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RECIP.NAME RECIPIENT AFFILIATION

LEONARD,W. California, State of

SUBJECT: "NPDES Discharge Monitoring Rept for Third Quarter 1992 for Diablo Canyon Power Plant." W/921020 ltr.

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Pacific Gas and Electric Company

Diablo Canyon Power Plant
P.O. Box 56
Avila Beach, CA 93424
805/545-6000

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

October 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 third 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.

Tom Moulia for

JDT:ksb

Enclosure



JE23 1/1

[illegible]

cc: Chief, Environmental Services Division
California Department of Fish and Game
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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

# THIRD QUARTER OF 1992

TABLE OF CONTENTS

## OVERVIEW

A. During the third quarter of 1992, discharges occurred from Discharge Paths 001 (once through cooling water), 001B, 001D, 001E, 001F, 001G, 001H, 001J, 001L, 001N, 001P, 002 through 016. No discharges occurred from Discharge Paths 001I, 001K, 001M and 017.

B. On February 10, 1992, a bucket (approximately 3 gallon volume) partially filled with waste oil, was found to have overflowed during heavy rains. An estimate of up to one gallon of the waste oil ran down the road leading to Discharge 009, which empties into Diablo Creek. A visual inspection of the creek and the area where the creek enters the ocean noted that no oil sheen was visible.

   As a corrective action, "Area Owners," personnel responsible for routine walkdowns of various areas of the plant, were instructed to pay particular attention to waste containers to ensure that the containers are properly controlled and labeled correctly.

C. On August 12, 1992, the effluent pipe leading from Discharge 001N, the Sanitary Wastewater Treatment System, to the system's discharge pump, broke allowing the effluent to run down a hill to an area adjacent to Discharge 004, Biolab Discharge. The system effluent did not enter the ocean.

   The leak was isolated. Until repairs were complete, effluent from the Sanitary Wastewater Treatment System was transported to Diablo Canyon's leachfield for disposal. The repair was completed in approximately 24 hours.

   The Regional Water Quality Control Board Staff (Laura Parks) was called by Philip Steiner on August 13, 1992, and informed of the spill.

D. On August 18, 1992, a toilet valve stuck open in the Technical and Ecological Services Shower/Laboratory Facility. The building is used, in part, by scuba divers before and after working in the water. The building is located near the Intake Cove.

   Approximately 100 gallons of water overflowed from the building's sewage holding tank onto the road adjacent to the Intake Cove. None of the water entered the Intake Cove. Most of the flow was clear water from the stuck valve. The valve was repaired and the system was returned to normal.

E. On September 15, 1992, at approximately 1000 hours, 10 gallons of wastewater was discharged down a storm drain in front of the Site Hazardous Waste Storage Building (HWSB). The water was generated when the HWSB floor was washed-down with firewater. The water contained an estimated one quart of detergent.

The storm drain leads to Discharge 004, Biolab Discharge. Some foam was observed at the point where Discharge 004 enters the Intake Cove. The foam soon dissipated. No persistent discoloration of the water was observed.

The Regional Water Quality Control Board (RWQCB) was informed of the incident by telephone the same day. Subsequent discussions with RWQCB Staff the following day concluded that a description of the event should be included in the routine quarterly report.

After this incident, the individual responsible for putting the wastewater in the storm drain, as well as others working in the HWSB, attended a 24-hour training course entitled, "Hazardous Waste Handlers Training."

F. 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 July, August, and September plant influent and effluent monitoring are reported in Appendices 1, 2, and 3, respectively.

2. On August 31, 1992, a composite grab sample of Unit 1 & 2 Discharge 001 was collected and analyzed for oil and grease. The result was <3 mg/l.

3. Results from one acute bioassay performed July 6, 1992, on water sampled from Discharge 001 are included in Appendix 4.

4. Results from one chronic bioassay performed August 26, 1992, on water sampled from Discharge 001 are included in Appendix 5. This quarterly chronic toxicity bioassay is conducted in accordance with the 1990 California Ocean Plan.

5. 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, and is in the process of determining the limits.

| Parameter | Detection Limit (mg/1) |
|---|---|
| Oil and Grease | 3 |
| Total Res Chlorine | 0.001 (electrode) |
| Suspended Solids | 1 |
| Settleable Solids | 0.01 ml/1 |
| Ammonia (N) | 0.050 |
| Metals (chelation extraction) | 0.001 |

| | |
|---|---|
| Chromium | Copper |
| Nickel | Zinc |

6. Each of the Appendices 1 through 3 contain additional laboratory results located following the normal Q-2 forms that were used to develop "average" values reported on the Q-2 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 Q-2.

B. Monitoring of Receiving Waters

1. Ecological Studies at Diablo Canyon

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

| Subtask | Month Completed |
|---|---|
| Subtidal Red Abalone Surveys | September |
| Subtidal Fish Observations | September |
| Subtidal Benthic Stations | September |
| Intertidal Horizontal Bands | July |
| Intertidal Vertical Bands | June |
| Intertidal Algal Scrapes | July |
| Intertidal Black Abalone | July |

2. Sediment Analysis

Results from analysis of the annual sediment samples are included in Appendix 6.

3. Stratified Water Temperatures

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

4. Dissolved Oxygen and pH of Receiving Waters

Dissolved oxygen and pH sampling are conducted in February, June, and October.

5. In Situ Bioassay

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

## APPENDIX 1

## Influent and Effluent Monitoring

July 1992

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JULY | * | | * | | * | | * | | * | | * | | * | | * | |
| 1 | | 53.2 | | 72.2 | | 19.0 | | 2550 | | | | | | | | |
| 2 | | 51.9 | | 70.8 | | 18.9 | | 2492 | | | | | | | | |
| 3 | | 51.6 | | 70.4 | | 18.8 | | 2492 | | | | | | | | |
| 4 | | 52.3 | | 71.3 | | 19.0 | | 2553 | | | | | | | | |
| 5 | | 51.8 | | 70.7 | | 18.9 | | 2557 | | | | | | | | |
| 6 | | 51.3 | | 70.3 | | 19.0 | | 2554 | | | | | | | | |
| 7 | | 52.2 | | 71.1 | | 18.9 | | 2542 | | | | | | | | |
| 8 | | 52.4 | | 71.4 | | 19.0 | | 2554 | | | | | | | | |
| 9 | | 52.8 | | 72.0 | | 19.2 | | 2548 | | | | | | | | |
| 10 | | 53.8 | | 73.0 | | 19.2 | | 2548 | | | | | | | 2 | 8.0 |
| 11 | | 55.1 | | 74.3 | | 19.2 | | 2550 | | | | | | | | |
| 12 | | 56.7 | | 76.0 | | 19.3 | | 2518 | | | | | | | | |
| 13 | | 56.2 | | 75.7 | | 19.5 | | 2552 | | | | | | | | |
| 14 | | 56.1 | | 75.5 | | 19.4 | | 2550 | | | | | | | | |
| [illegible] | | 54.4 | | 74.3 | | 19.9 | | 2557 | | | | | | | | |
| 16 | | 53.7 | | 73.4 | | 19.7 | | 2479 | | | | | | | | |
| 17 | | 53.1 | | 73.0 | | 19.9 | | 2555 | | | | | | | | |
| 18 | | 52.5 | | 72.3 | | 19.8 | | 2554 | | | | | | | | |
| 19 | | 51.5 | | 71.2 | | 19.7 | | 2297 | | | | | | | | |
| 20 | | 51.0 | | 70.3 | | 19.3 | | 2047 | | | | | | 7.8 | | |
| 21 | | 50.9 | | 70.0 | | 19.1 | | 2554 | | 7.9 | | 7.8 | | | | |
| 22 | | 51.8 | | 71.0 | | 19.2 | | 2559 | | | | | | | | |
| 23 | | 51.9 | | 71.3 | | 19.4 | | 2552 | | | | | | | | |
| 24 | | 52.5 | | 71.9 | | 19.4 | | 2555 | | | | | | | | |
| 25 | | 53.6 | | 73.2 | | 19.6 | | 2550 | | | | | | | | |
| 26 | | 53.3 | | 73.0 | | 19.7 | | 2550 | | | | | | | | |
| 27 | | 53.6 | | 73.3 | | 19.7 | | 2557 | | | | | | | | |
| 28 | | 53.8 | | 73.5 | | 19.7 | | 2548 | | | | | | | | |
| 29 | | 54.1 | | 73.9 | | 19.8 | | 2553 | | | | | | | | |
| 30 | | 53.7 | | 73.7 | | 20.0 | | 2556 | | | | | | | | |
| 31 | | 53.8 | | 73.9 | | 20.1 | | 2548 | | | | | | | | |
| MONTHLY AVG | | 53.1 | | 72.5 | | 19.4 | | 2520 | | | | | | | | 8.0 |
| MONTHLY HIGH | | 56.7 | | 76.0 | | 20.1 | | 2559 | | | | | | | | 8.0 |
| MONTHLY LOW | | 50.9 | | 70.0 | | 18.8 | | 2047 | | | | | | | | 8.0 |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MAX 22 =0 | | MAX 2760 = 0 | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT |
| TIMES EXCEEDED | | | | | | (**) | | | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

RKS:_(*)_Number_of_Samples_taken_during_the_day._(**)_Except During Demusseling.___________________________________
________(***)_Daily_when_discharging_chemical_cleaning_wastes_from_discharges_001D,_F,_I,_L_and/or_M.____________________

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John Kurmey [signature] | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | EFFLUENT 003<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 004<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 001N<br>OIL & GREASE<br>mg/l<br>COMPOSITE<br>WEEKLY | | EFFLUENT 001P<br>OIL & GREASE<br>mg/l<br>GRAB<br>WEEKLY (**) | | EFFLUENT 003<br>OIL & GREASE<br>mg/l<br>GRAB<br>WEEKLY (***) | | EFFLUENT 001F<br>OIL & GREASE<br>mg/l<br>GRAB<br>MONTHLY | | EFFLUENT 001<br>T CHLOR RES<br>ug/l<br>GRAB<br>2 per CYCLE | | EFFLUENT 001<br>CHLORINE USED<br>lbs/day<br>RECORDED<br>MONTHLY | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JULY | * | | * | | * | | * | | * | | * | | * | | * | |
| 1 | | | | | | | | | | | | | 4 | 7 | | 108 |
| 2 | | | | | | | | | | | | | 8 | 10 | | 216 |
| 3 | | | | | | 4 | | | | | | | 8 | 12 | | 216 |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | 4 | 6 | | 97 |
| 7 | | | | | | | | | | | | | 8 | 4 | | 216 |
| 8 | | | | | | 5 | | | | | | | 8 | 8 | | 216 |
| 9 | | | | | | | | | | | | | 8 | 11 | | 216 |
| 10 | | 7.7 | | | | | | | | | | | 8 | 5 | | 216 |
| 11 | | | | | | | | | | | | | | | | |
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| 14 | | | | 8.1 | | | | | | | | | 8 | 4 | | 216 |
| 15 | | | | | | | | | | | | | 8 | 4 | | 216 |
| 16 | | | | | | | | | | | | | 8 | 11 | | 216 |
| 17 | | | | | | 4 | | | | | | | | | | |
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| 20 | | | | | | | | | | | | | 6 | 6 | | 162 |
| 21 | | | | | | | | | | | | | 8 | 7 | | 216 |
| 22 | | | | | | | | | | | | | 8 | 7 | | 216 |
| 23 | | | | | | | | | | | | | 8 | 5 | | 216 |
| 24 | | | | | | 3 | | | | | | | 6 | 12 | | 162 |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | 3 | | | | | | | 6 | 12 | | 162 |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | <3 | | | | |
| 30 | | | | | | | | | | | | | 8 | 5 | | 216 |
| 31 | | | | | | | | | | | | | 8 | 6 | | 216 |
| MONTHLY AVG | | | | | | | NO DISCHARGE | | NO DISCHARGE | | | | | 7 | | 197 |
| MONTHLY HIGH | | | | | | | | | | | | | | 12 | | 216 |
| MONTHLY LOW | | | | | | | | | | | | | | 3 | | 97 |
| TIMES EXCEEDED | NO LIMIT | | NO LIMIT | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO 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 | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

KS:_(*)_Number_of_Samples_taken_during_the_day.
(**)_When_001N_is_discharging_to_001P.__(***)_When_001P_is_discharging_to_003.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kremayer | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFF 001N=>003 | EFF 001N=>003 | EFFLUENT 001D | | | EFFLUENT 001F | | |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | TOTL COLIFORM | FECAL COLIFORM | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| UNITS | 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 |
| SMPL TYPE | GRAB | GRAB | GRAB | | | GRAB | | |
| FREQ. | 4 TIMES/WEEK | 4 TIMES/WEEK | MONTHLY | | | MONTHLY | | |
| JULY | # | # | # | # | # | # | # | # |
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| 31 | | | | | | | | |
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | | | | | | |
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| MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED | 80% SMPLS>1K | MEAN>200=0 | NO LIMIT | NO LIMIT | MO AVG 30= 0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | =0 | 90% SMPLS>400 | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | I MAX >10K=0 | =0 | | | | | | |

KS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| JaRKremayn | 10/16/92 |

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



| | FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|
| - | 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001G | | | | | | EFFLUENT 001H | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | | | |
| UNITS | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | | | |
| SMPL TYPE | GRAB | | | | | | GRAB | | | | | | | | | |
| FREQ. | MONTHLY | | | | | | MONTHLY | | | | | | | | | |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| MONTHLY AVG | | | | | | | | | | | | | | | | |
| MONTHLY HIGH | | | | | | | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | | | | |
| TIMES EXCEEDED | | | | | D MAX 100 =0 | | | | | | D MAX 100 =0 | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| JaRR Kurenaga | 10/16/92 |

