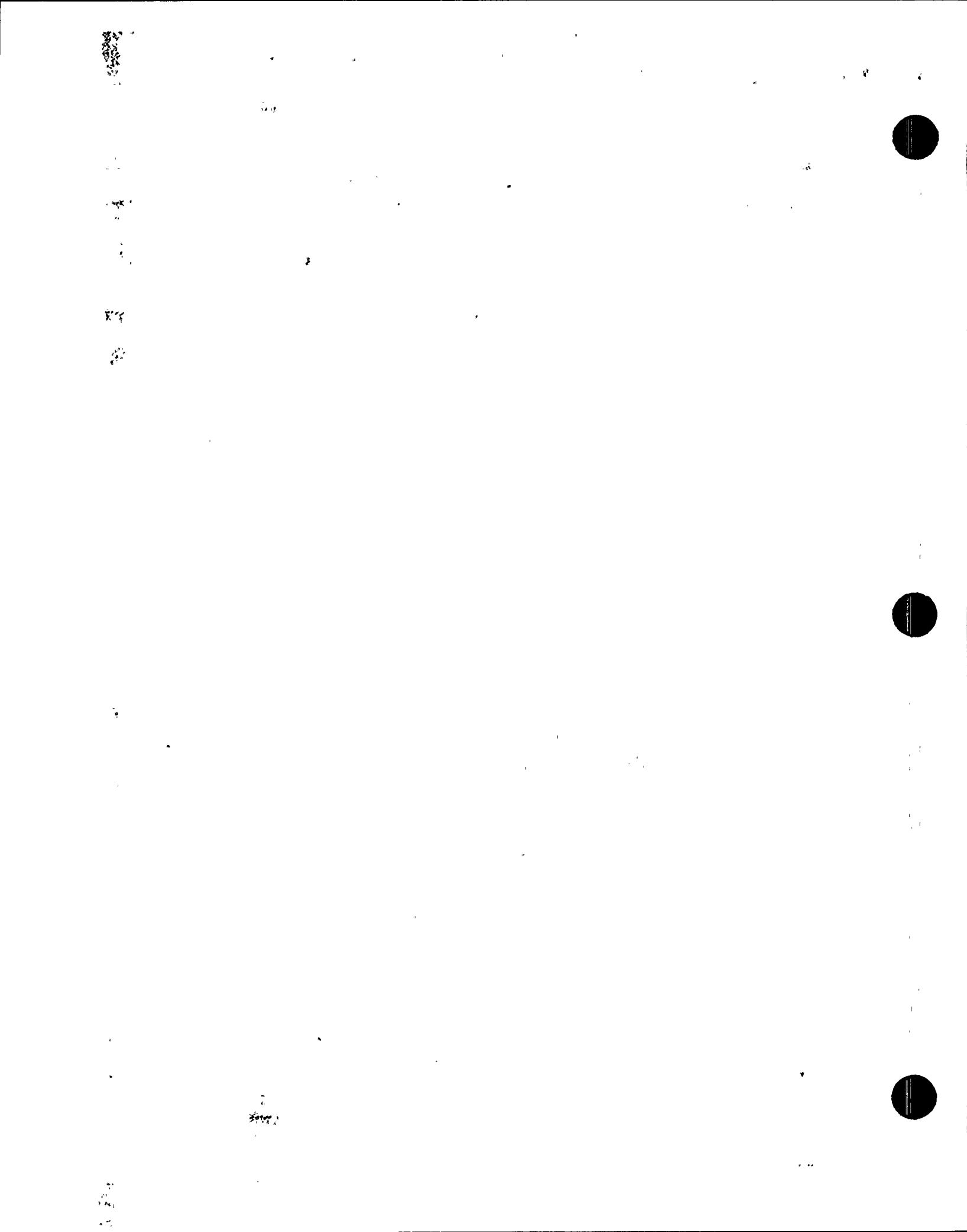
STATION ANALYSIS	EFF 001N=>003	EFF 001N=>003	-----EFFLUENT 001D-----			-----EFFLUENT 001F-----		
UNITS	TOTL COLIFORM	FECAL COLIFORM	SUSPENDED SOLIDS			SUSPENDED SOLIDS		
SMPL TYPE	MPN/100mL	MPN/100mL	mg/l	1st FLTR	mg/l	2nd FLTR	mg/l	NET
FREQ.	GRAB	GRAB	GRAB			GRAB		
	4 TIMES/WEEK	4 TIMES/WEEK	MONTHLY			MONTHLY		

FEBRUARY															
1															
2															
3															
4															
5															
6															
7															
8															
9															
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23															
24															
25															
26															
27															
28															
29															
30															
31															

MONTHLY AVG	NO DISCHARGE	NO DISCHARGE													
MONTHLY HIGH															
MONTHLY LOW															
TIMES EXCEEDED	80% SMPLS>1K	MEAN>200=0	NO LIMIT	NO LIMIT	MD AVG 30= 0	NO LIMIT	NO LIMIT	NO LIMIT	MD AVG 30 = 0						
TIMES EXCEEDED	=0	90% SMPLS>400			D MAX 100 =0				D MAX 100 =0						
TIMES EXCEEDED	1 MAX >10K=0	=0													

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

PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF AUTHORIZED AGENT	DATE
JAMES D. SHIFFER	<i>[Signature]</i>	4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
VIS BISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 4

FACILITY I.D.  
3 402003001

YEAR / MO / DAY  
BEGINNING 92 / 02 / 01

YEAR / MO / DAY  
ENDING 92 / 02 / 29

STATE CODE  
06  
NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 0016			EFFLUENT 001H		
	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET GRAB MONTHLY	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET GRAB MONTHLY
FEBRUARY						
1						
2						
3						
4						
5	(1)		(1)			
6						
7						
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28						
29						
30						
31						
MONTHLY AVG						
MONTHLY HIGH						
MONTHLY LOW						
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO LIMIT	NO LIMIT	NO AVG 30 =0
TIMES EXCEEDED			D MAX 100 =0			D MAX 100 =0
ES EXCEEDED						

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Jack Kremeyer 4/16/92



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CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
MUS DBISPO, CA 93401

## DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (N) 5

FACILITY I.D.  
3 402003001

YEAR / MO / DAY  
BEGINNING 92 / 02 / 01

YEAR / MO / DAY  
ENDING 92 / 02 / 29

STATE CODE  
06  
NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I			EFFLUENT 001J		
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY
FEBRUARY	\$	\$	\$	\$	\$	\$
1						
2						
3						
4						
5						
6						
7						
8						
9						
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25						
26						
27						
28						
29						
30						
31						
MONTHLY AVG	NO DISCHARGE			NO DISCHARGE		
MONTHLY HIGH						
MONTHLY LOW						
TIMES EXCEEDED	NO LIMIT	NO LIMIT	ND AVG 30 =0	ND LIMIT	ND LIMIT	ND AVG 30 =0
TIMES EXCEEDED			D MAX 100 =0			D MAX 100 =0
ES EXCEEDED						

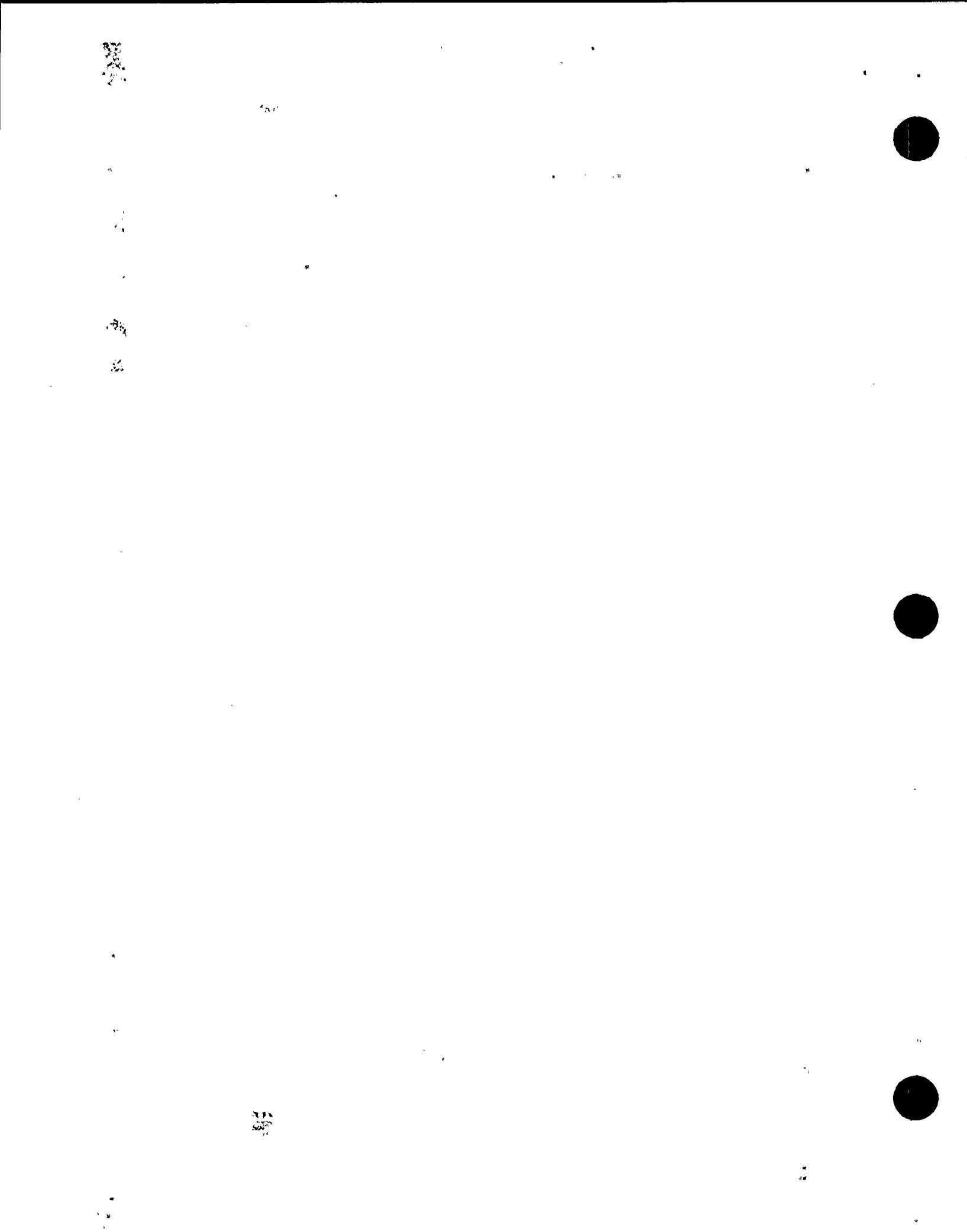
REMARKS: {1} Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

*John Kremers* 1/14/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAUREL LANE  
VIS BISPO, CA 93401

## DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 6

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 92 / 02 / 01

YEAR/ MO /DAY  
ENDING 92 / 02 / 29

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001K-----			EFFLUENT 001L-----		
	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR	NET	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR	NET
1						
2						
3						
4						
5						
6						
7						
8						
9						
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27						
28						
29						
30						
31						
MONTHLY AVE	NO DISCHARGE				<1	
MONTHLY HIGH					<1	
MONTHLY LOW					<1	
TIMES EXCEEDED NO LIMIT	ND LIMIT	ND AVG 30 = 0	ND LIMIT	ND LIMIT	ND AVG 30 = 0	
TIMES EXCEEDED		D MAX 100 = 0			D MAX 100 = 0	
S EXCEEDED						

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

John Krenzay

4/16/92

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CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
MIS OBISSD, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 7

FACILITY I.D. YEAR/ MO / DAY      YEAR/ MO /DAY STATE CODE NPDES PERMIT #  
3 402003001 BEGINNING 92 / 02 / 01 ENDING 92 / 02 / 29 06 CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001M-----			EFFLUENT 001N-----			EFFLUENT 001P-----		
	SUSPENDED SOLIDS	SUSPENDED SLDS	SUSPENDED SOLIDS	GRAB	COMPOSITE	GRAB	GRAB	NET	MONTHLY
FEBRUARY									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13	25	(1)	25	25	6	19	16	3	
14	21	(1)	21	12					
15	13	(1)	13						
16									
17									
18									
19									
20									
21	6	(1)	6	(5)					
22									
23									
24									
25									
26									
27	10	4	6	12					
28									
29									
30									
31									
MONTHLY AVG			14	10					
MONTHLY HIGH			25	13					
MONTHLY LOW			6	(5)					
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 = 0	NO AVG 60 = 0	NO LIMIT	NO LIMIT	NO AVG 30 = 0		
TIMES EXCEEDED			D MAX 100 = 0				D MAX 100 = 0		
TIMES EXCEEDED									

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

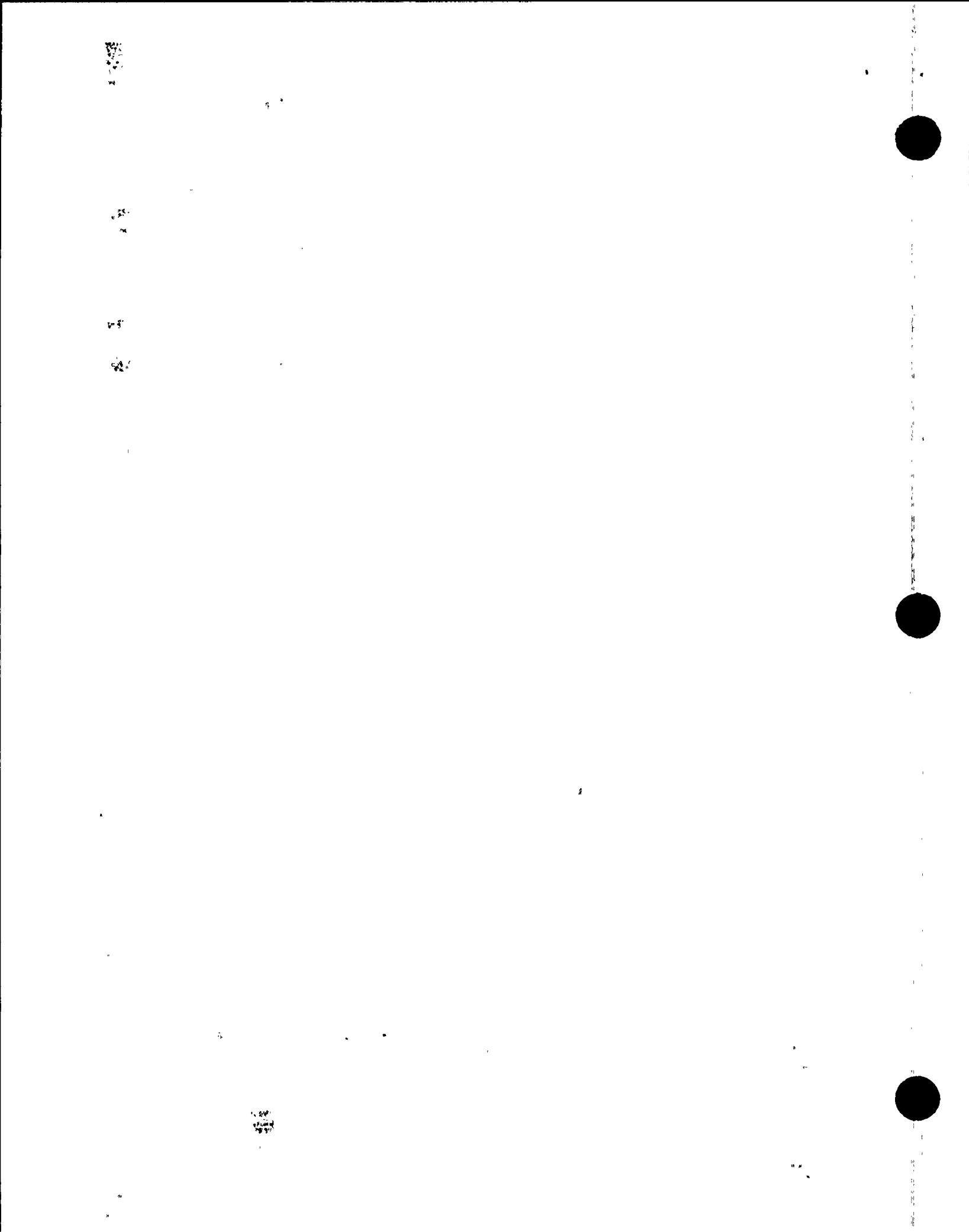
PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

Jack Kenney

1/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAUREL LANE  
VIS BISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

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

FACILITY I.D.	YEAR/ MD / DAY	YEAR/ MD /DAY	STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING 92 / 02 / 01	ENDING 92 / 02 / 29	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 002			EFFLUENT 003		
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY
1						
2						
3						
4						
5	13	11	2 2	16	14	2
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			2			
MONTHLY HIGH			2			
MONTHLY LOW			1			
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 = 0 1 MAX 100 = 0	NO LIMIT	NO LIMIT	MD AVG 30 = 0 1 MAX 100 = 0
TIMES EXCEEDED						
EXCEEDED						

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

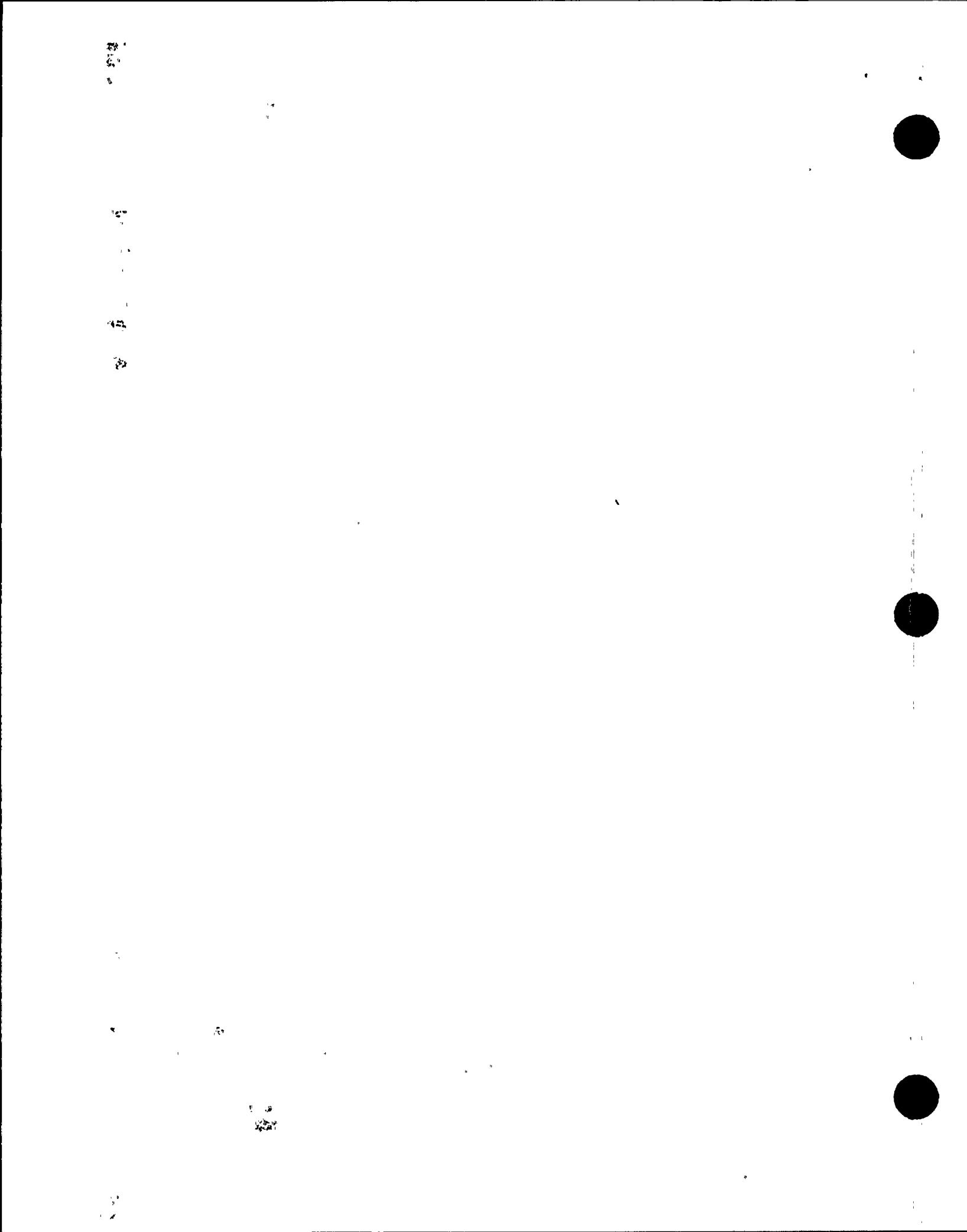
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

[Signature]

4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAMA LAUREL LAKE  
MIS DBISPD.CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (W) 9

FACILITY I.D.	YEAR / MO / DAY	YEAR / MO / DAY	STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING 92 / 02 / 01	ENDING 92 / 02 / 29	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	-----EFFLUENT 003----- SUSPENDED SOLIDS Eq/l 1st FLTR &q/l 2nd FLTR &q/l NET GRAB WEEKLY WHEN 001N & 001P => 003	EFFLUENT 001N SETTL SOLIDS m/l	EFFLUENT 001 T CHROMIUM ug/l	EFFLUENT 001 COPPER ug/l	EFFLUENT 001 NICKEL ug/l	EFFLUENT 001 ZINC ug/l
--	--	--------------------------------------	------------------------------------	--------------------------------	--------------------------------	------------------------------

FEbruary	*	*	*	*	*	*	*	*	*	*	*	*
1						<0.1						
2						<0.1						
3						<0.1						
4						<0.1						
5						<0.1						
6						<0.1						
7						<0.1						
8						<0.1						
9						<0.1						
10						<0.1						
11						<0.1						
12						<0.1						
13						<0.1						
14						<0.1						
15						<0.1						
16						<0.1						
17						<0.1						
18						<0.1						
19						<0.1						
20						<0.1						
21						<0.1						
22						<0.1						
23						<0.1						
24						<0.1						
25						<0.1						
26						<0.1						
27						<0.1						
28						<0.1						
29						<0.1						
30						<0.1						
31						<0.1						

MONTHLY AVG	NO DISCHARGE	<0.1
MONTHLY HIGH		<0.1
MONTHLY LOW		<0.1

TIMES EXCEEDED NO LIMIT	NO LIMIT	MD AVG 30 = 0	MD AVG 1.0 = 0	6M-MEAN 10 = 0	6M-MEAN 10 = 0	6M-MEAN 30 = 0	6M-MEAN 7v = 0
TIMES EXCEEDED		D MAX 100 = 0	D MAX 3.0 = 0	D MAX 40 = 0	D MAX 50 = 0	D MAX 100 = 0	D MAX 350 = 0
EXCEEDED				I MAX 100 = 0	I MAX 140 = 0	I MAX 260 = 0	I MAX 950 = 0

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

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

*John R. Kremers* 1/16/92

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CALIFORNIA REGIONAL WATER QUALITY  
 CONTROL BOARD  
 CENTRAL COAST REGION  
 1102A LAUREL LANE  
 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 (8) 1

FACILITY I.D.

3 402003001

YEAR / MO / DAY  
 BEGINNING 92 / 02 / 01

YEAR / MO / DAY  
 ENDING 92 / 02 / 29

STATE CODE  
 06

NPDES PERMIT #  
 CA0003751

STATION ANALYSIS	INFLUENT T CHROMIUM	INFLUENT COPPER	INFLUENT NICKEL	INFLUENT AMMONIA (N)	EFFLUENT 001 AMMONIA (N)	EFFLUENT 001D OIL & GREASE	EFFLUENT 001G OIL & GREASE	EFFLUENT 001H OIL & GREASE
UNITS	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SMPL TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
FREQ.	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT

FEVEREY	:	:	:	:	:	:	:	:
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25	(1 (11))	1 (11)	(1 (11))					
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29								
30								
31								

MONTHLY AVG  
 MONTHLY HIGH  
 MONTHLY LOW

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	6M-MEAN 3060 = 0	MD AVG 15 = 0	MD AVG 15 = 0	MD AVG 15 = 0
TIMES EXCEEDED					D MAX 12240 = 0	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0
TIMES EXCEEDED					I MAX 30600 = 0			

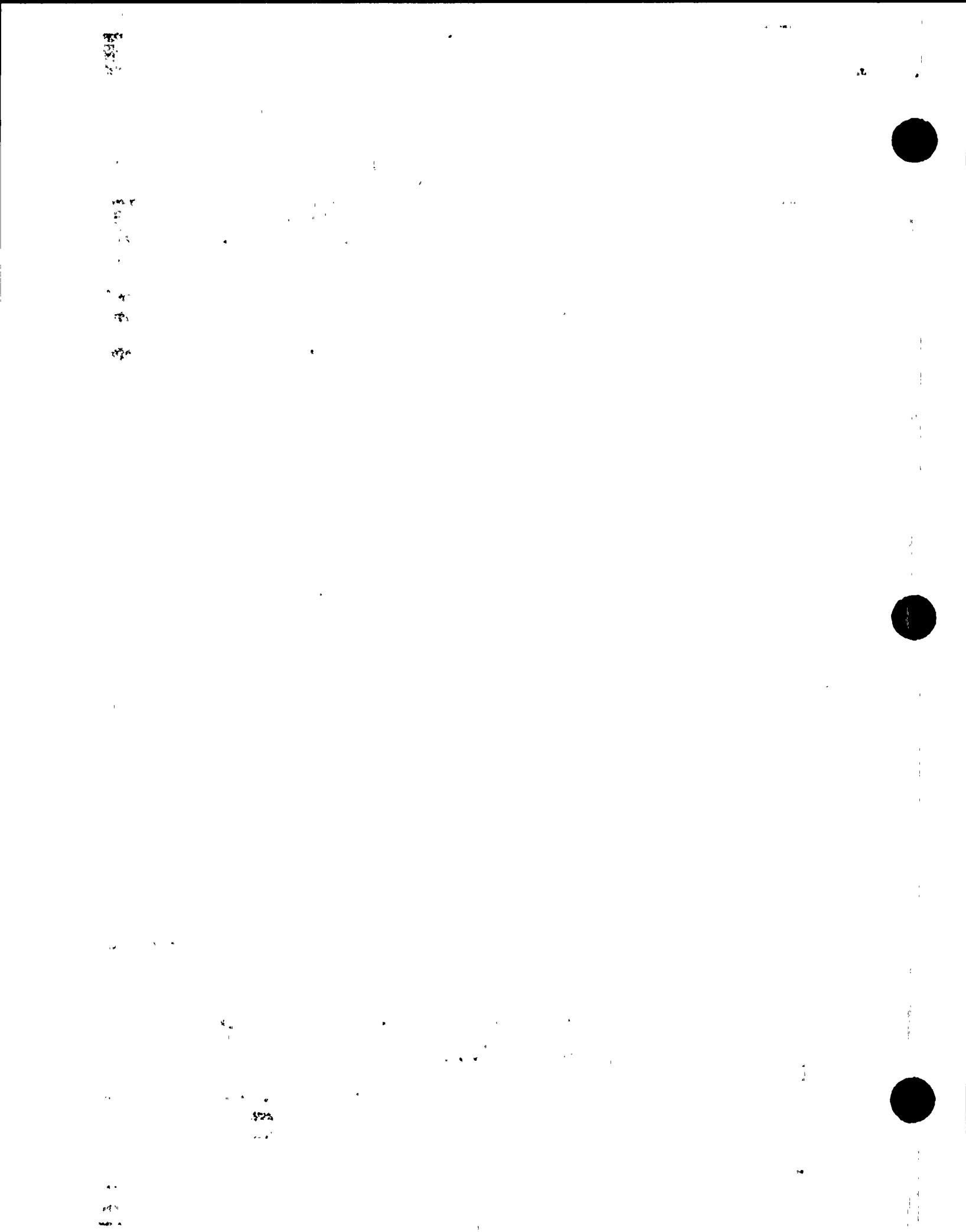
MARKS: (#) Number of Samples taken during the day. (II) Influent metal analysis performed for comparison to effluent analysis.  
 Other quarterly analysis were performed in January.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*John Kremag* 4/6/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
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 (B) 2

FACILITY I.D.  
3 402003001

YEAR / MO / DAY  
BEGINNING 92 / 02 / 01

YEAR / MO / DAY  
ENDING 92 / 02 / 29

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I OIL & GREASE mg/l GRAB	EFFLUENT 001J OIL & GREASE mg/l GRAB	EFFLUENT 001K OIL & GREASE mg/l GRAB	EFFLUENT 001L OIL & GREASE mg/l GRAB	EFFLUENT 001M OIL & GREASE mg/l GRAB	EFFLUENT 001P OIL & GREASE mg/l GRAB	EFFLUENT 002 OIL & GREASE mg/l GRAB	EFFLUENT 003 OIL & GREASE mg/l GRAB
FEBRUARY	\$	\$	\$	\$	\$	\$	\$	\$
1								
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31								
MONTHLY AVG					5			
MONTHLY HIGH					8			
MONTHLY LOW					(3)			
TIMES EXCEEDED	MD AVG 15 = 0	MD AVG 15 = 0	MD AVG 15 = 0					
TIMES EXCEEDED	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0					
TIMES EXCEEDED								D MAX 20 = 0

MARKS: (\*) Number of Samples taken during the day. Discharge 001M analyzed to satisfy quarterly requirements. Other parameters were analyzed in January.

PRINCIPAL EXECUTIVE OFFICER

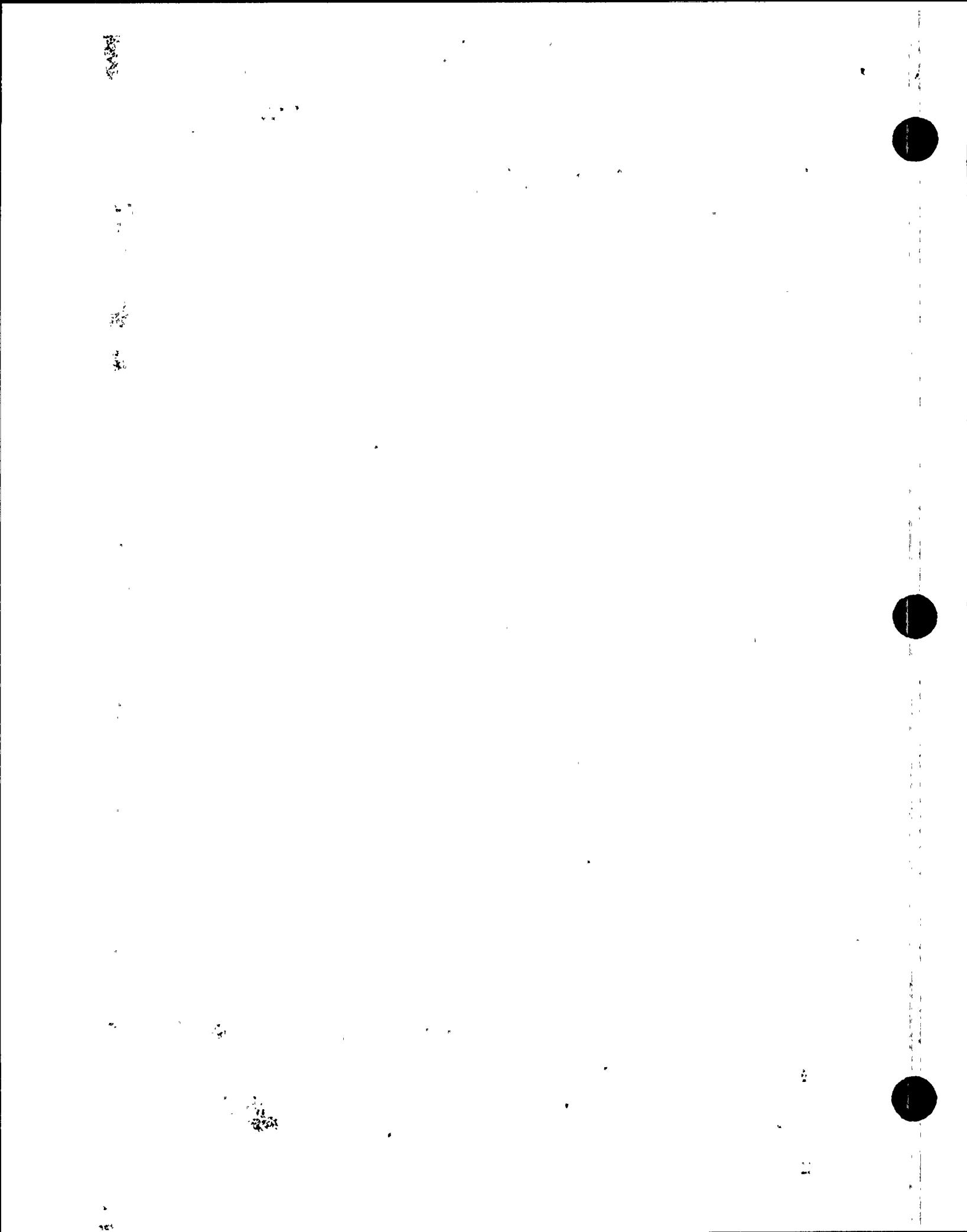
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Joe Frenney

4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1147A LAUREL LANE  
LIS 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 (A) 1

FACILITY I.D.		YEAR/ MO / DAY		YEAR/ MO /DAY		STATE CODE	NPDES PERMIT #
	3 402003001	BEGINNING	92 / 02 / 01	ENDING	92 / 02 / 29	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001 TITANIUM ug/l GRAB OCTOBER	INFLUENT ARSENIC ug/l GRAB OCTOBER	EFFLUENT ARSENIC ug/l GRAB OCTOBER	INFLUENT CADMIUM ug/l GRAB OCTOBER	EFFLUENT 001 CADMIUM ug/l GRAB OCTOBER	INFLUENT LEAD ug/l GRAB OCTOBER	EFFLUENT 001 LEAD ug/l GRAB OCTOBER	INFLUENT ZINC ug/l GRAB OCTOBER
--	---	--	--	--	--	---	---	---

FEBRUARY	*	*	*	*	*	*	*	*	*	*	*
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29											
30											
31											

MONTHLY AVE											
MONTHLY HIGH											
MONTHLY LOW											

TIMES EXCEEDED	ND LIMIT	6M-MEAN 30 =0	ND LIMIT	6M-MEAN 10 =0	ND LIMIT	6M-MEAN 10 =0
	D MAX 150 =0	D MAX 20 =0	D MAX 40 =0	I MAX 50 =0	I MAX 100 =0	
(1)	I MAX 400 =0					

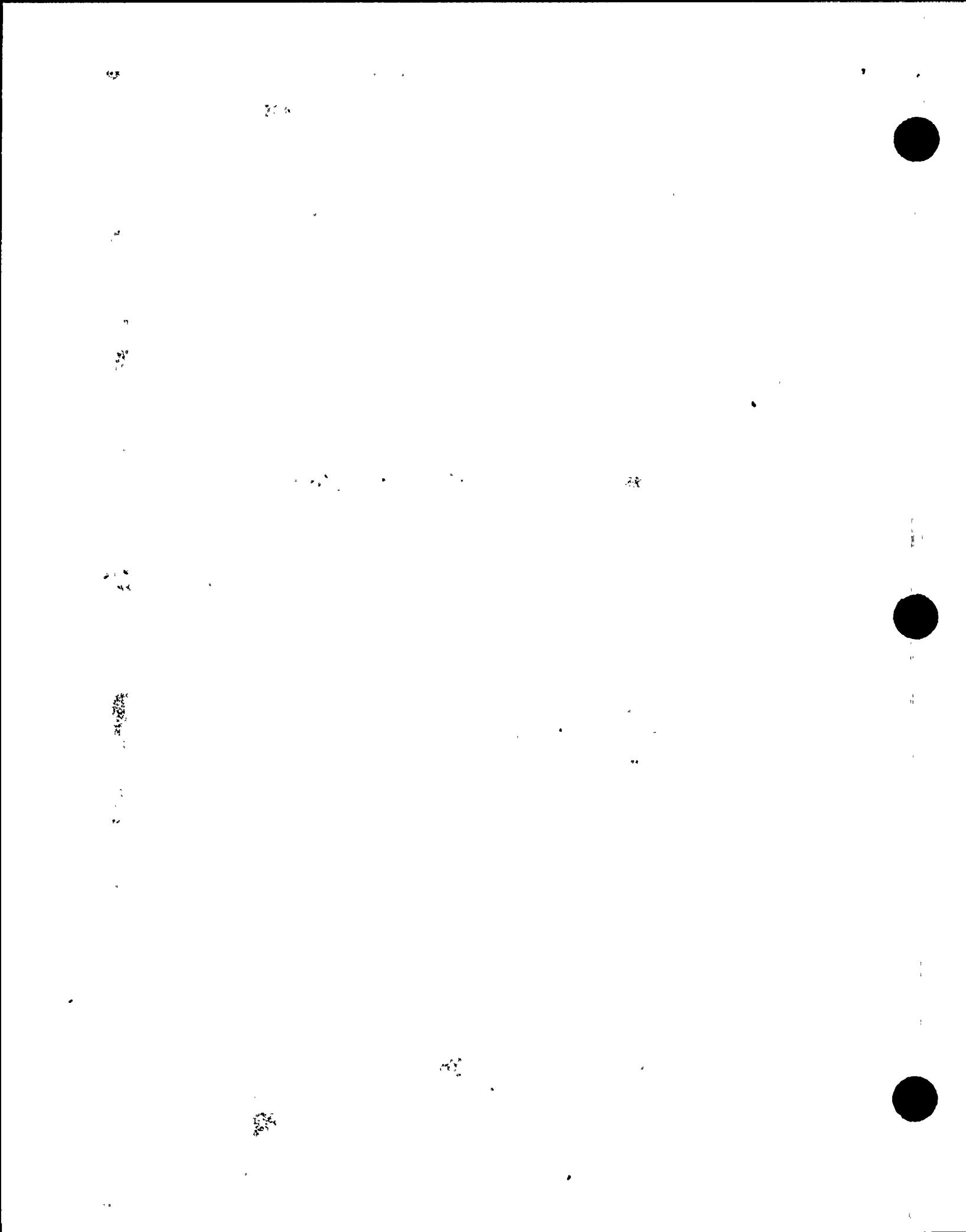
REMARKS: (1) Number of Samples taken during the day. (11) Influent Zinc analyses performed to compare with effluent analyses. All other annuals will be performed in October.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