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



| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 07 / 01 | ENDING | 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001I | | | EFFLUENT 001J | | |
|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| UNITS | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| SMPL TYPE | GRAB | | | GRAB | | |
| FREQ. | MONTHLY | | | MONTHLY | | |

| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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|---|---|---|---|---|---|---|
| MONTHLY AVG<br>MONTHLY HIGH<br>MONTHLY LOW | NO DISCHARGE | | | NO DISCHARGE | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

[illegible]RKS:_(#)_Number_of_Samples_taken_during_the_day.______________________________________

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| J R Kremaya | 10/16/92 |

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
[illegible] 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) 6

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | | EFFLUENT 001K | | | | | | EFFLUENT 001L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | | |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | | |
| SMPL TYPE | | GRAB | | | | | | GRAB | | | | | | | | |
| FREQ. | | MONTHLY | | | | | | MONTHLY | | | | | | | | |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| 29 | | | | | | | | <1 | | <1 | 2 | <1 | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | NO DISCHARGE | | | | | | | | <1 | | | | |
| MONTHLY HIGH | | | | | | | | | | | | <1 | | | | |
| MONTHLY LOW | | | | | | | | | | | | <1 | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | | | |
| TIMES EXCEEDED | | | | | | D MAX 100 =0 | | | | | | D MAX 100 =0 | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| J R Kneemeyer | 8/16/92 |

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) 7

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 07 / 01 | ENDING | 92 / 07 / 31 | 06 | CA0003751 |

| STATION | | EFFLUENT 001M | | | | | | EFFLUENT 001N | | EFFLUENT 001P | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SUSPENDED SLDS | | SUSPENDED SOLIDS | | | | | | |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | |
| SMPL TYPE | | GRAB | | | | | | COMPOSITE | | GRAB | | | | | | |
| FREQ. | | MONTHLY | | | | | | WEEKLY | | MONTHLY | | | | | | |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| MONTHLY AVG | | | | | | | | 14 | | | | | | | | |
| MONTHLY HIGH | | | | | | | | 18 | | | | | | | | |
| MONTHLY LOW | | | | | | | | 9 | | | | | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | MO AVG 60 =0 | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | |
| TIMES EXCEEDED | | | | | | D MAX 100 =0 | | | | | | | | D MAX 100 =0 | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | | EFFLUENT 002 | | | | | | EFFLUENT 003 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | | |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | | |
| SMPL TYPE | | GRAB | | | | | | GRAB | | | | | | | | |
| FREQ. | | MONTHLY | | | | | | MONTHLY | | | | | | | | |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| MONTHLY AVG | | | | | | 2 | | | | | | | | | | |
| MONTHLY HIGH | | | | | | 3 | | | | | | | | | | |
| MONTHLY LOW | | | | | | 1 | | | | | | | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | NO LIMIT | | NO LIMIT | | NO LIMIT | | | | |
| TIMES EXCEEDED | | | | | | I MAX 100 =0 | | | | | | NO LIMIT | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jack R Knemeyer | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | # | --------------EFFLUENT 003--------------- | # | | # | | # | EFFLUENT 001N | # | EFFLUENT 001 | # | EFFLUENT 001 | # | EFFLUENT 001 | # | EFFLUENT 001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SETTL SOLIDS | | T CHROMIUM | | COPPER | | NICKEL | | ZINC |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | ml/l | | ug/l | | ug/l | | ug/l | | ug/l |
| SMPL TYPE | | GRAB | | | | | | GRAB | | GRAB | | GRAB | | GRAB | | GRAB |
| FREQ. | | WEEKLY WHEN 001N & 001P => 003 | | | | | | WEEKLY | | MONTHLY | | MONTHLY | | MONTHLY | | MONTHLY |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | | | | | | | | | | | | | | | |
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| 3 | | | | | | | | <0.1 | | | | | | | | |
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| [illegible] | | | | | | | | | | | | | | | | |
| [illegible] | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | 1 | | 3 | | 5 |
| 17 | | | | | | | | <0.1 | | 4 | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
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| 27 | | | | | | | | <0.1 | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | NO DISCHARGE | | <0.1 | | | | | | | | |
| MONTHLY HIGH | | | | | | | | <0.1 | | | | | | | | |
| MONTHLY LOW | | | | | | | | <0.1 | | | | | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | MO AVG 1.0 =0 | | 6M-MEAN 10 =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 | | D MAX 380 =0 |
| TIMES EXCEEDED | | | | | | | | | | I MAX 100 =0 | | I MAX 140 =0 | | I MAX 260 =0 | | I MAX 990 =0 |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
[illegible] 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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | INFLUENT<br>T CHROMIUM<br>ug/l<br>GRAB<br>JA/AP/JUL/OCT | INFLUENT<br>COPPER<br>ug/l<br>GRAB<br>JA/AP/JUL/OCT | INFLUENT<br>NICKEL<br>ug/l<br>GRAB<br>JA/AP/JUL/OCT | INFLUENT<br>AMMONIA (N)<br>ug/l<br>GRAB<br>JA/AP/JUL/OCT | EFFLUENT 001<br>AMMONIA (N)<br>ug/l<br>GRAB<br>JA/AP/JUL/OCT | EFFLUENT 001D<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | EFFLUENT 001G<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | EFFLUENT 001H<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT |
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| JULY | # | # | # | # | # | # | # | # |
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| 12 | | | | | | | | |
| 13 | | | | | | <3 | | |
| 16 | | 1 | 3 | | | | | |
| 17 | 4 | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | <3 | |
| 22 | | | | | | | | |
| 23 | | | | <50 | 67 | | | |
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| 31 | | | | | | | | |
| MONTHLY AVG<br>MONTHLY HIGH<br>MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED<br>TIMES EXCEEDED<br>TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | 6M-MEAN 3060 =0<br>D MAX 12240 =0<br>I MAX 30600 =0 | MO AVG 15 =0<br>D MAX 20 =0 | MO AVG 15 =0<br>D MAX 20 =0 | MO AVG 15 =0<br>D MAX 20 =0 |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

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 (Q) 2

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | EFFLUENT 001I<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 001J<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 001K<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 001L<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 001M<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 001P<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 002<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | | EFFLUENT 003<br>OIL & GREASE<br>mg/l<br>GRAB<br>JA/AP/JUL/OCT | |
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| MONTHLY AVG | NO DISCHARGE | | NO DISCHARGE | | NO DISCHARGE | | (##) | | | | | | | 6 | | |
| MONTHLY HIGH | | | | | | | | | | | | | | 13 | | |
| MONTHLY LOW | | | | | | | | | | | | | | <3 | | |
| TIMES EXCEEDED | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | |
| TIMES EXCEEDED | D MAX 20 =0 | | D MAX 20 =0 | | D MAX 20 =0 | | D MAX 20 =0 | | D MAX 20 =0 | | D MAX 20 =0 | | D MAX 20 =0 | | D MAX 20 =0 | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day._(##)_001G_G&O_perfromed_in_August.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John Kneeman | 10/14/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 004 | EFFLUENT 001 | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F | | |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | OIL & GREASE | TOX CONCEN | CADMIUM | CADMIUM | CADMIUM | CADMIUM | | |
| UNITS | mg/l | TU | ug/l | ug/l | ug/l | ug/l | | |
| SMPL TYPE | GRAB | GRAB | QTRLY COMP | QTRLY COMP | QTRLY COMP | 1 WEEK COMP | | |
| 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 | | |

| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| | EFFLUENT 004 | EFFLUENT 001 | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|---|---|---|---|---|---|---|
| MONTHLY AVG | | | | 24 | 1 | |
| MONTHLY HIGH | | | | 27 | 1 | |
| MONTHLY LOW | | | | 21 | 1 | |
| TIMES EXCEEDED | MO AVG 15 =0 | 6M-MEAN 0.26 | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT |
| TIMES EXCEEDED | D MAX 20 =0 | =0 | | | | |
| TIMES EXCEEDED | | | | | | |

R[illegible]KS:_(*)_Number_of_Samples_taken_during_the_day._(**)_No_mortalties.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| JoanR Kremenga | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001D | | EFFLUENT 001H | | EFFLUENT 001L | | EFFLUENT 001F | | EFFLUENT 001D | | EFFLUENT 001H | | EFFLUENT 001L | | EFFLUENT 001F | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | CHROMIUM | | T CHROMIUM | | T CHROMIUM | | T CHROMIUM | | COPPER | | COPPER | | COPPER | | COPPER | |
| UNITS | ug/l | | ug/l | | ug/l | | ug/l | | ug/l | | ug/l | | ug/l | | ug/l | |
| SMPL TYPE | QTRLY COMP | | QTRLY COMP | | QTRLY COMP | | 1 WEEK COMP | | QTRLY COMP | | QTRLY COMP | | QTRLY COMP | | 1 WEEK COMP | |
| 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 | |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| MONTHLY AVG. | | | | 118 | | 3 | | | | | | 390 | | 32 | | |
| MONTHLY HIGH | | | | 127 | | 3 | | | | | | 498 | | 49 | | |
| MONTHLY LOW | | | | 108 | | 3 | | | | | | 282 | | 14 | | |
| TIMES EXCEEDED | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

KS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R. Kremeyer | 10/16/92 |

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
[illegible] 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) 5

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | | EFFLUENT 001D<br>LEAD<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001H<br>LEAD<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001L<br>LEAD<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001F<br>LEAD<br>ug/l<br>1 WEEK COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001D<br>MERCURY<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001H<br>MERCURY<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001L<br>MERCURY<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001F<br>MERCURY<br>ug/l<br>1 WEEK COMP<br>JA/AP/JUL/OCT |
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| 10 | | 8 | 2 | 160 | 2 | 2 | | 6 | | 4.8 | 2 | <0.2 | 2 | <0.2 | | <0.2 |
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| MONTHLY AVG | | | | 160 | | 2 | | | | | | <0.2 | | <0.2 | | |
| MONTHLY HIGH | | | | 162 | | 4 | | | | | | <0.2 | | <0.2 | | |
| MONTHLY LOW | | | | 158 | | <1 | | | | | | <0.2 | | <0.2 | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |
| [illegible]S EXCEEDED | | | | | | | | | | | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kreme[illegible] | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | | EFFLUENT 001D<br>NICKEL<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001H<br>NICKEL<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001L<br>NICKEL<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001F<br>NICKEL<br>ug/l<br>1 WEEK COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001D<br>SILVER<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001H<br>SILVER<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001L<br>SILVER<br>ug/l<br>QTRLY COMP<br>JA/AP/JUL/OCT | | EFFLUENT 001F<br>SILVER<br>ug/l<br>1 WEEK COMP<br>JA/AP/JUL/OCT |
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| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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| MONTHLY AVG | | | | 148 | | 2 | | | | | | 29 | | 9 | | |
| MONTHLY HIGH | | | | 163 | | 2 | | | | | | 29 | | 10 | | |
| MONTHLY LOW | | | | 133 | | 2 | | | | | | 28 | | 8 | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day._

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| J R Kneman | 10/16/92 |

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 (Q) 7

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 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 | | QTRLY COMP | | QTRLY COMP | | QTRLY COMP | | 1 WEEK COMP |
| FREQ. | | JA/AP/JUL/OCT | | JA/AP/JUL/OCT | | JA/AP/JUL/OCT | | JA/AP/JUL/OCT |
| JULY | # | | # | | # | | # | |
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| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | 237 | 2 | 124 | 2 | 24 | | 180 |
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| 31 | | | | | | | | |
| MONTHLY AVG | | | | 124 | | 24 | | |
| MONTHLY HIGH | | | | 146 | | 25 | | |
| MONTHLY LOW | | | | 102 | | 22 | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT |
| TIMES EXCEEDED | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Knemeyer | 10/16/92 |

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) 8

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001D | | EFFLUENT 001F | | EFFLUENT 001I | | EFFLUENT 001L | | EFFLUENT 001M | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | COPPER | | COPPER | | COPPER | | COPPER | | COPPER | | | | | | | |
| UNITS | mg/l | | mg/l | | mg/l | | mg/l | | mg/l | | | | | | | |
| SMPL TYPE | 24-HR COMP. | | 24-HR COMP. | | 24-HR COMP. | | 24-HR COMP. | | 24-HR COMP. | | | | | | | |
| FREQ. | METAL CLNG | | METAL CLNG | | METAL CLNG | | METAL CLNG | | METAL CLNG | | | | | | | |
| JULY | # | | # | | # | | # | | # | | # | | # | | # | |
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|---|---|---|---|---|---|
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE |
| MONTHLY HIGH | | | | | |
| MONTHLY LOW | | | | | |
| TIMES EXCEEDED | MO AVG 1 =0 | MO AVG 1 =0 | MO AVG 1 =0 | MO AVG 1 =0 | MO AVG 1 =0 |
| TIMES EXCEEDED | D MAX 1 =0 | D MAX 1 =0 | D MAX 1 =0 | D MAX 1 =0 | D MAX 1 =0 |
| TIMES EXCEEDED | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Krenney | 10/16/92 |