Jack Kremers 4/16/92



Unit: 0 NPDES  
001 EFFLUENT CHLORINATION

From: 2/01/92 0:01  
Through: 2/29/92 23:59

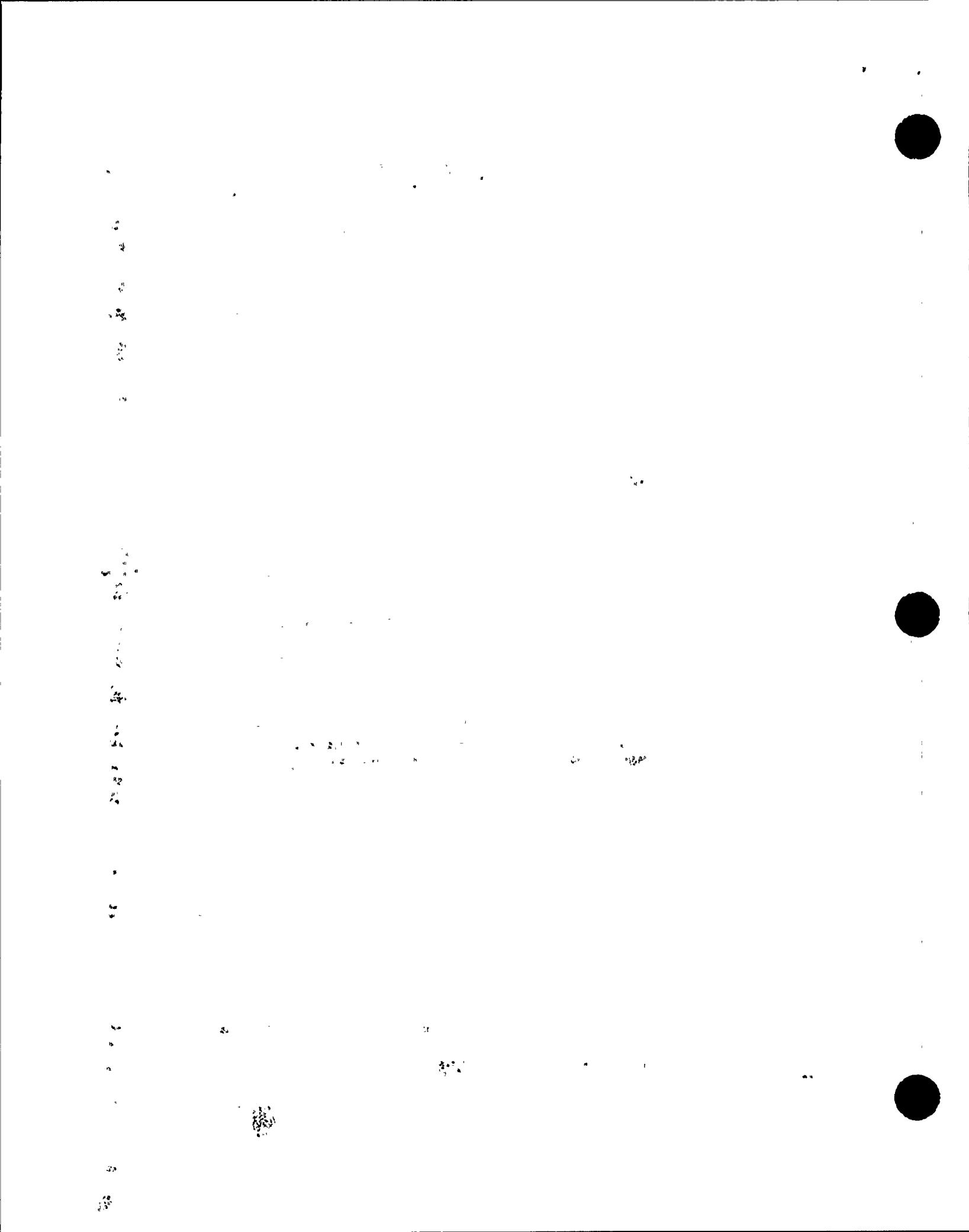
Parameter:	CWP 1-1 1ST TOTAL	CWP 1-1 2ND TOTAL	CWP 1-2 1ST TOTAL	CWP 1-2 2ND TOTAL	CWP 2-1 1ST TOTAL	CWP 2-1 2ND TOTAL	CWP 2-2 1ST TOTAL	CWP 2-2 2ND TOTAL
High Limit:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Low Limit:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Sample Time:	PPM							
2/03/92 11:00			<0.02	<0.02	<0.02	<0.02	<0.02	0.06
2/04/92 10:00	0.06	0.12	0.11	0.11	0.04	0.09	0.05	0.08
2/05/92 10:00	<0.02	<0.02	<0.02	0.12	0.11	0.08	0.05	0.15
2/06/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/07/92 10:00	0.03	0.03	<0.01	0.05	<0.01	<0.01	0.04	<0.01
2/11/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/12/92 10:00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/13/92 10:00	0.06	0.11	0.05	0.03	<0.02	<0.02	0.08	0.07
2/14/92 10:00	0.04	0.05	0.08	0.07	0.02	0.05	0.05	0.07
2/18/92 10:00	0.04	0.03	0.09	0.09	0.08	0.09	0.09	0.09
2/19/92 10:00	0.06	<0.02	0.04	0.06	0.06	0.06	0.05	0.06
2/20/92 10:00	0.04	0.02	0.06	0.05	0.06	0.11	0.05	0.10
2/21/92 10:00	0.03	0.10	0.13	0.14	0.14	0.13	0.12	0.14
2/24/92 10:00	0.03	0.10	0.24	0.19	<0.02	0.14		

NOTE: Individual sample results for Total Residual Chlorine (TRC) are adjusted by the following formula to account for dilution by the unchlorinated Circulating Water Pumps on the opposite operating Unit. It is assumed that no chlorine demand exists in the seawater:

$$\text{ppm TRC} \times \frac{\# \text{ of operating pumps on chlorinated Unit}}{\# \text{ of operating pumps for both Units}}$$

The daily average TRC value reported on the Q2 forms is the average of the adjusted TRC results for the day, which could include up to eight individual results (two analyses per chlorination cycle for a maximum of 4 cycles per day)

NOTE: The results for CWP 2-1 on 2-24-92 represent analyses performed on an amperometric titrator. The 500 ppm TRC valve discussed in the Overview section of this report was obtained using an Orion 1770 on-line TRC monitor.



PACIFIC GAS & ELECTRIC - DIABLO CANYON POWER PLANT  
 SANITARY WASTEWATER TREATMENT SYSTEM  
 CONTRACT # Z78-2104-86

(REV. 5/90)

Sanitation and Operation Consultants, INC.  
 16340 E. Maple Grove Street  
 La Puente, CA 91744

Pacific Gas and Electric Co.  
 Contacts:  
 Randy Falcke (805) 595-4362  
 John Knebeler (805) 595-4472

CONSTITUENTS	UNITS	FREQ.	LIMITS		SAMPLE		RESULTS
			MONTHLY AVERAGE	DAILY MAX	DATE	TIME	
1. GREASE & OIL	mg/l	WEEKLY	15	20	2-8	8:12	4 mg/l Ave of 3
2. "	mg/l	"	15	20	2-14	12:08	4.7 mg/l " " "
3. "	mg/l	"	15	20	2-20	12:35	3.7 mg/l " " "
4. "	mg/l	"	15	20	2-24	8:22	4.3 mg/l " " "
5. "	mg/l	"	15	20			
1. SUSPENDED SLDs	mg/l	WEEKLY	60	N/A	2-8	7:56	22 mg/l
2. "	mg/l	"	60	N/A	2-14	12:10	44 mg/l
3. "	mg/l	"	60	N/A	2-20	12:13	32 mg/l
4. "	mg/l	"	60	N/A	2-24	8:14	10 mg/l
5. "	mg/l	"	60	N/A			
1. SETTLEABLE SLD	ml/l	WEEKLY	1.0	3.0	2-8	8:04	< 0.1 ml/l
2. "	ml/l	"	1.0	3.0	2-14	12:10	1.0 ml/l
3. "	ml/l	"	1.0	3.0	2-20	12:34	< 0.1 ml/l
4. "	ml/l	"	1.0	3.0	2-24	8:20	< 0.1 ml/l
5. "	ml/l	"	1.0	3.0			

NOTE:

- ANALYSIS RESULTS ABOVE THE MONTHLY AVERAGE SHALL BE REPORTED VERBALLY, WITHIN 8 HOURS, TO A PG&E CONTACT LISTED ABOVE.
- GAO AND SUSP. SLDs. SAMPLES ARE COMPOSITES DURING 1 DISCHARGE CYCLE.

COMMENTS:

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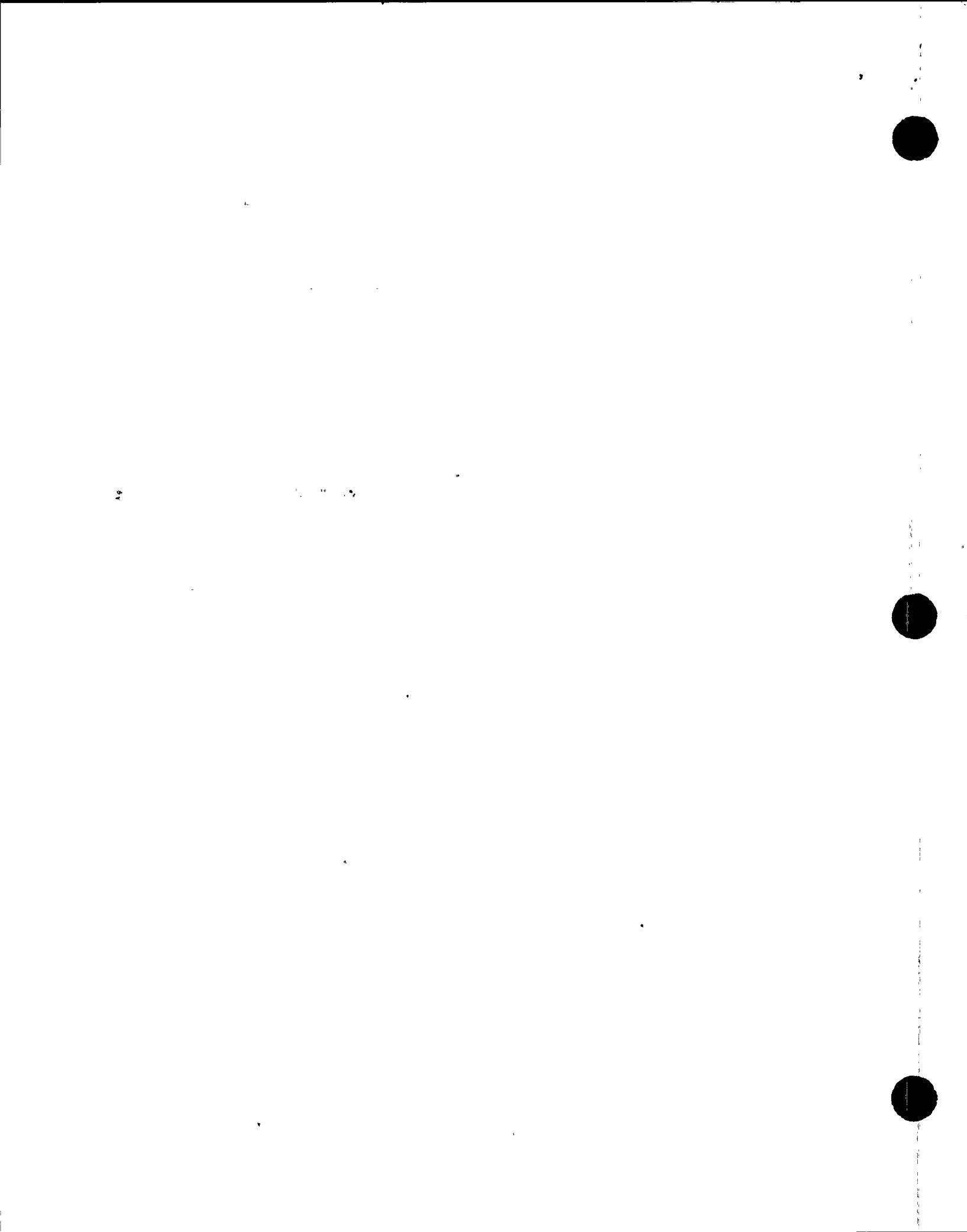


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SLUDGE DISPOSAL DATA

MONTH REMOVED	VOLUME REMOVED	WEIGHT REMOVED	DISPOSAL SITE
FEBRUARY 92		1876 lbs	WALSH NIPOMO

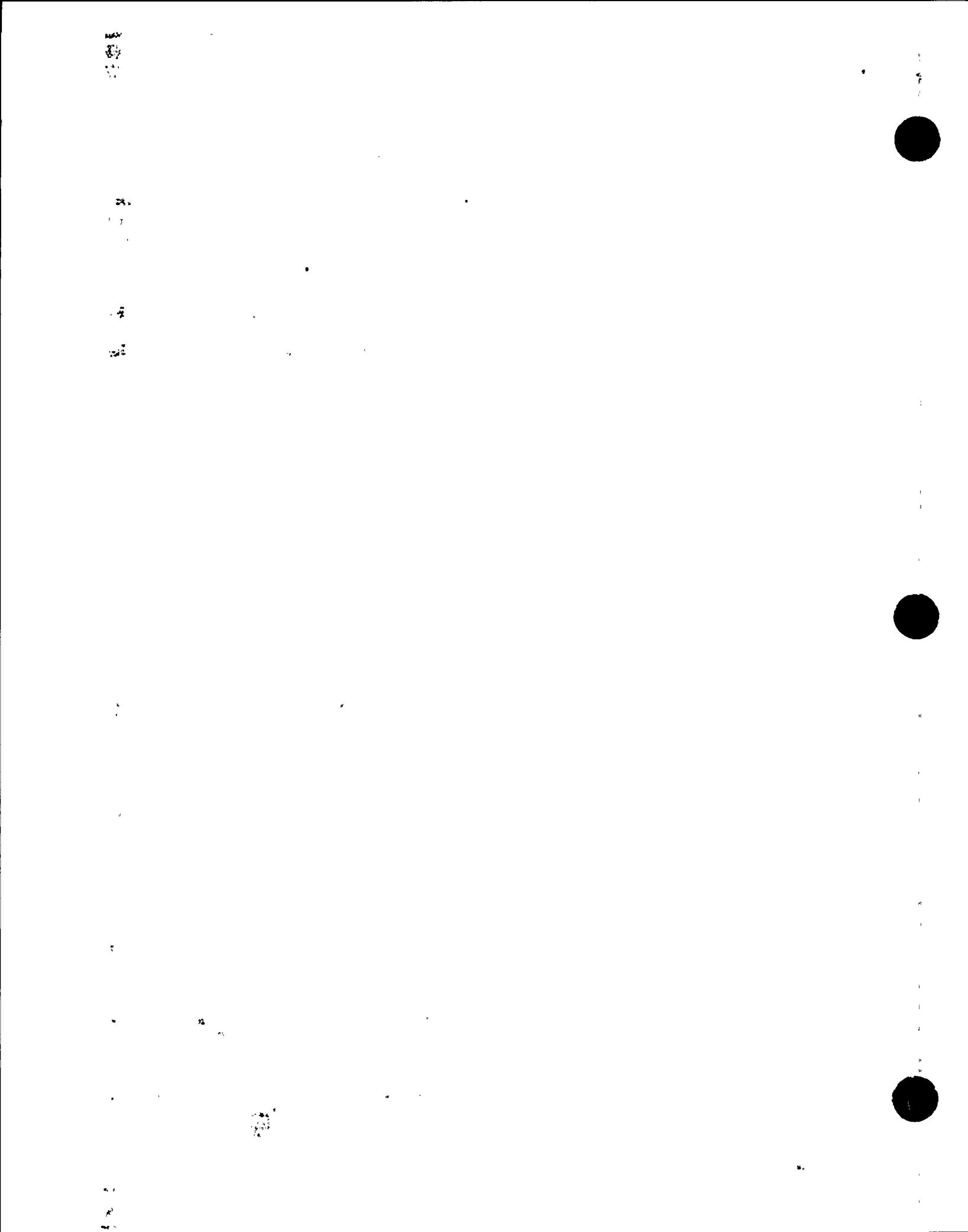
DATA SHEET COMPLETED BY: *Meredith Bealey* DATE: 3-4-92



**APPENDIX 3**

**Influent and Effluent Monitoring**

**March 1992**



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
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 (M) 1

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 03 / 01 / 92

YEAR/ MO /DAY  
ENDING 92 / 03 / 31

STATE CODE  
06  
NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	DELTA TEMP TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLOW MGD RECORDED DAILY	INFLUENT pH pH UNITS GRAB MONTHLY	EFFLUENT 001 pH pH UNITS GRAB MONTHLY (***)	EFFLUENT 001P pH pH UNITS GRAB MONTHLY	EFFLUENT 002 pH pH UNITS GRAB MONTHLY
MARCH								
1	58.8	77.7	18.9	2555				
2	58.7	77.5	18.8	2554				
3	58.7	77.7	19.0	2557				
4	58.4	77.4	19.0	2524				
5	58.4	77.1	18.7	2557				
6	58.8	68.2	9.4	2505				
7	56.8	71.3	12.5	2017				
8	58.6	71.0	12.2	2046				
9	57.5	68.1	10.6	2085				
10	56.9	76.0	19.1	2555				
11	56.2	75.3	19.1	2555				
12	56.9	77.8	18.9	2555				
13	56.5	77.4	18.9	2555				
	59.3	74.0	14.7	2554				
	59.6	77.6	18.8	2557				
15	56.6	75.7	18.9	2554				
17	56.7	75.0	18.9	2554				
18	57.8	76.9	19.1	2554				
19	56.0	77.3	19.3	2554				
20	56.4	78.0	19.6	2554				
21	59.0	78.7	19.7	2554				
22	56.3	71.2	12.9	2554				
23	59.1	72.0	12.9	2153				
24	59.3	72.2	12.9	1764				
25	59.3	78.4	19.1	1598				
26	59.5	72.2	12.7	1955				
27	59.2	68.5	9.3	2554				
28	59.3	75.5	16.2	2554				
29	59.7	78.3	18.6	2554				
30	57.8	76.4	18.6	2554				
31	57.8	76.3	18.5	2554				
MONTHLY AVG	58.4	75.1	16.6	2414				6.1
MONTHLY HIGH	59.7	78.7	19.7	2557				6.1
MONTHLY LOW	56.2	68.1	9.3	1598				6.1

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MAX 22 = 0	MAX 2760 = 0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED			(***)					
TIMES EXCEEDED								

(\*\*\*) Number of Samples taken during the day. (\*\*) Except During Deaerating.

(\*\*\*) Daily when discharging chemical cleaning wastes from discharges 001D, F, I, L and/or M.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*Jeff Kremey* 4/16/92

1

2

3

4

5

6

7

8

9

10

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 (M) 2

FACILITY I.D.		YEAR / MO / DAY			YEAR / MO / DAY			STATE CODE	NPDES PERMIT #	
		BEGINNING 03 / 01 / 92			ENDING 92 / 03 / 31			06	CA0003751	
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 pH UNITS GRAB MONTHLY	EFFLUENT 004 pH UNITS GRAB MONTHLY	EFFLUENT 001N OIL & GREASE COMPOSITE WEEKLY	EFFLUENT 001P OIL & GREASE GRAB WEEKLY (11)	EFFLUENT 003 OIL & GREASE GRAB WEEKLY (111)	EFFLUENT 001F OIL & GREASE GRAB MONTHLY	EFFLUENT 001 T CHLOR RES GRAB 2 per CYCLE	EFFLUENT 001 CHLORINE USED lbs/day RECORDED MONTHLY		
MARCH	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
MONTHLY AVE			13		NO DISCHARGE	NO DISCHARGE		31		229
MONTHLY HIGH			19					50		266
MONTHLY LOW			8					19		162
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	I MAX 200 =0	NO LIMIT		
TIMES EXCEEDED			D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0			
TIMES EXCEEDED										

(1) Number of Samples taken during the day.

(11) When 001N is discharging to 001F. (111) When 001P is discharging to 003.

PRINCIPAL EXECUTIVE OFFICER

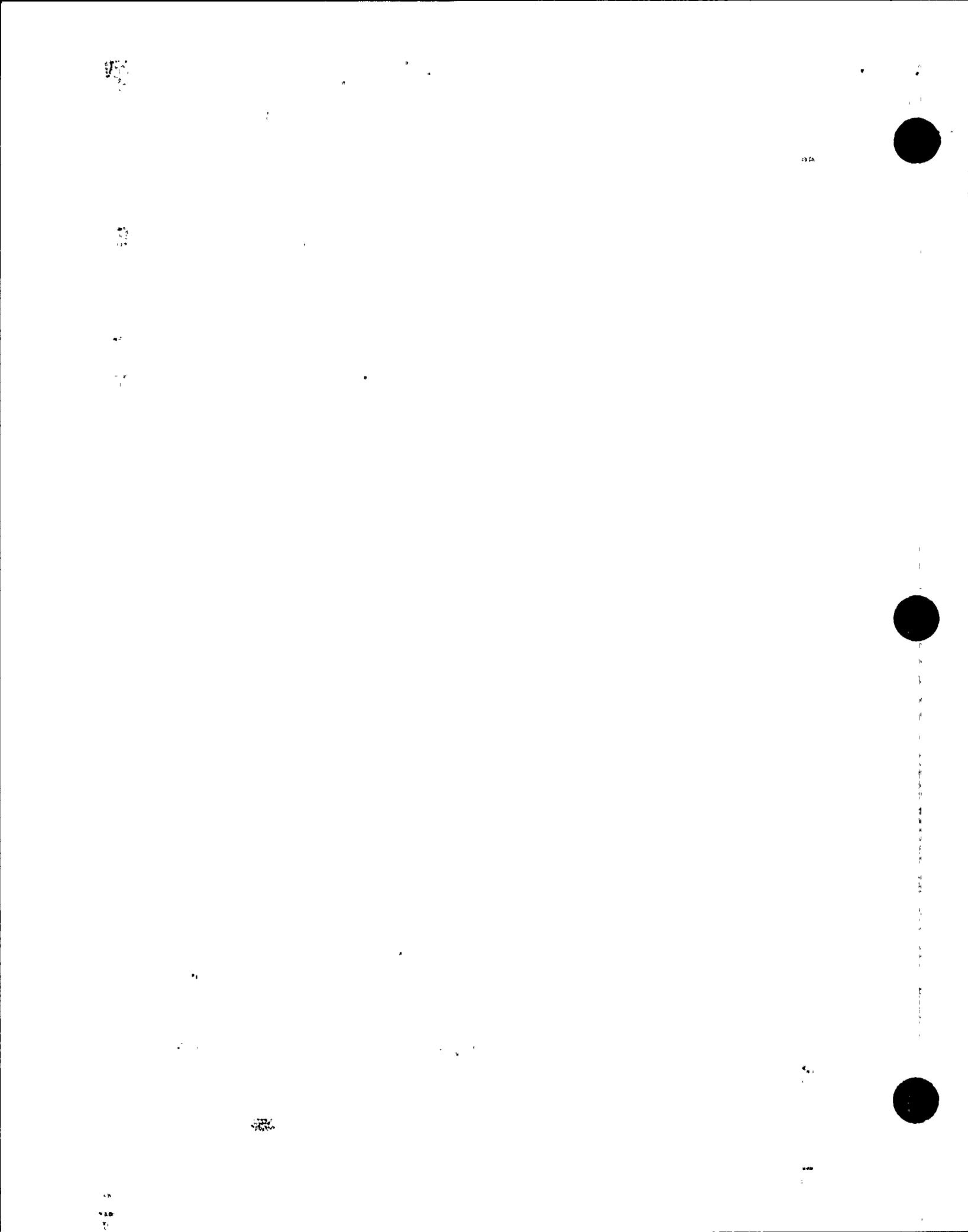
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kremeyn

4/14/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAUREL LANE  
SACRAMENTO, CALIFORNIA 95814

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 3

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 03 / 01 / 92

YEAR/ MO /DAY  
ENDING 92 / 03 / 31

STATE CODE  
06  
NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFF 001N=>003	EFF 001N=>003	-----EFFLUENT 001D-----			-----EFFLUENT 001F-----		
	TOTAL COLIFORM	FECAL COLIFORM	SUSPENDED SOLIDS	SUSPENDED SOLIDS				
	MPN/100mL	MPN/100mL	<1	<1	<1	<1	<1	<1
	GRAB	GRAB	GRAB	GRAB	MONTHLY	GRAB	GRAB	MONTHLY
MARCH	4 TIMES/WEEK	4 TIMES/WEEK						
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 AVE	NO DISCHARGE	NO DISCHARGE						
MONTHLY HIGH								
MONTHLY LOW								
TIMES EXCEEDED	80% SMPLS>1K =0	MEAN>200=0 90% SMPLS>400 =0	NO LIMIT	NO LIMIT	NO AVG 30= 6 D MAX 100 =0	NO LIMIT	NO LIMIT	NO AVG 30 = D MAX 100 =
(1) EXCEEDED	1 MAX >10K=0	=0						

REMARKS: \_(\*)\_Number\_of\_Samples\_taken\_during\_the\_day.

PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF AUTHORIZED AGENT | DATE

John Kremmer 4/16/

54

✓  
100

CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAUREL LAKE  
VIS 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 (M) 4

FACILITY I.D. YEAR/ MO / DAY STATE CODE NPDES PERMIT #  
3 402003001 BEGINNING 03 / 01 / 92 ENDING 92 / 03 / 31 06 CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 0016			EFFLUENT 0018		
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY
MARCH						
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 AVS						
MONTHLY HIGH						
MONTHLY LOW						

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

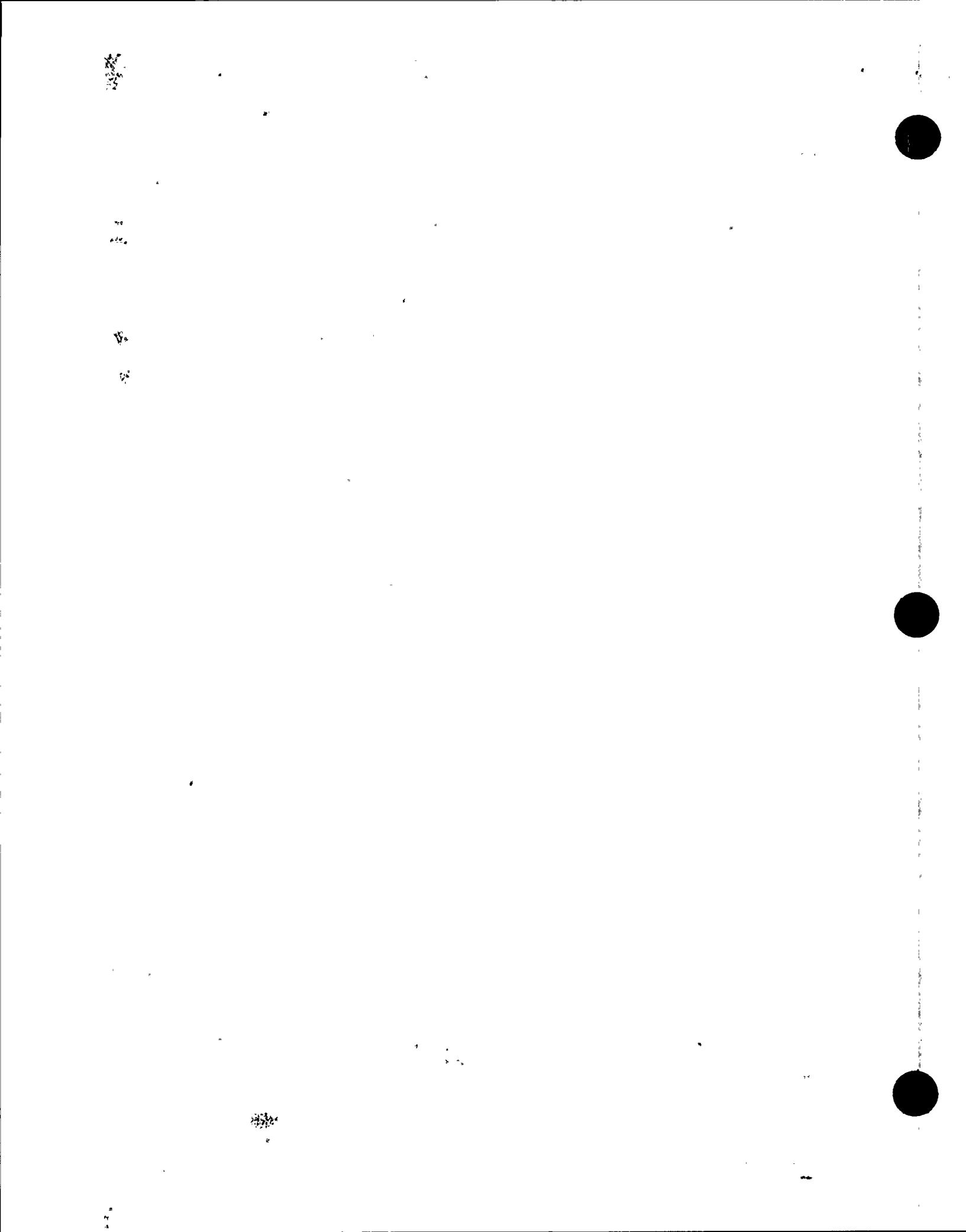
REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

Jack Fennigan 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
LAUREL LANE  
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 (X) 5

FACILITY I.D. YEAR/ MD / DAY STATE CODE NPDES PERMIT #  
3 402003001 BEGINNING 03 / 01 / 92 ENDING 92 / 03 / 31 06 CR0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I-----			EFFLUENT 001J-----		
	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET
	GRAB	GRAB		GRAB	GRAB	
	MONTHLY	MONTHLY		MONTHLY	MONTHLY	
MARCH						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG  
MONTHLY HIGH  
MONTHLY LOW

NO DISCHARGE

TIMES EXCEEDED NO LIMIT  
NO MAX 100 =0  
TIMES EXCEEDED NO LIMIT  
NO MAX 100 =0  
(X) EXCEEDED NO LIMIT  
NO MAX 100 =0

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

PRINCIPAL EXECUTIVE OFFICER

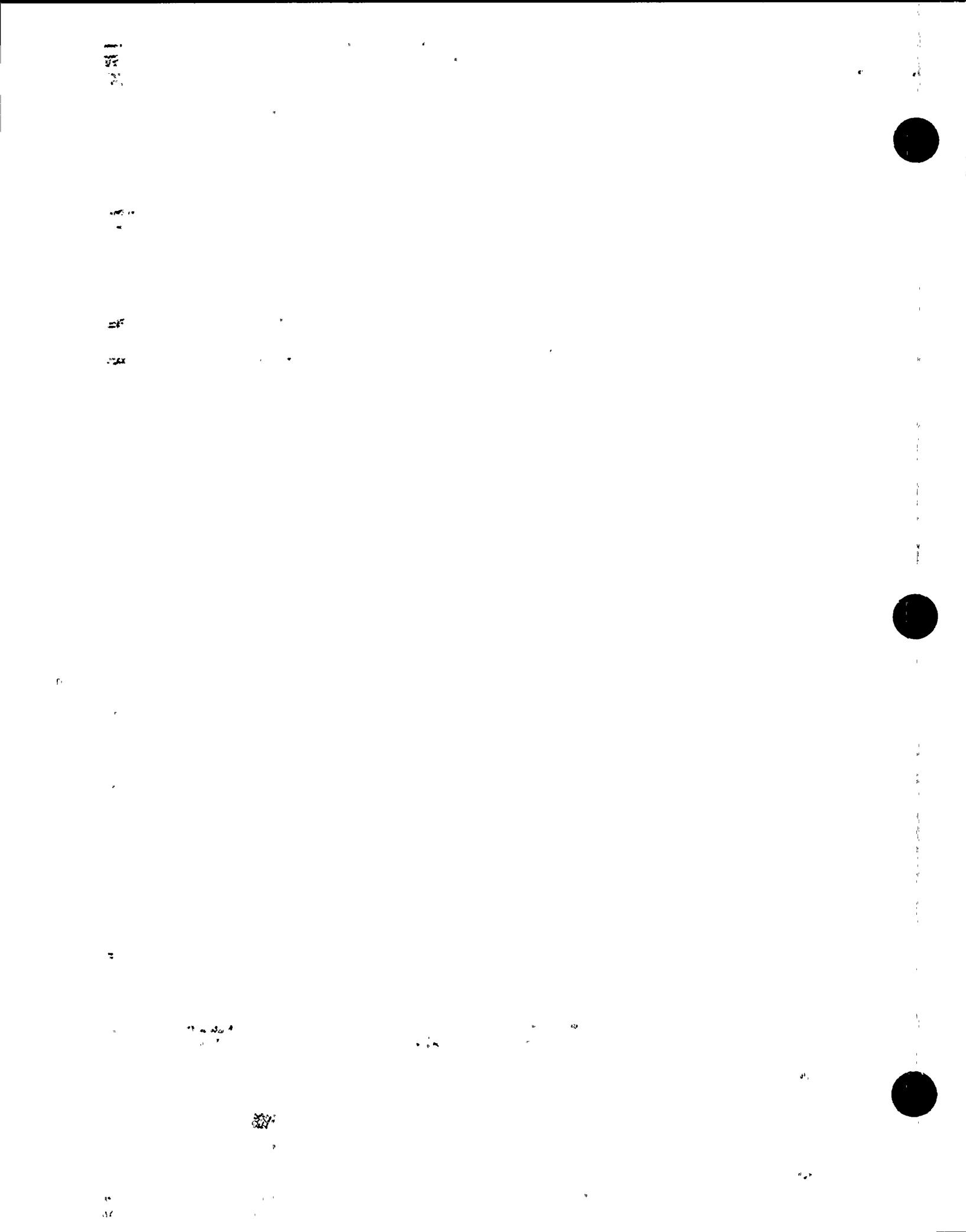
JAMES R. CHAFFEE

SIGNATURE OF AUTHORIZED AGENT

DATE

John K. Cremer

4/16/93



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
AVIS DBISPD, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (K) 6

FACILITY I.D.	YEAR/ MD / DAY	YEAR/ MG /DAY	STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING 03 / 01 / 92	ENDING 92 / 03 / 31	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001K-----			EFFLUENT 001L-----		
	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR	SUSPENDED SOLIDS mg/l NET GRAB MONTHLY	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR	SUSPENDED SOLIDS mg/l NET GRAB MONTHLY
MARCH	1	1	1	1	1	1
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			2		
MONTHLY HIGH				3		
MONTHLY LOW				<1		
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO LIMIT	NO LIMIT	NO AVG 30 =0
TIMES EXCEEDED			D MAX 100 =0			D MAX 100 =0
EXCEEDED						

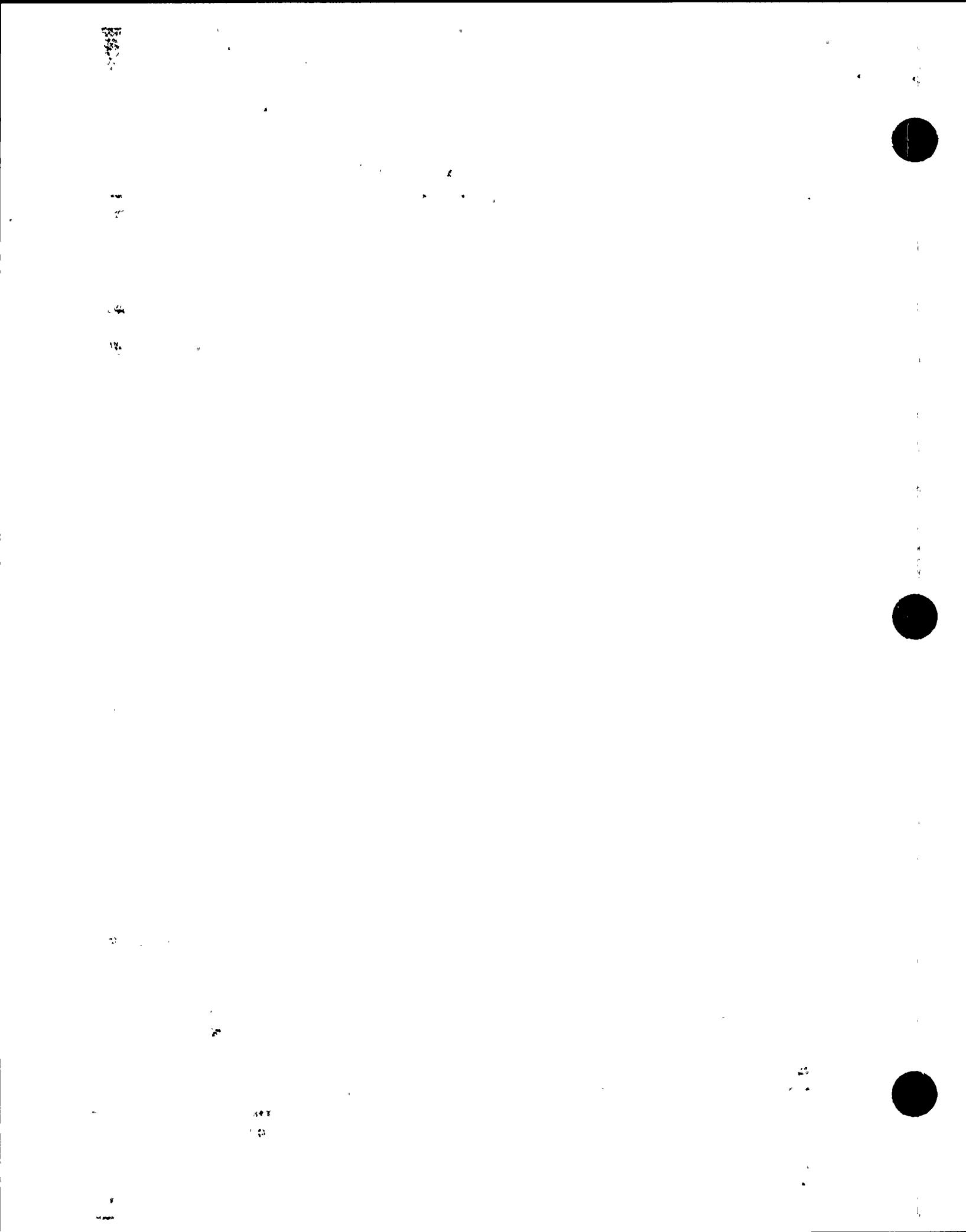
REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*Jack Fennelly* 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
P. O. BOX 58  
LA JOLLA, CALIF. 92038

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF. 93424  
PAGE (M) 7

FACILITY I.D.	YEAR / MO / DAY	YEAR / MO / DAY	STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING 03 / 01 / 92	ENDING 92 / 03 / 31	06	CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001H			EFFLUENT 001N			EFFLUENT 001P		
	SUSPENDED SOLIDS	SUSPENDED SLDs	SUSPENDED SOLIDS	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET
	GRAB	COMPOSITE	GRAB			GRAB			
	MONTHLY	WEEKLY	MONTHLY			MONTHLY			
MARCH									
1									
2									
3									
4									
5									
6									
7	7	(1)	7			8			
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30	4	(1)	4			64		46	18
31									
MONTHLY AVG	6	(1)	6	29					
MONTHLY HIGH	7	(1)	7	54					
MONTHLY LOW	4	(1)	4	8					

TIMES EXCEEDED NO LIMIT	NO LIMIT	MD AVG 30 = 0	MD AVG 60 = 0	NO LIMIT	NO LIMIT	MD AVG 30 = 0
TIMES EXCEEDED		D MAX 100 = 0				D MAX 100 = 0
TIMES EXCEEDED						