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 (D) 9

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001D | | EFFLUENT 001F | | EFFLUENT 001I | | EFFLUENT 001L | | EFFLUENT 001M | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | IRON | | IRON | | IRON | | IRON | | IRON | | | | | |
| UNITS | mg/l | | mg/l | | mg/l | | mg/l | | mg/l | | | | | |
| SMPL TYPE | 24-HR COMP. | | 24-HR COMP. | | 24-HR COMP. | | 24-HR COMP. | | 24-HR COMP. | | | | | |
| FREQ. | METAL CLNG | | METAL CLNG | | METAL CLNG | | METAL CLNG | | METAL CLNG | | | | | |
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| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| MONTHLY AVG<br>MONTHLY HIGH<br>MONTHLY LOW | NO DISCHARGE | | NO DISCHARGE | | NO DISCHARGE | | NO DISCHARGE | | NO DISCHARGE | | | | | |
| TIMES EXCEEDED | MO AVG 1 =0 | | MO AVG 1 =0 | | MO AVG 1 =0 | | MO AVG 1 =0 | | MO AVG 1 =0 | | | | | |
| TIMES EXCEEDED | D MAX 1 =0 | | D MAX 1 =0 | | D MAX 1 =0 | | D MAX 1 =0 | | D MAX 1 =0 | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 07 / 01 | ENDING 92 / 07 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001 | INFLUENT | EFFLUENT | INFLUENT | EFFLUENT 001 | INFLUENT | EFFLUENT 001 | INFLUENT |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | TITANIUM | ARSENIC | ARSENIC | CADMIUM | CADMIUM | LEAD | LEAD | ZINC |
| 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. | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER |
| JULY | # | # | # | # | # | # | # | # |
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| 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 | |
| TIMES EXCEEDED | | | I MAX 400 =0 | | I MAX 50 =0 | | I MAX 100 =0 | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day._(##)_Influent_Zinc_analysis_performed_for_comparsion_with_Effluent._All_other_annual_analyses_will_be_performed_in_October.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jack R Knemaga | 10/16/92 |

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

(REV. 5/90)

| Sanitation and Operation Consultants, INC.<br>16340 E. Maplegrove Street<br>La Puente, CA 91744 | Pacific Gas and Electric Co.<br>Contacts:<br>Randy Falcke (805) 595-4362<br>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 | 7-3 | 8:45 | 4.3 mg/1 Ave of |
| 2. " | mg/l | " | 15 | 20 | 7-8 | 9:41 | 5.3 mg/1 Ave of |
| 3. " | mg/l | " | 15 | 20 | 7-17 | 9:56 | 3.7 mg/1 Ave of |
| 4. " | mg/l | " | 15 | 20 | 7-24 | 10:19 | 3.0 mg/1 Ave of |
| 5. " | mg/l | " | 15 | 20 | 7-27 | 2:31 | 3.0 mg/1 Ave of |
| 1. SUSPENDED SLDS | mg/l | WEEKLY | 60 | N/A | 7-3 | 8:31 | 16 mg/1 |
| 2. " | mg/l | " | 60 | N/A | 7-8 | 9:21 | 18 mg/1 |
| 3. " | mg/l | " | 60 | N/A | 7-17 | 9:40 | 10 mg/1 |
| 4. " | mg/l | " | 60 | N/A | 7-24 | 9:55 | 18 mg/1 |
| 5. " | mg/l | " | 60 | N/A | 7-27 | 2:15 | 9 mg/1 |
| 1. SETTLEABLE SLD | ml/l | WEEKLY | 1.0 | 3.0 | 7-3 | 8:57 | < 0.1 ml/1 |
| 2. " | ml/l | " | 1.0 | 3.0 | 7-8 | 9:39 | < 0.1 ml/1 |
| 3. " | ml/l | " | 1.0 | 3.0 | 7-17 | 10:00 | < 0.1 ml/1 |
| 4. " | ml/l | " | 1.0 | 3.0 | 7-24 | 2:00 | < 0.1 ml/1 |
| 5. " | ml/l | " | 1.0 | 3.0 | 7-27 | 2:10 | < 0.1 ml/1 |

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

COMMENTS: ______________________

### SLUDGE DISPOSAL DATA

| MONTH REMOVED | VOLUME REMOVED | WEIGHT REMOVED | DISPOSAL SITE |
|---|---|---|---|
| JULY 92 | | 2190 lbs | WALSH - NIPOMO |

DATA SHEET COMPLETED BY: Michael J. Bealley DATE: 8-5-92

APPENDIX 2

Influent and Effluent Monitoring

August 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. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | | INFLUENT<br>TEMPERATURE<br>DEGREES F<br>METERED<br>CONTINUOUS | | EFFLUENT 001<br>TEMPERATURE<br>DEGREES F<br>METERED<br>CONTINUOUS | | DELTA TEMP<br>TEMPERATURE<br>DEGREES F<br>METERED<br>CONTINUOUS | | EFFLUENT 001<br>FLOW<br>MGD<br>RECORDED<br>DAILY | | INFLUENT<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 001<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY (***) | | EFFLUENT 001P<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 002<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUGUST | * | | * | | * | | * | | * | | * | | * | | * | |
| 1 | | 53.5 | | 73.4 | | 19.9 | | 2532 | | | | | | | | |
| 2 | | 53.9 | | 73.0 | | 19.1 | | 2093 | | | | | | | | |
| 3 | | 53.3 | | 72.2 | | 18.9 | | 2545 | | | | | | | | |
| 4 | | 55.6 | | 74.4 | | 18.8 | | 2552 | | 7.8 | | 7.8 | | | | |
| 5 | | 55.9 | | 74.9 | | 19.0 | | 2543 | | | | | | | | |
| 6 | | 55.7 | | 74.7 | | 19.0 | | 2555 | | | | | | | | |
| 7 | | 56.5 | | 75.5 | | 19.0 | | 2557 | | | | | | 7.9 | 2 | 8.1 |
| 8 | | 57.2 | | 76.3 | | 19.1 | | 2550 | | | | | | | | |
| 9 | | 57.6 | | 74.3 | | 16.7 | | 2554 | | | | | | | | |
| 10 | | 57.2 | | 76.6 | | 19.4 | | 2557 | | | | | | | | |
| 11 | | 55.9 | | 75.6 | | 19.7 | | 2548 | | | | | | | | |
| 12 | | 55.5 | | 75.2 | | 19.7 | | 2552 | | | | | | | | |
| 13 | | 55.1 | | 73.8 | | 18.7 | | 2557 | | | | | | | | |
| | | 55.2 | | 74.0 | | 18.8 | | 2558 | | | | | | | | |
| | | 55.4 | | 75.2 | | 19.8 | | 2550 | | | | | | | | |
| 16 | | 55.6 | | 75.6 | | 20.0 | | 2557 | | | | | | | | |
| 17 | | 55.9 | | 76.1 | | 20.2 | | 2554 | | | | | | | | |
| 18 | | 55.9 | | 76.1 | | 20.2 | | 2550 | | | | | | | | |
| 19 | | 56.1 | | 76.4 | | 20.3 | | 2550 | | | | | | | | |
| 20 | | 55.2 | | 75.7 | | 20.5 | | 2492 | | | | | | | | |
| 21 | | 55.3 | | 75.7 | | 20.4 | | 2537 | | | | | | | | |
| 22 | | 55.1 | | 77.0 | | 21.9 | | 1926 | | | | | | | | |
| 23 | | 54.4 | | 76.4 | | 22.0 | | 1923 | | | | | | | | |
| 24 | | 54.9 | | 75.2 | | 20.3 | | 2542 | | | | | | | | |
| 25 | | 57.2 | | 78.1 | | 20.9 | | 2552 | | | | | | | | |
| 26 | | 57.0 | | 77.7 | | 20.7 | | 2555 | | | | | | | | |
| 27 | | 56.6 | | 77.3 | | 20.7 | | 2553 | | | | | | | | |
| 28 | | 56.7 | | 77.3 | | 20.6 | | 2530 | | | | | | | | |
| 29 | | 56.9 | | 77.8 | | 20.9 | | 1935 | | | | | | | | |
| 30 | | 58.6 | | 79.5 | | 20.9 | | 1932 | | | | | | | | |
| 31 | | 58.1 | | 77.3 | | 19.2 | | 2550 | | | | | | | | |
| MONTHLY AVG | | 55.9 | | 75.8 | | 19.8 | | 2453 | | | | | | | | 8.1 |
| MONTHLY HIGH | | 58.6 | | 79.5 | | 22.0 | | 2558 | | | | | | | | 8.1 |
| MONTHLY LOW | | 53.3 | | 72.2 | | 18.8 | | 1932 | | | | | | | | 8.1 |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MAX 22 =0 | | MAX 2760 = 0 | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT |
| TIMES EXCEEDED | | | | | | (**) | | | | | | | | | | |
| ES EXCEEDED | | | | | | | | | | | | | | | | |

ARKS: (*) Number of Samples taken during the day. (**) Except During Demusseling.
(***) Daily when discharging chemical cleaning wastes from discharges 001D, F, I, L and/or M.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jack R Knemeyer | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 003 | | EFFLUENT 004 | | EFFLUENT 001N | | EFFLUENT 001P | | EFFLUENT 003 | | EFFLUENT 001F | | EFFLUENT 001 | | EFFLUENT 001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | pH | | pH | | OIL & GREASE | | OIL & GREASE | | OIL & GREASE | | OIL & GREASE | | T CHLOR RES | | CHLORINE USED | |
| UNITS | pH UNITS | | pH UNITS | | mg/l | | mg/l | | mg/l | | mg/l | | ug/l | | lbs/day | |
| SMPL TYPE | GRAB | | GRAB | | COMPOSITE | | GRAB | | GRAB | | GRAB | | GRAB | | RECORDED | |
| FREQ. | MONTHLY | | MONTHLY | | WEEKLY | | WEEKLY (**) | | WEEKLY (***) | | MONTHLY | | 2 per CYCLE | | MONTHLY | |
| AUGUST | * | | * | | * | | * | | * | | * | | * | | * | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | 8 | 11 | | 216 |
| 4 | | | | | | | | | | | | | 8 | 5 | | 216 |
| 5 | | | | | | | | | | | | | 8 | 3 | | 216 |
| 6 | | | | | | <3 | | | | | | <3 | | | | |
| 7 | | 7.8 | | 8.1 | | | | | | | | | 8 | 5 | | 216 |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | 8 | 2 | | 216 |
| 11 | | | | | | | | | | | | | 8 | 6 | | 260 |
| 12 | | | | | | 3 | | | | | | | 8 | 7 | | 260 |
| 13 | | | | | | | | | | | | | 8 | 8 | | 288 |
| [illegible] | | | | | | | | | | | | | 8 | 11 | | 288 |
| [illegible] | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | 6 | 10 | | 216 |
| 20 | | | | | | | | | | | | | 8 | 33 | | 288 |
| 21 | | | | | | 3 | | | | | | | 8 | 18 | | 288 |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | 8 | 18 | | 288 |
| 25 | | | | | | | | | | | | | 8 | 5 | | 288 |
| 26 | | | | | | 11 | | | | | | | 8 | 5 | | 288 |
| 27 | | | | | | | | | | | | | 8 | 7 | | 288 |
| 28 | | | | | | | | | | | | | 4 | 7 | | 144 |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | 8 | 3 | | 288 |
| MONTHLY AVG | | | | | | 5 | | NO DISCHARGE | | NO DISCHARGE | | | | 9 | | 253 |
| MONTHLY HIGH | | | | | | 11 | | | | | | | | 33 | | 288 |
| MONTHLY LOW | | | | | | <3 | | | | | | | | 2 | | 144 |
| TIMES EXCEEDED | NO LIMIT | | NO LIMIT | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO 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 | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

REMARKS:_(*)_Number_of_Samples_taken_during_the_day.
________(**)_When_001N_is_discharging_to_001P.__(***)_When_001P_is_discharging_to_003.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kremeyer | 9/16/92 |

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. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 08 / 01 | ENDING | 92 / 08 / 31 | 06 | CA0003751 |

| STATION | | EFF 001N=>003 | | EFF 001N=>003 | | EFFLUENT 001D | | | | | | EFFLUENT 001F | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | TOTL COLIFORM | | FECAL COLIFORM | | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | |
| UNITS | | 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 |
| SMPL TYPE | | GRAB | | GRAB | | GRAB | | | | | | GRAB | | | | |
| FREQ. | | 4 TIMES/WEEK | | 4 TIMES/WEEK | | MONTHLY | | | | | | MONTHLY | | | | |
| AUGUST | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | 6 | | <1 | | 6 |
| 7 | | | | | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | <1 | | <1 | | <1 | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |

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

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kremeyer | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001G | | | EFFLUENT 001H | | |
|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| UNITS | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| SMPL TYPE | GRAB | | | GRAB | | |
| FREQ. | MONTHLY | | | MONTHLY | | |
| AUGUST | # | # | # | # | # | # |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | <1 | <1 | <1 | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | 8 | 7 | 1 |
| 12 | | | | | | |
| 13 | | | | | | |
| 16 | | | | | | |
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| 30 | | | | | | |
| 31 | | | | | | |
| MONTHLY AVG | | | | | | |
| MONTHLY HIGH | | | | | | |
| MONTHLY LOW | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kreimeyer | 10/16/92 |

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) 5

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 08 / 01 | ENDING | 92 / 08 / 31 | 06 | CA0003751 |

| STATION | --------------EFFLUENT 001I-------------- | | | | | | --------------EFFLUENT 001J-------------- | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | | | |
| UNITS | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | | | |
| SMPL TYPE | GRAB | | | | | | GRAB | | | | | | | | | |
| FREQ. | MONTHLY | | | | | | MONTHLY | | | | | | | | | |
| AUGUST | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |

| | EFFLUENT 001I | | | EFFLUENT 001J | | |
|---|---|---|---|---|---|---|
| MONTHLY AVG<br>MONTHLY HIGH<br>MONTHLY LOW | NO DISCHARGE | | | NO DISCHARGE | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R. Fnemaya | 10/16/92 |

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) 6

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 08 / 01 | ENDING | 92 / 08 / 31 | 06 | CA0003751 |

STATION: --------------EFFLUENT 001K-------------- --------------EFFLUENT 001L--------------
ANALYSIS: SUSPENDED SOLIDS / SUSPENDED SOLIDS
UNITS: mg/l 1st FLTR, mg/l 2nd FLTR, mg/l NET / mg/l 1st FLTR, mg/l 2nd FLTR, mg/l NET
SMPL TYPE: GRAB / GRAB
FREQ.: MONTHLY / MONTHLY

| AUGUST | # | 001K mg/l 1st FLTR | # | 001K mg/l 2nd FLTR | # | 001K mg/l NET | # | 001L mg/l 1st FLTR | # | 001L mg/l 2nd FLTR | # | 001L mg/l NET | # | | # | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | 2 | | <1 | | 2 | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
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| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | <1 | | <1 | | <1 | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| MONTHLY AVG<br>MONTHLY HIGH<br>MONTHLY LOW | | | NO DISCHARGE | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

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) 7

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001M | | | EFFLUENT 001N | EFFLUENT 001P | | |
|---|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | SUSPENDED SLDS | SUSPENDED SOLIDS | | |
| UNITS | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| SMPL TYPE | GRAB | | | COMPOSITE | GRAB | | |
| FREQ. | MONTHLY | | | WEEKLY | MONTHLY | | |

| AUGUST | # | | # | | # | | # | | # | | # | | # | | # | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | |
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| 6 | | | | | | | | 15 | | | | | | | | |
| 7 | | | | | | | | | | 30 | | 14 | | 15 | | |
| 8 | | | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |

| | 001M 1st FLTR | 001M 2nd FLTR | 001M NET | 001N | 001P 1st FLTR | 001P 2nd FLTR | 001P NET |
|---|---|---|---|---|---|---|---|
| MONTHLY AVG | | | NO DISCHARGE | 18 | | | |
| MONTHLY HIGH | | | | 31 | | | |
| MONTHLY LOW | | | | 5 | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | MO AVG 60 =0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jean R Kneringer | 10/16/92 |

| PG&E | CHEMISTRY SAMPLE DATA TABULAR REPORT | DCPP |
|---|---|---|

Unit: 0 NPDES
001 EFFLUENT CHLORINATION

From: 7/01/92 0:01
Through: 7/31/92 23:59

| Parameter:<br>High Limit:<br>Low Limit:<br>Sample Time: | CWP 1-1 1ST SMPL PPM | CWP 1-1 2ND SMPL PPM | CWP 1-2 1ST SMPL PPM | CWP 1-2 2ND SMPL PPM | CWP 2-1 1ST SMPL PPM | CWP 2-1 2ND SMPL PPM | CWP 2-2 1ST SMPL PPM | CWP 2-2 2ND SMPL PPM |
|---|---|---|---|---|---|---|---|---|
| 7/01/92 13:00 | | | | | 0.010 | 0.005 | 0.018 | 0.022 |
| 7/02/92 10:00 | 0.012 | 0.015 | 0.020 | 0.023 | 0.018 | 0.022 | 0.024 | 0.029 |
| 7/03/92 10:00 | 0.016 | 0.017 | 0.019 | 0.023 | 0.012 | 0.018 | 0.020 | 0.023 |
| 7/06/92 13:00 | | | | | 0.012 | 0.013 | 0.008 | 0.017 |
| 7/07/92 10:00 | 0.009 | 0.010 | <0.001 | <0.001 | 0.010 | 0.010 | 0.010 | 0.010 |
| 7/08/92 10:00 | 0.010 | 0.015 | 0.015 | 0.019 | 0.013 | 0.018 | 0.015 | 0.020 |
| 7/09/92 10:00 | 0.015 | 0.021 | 0.025 | 0.033 | 0.007 | 0.021 | 0.028 | 0.030 |
| 7/10/92 10:00 | 0.010 | 0.011 | 0.011 | 0.012 | 0.010 | 0.011 | 0.011 | 0.011 |
| 7/13/92 10:00 | 0.002 | 0.004 | 0.005 | 0.006 | 0.005 | 0.006 | 0.004 | 0.010 |
| 7/14/92 10:00 | 0.004 | 0.007 | 0.010 | 0.012 | 0.005 | 0.008 | 0.008 | 0.010 |
| 7/15/92 10:00 | 0.005 | 0.008 | 0.007 | 0.010 | 0.005 | 0.006 | 0.007 | 0.010 |
| 7/16/92 10:00 | 0.003 | 0.010 | 0.011 | 0.015 | 0.080 | 0.015 | 0.017 | 0.022 |
| 7/20/92 11:00 | | | 0.001 | 0.021 | 0.007 | 0.007 | 0.008 | 0.011 |
| 7/21/92 10:00 | 0.019 | 0.021 | 0.023 | 0.026 | 0.001 | 0.011 | 0.001 | 0.012 |
| 7/22/92 10:00 | 0.010 | 0.020 | 0.010 | 0.020 | 0.010 | 0.010 | 0.020 | 0.020 |
| 7/23/92 10:00 | 0.015 | 0.018 | 0.002 | 0.020 | 0.002 | 0.007 | 0.003 | 0.012 |
| 7/24/92 11:00 | | | 0.020 | 0.025 | 0.028 | 0.025 | 0.021 | 0.031 |
| 7/27/92 11:00 | | | 0.009 | 0.009 | 0.008 | 0.009 | 0.012 | 0.017 |
| 7/30/92 10:00 | 0.006 | 0.010 | 0.009 | 0.015 | 0.005 | 0.008 | 0.015 | 0.018 |
| 7/31/92 10:00 | 0.012 | 0.014 | 0.013 | 0.017 | 0.006 | 0.007 | 0.015 | 0.017 |



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)

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) 8

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 08 / 01 | ENDING | 92 / 08 / 31 | 06 | CA0003751 |

| STATION | | -EFFLUENT 002- | | | | | | EFFLUENT 003 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | | |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | | |
| SMPL TYPE | | GRAB | | | | | | GRAB | | | | | | | | |
| FREQ. | | MONTHLY | | | | | | MONTHLY | | | | | | | | |
| AUGUST | # | | # | | # | | # | | # | | # | | # | | # | |
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| 29 | | | | | | | | 11 | | 11 | | <1 | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | 6 | | | | | | 35 | | | | |
| MONTHLY HIGH | | | | | | 7 | | | | | | 69 | | | | |
| MONTHLY LOW | | | | | | 5 | | | | | | <1 | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | NO LIMIT | | NO LIMIT | | NO LIMIT | | | | |
| TIMES EXCEEDED | | | | | | I MAX 100 =0 | | | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Knemayer | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 003 | | | | | | EFFLUENT 001N | | EFFLUENT 001 | | EFFLUENT 001 | | EFFLUENT 001 | | EFFLUENT 001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | | | | SETTL SOLIDS | | T CHROMIUM | | COPPER | | NICKEL | | ZINC | |
| UNITS | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | ml/l | | ug/l | | ug/l | | ug/l | | ug/l | |
| SMPL TYPE | GRAB | | | | | | GRAB | | GRAB | | GRAB | | GRAB | | GRAB | |
| FREQ. | WEEKLY WHEN 001N & 001P => 003 | | | | | | WEEKLY | | MONTHLY | | MONTHLY | | MONTHLY | | MONTHLY | |
| AUGUST | # | | # | | # | | # | | # | | # | | # | | # | |
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| MONTHLY AVG | NO DISCHARGE | | | | | | <0.1 | | | | | | | | | |
| MONTHLY HIGH | | | | | | | <0.1 | | | | | | | | | |
| MONTHLY LOW | | | | | | | <0.1 | | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | MO AVG 1.0 =0 | | 6M-MEAN 10 =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 | | D MAX 380 =0 | |
| TIMES EXCEEDED | | | | | | | | | I MAX 100 =0 | | I MAX 140 =0 | | I MAX 260 =0 | | I MAX 990 =0 | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day._____________________________________________

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| JaR Kreimeyer | 10/16/92 |

| CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD | DISCHARGE SELF MONITORING REPORT | PACIFIC GAS AND ELECTRIC CO. |
|---|---|---|
| CENTRAL COAST REGION | | DIABLO CANYON NUCLEAR POWER PLANT |
| 1102A LAUREL LANE | | PO BOX 56 |
| SAN LUIS OBISPO,CA 93401 | | AVILA BEACH,CALIF 93424 |
| | | PAGE (Q) 1 |

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 08 / 01 | ENDING | 92 / 08 /.31 | 06 | CA0003751 |

| STATION | INFLUENT | INFLUENT | INFLUENT | INFLUENT | EFFLUENT 001 | EFFLUENT 001D | EFFLUENT 001G | EFFLUENT 001H |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | T CHROMIUM | COPPER | NICKEL | AMMONIA (N) | AMMONIA (N) | OIL & GREASE | OIL & GREASE | OIL & GREASE |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | mg/l | mg/l | mg/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 |
| AUGUST | # | # | # | # | # | # | # | # |
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| MONTHLY AVG | | | | | | | | |
| MONTHLY HIGH | | | | | | | | |
| MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | 6M-MEAN 3060 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO 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 | | | |

[illegible]ARKS:_(#)_Number_of_Samples_taken_during_the_day._(##)_Influent_metal_analysis_done_for_comparison_to_effluent_analysis._Other__
quarterly_analyses_performed_in_July.___________________________________________________

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jo[illegible] R Kreman[illegible] | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001I | EFFLUENT 001J | EFFLUENT 001K | EFFLUENT 001L | EFFLUENT 001M | EFFLUENT 001P | EFFLUENT 002 | EFFLUENT 003 |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE |
| UNITS | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/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 |
| AUGUST | # | # | # | # | # | # | # | # |
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| MONTHLY AVG | | | | <3 | | | | |
| MONTHLY HIGH | | | | <3 | | | | |
| MONTHLY LOW | | | | <3 | | | | |
| TIMES EXCEEDED | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 |
| TIMES EXCEEDED | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 |
| TIMES EXCEEDED | | | | | | | | |

RKS:_(*)_Number_of_Samples_taken_during_the_day._(**)_001L_Oil_&_Grease_analyzed_for_operational_monitoring._Other quarterly_analyses_performed_in_July.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Knemaya | 10/16/92 |

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 (A) 1

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 08 / 01 | ENDING 92 / 08 / 31 | 06 | CA0003751 |

| STATION | EFFLUENT 001 | INFLUENT | EFFLUENT | INFLUENT | EFFLUENT 001 | INFLUENT | EFFLUENT 001 | INFLUENT |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | TITANIUM | ARSENIC | ARSENIC | CADMIUM | CADMIUM | LEAD | LEAD | ZINC |
| 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. | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER |
| AUGUST | * | * | * | * | * | * | * | * |
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| 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 | |
| TIMES EXCEEDED | | | I MAX 400 =0 | | I MAX 50 =0 | | I MAX 100 =0 | |

REMARKS:_(*)_Number_of_Samples_taken_during_the_day._(**)_Influent_Zinc_analysis_done_for_comparison_to_effluent._All_other_annual__analyses_will_be_performed_in_October.___________________________

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kreniager | 10/16/92 |

| PG&E | CHEMISTRY SAMPLE DATA TABULAR REPORT | DCPP |
|---|---|---|

Unit: 0 NPDES
001 EFFLUENT CHLORINATION

From: 8/01/92 0:01
Through: 8/31/92 23:59

| Parameter:<br>High Limit:<br>Low Limit: | CWP 1-1 1ST SMPL | CWP 1-1 2ND SMPL | CWP 1-2 1ST SMPL | CWP 1-2 2ND SMPL | CWP 2-1 1ST SMPL | CWP 2-1 2ND SMPL | CWP 2-2 1ST SMPL | CWP 2-2 2ND SMPL |
|---|---|---|---|---|---|---|---|---|
| Sample Time: | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| 8/03/92 10:00 | 0.012 | 0.012 | 0.018 | 0.018 | 0.026 | 0.026 | 0.029 | 0.030 |
| 8/04/92 10:00 | 0.001 | 0.008 | 0.004 | 0.015 | 0.004 | 0.012 | 0.012 | 0.019 |
| 8/05/92 10:00 | 0.002 | 0.004 | 0.001 | 0.007 | 0.004 | 0.007 | 0.006 | 0.009 |
| 8/07/92 10:00 | 0.004 | 0.009 | 0.010 | 0.012 | 0.009 | 0.009 | 0.010 | 0.014 |
| 8/10/92 10:00 | 0.002 | 0.006 | 0.004 | 0.007 | 0.002 | 0.004 | 0.004 | 0.006 |
| 8/11/92 10:00 | 0.006 | 0.008 | 0.011 | 0.014 | 0.010 | 0.013 | 0.015 | 0.017 |
| 8/12/92 10:00 | 0.002 | 0.011 | 0.012 | 0.020 | 0.011 | 0.015 | 0.020 | 0.026 |
| 8/13/92 10:00 | 0.004 | 0.015 | 0.009 | 0.020 | 0.015 | 0.020 | 0.019 | 0.025 |
| 8/14/92 10:00 | 0.008 | 0.009 | 0.016 | 0.021 | 0.023 | 0.028 | 0.034 | 0.035 |
| 8/19/92 11:00 | | | 0.004 | 0.009 | 0.020 | 0.020 | 0.020 | 0.020 |
| 8/20/92 10:00 | 0.020 | 0.050 | 0.050 | 0.090 | 0.060 | 0.070 | 0.090 | 0.090 |
| 8/21/92 10:00 | 0.010 | 0.015 | 0.019 | 0.025 | 0.035 | 0.045 | 0.065 | 0.070 |
| 8/24/92 10:00 | 0.025 | 0.030 | 0.050 | 0.048 | 0.025 | 0.030 | 0.035 | 0.042 |
| 8/25/92 10:00 | 0.008 | 0.008 | 0.011 | 0.011 | 0.008 | 0.010 | 0.010 | 0.010 |
| 8/26/92 10:00 | 0.007 | 0.008 | 0.011 | 0.011 | 0.006 | 0.008 | 0.010 | 0.011 |
| 8/27/92 10:00 | 0.009 | 0.014 | 0.018 | 0.022 | 0.011 | 0.011 | 0.011 | 0.011 |
| 8/28/92 10:00 | 0.008 | 0.010 | 0.020 | 0.020 | | | | |
| 8/31/92 10:00 | <0.001 | <0.001 | 0.008 | 0.012 | 0.005 | 0.008 | 0.006 | 0.008 |