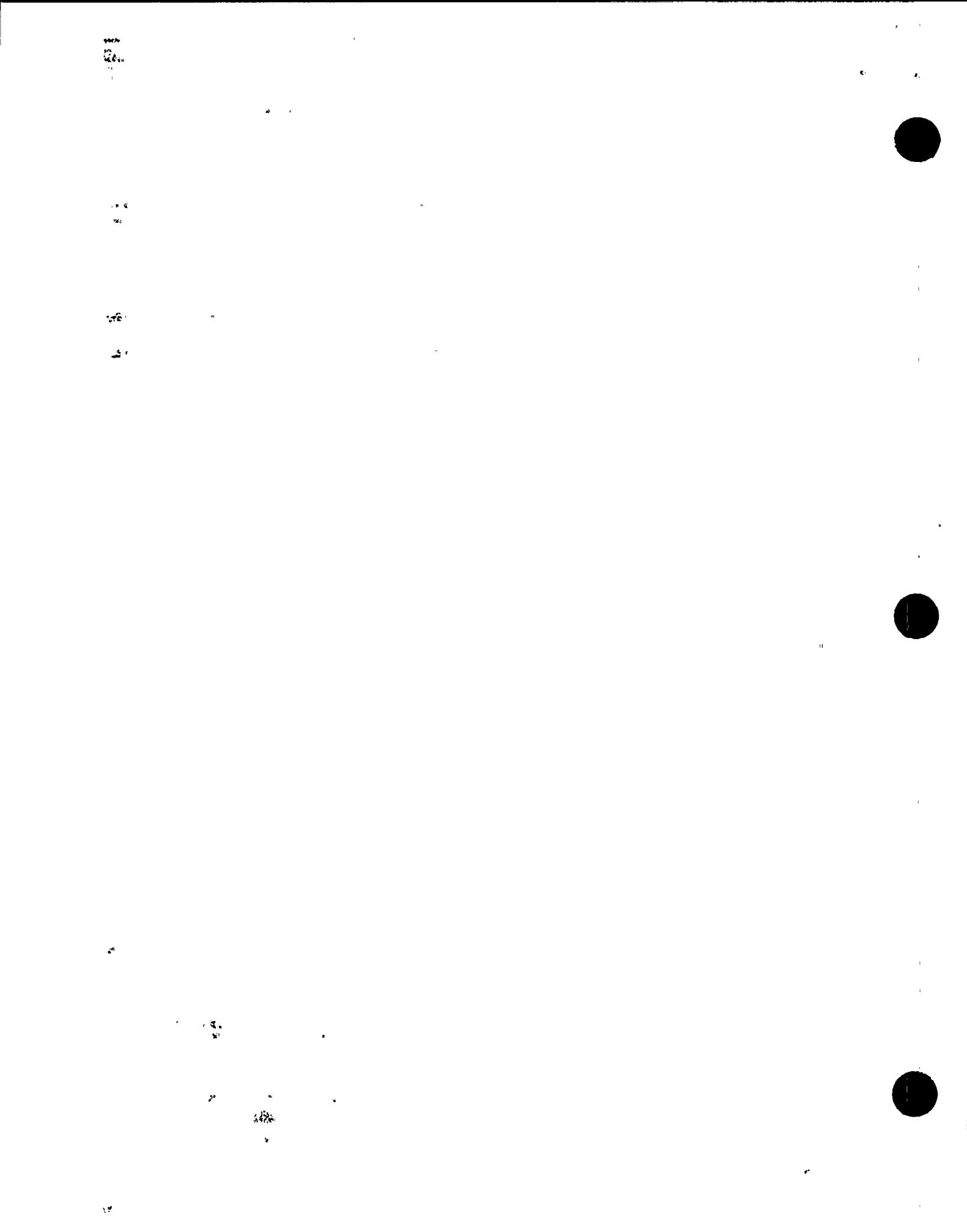
MARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

*Jack Kremay* 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
VIS BISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (M) 8

FACILITY I.D. YEAR/ MO / DAY STATE CODE NPDES PERMIT #  
3 402003001 BEGINNING 03 / 01 / 92 ENDING 92 / 03 / 31 06 CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 002			EFFLUENT 003		
	SUSPENDED SOLIDS	SUSPENDED SOLIDS	GRAB	GRAB	MONTHLY	MONTHLY
MARCH						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15	15	10	2	5	26	20
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
MONTHLY AVG				5		
MONTHLY HIGH				5		
MONTHLY LOW				5		
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO LIMIT	NO LIMIT	NO AVG 30 =0
TIMES EXCEEDED			I MAX 100 =0			I MAX 100 =0
TIMES EXCEEDED						

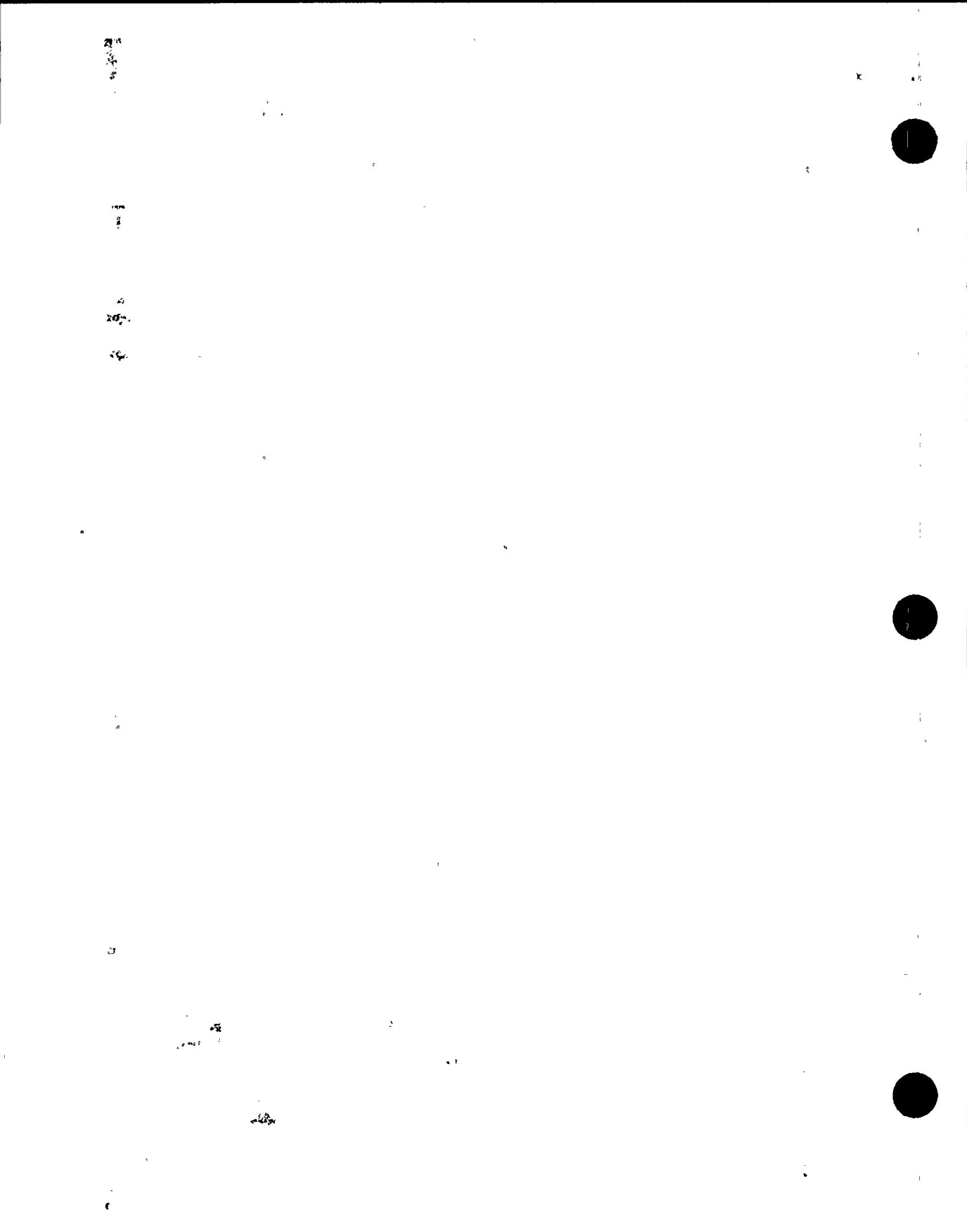
N.B.: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

[Signature] 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
MIS DBISFD.CA 93403

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE NO 9

FACILITY I.D.  
3 402003001

YEAR/ MO / DAY  
BEGINNING 03 / 01 / 92

YEAR/ MO /DAY  
ENDING 92 / 03 / 31

STATE CODE  
06

NPDES PERMIT #  
CA0603751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003		EFFLUENT 001N	EFFLUENT 001	EFFLUENT 001	EFFLUENT 001	EFFLUENT 001
	ug/l	1st FLTR	SETTL SOLIDS	T CHROMIUM	COPPER	NICKEL	ZINC
WEEKLY	WEEKLY WHEN 001N & 001P => 003		GRAB	GRAB	GRAB	GRAB	GRAB
MARCH	\$	\$	\$	\$	\$	\$	\$
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
MONTHLY AVG	NO DISCHARGE		<.1				
MONTHLY HIGH	<.1						
MONTHLY LOW	<.1						
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO AVG 1.0 =0	6M-MEAN 10 =0	6M-MEAN 30 =0	6M-MEAN 70 =0
TIMES EXCEEDED			D MAX 100 =0	D MAX 3.0 =0	D MAX 40 =0	D MAX 50 =0	D MAX 100 =0
TIMES EXCEEDED					I MAX 100 =0	I MAX 140 =0	I MAX 200 =0
						I MAX 590 =0	

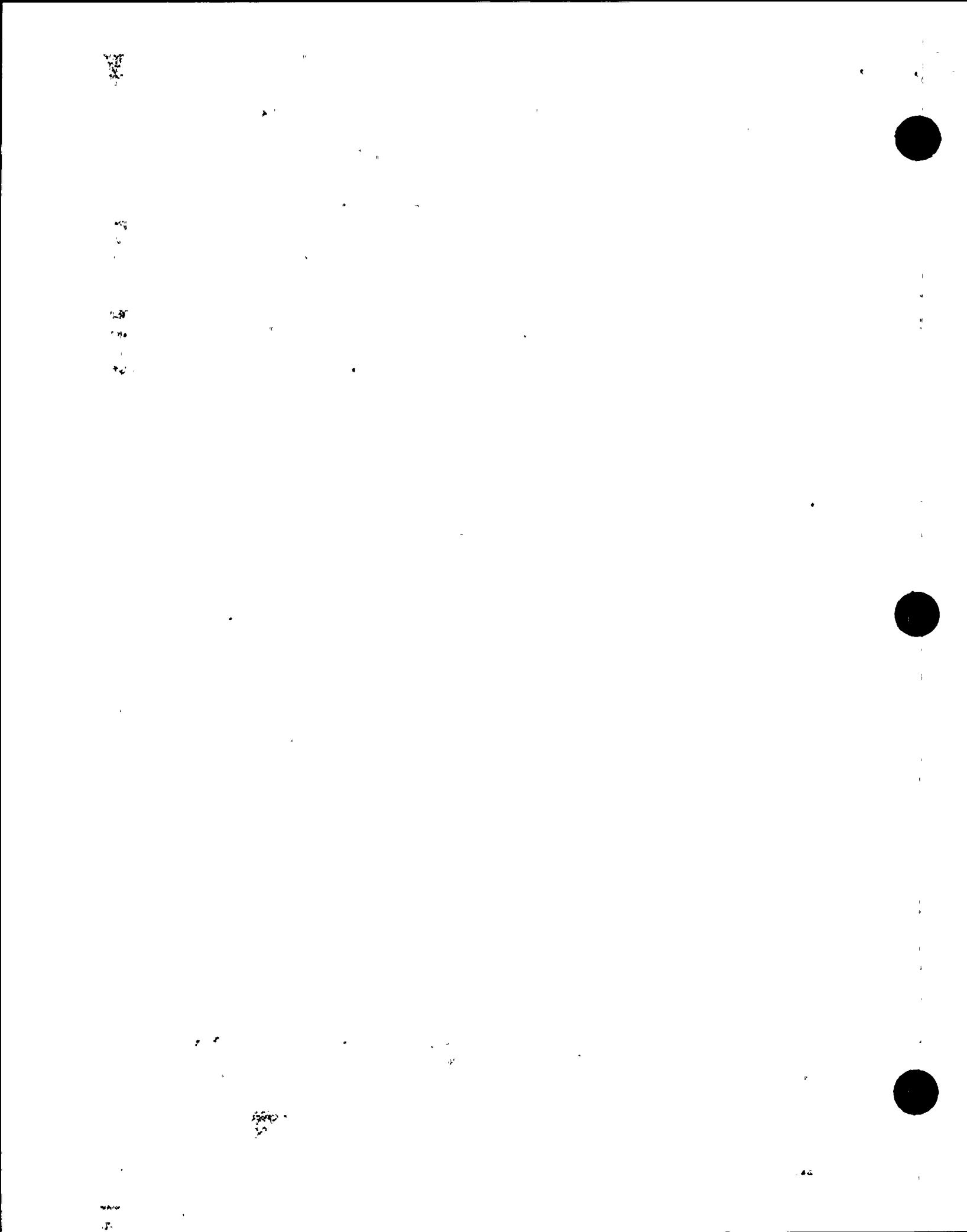
REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

John R. Kremey 4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
AUREL LANE  
P.O. BOX 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (8) 1

FACILITY I.D.		YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #
	3 402003001	BEGINNING	03 / 01 / 92	ENDING	92 / 03 / 31	06	CA0003751

STATION ANALYSIS UNITS	INFLUENT T CHROMIUM ug/l	INFLUENT COPPER ug/l	INFLUENT NICKEL ug/l	INFLUENT AMMONIA (N) ug/l	EFFLUENT 001 AMMONIA (N) ug/l	EFFLUENT 001D OIL & GREASE ug/l	EFFLUENT 001E OIL & GREASE ug/l	EFFLUENT 001H OIL & GREASE ug/l
SMPL TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
FREQ.	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT	JA/AP/JUL/OCT

MARCH	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1												
2												
3												
4												
5												
6												
7												
8												
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12												
13												
14												
15												
16												
17												
18												
19												
20	(1) (ii)	(1) (ii)	(1) (ii)									
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

MONTHLY AVE

MONTHLY HIGH

MONTHLY LOW

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	6M-MEAN 3060 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0
EXCEEDED					D MAX 12240 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0
EXCEEDED					I MAX 30600 =0			

REMARKS: (i) Number of Samples taken during the day. (ii) Influent metal analysis performed for comparison to effluent analysis. Other quarterly analyses were performed in January.

PRINCIPAL EXECUTIVE OFFICER

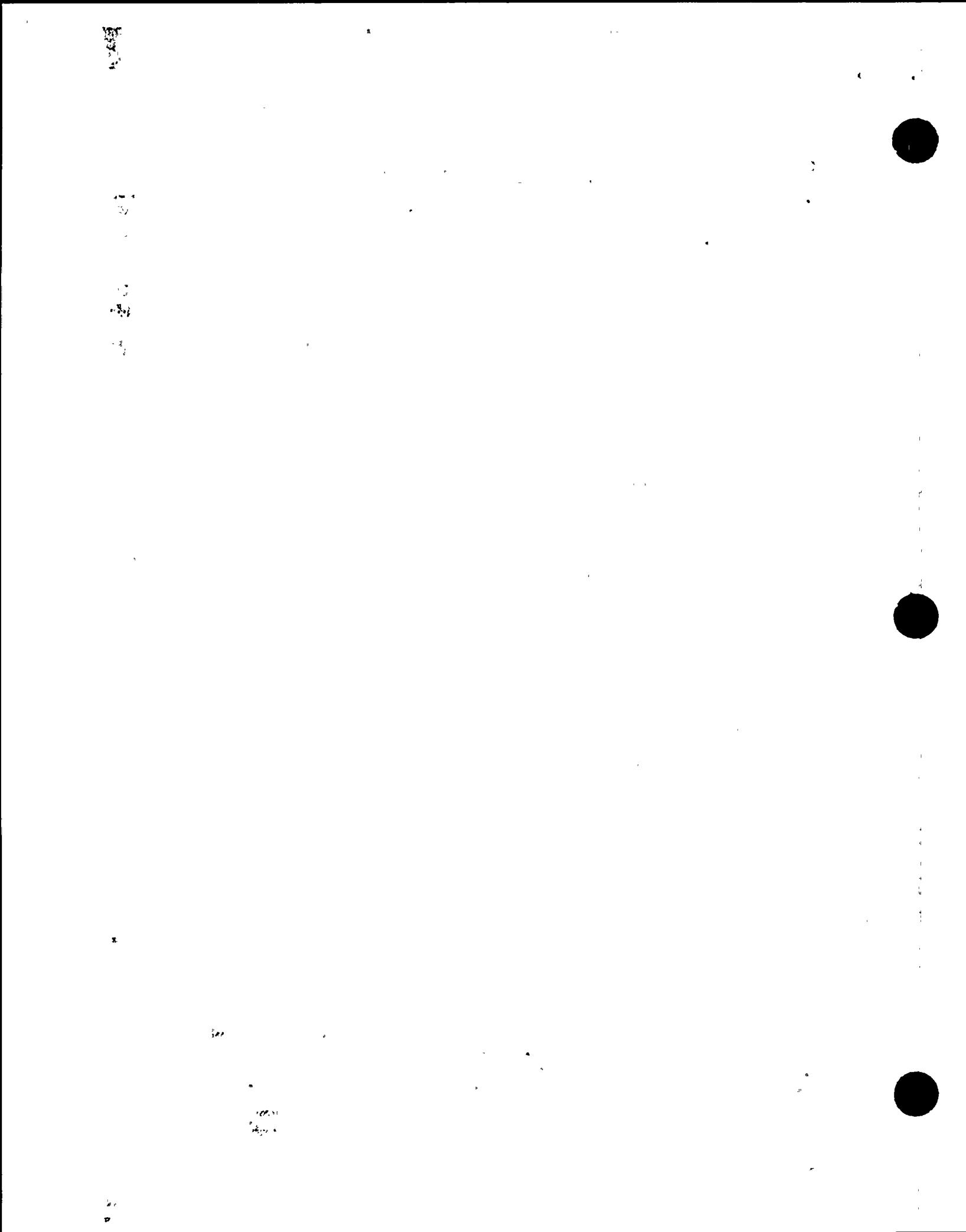
JAMES D. SHIFFEE

SIGNATURE OF AUTHORIZED AGENT

DATE

JDR/Kenney

4/16/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
P.O. BOX 1102  
VIS BISPD, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.  
DIABLO CANYON NUCLEAR POWER PLANT  
PO BOX 56  
AVILA BEACH, CALIF 93424  
PAGE (Q) 2

FACILITY I.D.  
3 402003001

YEAR / MO / DAY  
BEGINNING 03 / 01 / 92

YEAR / MO / DAY  
ENDING 92 / 03 / 31

STATE CODE  
06

NPDES PERMIT #  
CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I OIL & GREASE mg/l	EFFLUENT 001J OIL & GREASE mg/l	EFFLUENT 001K OIL & GREASE mg/l	EFFLUENT 001L OIL & GREASE mg/l	EFFLUENT 001M OIL & GREASE mg/l	EFFLUENT 001F OIL & GREASE mg/l	EFFLUENT 002 OIL & GREASE mg/l	EFFLUENT 003 OIL & GREASE mg/l
MARCH	\$	\$	\$	\$	\$	\$	\$	\$
1								
2								
3								
4								
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25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG						(3)		
MONTHLY HIGH						(3)		
MONTHLY LOW						(3)		