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)

PACIFIC GAS & ELECTRIC - DIABLO CANYON POWER PLANT
SANITARY WASTEWATER TREATMENT SYSTEM
CONTRACT # Z78-2104-86 (REV. 5/90)

| | |
|---|---|
| Sanitation and Operation Consultants, INC.<br>16340 E. Maplegrove Street<br>La Puente, CA 91744 | Pacific Gas and Electric Co.<br>Contacts:<br>Randy Falcke (805) 595-4362<br>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 | 8-6 | 6:41 | < 3 mg/1 Ave of 3 |
| 2. " | mg/l | " | 15 | 20 | 8-12 | 3:00 | 3.3 mg/1 " " " |
| 3. " | mg/l | " | 15 | 20 | 8-21 | 10:00 | 3 mg/1 " " " |
| 4. " | mg/l | " | 15 | 20 | 8-26 | 9:12 | 10.7 mg/1 Ave of |
| 5. " | mg/l | " | 15 | 20 | | | |
| 1. SUSPENDED SLDS | mg/l | WEEKLY | 60 | N/A | 8-6 | 6:27 | 15 mg/1 |
| 2. " | mg/l | " | 60 | N/A | 8-12 | 2:40 | 5 mg/1 |
| 3. " | mg/l | " | 60 | N/A | 8-21 | 9:34 | 31 mg/1 |
| 4. " | mg/l | " | 60 | N/A | 8-26 | 8:52 | 19 mg/1 |
| 5. " | mg/l | " | 60 | N/A | | | |
| 1. SETTLEABLE SLD | ml/l | WEEKLY | 1.0 | 3.0 | 8-6 | 6:37 | <0.1 ml/1 |
| 2. " | ml/l | " | 1.0 | 3.0 | 8-12 | 3:04 | < 0.1 ml/1 |
| 3. " | ml/l | " | 1.0 | 3.0 | 8-21 | 10:05 | < 0.1 ml/1 |
| 4. " | ml/l | " | 1.0 | 3.0 | 8-26 | 9:24 | < 0.1 ml/1 |
| 5. " | ml/l | " | 1.0 | 3.0 | | | |

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

COMMENTS: ______

SLUDGE DISPOSAL DATA

| MONTH REMOVED | VOLUME REMOVED | WEIGHT REMOVED | DISPOSAL SITE |
|---|---|---|---|
| AUGUST 1992 | | 3356 lbs | WALSH - NIPOMO |

DATA SHEET COMPLETED BY: Michael J. Bulley DATE: 9-2-92

# APPENDIX 3

## Influent and Effluent Monitoring

September 1992

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
[illegible] 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. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | | INFLUENT<br>TEMPERATURE<br>DEGREES F<br>METERED<br>CONTINUOUS | | EFFLUENT 001<br>TEMPERATURE<br>DEGREES F<br>METERED<br>CONTINUOUS | | DELTA TEMP<br>TEMPERATURE<br>DEGREES F<br>METERED<br>CONTINUOUS | | EFFLUENT 001<br>FLOW<br>MGD<br>RECORDED<br>DAILY | | INFLUENT<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 001<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY (###) | | EFFLUENT 001P<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 002<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | 57.4 | | 77.0 | | 19.6 | | 2536 | | | | | | | | |
| 2 | | 57.0 | | 75.1 | | 18.1 | | 2486 | | | | | | | | |
| 3 | | 55.7 | | 75.8 | | 20.1 | | 2562 | | | | | | | | |
| 4 | | 54.3 | | 73.2 | | 18.9 | | 2562 | | | | | | | | |
| 5 | | 53.4 | | 72.4 | | 19.0 | | 2563 | | | | | | | | |
| 6 | | 54.2 | | 73.3 | | 19.1 | | 2561 | | | | | | | | |
| 7 | | 56.1 | | 75.5 | | 19.4 | | 2561 | | | | | | | | |
| 8 | | 56.9 | | 75.8 | | 18.9 | | 2567 | | | | | | | | |
| 9 | | 56.0 | | 75.4 | | 19.4 | | 2557 | | | | | | | | |
| 10 | | 56.0 | | 75.3 | | 19.3 | | 2559 | | 7.7 | | 7.8 | | | | |
| 11 | | 54.9 | | 74.3 | | 19.4 | | 2559 | | | | | | | | |
| 12 | | 55.4 | | 73.7 | | 18.3 | | 2559 | | | | | | | | |
| 13 | | 56.5 | | 67.3 | | 10.8 | | 2564 | | | | | | | | |
| [illegible] | | 57.9 | | 75.9 | | 18.0 | | 1677 | | | | | | | | |
| [illegible] | | 58.6 | | 76.7 | | 18.1 | | 1295 | | | | | | | 2 | 7.6 |
| 16 | | 59.0 | | 77.0 | | 18.0 | | 1288 | | | | | | | | |
| 17 | | 58.1 | | 76.6 | | 18.5 | | 1295 | | | | | | | | |
| 18 | | 56.7 | | 75.4 | | 18.7 | | 1299 | | | | | | 7.9 | | |
| 19 | | 56.8 | | 75.5 | | 18.7 | | 1295 | | | | | | | | |
| 20 | | 56.5 | | 75.4 | | 18.9 | | 1297 | | | | | | | | |
| 21 | | 56.3 | | 75.5 | | 19.2 | | 1297 | | | | | | | | |
| 22 | | 55.4 | | 74.5 | | 19.1 | | 1312 | | | | | | | | |
| 23 | | 55.3 | | 74.4 | | 19.1 | | 1300 | | | | | | | | |
| 24 | | 55.5 | | 74.2 | | 18.7 | | 1298 | | | | | | | | |
| 25 | | 54.3 | | 73.0 | | 18.7 | | 1297 | | | | | | | | |
| 26 | | 55.3 | | 74.1 | | 18.8 | | 1297 | | | | | | | | |
| 27 | | 55.6 | | 74.4 | | 18.8 | | 1299 | | | | | | | | |
| 28 | | 55.9 | | 74.7 | | 18.8 | | 1295 | | | | | | | | |
| 29 | | 56.1 | | 74.8 | | 18.7 | | 1296 | | | | | | | | |
| 30 | | 56.6 | | 75.2 | | 18.6 | | 1296 | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | 56.1 | | 74.7 | | 18.6 | | 1854 | | | | | | | | 7.6 |
| MONTHLY HIGH | | 59.0 | | 77.0 | | 20.1 | | 2567 | | | | | | | | 7.9 |
| MONTHLY LOW | | 53.4 | | 67.3 | | 10.8 | | 1288 | | | | | | | | 7.3 |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MAX 22 =0 (##) | | MAX 2760 = 0 | | NO LIMIT | | NO LIMIT | | NO LIMIT | | NO LIMIT |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |
| [illegible] EXCEEDED | | | | | | | | | | | | | | | | |

[illegible]ARKS:_(#)_Number_of_Samples_taken_during_the_day._(##)_Except During Demusseling.
________(###)_Daily_when_discharging_chemical_cleaning_wastes_from_discharges_001D,_F,_I,_L_and/or_M.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [illegible signature] | 10/16/92 |

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



| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 09 / 01 | ENDING | 92 / 09 / 30 | 06 | CA0003751 |

| STATION<br>ANALYSIS<br>UNITS<br>SMPL TYPE<br>FREQ. | EFFLUENT 003<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 004<br>pH<br>pH UNITS<br>GRAB<br>MONTHLY | | EFFLUENT 001N<br>OIL & GREASE<br>mg/l<br>COMPOSITE<br>WEEKLY | | EFFLUENT 001P<br>OIL & GREASE<br>mg/l<br>GRAB<br>WEEKLY (**) | | EFFLUENT 003<br>OIL & GREASE<br>mg/l<br>GRAB<br>WEEKLY (***) | | EFFLUENT 001F<br>OIL & GREASE<br>mg/l<br>GRAB<br>MONTHLY | | EFFLUENT 001<br>T CHLOR RES<br>ug/l<br>GRAB<br>2 per CYCLE | | EFFLUENT 001<br>CHLORINE USED<br>lbs/day<br>RECORDED<br>MONTHLY | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEPTEMBER | * | | * | | * | | * | | * | | * | | * | | * | |
| 1 | | | | | | | | | | | | | 8 | 5 | | 288 |
| 2 | | | | | | | | | | | | | 8 | 8 | | 288 |
| 3 | | | | | | 7 | | | | | | | 8 | 7 | | 288 |
| 4 | | | | | | | | | | | | | 8 | 11 | | 288 |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | 8 | 4 | | 288 |
| 8 | | | | | | | | | | | | | 6 | 7 | | 210 |
| 9 | | | | | | | | | | | | <3 | 8 | 10 | | 288 |
| 10 | | | | | | 6 | | | | | | | 8 | 7 | | 288 |
| 11 | | | | | | | | | | | | | 8 | 12 | | 288 |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | 8.0 | | | | | | | | | 4 | 4 | | 108 |
| 16 | | | | | | | | | | | | | 4 | 8 | | 108 |
| 17 | | 7.8 | | | | 4 | | | | | | | 4 | 8 | | 108 |
| 18 | | | | | | | | | | | | | 4 | 11 | | 108 |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | 4 | 7. | | 108 |
| 22 | | | | | | 5 | | | | | | | 4 | 5 | | 108 |
| 23 | | | | | | | | | | | | | 4 | 5 | | 108 |
| 24 | | | | | | | | | | | | | 4 | 19 | | 108 |
| 25 | | | | | | | | | | | | | 4 | 26 | | 108 |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | 4 | 22 | | 108 |
| 29 | | | | | | | | | | | | | 4 | 9 | | 108 |
| 30 | | | | | | | | | | | | | 4 | 9 | | 108 |
| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | 6 | | NO DISCHARGE | | NO DISCHARGE | | | | 9 | | 181 |
| MONTHLY HIGH | | | | | | 7 | | | | | | | | 26 | | 288 |
| MONTHLY LOW | | | | | | 4 | | | | | | | | 4 | | 108 |
| TIMES EXCEEDED | NO LIMIT | | NO LIMIT | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO AVG 15 =0 | | MO 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 | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

[REMARK]S:_(*)_Number_of_Samples_taken_during_the_day.
(**)_When_001N_is_discharging_to_001P.__(***)_When_001P_is_discharging_to_003.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Knemeyer | 10/16/92 |

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
[illegible] 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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION | | EFF 001N=>003 | | EFF 001N=>003 | | -------------EFFLUENT 001D | | | | ------------- | | -------------EFFLUENT 001F | | | | ------------- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | TOTL COLIFORM | | FECAL COLIFORM | | | | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | |
| UNITS | | 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 |
| SMPL TYPE | | GRAB | | GRAB | | | | GRAB | | | | | | GRAB | | |
| FREQ. | | 4 TIMES/WEEK | | 4 TIMES/WEEK | | | | MONTHLY | | | | | | MONTHLY | | |
| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | | | | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 13 | | <1 | | 13 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | 7 | | <1 | | 7 | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | | | | | | |
| MONTHLY HIGH | | | | | | | | |
| MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED | 80% SMPLS>1K | MEAN>200=0 | NO LIMIT | NO LIMIT | MO AVG 30= 0 | NO LIMIT | NO LIMIT | MO AVG 30 =0 |
| TIMES EXCEEDED | =0 | 90% SMPLS>400 | | | D MAX 100 =0 | | | D MAX 100 =0 |
| [illegible] EXCEEDED | I MAX >10K=0 | =0 | | | | | | |

[illegible]KS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R Kneneman | 10/14/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION | # | EFFLUENT 001G | # | | # | | # | EFFLUENT 001H | # | | # | | # | | # | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | | |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | | |
| SMPL TYPE | | GRAB | | | | | | GRAB | | | | | | | | |
| FREQ. | | MONTHLY | | | | | | MONTHLY | | | | | | | | |
| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | | | | | | | | | | | | | | | |
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| [illegible] | | | | | | | | | | | | | | | | |
| [illegible] | | <1 | | <1 | | <1 | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | | | | | | | | | | | |
| MONTHLY HIGH | | | | | | | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | | | | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | | | |
| TIMES EXCEEDED | | | | | | D MAX 100 =0 | | | | | | D MAX 100 =0 | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jack Knemeyer | 10/16/92 |

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) 5

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 09 / 01 | ENDING | 92 / 09 / 30 | 06 | CA0003751 |

| STATION | --------------EFFLUENT 001I-------------- | | | | | | --------------EFFLUENT 001J-------------- | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | | | | SUSPENDED SOLIDS | | | | | | | |
| UNITS | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | | |
| SMPL TYPE | GRAB | | | | | | GRAB | | | | | | | |
| FREQ. | MONTHLY | | | | | | MONTHLY | | | | | | | |
| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | |
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| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | <1 | | <1 | | <1 | | |
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| 31 | | | | | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| MONTHLY AVG | | | NO DISCHARGE | | | |
| 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 |
| TIMES EXCEEDED | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R. Kreman | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