TIMES EXCEEDED	MD AVG 15 = 0							
TIMES EXCEEDED	D MAX 20 = 0							
TIMES EXCEEDED								

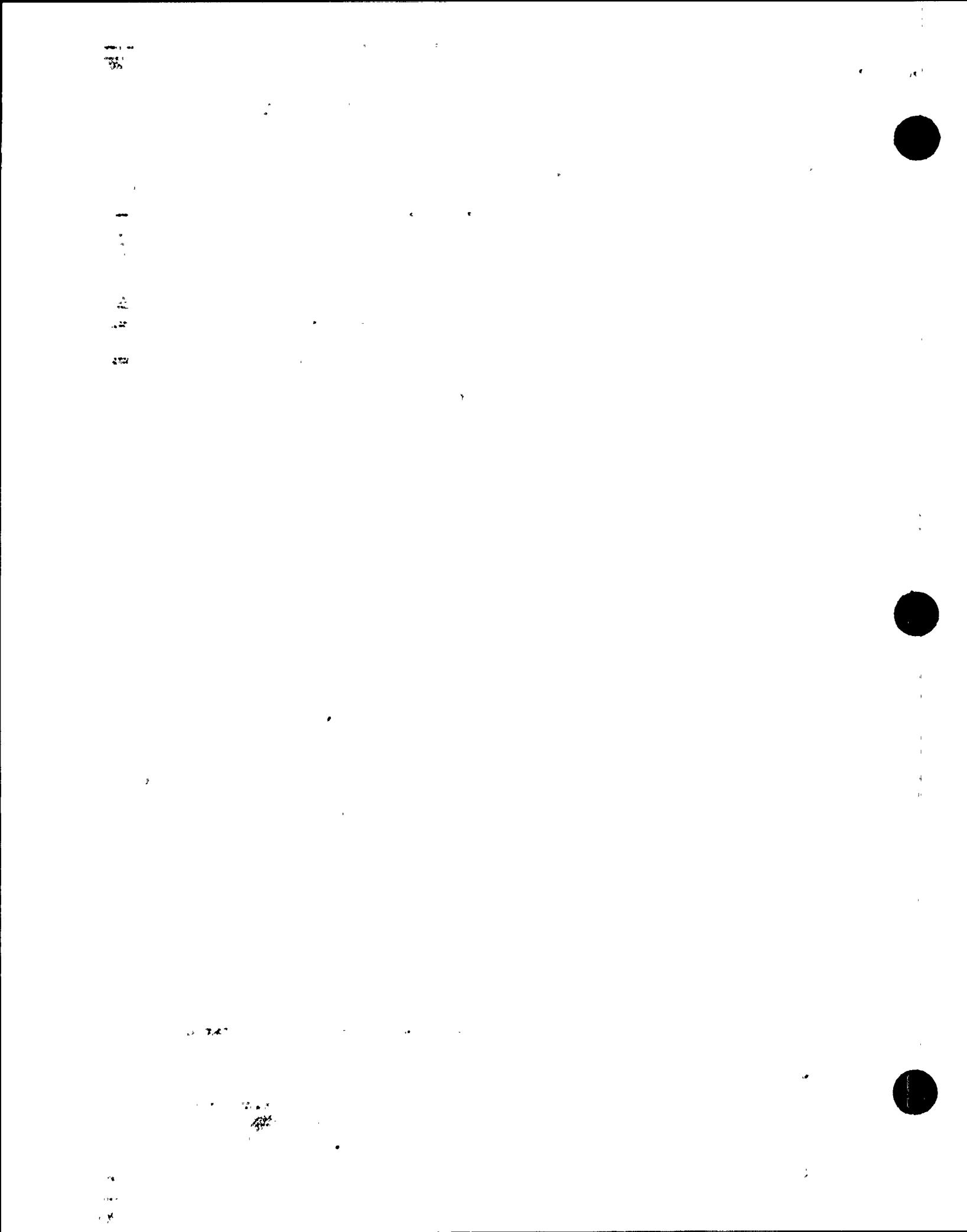
REMARKS: (\*) Number of Samples taken during the day. Discharge 001K analyzed to satisfy quarterly requirements. Other parameters were analyzed in January.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

John Fremay 4/14/92



CALIFORNIA REGIONAL WATER QUALITY  
CONTROL BOARD  
CENTRAL COAST REGION  
1002A LAUREL LANE  
MIS DBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

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

FACILITY I.D.		YEAR/ MO / DAY		YEAR/ MO /DAY		STATE CODE	NPDES PERMIT #
		BEGINNING	03 / 01 / 92	ENDING	92 / 03 / 31	06	C40003751
STATION ANALYSIS UNITS	EFFLUENT 001 TITANIUM ug/l	INFLUENT ARSENIC ug/l	EFFLUENT ARSENIC ug/l	INFLUENT CADMIUM ug/l	EFFLUENT 001 CADMIUM ug/l	INFLUENT LEAD ug/l	EFFLUENT 001 LEAD ug/l
SMPL TYPE FREQ.	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER
MARCH	\$	\$	\$	\$	\$	\$	\$
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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26							
27							
28							
29							
30							
31							
MONTHLY AVG							
MONTHLY HIGH							
MONTHLY LOW							
TIMES EXCEEDED	NO LIMIT	NO LIMIT	6M-MEAN 30 =0	NO LIMIT	6M-MEAN 10 =0	NO LIMIT	6M-MEAN 10 =0
TIMES EXCEEDED			D MAX 150 =0		D MAX 20 =0		D MAX 40 =0
EXCEEDED			I MAX 400 =0		I MAX 50 =0		I MAX 100 =0

REMARKS: (1) Number of Samples taken during the day. Influent Zinc analyzed for comparison to effluent analysis. All other annual analysis will be performed in October.

PRINCIPAL EXECUTIVE OFFICER

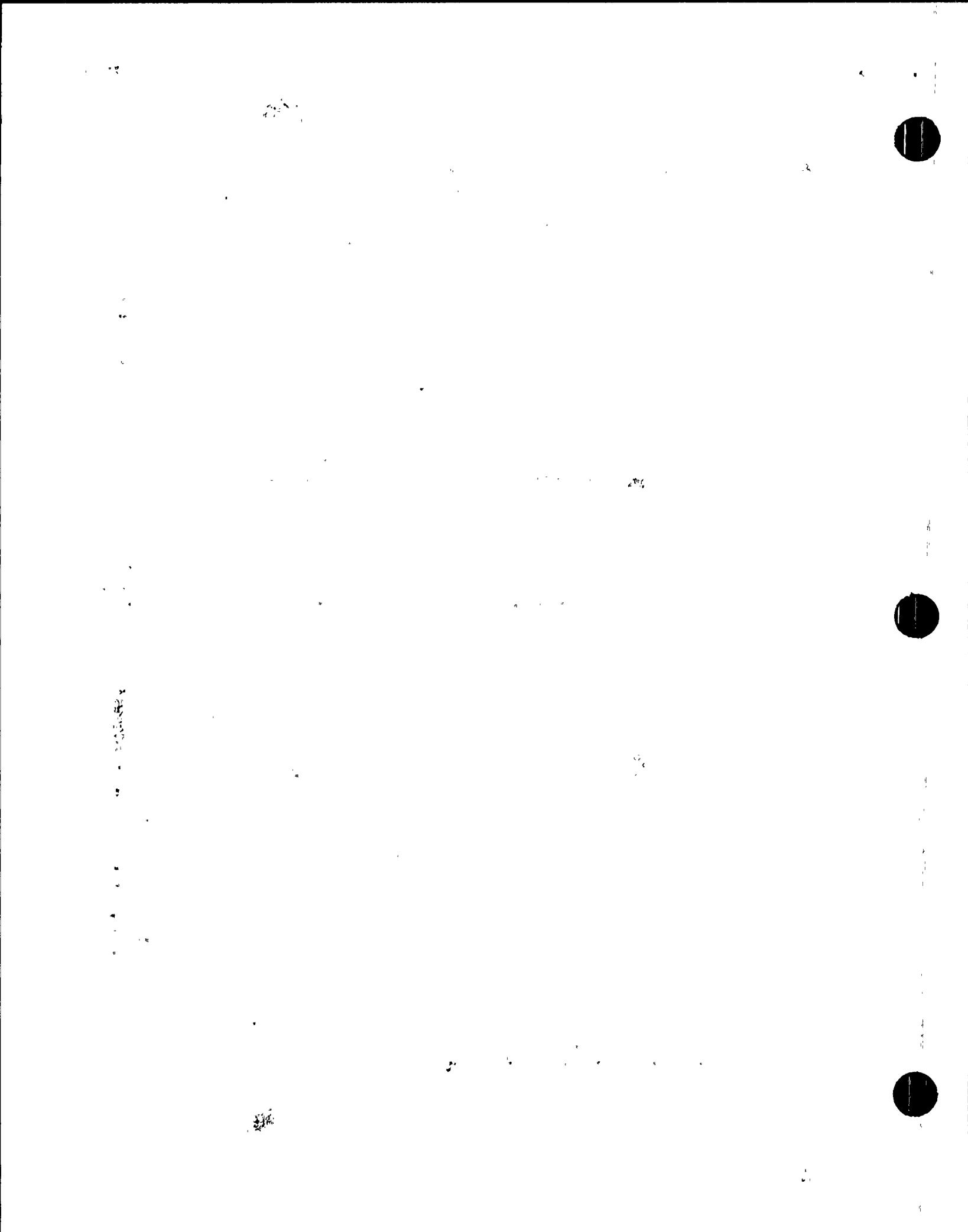
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Joe Kneeney

4/16/92



PG&amp;E

## CHEMISTRY SAMPLE DATA TABULAR REPORT

DCPP

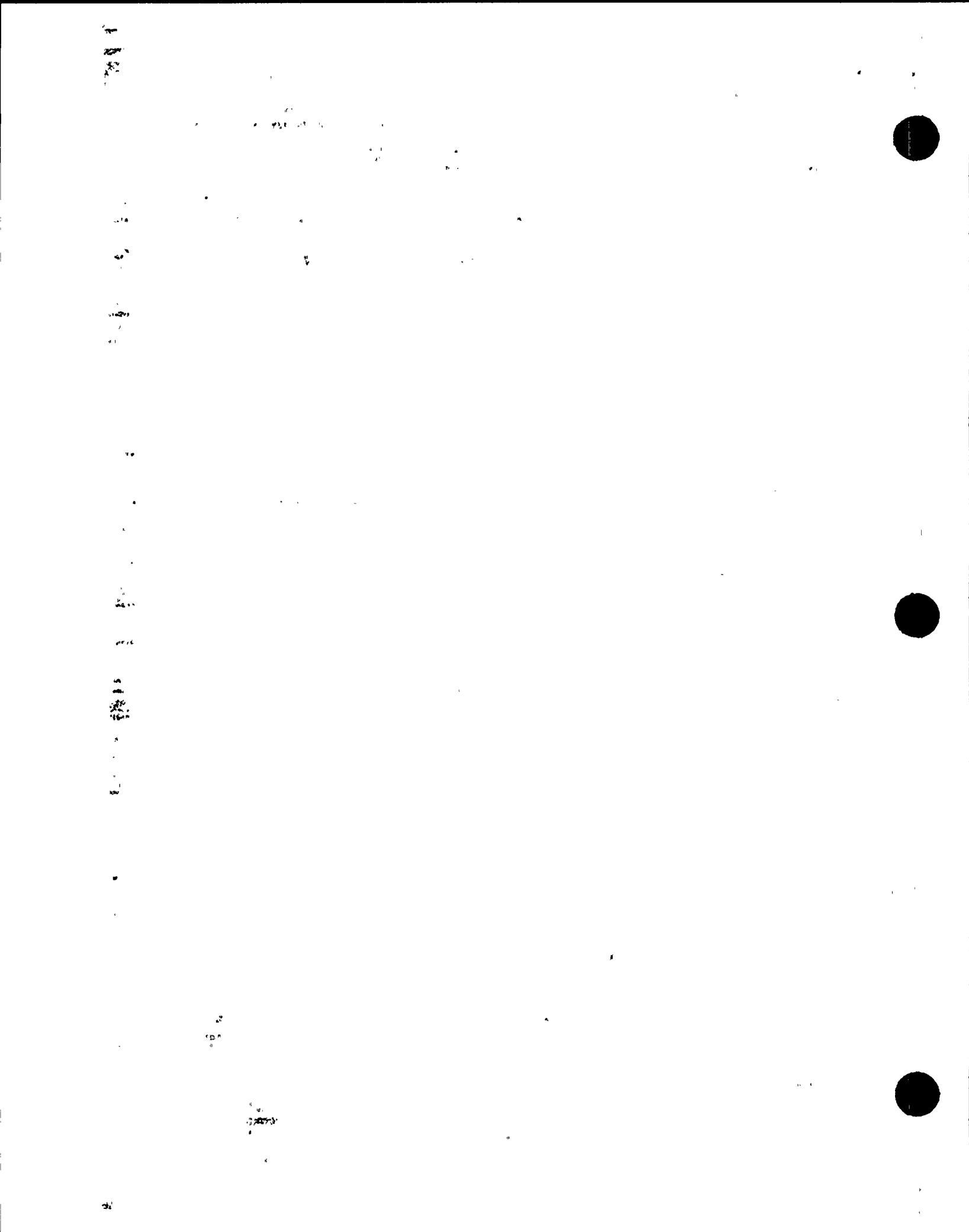
Unit: 0 NPDES  
001 EFFLUENT CHLORINATIONFrom: 3/01/92 0:01  
Through: 3/31/92 23:59

Parameter:	CWP 1-1 1ST TOTAL	CWP 1-1 2ND TOTAL	CWP 1-2 1ST TOTAL	CWP 1-2 2ND TOTAL	CWP 2-1 1ST TOTAL	CWP 2-1 2ND TOTAL	CWP 2-2 1ST TOTAL	CWP 2-2 2ND TOTAL
High Limit:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Low Limit:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Sample Time:	PPM							
3/05/92 14:49			<0.02	0.02	0.06	0.06	0.06	0.07
3/06/92 10:15	0.03	0.04			0.04	0.03	0.05	0.04
3/10/92 11:00			0.10	0.12	0.08	0.09	0.11	0.11
3/24/92 9:25	<0.02	<0.02						
3/31/92 10:00	0.04	0.04	0.05	0.06	0.04	0.10	0.08	0.08

NOTE: Individual sample results for Total Residual Chlorine (TRC) are adjusted by the following formula to account for dilution by the unchlorinated Circulating Water Pumps on the opposite operating Unit. It is assumed that no chlorine demand exists in the seawater:

ppm TRC  $\times \frac{\# \text{ of operating pumps on chlorinated Unit}}{\# \text{ of operating pumps for both Units}}$

The daily average TRC value reported on the Q2 forms is the average of the adjusted TRC results for the day, which could include up to eight individual results (two analyses per chlorination cycle for a maximum of 4 cycles per day)



PACIFIC GAS & ELECTRIC - DIABLO CANYON POWER PLANT  
 SANITARY WASTEWATER TREATMENT SYSTEM  
 CONTRACT # Z78-2104-86

(REV. 5/90)

Sanitation and Operation Consultants, INC.  
 16340 E. Maple Grove Street  
 La Puente, CA 91744

Pacific Gas and Electric Co.  
 Contacts:  
 Randy Falcke (805) 595-4362  
 John Knemeyer (805) 595-4472

CONSTITUENTS	UNITS	FREQ.	LIMITS		SAMPLE		RESULTS
			MONTHLY AVERAGE	DAILY MAX	DATE	TIME	
1. GREASE & OIL	mg/l	WEEKLY	15	20	3-4	1338	9.0 mg/l Ave of
2. "	mg/l	"	15	20	3-13	1015	7.7 mg/l Ave of
3. "	mg/l	"	15	20	3-20	1024	16.7 mg/l Ave of
4. "	mg/l	"	15	20	3-23	1420	19.3 mg/l Ave of
5. "	mg/l	"	15	20			
1. SUSPENDED SLDs	mg/l	WEEKLY	60	N/A	3-4	1322	8.0 mg/l
2. "	mg/l	"	60	N/A	3-13	0959	54.0 mg/l
3. "	mg/l	"	60	N/A	3-20	1008	33.0 mg/l
4. "	mg/l	"	60	N/A	3-23	1404	19.0 mg/l
5. "	mg/l	"	60	N/A			
1. SETTLEABLE SLD	ml/l	WEEKLY	1.0	3.0	3-4	1344	< 0.1 ml/l
2. "	ml/l	"	1.0	3.0	3-12	1349	< 0.1 ml/l
3. "	ml/l	"	1.0	3.0	3-20	1006	< 0.1 ml/l
4. "	ml/l	"	1.0	3.0	3-23	1422	< 0.1 ml/l
5. "	ml/l	"	1.0	3.0			

NOTE:

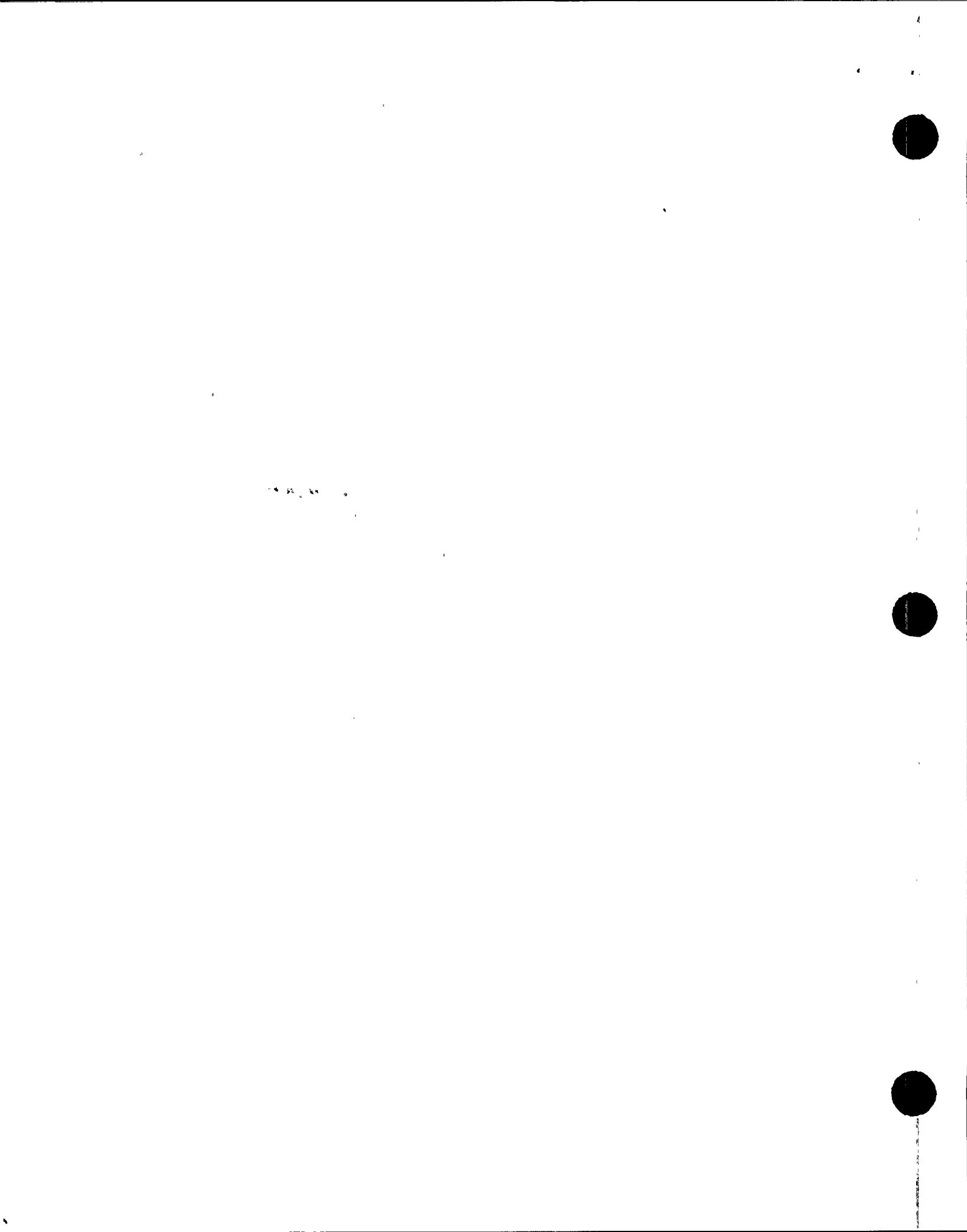
- ANALYSIS RESULTS ABOVE THE MONTHLY AVERAGE SHALL BE REPORTED VERBALLY, WITHIN 8 HOURS, TO A PG&E CONTACT LISTED ABOVE.
- G&O AND SUSP. SLDs. SAMPLES ARE COMPOSITES DURING 1 DISCHARGE CYCLE.

COMMENTS: Time of samples in military time

SLUDGE DISPOSAL DATA

MONTH REMOVED	VOLUME REMOVED	WEIGHT REMOVED	DISPOSAL SITE
MARCH 1992		2330 lbs	WALSH - NIPOMO

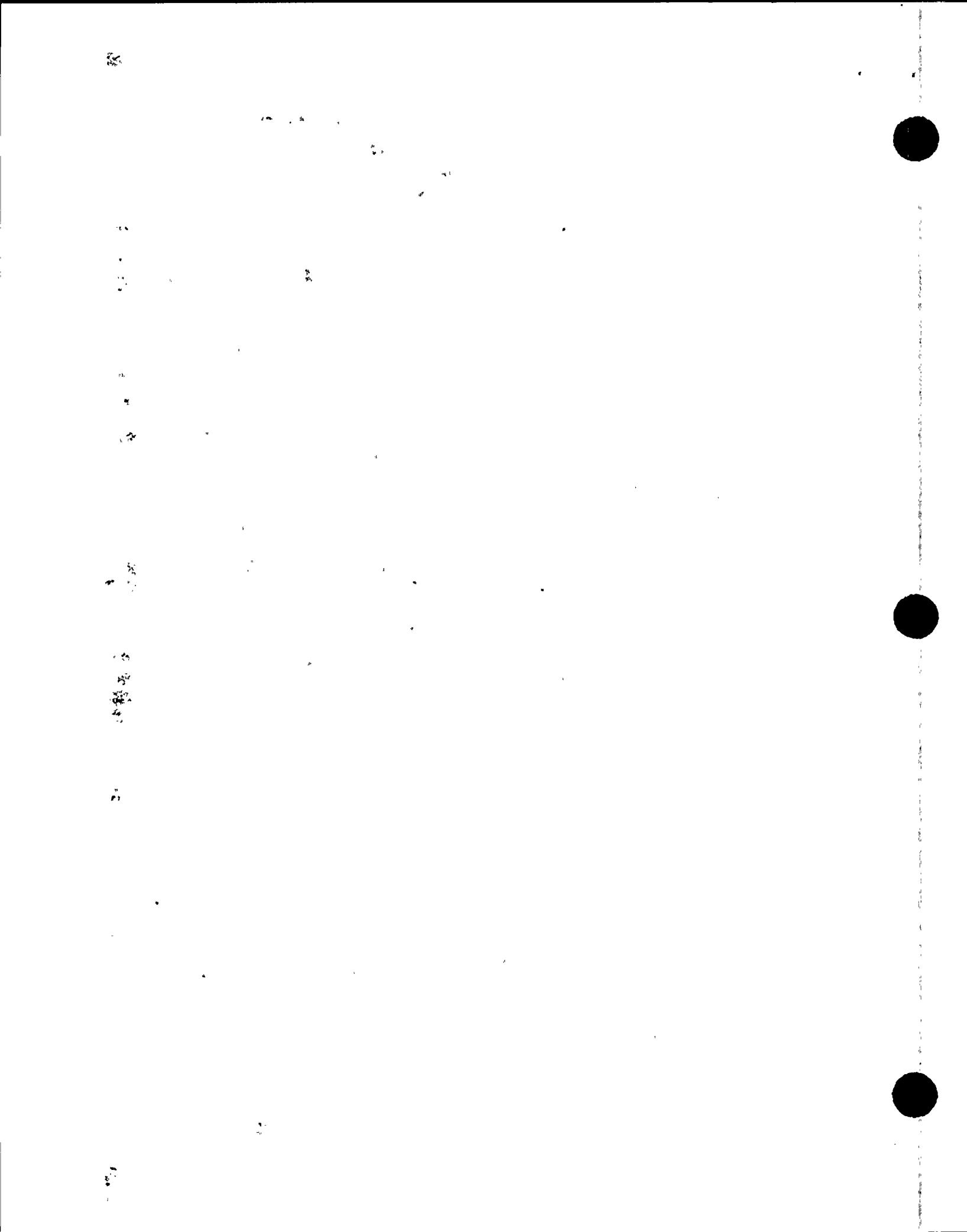
DATA SHEET COMPLETED BY: Michael J. Becker DATE: 4-3-92



**APPENDIX 4**

**Diablo Canyon Acute Bioassay Report**

**January 13, 1992**



PACIFIC GAS AND ELECTRIC COMPANY  
NOS Onsite Dosimetry and Environmental Services  
P.O. Box 56  
Avila Beach, California 93424

### LABORATORY TEST REPORT

**SUBJECT:** ACUTE TOXICITY ASSESSMENT OF DISCHARGE WATER FROM  
DIABLO CANYON POWER PLANT, FIRST QUARTER OF 1992

#### Introduction:

One acute toxicity bioassay was conducted at the Nuclear Operations Support Diablo Canyon Biological Laboratory on water sampled on January 13, 1992, from the discharge of Diablo Canyon Power Plant. This bioassay satisfies the quarterly requirement for acute toxicity testing in Diablo Canyon Power Plant's NPDES Permit.

#### Methods:

The assay was a standard 96-hour static acute toxicity test conducted using the guidelines in Kopperdahl (1976) and EPA (1985). The dilutions tested were 100 percent effluent and a dilution water control. Juvenile red abalone (Haliotis rufescens) were used as the test organism.

#### Results:

The bioassay (DCPP-183) was begun within twenty-four hours of sample collection. Toxicity was 0 (no mortality was observed). All measured chemical and physical parameters fell within accepted limits. Data sheets are attached.

#### SUMMARY OF RESULTS

<u>Assay No.</u>	<u>Date Sampled</u>	<u>Location</u>	<u>Toxicity (TU)</u>
DCPP-183	January 13, 1992	Discharge	0 (no mortality)

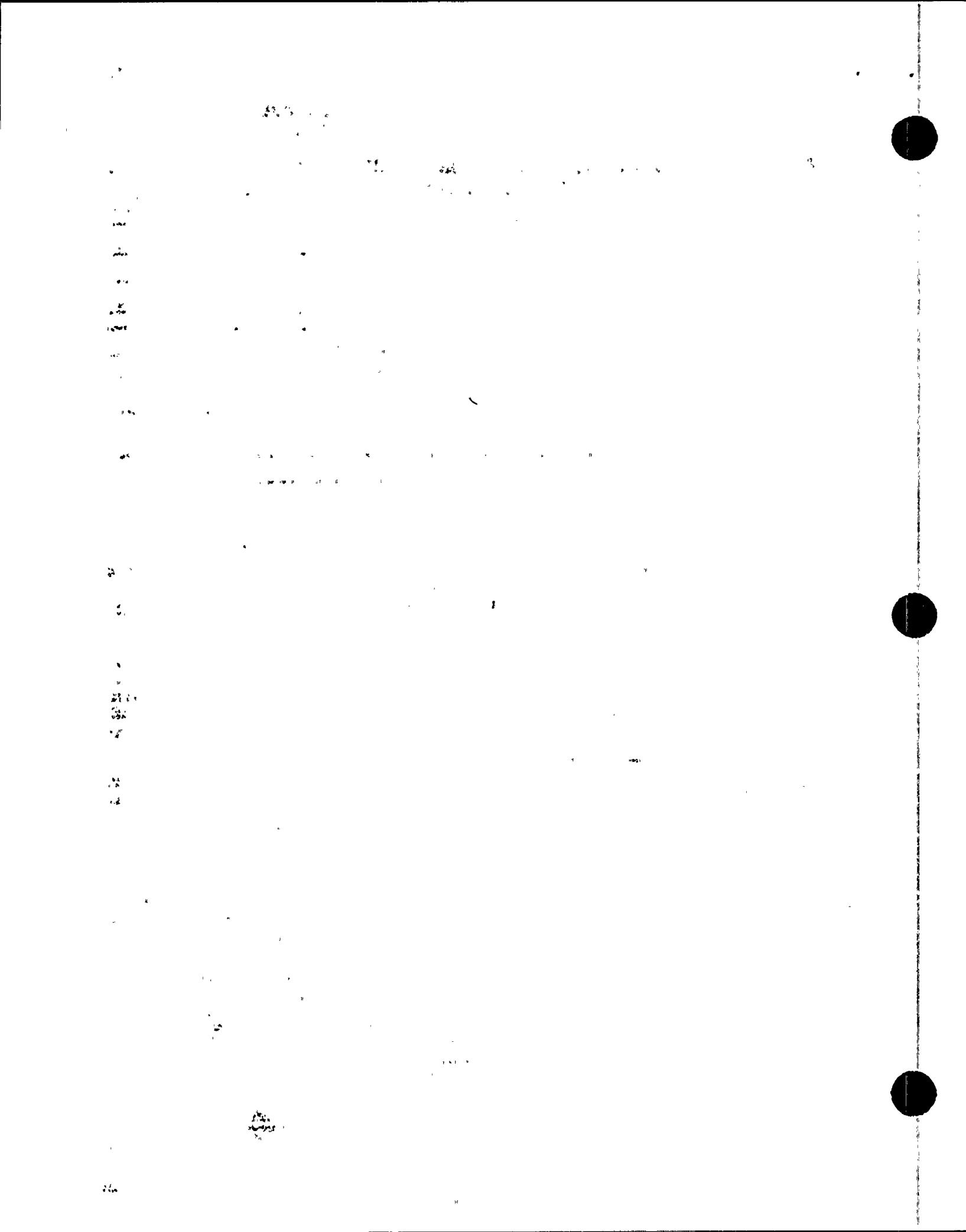
#### References:

Kopperdahl, Fredric R. 1976. Guidelines for Performing Static Acute Toxicity Fish Bioassays in Municipal and Industrial Wastewaters. State Water Resources Control Board, and California Department of Fish and Game.

EPA, 1985. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms. Third Edition. EPA/600/4-85/013.

Distribution: JVBoots  
DCSomerville  
RWLorenz  
TCWilson  
RMS Indexer

DATE February 11, 1992  
TESTED BY Janeen L. Kelly  
APPROVED PDJ/km  
FILE NO. 100-1000



## PACIFIC GAS &amp; ELECTRIC COMPANY

DIABLO CANYON BIOLOGICAL LABORATORY  
STATIC BIOASSAY REPORT SHEET  
One Concentration

ASSAY NO. 183-N

TEST ORGANISM DATATEST SPECIES HALIOTIS RUFESCENTS, Red ABALONESOURCE CAYUCAS ABALONE FARMAVERAGE LENGTH 11.1 mm, RANGE 8-14 mmACCLIMATION TIME 1 month, TEMPERATURE 14.1 °CWATER SOURCE P/10 LAB PUMPTEST SOLUTION DATASOURCE OF TEST SOLUTION DCPP UNIT 1 AND  
UNIT 2 DISCHARGE SAMPLE PIPE  
OUTLETDATE/TIME SAMPLED

13 JAN 1992 / 08:25

DATE STARTED 13 JANUARY 1992TIME STARTED 13:20

HRS.

VOLUME/DEPTH OF TEST SOLUTION 5 GALLON

RENEWAL OF TEST SOLUTION AT \_\_\_\_\_ HR. INTERVALS

TYPE OF AERATION RING COMPRESSORNUMBER OF ORGANISMS PER CONCENTRATION 30DILUTION WATER SOURCE P/10 LAB PUMPTEST CONCENTRATIONS0 HOURS

	<u>100%</u>	<u>CONTROL</u>	<u>INITIALS</u>
TEMP.	<u>13.8</u>	<u>13.8</u>	<u>RKC\KAM</u>
D.O.	<u>8.1</u>	<u>7.6</u>	<u>RKC\KAM</u>
pH	<u>8.05</u>	<u>8.03</u>	<u>RKC\KAM</u>
SALINITY/HARDNESS	<u>32.5</u>	<u>33.0</u>	<u>RKC\KAM</u>

24 HOURS

ORGANISMS SURVIVING	<u>30</u>	<u>30</u>	<u>RKC</u>
% SURVIVAL	<u>100</u>	<u>100</u>	<u>RKC</u>
TEMP.	<u>13.9</u>	<u>13.9</u>	<u>RKC</u>
D.O.	<u>8.2</u>	<u>8.1</u>	<u>RKC</u>
pH	<u>7.87</u>	<u>7.81</u>	<u>RKC</u>

48 HOURS

ORGANISMS SURVIVING	<u>30</u>	<u>30</u>	<u>RKC</u>
% SURVIVAL	<u>100</u>	<u>100</u>	<u>RKC</u>
TEMP.	<u>13.9</u>	<u>13.9</u>	<u>RKC</u>
D.O.	<u>8.0</u>	<u>7.8</u>	<u>RKC</u>
pH	<u>7.86</u>	<u>7.79</u>	<u>RKC</u>

72 HOURS

ORGANISMS SURVIVING	<u>30</u>	<u>30</u>	<u>GRM</u>
% SURVIVAL	<u>100</u>	<u>100</u>	<u>GRM</u>
TEMP.	<u>13.9</u>	<u>13.9</u>	<u>GRM</u>
D.O.	<u>7.9</u>	<u>7.8</u>	<u>GRM</u>
pH	<u>7.8</u>	<u>7.8</u>	<u>GRM</u>

96 HOURS

ORGANISMS SURVIVING	<u>30</u>	<u>30</u>	<u>RKC</u>
% SURVIVAL	<u>100</u>	<u>100</u>	<u>RKC</u>
TEMP.	<u>13.8</u>	<u>13.8</u>	<u>RKC</u>
D.O.	<u>8.0</u>	<u>7.9</u>	<u>RKC</u>
pH	<u>7.85</u>	<u>7.83</u>	<u>RKC</u>
SALINITY/HARDNESS	<u>33.0</u>	<u>33.5</u>	<u>RKC</u>

TU: 0 (No Mortality)

TESTED BY \_\_\_\_\_

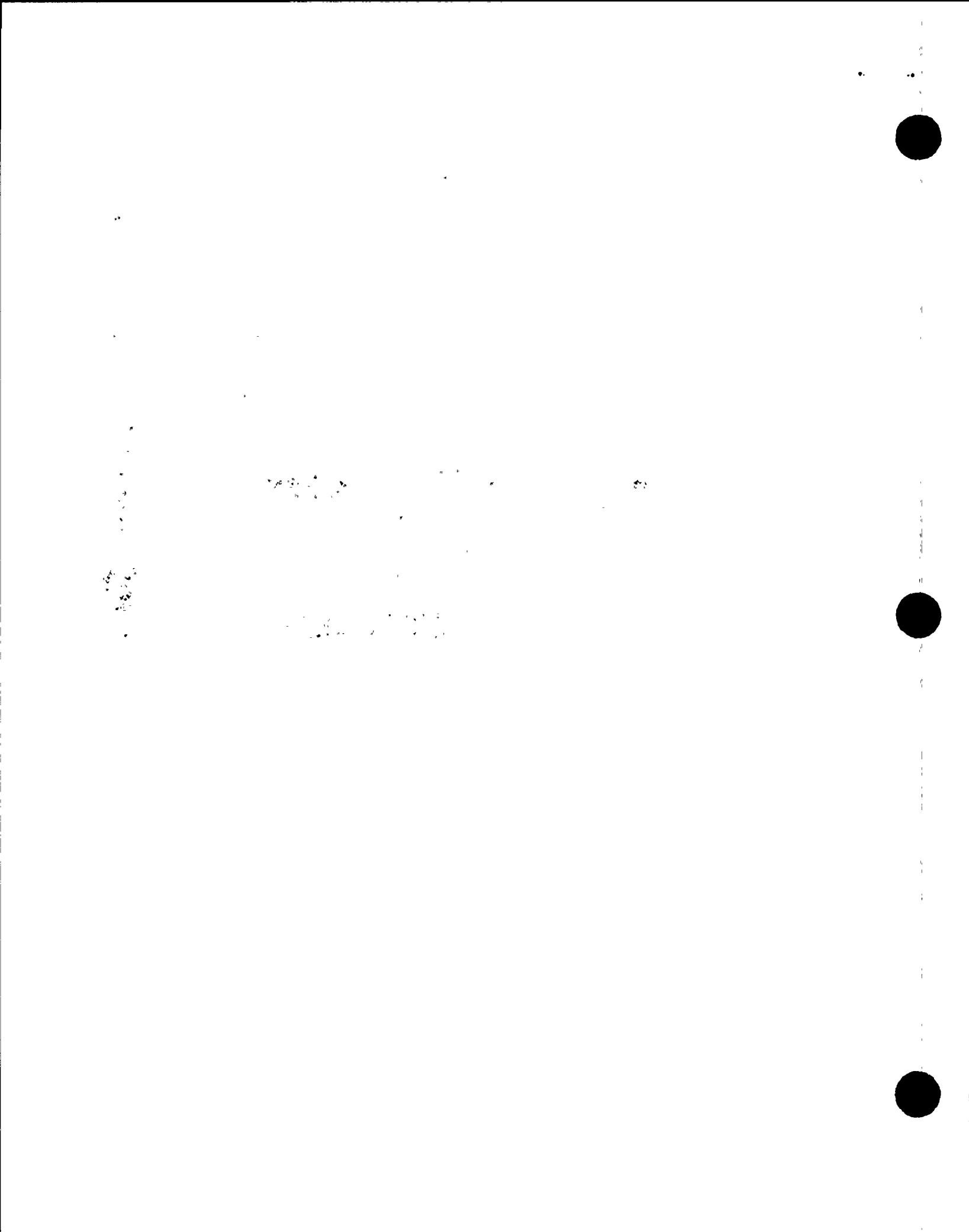
Procedure No. 23Temp. Probe. No. 2583\005Cal. Due Date 13 AUGUST 1992Reviewed by James E. Kelly

$\alpha_1, \alpha_2, \dots, \alpha_n$

**APPENDIX 5**

**Stratified Water Temperature**

**February 19, 1992**



DIABLO CANYON POWER PLANT  
RECEIVING WATER  
STRATIFIED WATER TEMPERATURES

February 19, 1992

On February 19, 1992, from approximately 0830 until 1100 PDT, stratified water temperatures were measured at six stations inside Diablo Cove (Figure 1). Swell was from the northwest at a height of about 4-6 feet. There was little to no wind at the start of the sampling, yet by the end, the wind speed had increased to about 10 knots. Air temperature was approximately 60 degrees Fahrenheit.

Water temperatures were measured at one meter depth intervals utilizing an electronic bathythermograph. The bathythermograph is a self-contained unit with a temperature sensor which has a response time of 0.25 seconds and an accuracy to  $\pm 0.10^{\circ}\text{F}$  ( $\pm 0.05^{\circ}\text{C}$ ). Instrument depth is determined by a pressure transducer with an accuracy of 0.3% (full scale). The bathythermograph's yearly calibration is traceable to the National Institute of Standards and Technology.