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

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION | # | EFFLUENT 001M | # | | # | | # | EFFLUENT 001N | # | EFFLUENT 001P | # | | # | | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | | SUSPENDED SOLIDS | | | | | | SUSPENDED SLDS | | SUSPENDED SOLIDS | | | | | |
| UNITS | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | | mg/l | | mg/l 1st FLTR | | mg/l 2nd FLTR | | mg/l NET | |
| SMPL TYPE | | GRAB | | | | | | COMPOSITE | | GRAB | | | | | |
| FREQ. | | MONTHLY | | | | | | WEEKLY | | MONTHLY | | | | | |
| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | | # |
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| 31 | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | NO DISCHARGE | | 28 | | | | | | | |
| MONTHLY HIGH | | | | | | | | 40 | | | | | | | |
| MONTHLY LOW | | | | | | | | 17 | | | | | | | |
| TIMES EXCEEDED | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | | MO AVG 60 =0 | | NO LIMIT | | NO LIMIT | | MO AVG 30 =0 | |
| TIMES EXCEEDED | | | | | | D MAX 100 =0 | | | | | | | | D MAX 100 =0 | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| [signature] | 10/16/92 |

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) 8

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 09 / 01 | ENDING | 92 / 09 / 30 | 06 | CA0003751 |

| STATION | EFFLUENT 002 | | | EFFLUENT 003 | | |
|---|---|---|---|---|---|---|
| ANALYSIS | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| UNITS | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| SMPL TYPE | GRAB | | | GRAB | | |
| FREQ. | MONTHLY | | | MONTHLY | | |

| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | | # | |
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| [illegible] | | | | | | | | | | | | | | | | |
| [illegible] | | 14 | | 10 | 2 | 4 | | | | | | | | | | |
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| MONTHLY AVG | | | 4 | | | |
| MONTHLY HIGH | | | 5 | | | |
| MONTHLY LOW | | | 2 | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | NO LIMIT | NO LIMIT | NO LIMIT |
| TIMES EXCEEDED | | | I MAX 100 =0 | | | NO LIMIT |
| TIMES EXCEEDED | | | | | | |

REMARKS:_(#)_Number_of_Samples_taken_during_the_day.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Jack R Knemeyer | 10/16/92 |

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



| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION / ANALYSIS / UNITS / SMPL TYPE / FREQ. | # | EFFLUENT 003 SUSPENDED SOLIDS mg/l 1st FLTR GRAB WEEKLY WHEN 001N & 001P => 003 | # | EFFLUENT 003 SUSPENDED SOLIDS mg/l 2nd FLTR | # | EFFLUENT 003 SUSPENDED SOLIDS mg/l NET | # | EFFLUENT 001N SETTL SOLIDS ml/l GRAB WEEKLY | # | EFFLUENT 001 T CHROMIUM ug/l GRAB MONTHLY | # | EFFLUENT 001 COPPER ug/l GRAB MONTHLY | # | EFFLUENT 001 NICKEL ug/l GRAB MONTHLY | # | EFFLUENT 001 ZINC ug/l GRAB MONTHLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEPTEMBER | # | | # | | # | | # | | # | | # | | # | | # | |
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| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | <0.1 | | <1 | | 1 | | 1 | | 1 |
| 11 | | | | | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | <0.1 | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | <0.1 | | | | | | | | |
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| MONTHLY AVG | | | | | | NO DISCHARGE | | <0.1 | | | | | | | | |
| MONTHLY HIGH | | | | | | | | <0.1 | | | | | | | | |
| MONTHLY LOW | | | | | | | | <0.1 | | | | | | | | |

| | 003 1st FLTR | 003 2nd FLTR | 003 NET | 001N SETTL SOLIDS | 001 T CHROMIUM | 001 COPPER | 001 NICKEL | 001 ZINC |
|---|---|---|---|---|---|---|---|---|
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MO AVG 30 =0 | MO AVG 1.0 =0 | 6M-MEAN 10 =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 | D MAX 380 =0 |
| TIMES EXCEEDED | | | | | I MAX 100 =0 | I MAX 140 =0 | I MAX 260 =0 | I MAX 990 =0 |

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

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| J. R. Kinemaga | 10/16/92 |

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 (Q) 1

| FACILITY I.D. | | YEAR/ MO / DAY | | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|---|---|
| 3 402003001 | BEGINNING | 92 / 09 / 01 | ENDING | 92 / 09 / 30 | 06 | CA0003751 |

| STATION | INFLUENT | INFLUENT | INFLUENT | INFLUENT | EFFLUENT 001 | EFFLUENT 001D | EFFLUENT 001G | EFFLUENT 001H |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | T CHROMIUM | COPPER | NICKEL | AMMONIA (N) | AMMONIA (N) | OIL & GREASE | OIL & GREASE | OIL & GREASE |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | mg/l | mg/l | mg/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 |
| SEPTEMBER | # | # | # | # | # | # | # | # |
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| MONTHLY AVG | | | | | | | | |
| MONTHLY HIGH | | | | | | | | |
| MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | 6M-MEAN 3060 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO 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 | | | |

REMARKS: (#) Number of Samples taken during the day. (##) Influent metal analysis performed for comparison to Effluent analysis. Other quarterly analyses performed in July.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R. Kreman | 10/16/92 |

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 (Q) 2

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION | EFFLUENT 001I | EFFLUENT 001J | EFFLUENT 001K | EFFLUENT 001L | EFFLUENT 001M | EFFLUENT 001P | EFFLUENT 002 | EFFLUENT 003 |
|---|---|---|---|---|---|---|---|---|
| ANALYSIS | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE |
| UNITS | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/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 |

| SEPTEMBER | # | 001I | # | 001J | # | 001K | # | 001L | # | 001M | # | 001P | # | 002 | # | 003 |
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| MONTHLY AVG | | | | | | | | | | | | | | | | |
| MONTHLY HIGH | | | | | | | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | | | | | | | |

| | 001I | 001J | 001K | 001L | 001M | 001P | 002 | 003 |
|---|---|---|---|---|---|---|---|---|
| TIMES EXCEEDED | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 | MO AVG 15 =0 |
| TIMES EXCEEDED | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 |
| TIMES EXCEEDED | | | | | | | | |

REMARKS: (*) Number of Samples taken during the day. (**) 001J Oil & Grease performed in September rather than July. Other quarterly analyses performed in July.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| Joak Kremag | 10/14/92 |

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 (A) 1

| FACILITY I.D. | YEAR/ MO / DAY | YEAR/ MO /DAY | STATE CODE | NPDES PERMIT # |
|---|---|---|---|---|
| 3 402003001 | BEGINNING 92 / 09 / 01 | ENDING 92 / 09 / 30 | 06 | CA0003751 |

| STATION | EFFLUENT 001 | | INFLUENT | | EFFLUENT | | INFLUENT | | EFFLUENT 001 | | INFLUENT | | EFFLUENT 001 | | INFLUENT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS | TITANIUM | | ARSENIC | | ARSENIC | | CADMIUM | | CADMIUM | | LEAD | | LEAD | | ZINC | |
| 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. | OCTOBER | | OCTOBER | | OCTOBER | | OCTOBER | | OCTOBER | | OCTOBER | | OCTOBER | | OCTOBER | |
| SEPTEMBER | * | | * | | * | | * | | * | | * | | * | | * | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | (**)12 |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | (**)12 |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | | | | | | | | | | | 12 |
| MONTHLY HIGH | | | | | | | | | | | | | | | | 12 |
| MONTHLY LOW | | | | | | | | | | | | | | | | 12 |
| 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 | | | |
| TIMES EXCEEDED | | | | | I MAX 400 =0 | | | | I MAX 50 =0 | | | | I MAX 100 =0 | | | |

REMARKS:_(*)_Number_of_Samples_taken_during_the_day._(**)_Influent_Zinc_analysis_performed_for_comparison_to_effluent._All_other__annual_analysis_will_be_performed_in_October.

| PRINCIPAL EXECUTIVE OFFICER |
|---|
| GREGORY M. RUEGER |

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| John R. Knemeyer | 10/14/92 |

| PG&E | CHEMISTRY SAMPLE DATA TABULAR REPORT | DCPP |
|---|---|---|

Unit: 0 NPDES
001 EFFLUENT CHLORINATION

From: 9/01/92 0:01
Through: 9/30/92 23:59

| Parameter: / High Limit: / Low Limit: / Sample Time: | CWP 1-1 1ST SMPL PPM | CWP 1-1 2ND SMPL PPM | CWP 1-2 1ST SMPL PPM | CWP 1-2 2ND SMPL PPM | CWP 2-1 1ST SMPL PPM | CWP 2-1 2ND SMPL PPM | CWP 2-2 1ST SMPL PPM | CWP 2-2 2ND SMPL PPM |
|---|---|---|---|---|---|---|---|---|
| 9/01/92 10:00 | 0.006 | 0.010 | 0.003 | 0.015 | 0.005 | 0.010 | 0.008 | 0.015 |
| 9/02/92 10:00 | 0.015 | 0.018 | 0.012 | 0.020 | 0.010 | 0.019 | 0.018 | 0.021 |
| 9/03/92 10:00 | 0.008 | 0.015 | 0.007 | 0.012 | 0.012 | 0.017 | 0.015 | 0.020 |
| 9/04/92 10:00 | 0.019 | 0.022 | 0.020 | 0.026 | 0.016 | 0.028 | 0.021 | 0.030 |
| 9/07/92 10:00 | 0.005 | 0.015 | 0.007 | 0.014 | 0.006 | 0.009 | 0.004 | 0.010 |
| 9/08/92 10:00 | 0.003 | 0.004 | 0.003 | 0.004 | | | 0.027 | 0.040 |
| 9/09/92 10:00 | <0.001 | 0.010 | <0.001 | 0.008 | 0.025 | 0.030 | 0.040 | 0.045 |
| 9/10/92 10:00 | 0.006 | 0.009 | 0.006 | 0.007 | 0.020 | 0.026 | 0.018 | 0.023 |
| 9/11/92 10:00 | <0.002 | 0.025 | 0.020 | 0.027 | 0.002 | 0.040 | 0.042 | 0.050 |
| 9/15/92 13:00 | | | | | 0.002 | 0.004 | 0.003 | 0.005 |
| 9/16/92 13:00 | | | | | 0.004 | 0.008 | 0.008 | 0.011 |
| 9/17/92 13:00 | | | | | 0.005 | 0.007 | 0.009 | 0.012 |
| 9/18/92 13:00 | | | | | 0.008 | 0.010 | 0.011 | 0.015 |
| 9/21/92 13:00 | | | | | 0.006 | 0.009 | 0.007 | 0.006 |
| 9/22/92 13:00 | | | | | 0.004 | 0.006 | 0.005 | 0.006 |
| 9/23/92 13:00 | | | | | 0.004 | 0.006 | 0.003 | 0.006 |
| 9/24/92 13:00 | | | | | 0.017 | 0.017 | 0.015 | 0.026 |
| 9/25/92 13:00 | | | | | 0.020 | 0.023 | 0.028 | 0.033 |
| 9/28/92 13:00 | | | | | 0.014 | 0.019 | 0.025 | 0.028 |
| 9/29/92 13:00 | | | | | 0.005 | 0.008 | 0.010 | 0.014 |
| 9/30/92 13:00 | | | | | 0.006 | 0.008 | 0.009 | 0.014 |



<u>NOTE:</u> 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)

PACIFIC GAS & ELECTRIC - DIABLO CANYON POWER PLANT
SANITARY WASTEWATER TREATMENT SYSTEM
CONTRACT # Z78-2104-86 (REV. 5/90)

| | |
|---|---|
| Sanitation and Operation Consultants, INC.<br>16340 E. Maplegrove Street<br>La Puente, CA 91744 | Pacific Gas and Electric Co.<br>Contacts:<br>Randy Falcke (805) 595-4362<br>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 | 9-3 | 1:30 | 6.7 mg/1 Ave of |
| 2. " | mg/l | " | 15 | 20 | 9-10 | 11:35 | 5.7 mg/1 " " |
| 3. " | mg/l | " | 15 | 20 | 9-17 | 11:51 | 4.0 mg/1 " " |
| 4. " | mg/l | " | 15 | 20 | 9-22 | 12:03 | 5.0 mg/1 " " |
| 5. " | mg/l | " | 15 | 20 | | | |
| 1. SUSPENDED SLDS | mg/l | WEEKLY | 60 | N/A | 9-3 | 1:16 | 30 mg/1 |
| 2. " | mg/l | " | 60 | N/A | 9-10 | 11:19 | 17 mg/1 |
| 3. " | mg/l | " | 60 | N/A | 9-17 | 11:29 | 26 mg/1 |
| 4. " | mg/l | " | 60 | N/A | 9-22 | 11:35 | 40 mg/1 |
| 5. " | mg/l | " | 60 | N/A | | | |
| 1. SETTLEABLE SLD | ml/l | WEEKLY | 1.0 | 3.0 | 9-3 | 1:38 | < 0.1 ml/1 |
| 2. " | ml/l | " | 1.0 | 3.0 | 9-10 | 11:27 | < 0.1 ml/1 |
| 3. " | ml/l | " | 1.0 | 3.0 | 9-17 | 12:05 | < 0.1 ml/1 |
| 4. " | ml/l | " | 1.0 | 3.0 | 9-22 | 11:37 | < 0.1 ml/1 |
| 5. " | ml/l | " | 1.0 | 3.0 | | | |

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

COMMENTS:

SLUDGE DISPOSAL DATA

| MONTH REMOVED | VOLUME REMOVED | WEIGHT REMOVED | DISPOSAL SITE |
|---|---|---|---|
| SEPTEMBER 92 | | 4315 lbs | Walsh - Nipomo |

DATA SHEET COMPLETED BY: Mike Beeley DATE: 10-5-92

APPENDIX 4

Diablo Canyon Acute Bioassay Report

July 6, 1992

Report Issued: August 4, 1992 Report ODES-420-92.12

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, THIRD QUARTER OF 1992

## Introduction:

One acute toxicity bioassay was conducted at the Nuclear Operations Support Diablo Canyon Biological Laboratory on water sampled on July 6, 1992, from Diablo Canyon Power Plant's discharge 001. This bioassay satisfies the quarterly requirement for acute toxicity testing in Diablo Canyon Power Plant's NPDES Permit.

## Methods:

The bioassay 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 species.

## Results:

The bioassay (DCPP-187) 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. The data sheet is attached.

SUMMARY OF RESULTS

| Assay No. | Date Sampled | Location | Toxicity (TU) |
|---|---|---|---|
| DCPP-187 | July 6, 1992 | Discharge 001 | 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
DCSommerville
RWLorenz
TCWilson
RMS Indexer

DATE 8/4/92
TESTED BY Laurel L. Kelly
APPROVED DCSommerville
FILE NO.

70-327 (3/83)

Procedure 2.3
Revision 1
Attachment 5

PACIFIC GAS & ELECTRIC COMPANY
Technical and Ecological Services
DIABLO CANYON BIOLOGICAL LABORATORY
STATIC BIOASSAY REPORT SHEET
One Concentration

ASSAY NO. DCPP 187

TEST ORGANISM DATA

TEST SPECIES Red Abalone, Haliotis rufescens
SOURCE Cayucas Abalone Farm
AVERAGE LENGTH 9.9 mm RANGE 8-12 mm
ACCLIMATION TIME 1 week TEMPERATURE 13.0 °C
WATER SOURCE DCPP Biological Lab Pump

TEST SOLUTION DATA

SOURCE OF TEST SOLUTION Diablo Canyon Power Plant Unit 1 and Unit 2 Discharge Grab Sample
DATE/TIME SAMPLED 06 July 1992 / 08:40 BKC

DATE STARTED 06 July 1992
TIME STARTED 13:30 HRS.
VOLUME/DEPTH OF TEST SOLUTION 16 Liter / 19 cm
RENEWAL OF TEST SOLUTION AT — HR. INTERVALS
TYPE OF AERATION Ring Compressor
NUMBER OF ORGANISMS PER CONCENTRATION 30
DILUTION WATER SOURCE DCPP Biological Lab Pump, Control

TEST CONCENTRATIONS

| | 100% | CONTROL | INITIALS |
|---|---|---|---|
| **0 HOURS** | | | |
| TEMP. | 11.8 °C | 11.8 °C | BKC |
| D.O. | 7.8 | 8.1 | BKC |
| pH | 8.0 | 7.9 | BKC |
| SALINITY/HARDNESS | 34.0 | 33.5 | BKC |
| **24 HOURS** | | | |
| ORGANISMS SURVIVING | 30 | 30 | BKC |
| % SURVIVL | 100 | 100 | BKC |
| TEMP. | 12.2 | 12.2 | BKC |
| D.O. | 7.7 | 8.0 | BKC |
| pH | 7.9 | 7.8 | BKC |
| **48 HOURS** | | | |
| ORGANISMS SURVIVING | 30 | 30 | BKC |
| % SURVIVAL | 100 | 100 | BKC |
| TEMP. | 12.1 | 12.1 | BKC |
| D.O. | 8.4 | 8.4 | BKC |
| pH | 8.0 | 8.0 | BKC |
| **72 HOURS** | | | |
| ORGANISMS SURVIVING | 30 | 30 | BKC |
| % SURVIVAL. | 100 | 100 | BKC |
| TEMP. | 13.0 | 13.0 | BKC |
| D.O. | 8.6 | 8.6 | BKC |
| pH | 7.8 | 7.8 | BKC |
| **96 HOURS** | | | |
| ORGANISMS SURVIVING | 30 | 30 | BKC |
| % SURVIVAL | 100 | 100 | BKC |
| TEMP. | 12.8 | 12.8 | BKC |
| D.O. | 8.4 | 8.5 | BKC |
| pH | 7.9 | 7.9 | BKC |
| SALINITY/HARDNESS | 34.0 | 34.0 | BKC |

TU: 0, No Mortality
TESTED BY BK Cunningham
Procedure No. 2.3
Temp. Probe No. 585
Cal. Due Date 13 May 1993
Reviewed by James L. Kelly

**APPENDIX 5**

**Diablo Canyon Chronic Bioassay Report**

**Third Quarter 1992**

Report Issued: September 22, 1992 Report ODES-420-92.15

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

## LABORATORY TEST REPORT

SUBJECT: CHRONIC TOXICITY ASSESSMENT OF DISCHARGE WATER FROM DIABLO CANYON POWER PLANT, THIRD QUARTER OF 1992

Introduction:

One chronic toxicity bioassay was conducted at the Nuclear Operations Support Diablo Canyon Biological Research Laboratory on water sampled August 25 through 26, 1992, from Diablo Canyon Power Plant's Discharge 001. This bioassay satisfies the quarterly requirement for chronic toxicity testing in the 1990 California Ocean Plan.

Methods:

The bioassay was a 48-hour chronic test conducted using a state approved protocol developed by the Water Resources Control Board. Larval red abalone (Haliotis rufescens) were used as the test organism. The bioassay (DCPP-188) was begun within thirty-six hours of sample collection.

Results:

The highest concentration that was not significantly different from the Control was the 100% concentration (No Observed Effect Level (NOEL) = 100%). Toxicity (TUc) = 100/NOEL = 1. The data were analyzed using ANOVA with Dunnet's Test. The effluent test and the reference toxicant test met all test acceptance criteria. Data sheets and statistical analysis results are attached.

SUMMARY OF RESULTS

| Test Solution | Assay No. | Date Sampled | Toxicity (TUc) |
|---|---|---|---|
| Discharge 001 | DCPP-188 | August 25-26, 1992 | 1.0 (NOEL = 100%) |
| Reference Toxicant | NA | August 26, 1992 | 5.56 (NOEL = 18ug/l) |

The calculated effluent concentration limit from Chapter IV, Section A of the 1990 California Ocean Plan is 5.11. Since the measured toxicity (1) is below this limit, DCPP is in compliance with the 1990 California Ocean Plan.

References:

State of California. October 1990. Procedures Manual for Conducting Toxicity Tests Developed by the Marine Bioassay Project. Water Resources Control Board.

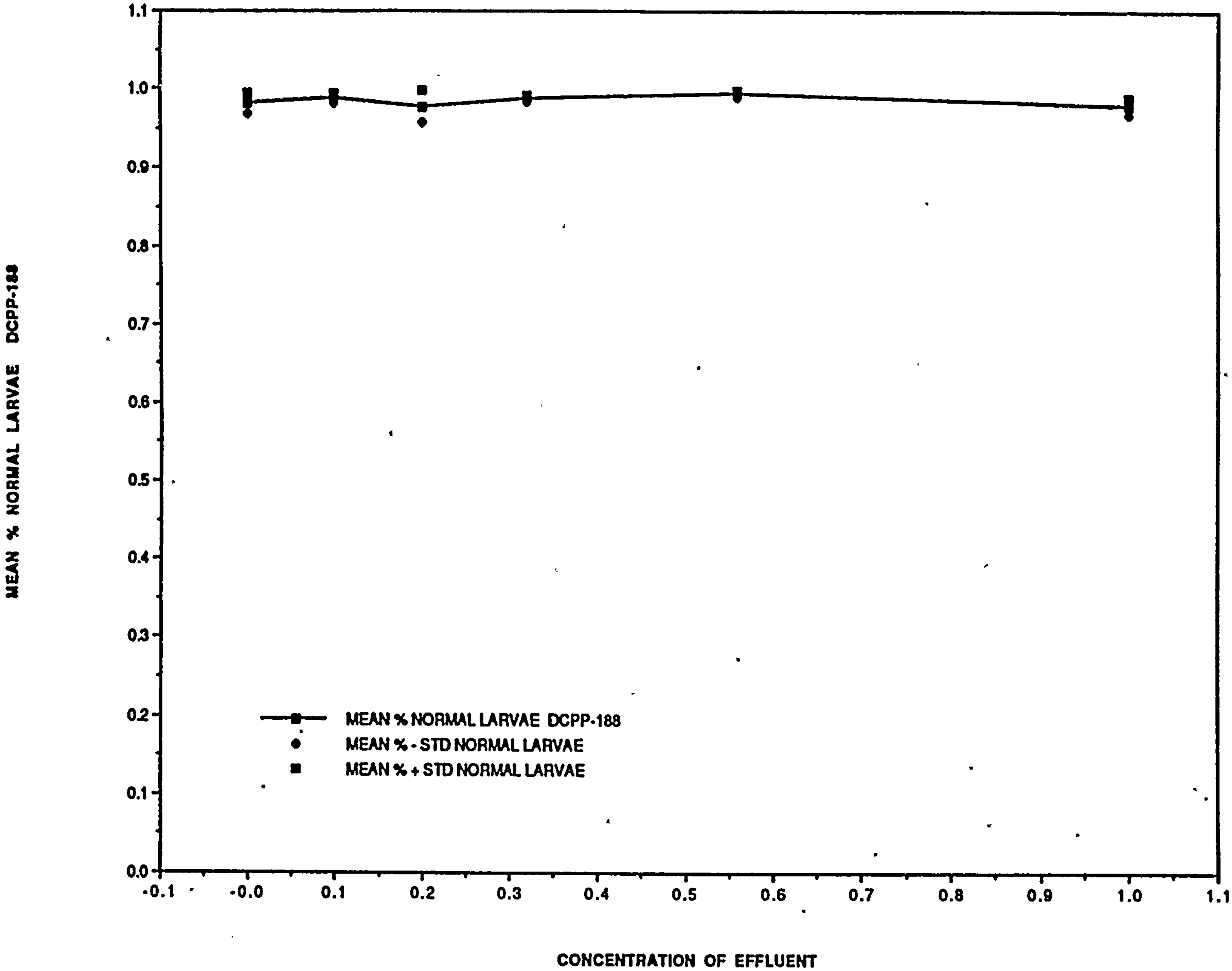
Distribution: JVBoots
DCSommerville
JWWarrick
TCWilson
RMS Indexer

DATE September 22, 1992
TESTED BY [signature]
APPROVED [signature]
FILE NO.

| Test Container Number | Effluent Concentration Percent | Number Abnormal Larvae | Number Normal Larvae | Percentage of Normal Larvae | Mean % Normal Larvae | Standard Deviation Normal L. | Mean less Standard Deviation | Mean plus Standard Deviation | Percentage of Abnormal Larvae | Mean % Abnormal Larvae |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0.0% | 0 | 200 | 100.00% | 0.982 | 0.013 | 0.969 | 0.995 | 0.00% | 0.018 |
| 22 | | 4 | 196 | 98.00% | | | | | 2.00% | |
| 30 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 37 | | 6 | 194 | 97.00% | | | | | 3.00% | |
| 61 | | 6 | 194 | 97.00% | | | | | 3.00% | |
| 28 | 10.0% | 4 | 196 | 98.00% | 0.988 | 0.006 | 0.982 | 0.994 | 2.00% | 0.012 |
| 29 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 40 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 45 | | 3 | 197 | 98.50% | | | | | 1.50% | |
| 46 | | 1 | 199 | 99.50% | | | | | 0.50% | |
| 19 | 20.0% | 11 | 189 | 94.50% | 0.978 | 0.020 | 0.958 | 0.998 | 5.50% | 0.022 |
| 21 | | 5 | 195 | 97.50% | | | | | 2.50% | |
| 52 | | 3 | 197 | 98.50% | | | | | 1.50% | |
| 65 | | 1 | 199 | 99.50% | | | | | 0.50% | |
| 69 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 31 | 32.0% | 4 | 196 | 98.00% | 0.987 | 0.004 | 0.983 | 0.991 | 2.00% | 0.013 |
| 41 | | 3 | 197 | 98.50% | | | | | 1.50% | |
| 48 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 53 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 62 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 27 | 56.0% | 0 | 200 | 100.00% | 0.994 | 0.005 | 0.989 | 0.999 | 0.00% | 0.006 |
| 32 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 42 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 47 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 70 | | 0 | 200 | 100.00% | | | | | 0.00% | |
| 20 | 100.0% | 7 | 193 | 96.50% | 0.979 | 0.010 | 0.969 | 0.989 | 3.50% | 0.021 |
| 26 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 33 | | 3 | 197 | 98.50% | | | | | 1.50% | |
| 51 | | 5 | 195 | 97.50% | | | | | 2.50% | |
| 64 | | 4 | 196 | 98.00% | | | | | 2.00% | |

DCPP - 188 Chronic Larval Abalone Bioassay Diablo Canyon Power Plant Unit 1 and Unit 2 Composite Discharge Effluent

August 26 - 28, 1992



DCPP-188 3rd Quarter Chronic Bioassay
File: DCPP-188          Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro Wilks test for normality

---

D = 0.044

W = 0.982

Critical W (P = 0.05) (n = 30) = 0.927
Critical W (P = 0.01) (n = 30) = 0.900

---

Data PASS normality test at P=0.01 level. Continue analysis.

DCPP-188 3rd Quarter Chronic Bioassay
File: DCPP-188          Transform: ARC SINE(SQUARE ROOT(Y))

Bartletts test for homogeneity of variance

---

Calculated B statistic = 7.29
Table Chi-square value = 15.09 (alpha = 0.01)
Table Chi-square value = 11.07 (alpha = 0.05)

Average df used in calculation ==> df (avg n - 1) = 4.00
Used for Chi-square table value ==> df (#groups-1) = 5

---

Data PASS homogeneity test at 0.01 level. Continue analysis.