Water temperatures (Table 1) ranged from a high of 73.0°F at the surface at Station 10 to a low of 58.0°F on the bottom at Stations 11 and 12. The range of water temperatures measured between the top and bottom at any one station varied from 14.8°F at Station 10 to 7.8°F at Station 15. Stratification of the water column is caused by the thermal discharge plume.

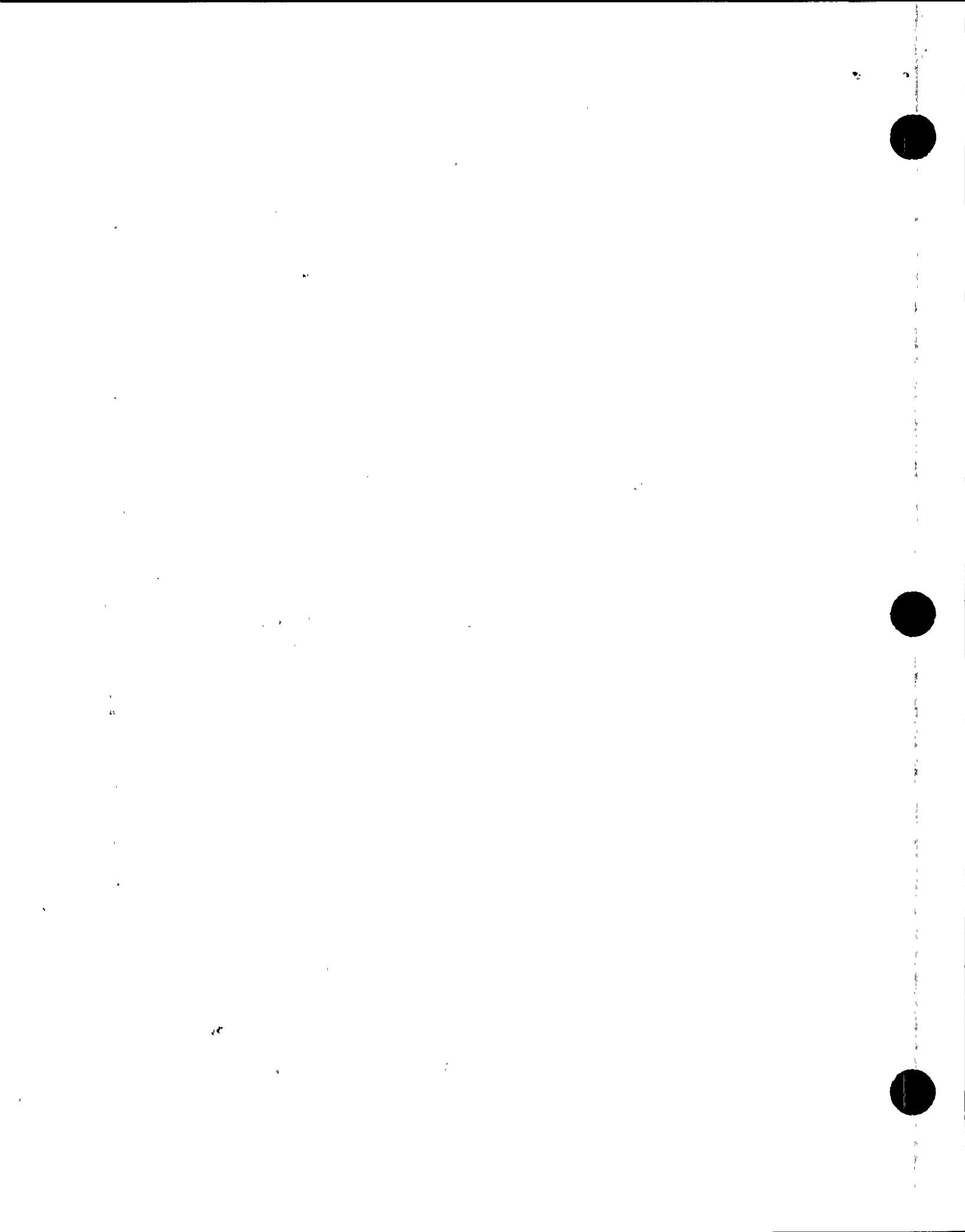
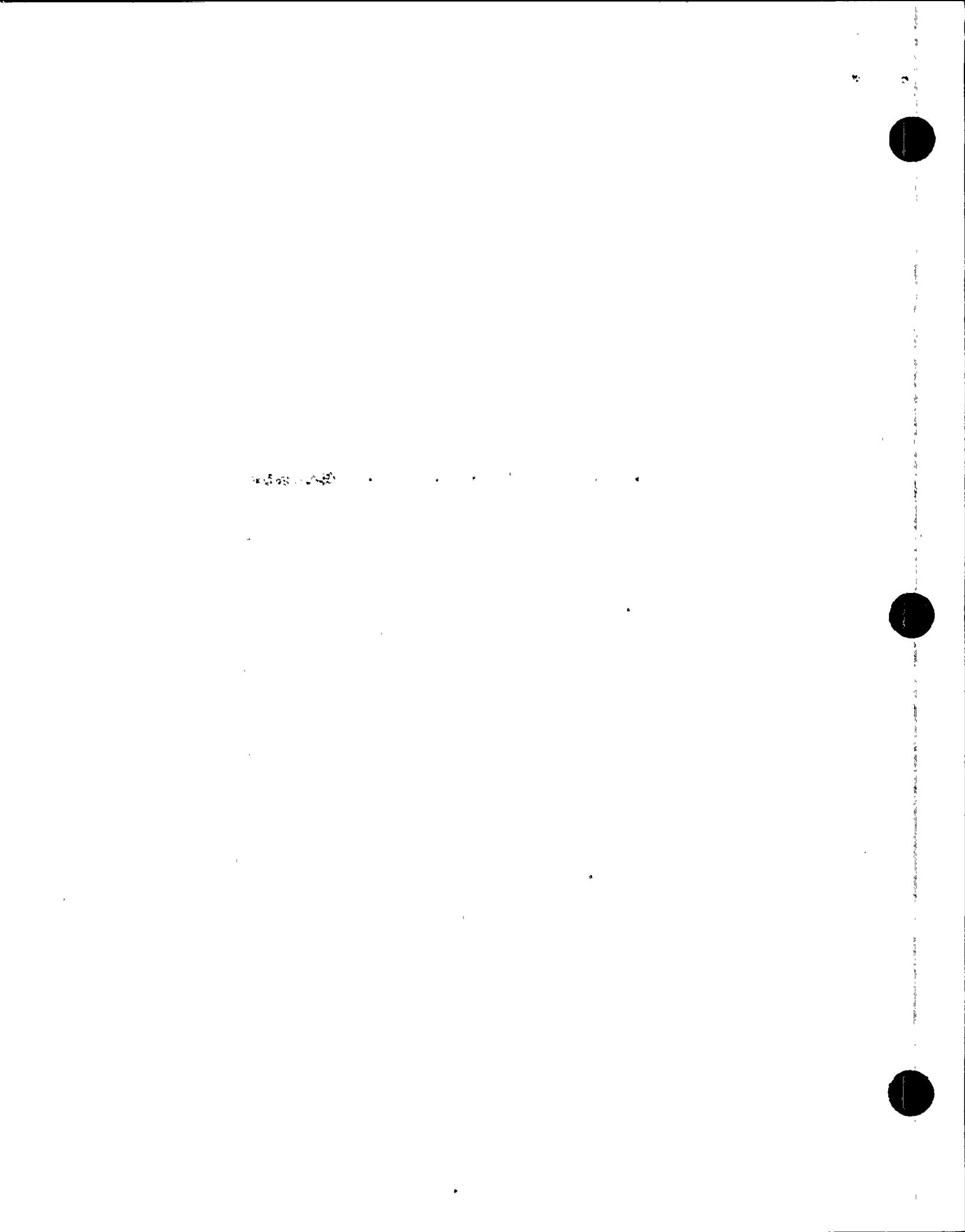


TABLE 1  
 DIABLO CANYON POWER PLANT  
 OCEANOGRAPHIC STATIONS  
 VERTICAL TEMPERATURE PROFILES

February 19, 1992

STATION 10		STATION 11		STATION 12	
DEPTH(m)	TEMP(F)	DEPTH(m)	TEMP(F)	DEPTH(m)	TEMP(F)
0.0	73.0	0.0	71.2	0.0	70.0
1.0	71.2	1.0	70.4	1.0	69.3
2.0	71.1	2.0	69.4	2.0	68.8
3.0	68.8	3.0	66.9	3.0	65.6
4.0	63.8	4.0	65.0	4.0	60.5
5.0	58.4	5.0	60.2	5.0	58.4
6.0	58.4	6.0	58.4	6.0	58.3
7.0	58.2	7.0	58.3	7.0	58.2
8.0	58.2	8.0	58.2	8.0	58.1
		9.0	58.1	9.0	58.2
		10.0	58.0	10.0	58.2
		11.0	58.0	11.0	58.2
		12.0	58.0	12.0	58.1
				13.0	58.1
				14.0	58.1
				15.0	58.0
				16.0	58.0
				17.0	58.0
				18.0	58.0

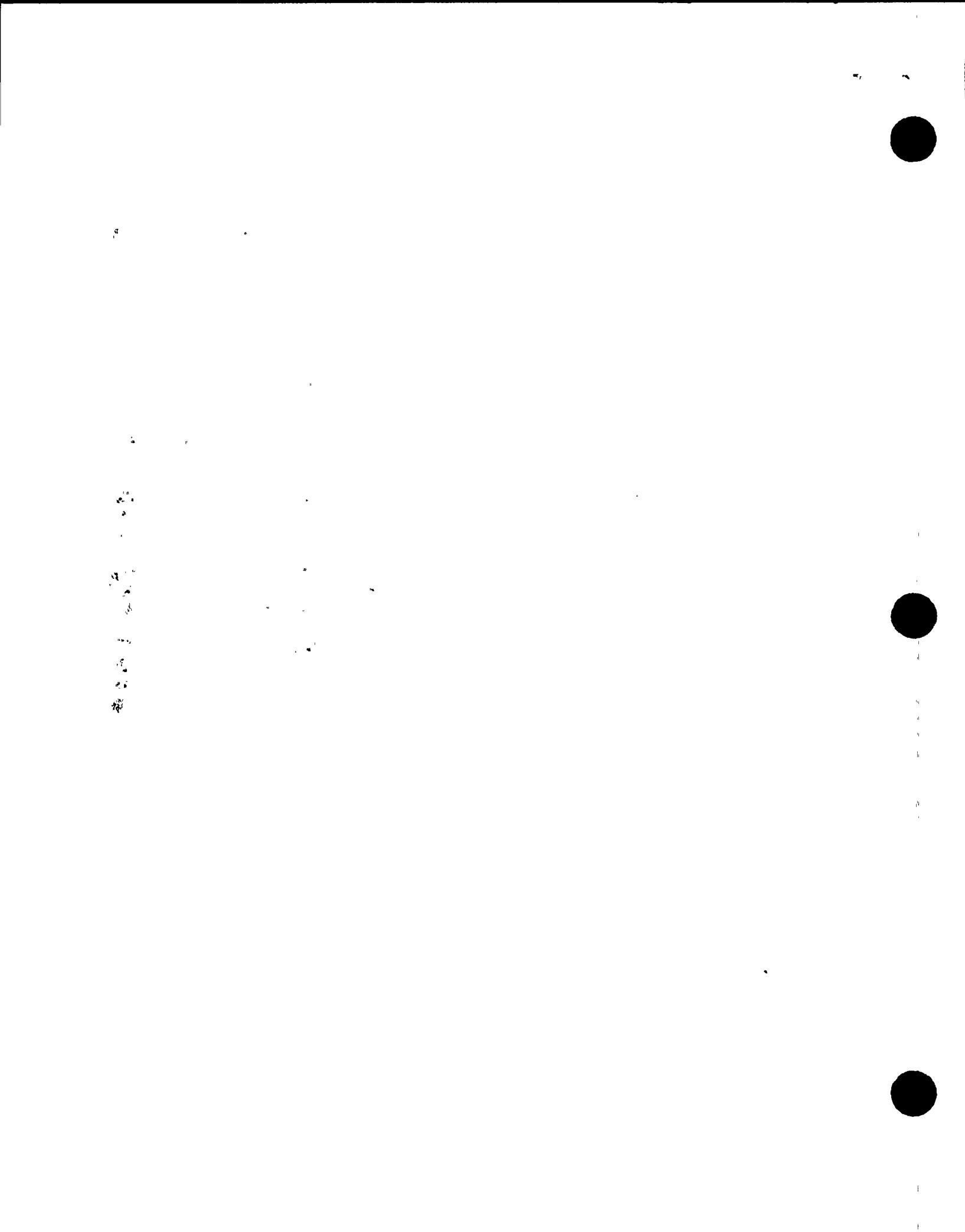
STATION 13		STATION 14		STATION 15	
DEPTH(m)	TEMP(F)	DEPTH(m)	TEMP(F)	DEPTH(m)	TEMP(F)
0.0	70.0	0.0	68.7	0.0	66.7
1.0	69.2	1.0	68.6	1.0	67.0
2.0	68.0	2.0	67.9	2.0	62.9
3.0	66.7	3.0	65.3	3.0	59.4
4.0	64.4	4.0	59.1	4.0	59.0
5.0	61.4	5.0	58.4	5.0	58.9
6.0	59.0	6.0	58.3	6.0	58.8
7.0	59.0	7.0	58.4	7.0	58.9
8.0	58.8	8.0	58.4	8.0	58.9



**APPENDIX 6**

**Dissolved Oxygen and pH of Receiving Waters**

**February 19, 1992**



DIABLO CANYON POWER PLANT  
RECEIVING WATER  
DISSOLVED OXYGEN DETERMINATIONS  
and Ph MEASUREMENTS

February 19, 1992

On February 19, 1992 from approximately 0830 until 1100 PDT seawater samples were collected at six stations in Diablo Cove to determine dissolved oxygen concentrations and pH (Figure 1). Swell was from the northwest at a height of about 4-6 feet. There was little to no wind at the start of the sampling, yet by the end, the wind speed had increased to about 10 knots. Air temperature was approximately 60 degrees Fahrenheit.

At each station, surface, mid-depth, and bottom water samples were collected using a hydrocast array of sampling bottles. Samples that were to be later analyzed for dissolved oxygen were preserved with magnesium sulfate and alkaline-azide immediately after collection. Analysis of the samples was conducted at the onsite oceanographic laboratory. Dissolved oxygen concentrations were determined using a modified Winkler titration method, with an accuracy of +0.1 ppm. A pH meter with an accuracy of  $\pm 0.1$  units is used to measure pH levels.

Dissolved oxygen values (Table 1) ranged from a high of 9.0 ppm at mid-depth of Station 14 to a low of 6.6 at the surface of Station 15 and mid-depth at Station 12. Measured pH values (Table 2) were relatively uniform throughout the water column at all stations, varying between 8.0 and 8.1.

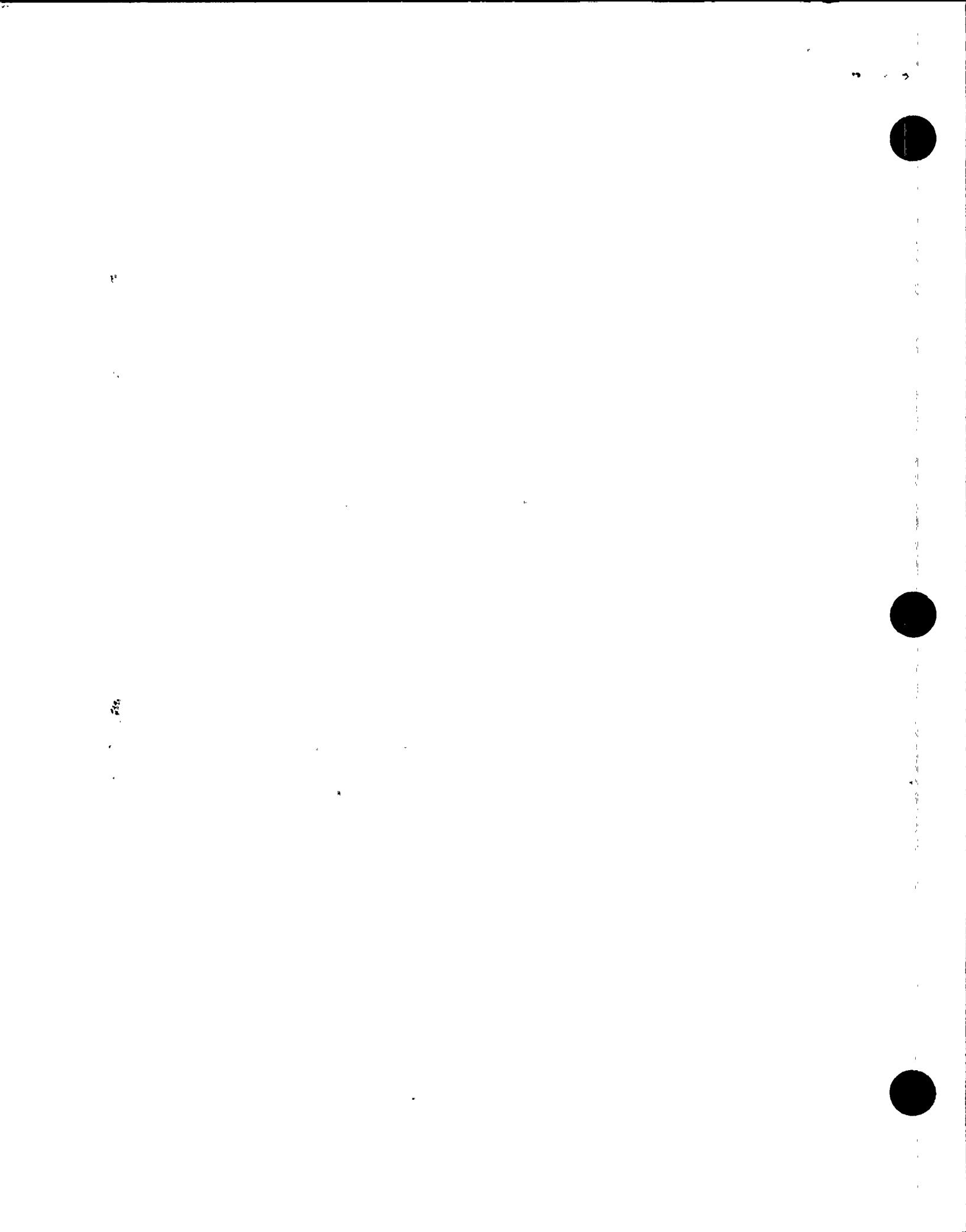


TABLE 1  
DIABLO CANYON POWER PLANT  
RECEIVING WATER  
DISSOLVED OXYGEN DETERMINATIONS

February 19, 1992

Station	Surface	Mid-depth	Bottom
10	6.8	8.0	8.2
11	7.4	8.0	7.2
12	7.4	6.6	6.8
13	7.0	7.2	8.0
14	7.4	9.0	6.8
15	6.6	8.0	8.0

TABLE 2  
DIABLO CANYON POWER PLANT  
RECEIVING WATER  
pH MEASUREMENTS

February 19, 1992

Station	Surface	Mid-depth	Bottom
10	8.1	8.1	8.0
11	8.1	8.1	8.1
12	8.1	8.0	8.1
13	8.1	8.1	8.1
14	8.1	8.1	8.1
15	8.1	8.1	8.1