DCPP-188 3rd Quarter Chronic Bioassay
File: DCPP-188        Transform: ARC SINE(SQUARE ROOT(Y))

ANOVA TABLE

| SOURCE | DF | SS | MS | F |
|---|---|---|---|---|
| Between | 5 | 0.015 | 0.003 | 1.500 |
| Within (Error) | 24 | 0.044 | 0.002 | |
| Total | 29 | 0.059 | | |

Critical F value = 2.62 (0.05,5,24)
Since F < Critical F FAIL TO REJECT Ho:All groups equal

DCPP-188 3rd Quarter Chronic Bioassay
File: DCPP-188        Transform: ARC SINE(SQUARE ROOT(Y))

DUNNETTS TEST - TABLE 1 OF 2        Ho:Control<Treatment

| GROUP | IDENTIFICATION | TRANSFORMED MEAN | MEAN CALCULATED IN ORIGINAL UNITS | T STAT | S |
|---|---|---|---|---|---|
| 1 | Control | 1.446 | 0.982 | | |
| 2 | 10% | 1.464 | 0.988 | -0.635 | |
| 3 | 20% | 1.433 | 0.978 | 0.450 | |
| 4 | 32% | 1.458 | 0.987 | -0.427 | |
| 5 | 56% | 1.497 | 0.994 | -1.799 | |
| 6 | 100% | 1.428 | 0.979 | 0.610 | |

Dunnett table value = 2.36     (1 Tailed Value, P=0.05, df=24,5)

DCPP-188 3rd Quarter Chronic Bioassay
File: DCPP-188        Transform: ARC SINE(SQUARE ROOT(Y))

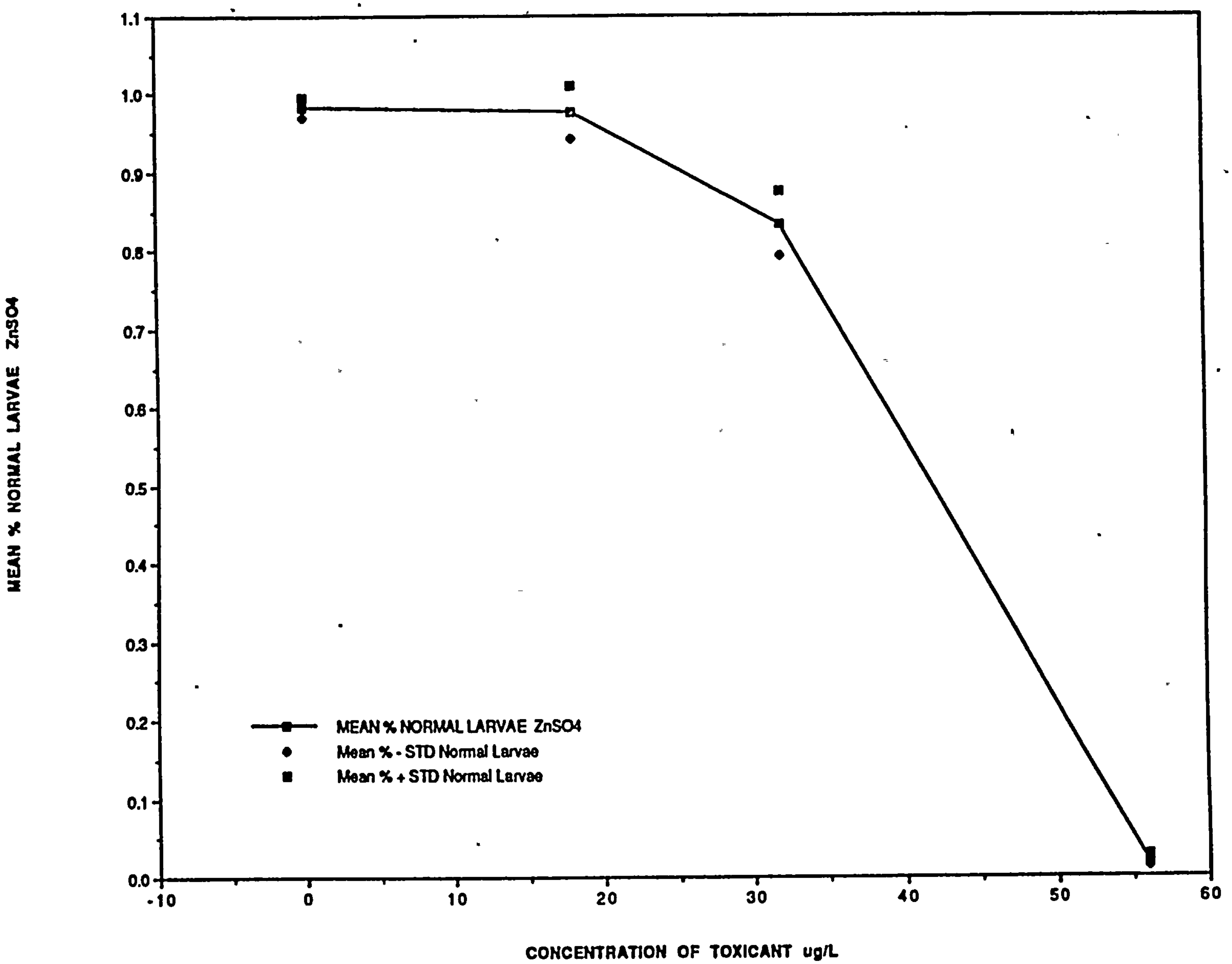
DUNNETTS TEST - TABLE 2 OF 2        Ho:Control<Treatment

| GROUP | IDENTIFICATION | NUM OF REPS | Minimum Sig Diff (IN ORIG. UNITS) | % of CONTROL | DIFFERENCE FROM CONT |
|---|---|---|---|---|---|
| 1 | Control | 5 | | | |
| 2 | 10% | 5 | 0.021 | 2.1 | -0.00 |
| 3 | 20% | 5 | 0.021 | 2.1 | 0.00 |
| 4 | 32% | 5 | 0.021 | 2.1 | -0.00 |
| 5 | 56% | 5 | 0.021 | 2.1 | -0.01 |
| 6 | 100% | 5 | 0.021 | 2.1 | 0.00 |

| Test Container Number | Toxicant Concentration ug per Liter | Number Abnormal Larvae | Number Normal Larvae | Percentage of Normal Larvae | Mean % Normal Larvae | Standard Deviation Normal L. | Mean less Standard Deviation | Mean plus Standard Deviation | Percentage of Abnormal Larvae | Mean % Abnormal Larvae |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0.0 | 0 | 200 | 100.00% | 0.982 | 0.013 | 0.969 | 0.995 | 0.00% | 0.018 |
| 22 | | 4 | 196 | 98.00% | | | | | 2.00% | |
| 30 | | 2 | 198 | 99.00% | | | | | 1.00% | |
| 37 | | 6 | 194 | 97.00% | | | | | 3.00% | |
| 61 | | 6 | 194 | 97.00% | | | | | 3.00% | |
| 7 | 18.0 | 17 | 183 | 91.50% | 0.975 | 0.034 | 0.941 | 1.009 | 8.50% | 0.025 |
| 23 | | 1 | 199 | 99.50% | | | | | 0.50% | |
| 36 | | 3 | 197 | 98.50% | | | | | 1.50% | |
| 50 | | 4 | 196 | 98.00% | | | | | 2.00% | |
| 63 | | 0 | 200 | 100.00% | | | | | 0.00% | |
| 1 | 32.0 | 26 | 174 | 87.00% | 0.833 | 0.041 | 0.792 | 0.874 | 13.00% | 0.167 |
| 4 | | 39 | 161 | 80.50% | | | | | 19.50% | |
| 18 | | 43 | 157 | 78.50% | | | | | 21.50% | |
| 44 | | 24 | 176 | 88.00% | | | | | 12.00% | |
| 66 | | 35 | 165 | 82.50% | | | | | 17.50% | |
| 14 | 56.0 | 194 | 6 | 3.00% | 0.020 | 0.008 | 0.012 | 0.028 | 97.00% | 0.98 |
| 16 | | 198 | 2 | 1.00% | | | | | 99.00% | |
| 49 | | 197 | 3 | 1.50% | | | | | 98.50% | |
| 57 | | 195 | 5 | 2.50% | | | | | 97.50% | |
| 58 | | 196 | 4 | 2.00% | | | | | 98.00% | |

DCPP - 188 Chronic Larval Abalone Bioassay Zinc Sulfate Reference Toxicant Preparations

August 26 - 28 , 1992



Zinc Reference Toxicant Test - DCPP-188
File: ZMBDC49.188        Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro Wilks test for normality

---

D = 0.070

W = 0.954

Critical W (P = 0.05) (n = 20) = 0.905
Critical W (P = 0.01) (n = 20) = 0.868

---

Data PASS normality test at P=0.01 level. Continue analysis.

Zinc Reference Toxicant Test - DCPP-188
File: ZMBDC49.188        Transform: ARC SINE(SQUARE ROOT(Y))

Bartletts test for homogeneity of variance

---

Calculated B statistic = 4.98
Table Chi-square value = 11.34 (alpha = 0.01)
Table Chi-square value = 7.81 (alpha = 0.05)

Average df used in calculation ==> df (avg n - 1) = 4.00
Used for Chi-square table value ==> df (#groups-1) = 3

---

Data PASS homogeneity test at 0.01 level. Continue analysis.

Zinc Reference Toxicant Test - DCPP-188
File: ZMBDC49.188 Transform: ARC SINE(SQUARE ROOT(Y))

ANOVA TABLE

| SOURCE | DF | SS | MS | F |
|---|---|---|---|---|
| Between | 3 | 5.729 | 1.910 | 477.500 |
| Within (Error) | 16 | 0.070 | 0.004 | |
| Total | 19 | 5.799 | | |

Critical F value = 3.24 (0.05,3,16)
Since F > Critical F REJECT Ho:All groups equal

Zinc Reference Toxicant Test - DCPP-188
File: ZMBDC49.188 Transform: ARC SINE(SQUARE ROOT(Y))

DUNNETTS TEST - TABLE 1 OF 2 Ho:Control<Treatment

| GROUP | IDENTIFICATION | TRANSFORMED MEAN | MEAN CALCULATED IN ORIGINAL UNITS | T STAT | S |
|---|---|---|---|---|---|
| 1 | Control | 1.446 | 0.982 | | |
| 2 | 18 ug/l | 1.437 | 0.975 | 0.205 | |
| 3 | 32 ug/l | 1.152 | 0.833 | 7.341 | * |
| 4 | 56 ug/l | 0.140 | 0.020 | 32.653 | * |

Dunnett table value = 2.23 (1 Tailed Value, P=0.05, df=16,3)

Zinc Reference Toxicant Test - DCPP-188
File: ZMBDC49.188 Transform: ARC SINE(SQUARE ROOT(Y))

DUNNETTS TEST - TABLE 2 OF 2 Ho:Control<Treatment

| GROUP | IDENTIFICATION | NUM OF REPS | Minimum Sig Diff (IN ORIG. UNITS) | % of CONTROL | DIFFERENCE FROM CONTF |
|---|---|---|---|---|---|
| 1 | Control | 5 | | | |
| 2 | 18 ug/l | 5 | 0.030 | 3.0 | 0.00 |
| 3 | 32 ug/l | 5 | 0.030 | 3.0 | 0.14 |
| 4 | 56 ug/l | 5 | 0.030 | 3.0 | 0.96 |

# PHYSICAL / CHEMICAL MEASUREMENTS
## Red Abalone Chronic Bioassay
## Diablo Canyon Biological Laboratory

Test Start Date/Time : August 26, 1992 @ 18:40
Bioassay Number (s) : DCPP - 188

Test Finish Date/Time : August 28, 1992 @ 18:40
Collection Date (s) : August 25 - 26, 1992 @ 09:30

Test Organism : Haliotis rufescens

| | MEASUREMENTS AT START OF ASSAY | | | MEASUREMENTS AT FINISH OF ASSAY | | | |
|---|---|---|---|---|---|---|---|
| | PH | D. OXYGEN | SALINITY | CONTAINER | PH | D. OXYGEN | SALINITY |
| CONTROL | 8 | 7.7 | 33 | 22 | 8 | 7.4 | 35.5 |
| **REFERENCE TOXICANT : $ZnSO_4$** | | | | | | | |
| 18ug / L | 8 | 7.6 | 33.5 | 7 | 8 | 7.6 | 36.5 |
| 32ug / L | 7.9 | 7.8 | 32.5 | 18 | 7.9 | 7.2 | 34 |
| 56ug / L | 8 | 7.7 | 33 | 49 | 8 | 7.2 | 34 |
| **Effluent Source : DCPP Unit 1 and Unit 2 Discharge** | | | | **Collection Date/Time : August 25 - 26 , 1992 @ 09:30** | | | |
| 10% | 8 | 7.5 | 33.5 | 29 | 8 | 7.4 | 35.5 |
| 20% | 8 | 7.6 | 33.5 | 65 | 7.9 | 6.8 | 35 |
| 32% | 8 | 7.7 | 33 | 53 | 7.9 | 7.6 | 35 |
| 56% | 8 | 7.3 | 34 | 70 | 8 | 7.5 | 34 |
| 100% | 8 | 7.4 | 34.5 | 64 | 8 | 7.6 | 35 |

### Hourly Temperature Data

| Hour 01 | Hour 13 | Hour 25 | Hour 37 |
|---|---|---|---|
| 15.82 | 15.41 | 15.31 | 14.95 |
| 15.55 | 15.50 | 15.32 | 14.98 |
| 15.41 | 15.33 | 15.30 | 15.15 |
| 15.31 | 15.29 | 15.32 | 15.25 |
| 15.30 | 15.29 | 15.33 | 15.26 |
| 15.20 | 15.28 | 15.22 | 15.29 |
| 15.13 | 15.30 | 15.24 | 15.33 |
| 15.23 | 15.30 | 15.22 | 15.31 |
| 15.29 | 15.29 | 15.15 | 15.32 |
| 15.29 | 15.32 | 15.10 | 15.33 |
| 15.33 | 15.32 | 15.08 | 15.36 |
| 15.41 | 15.29 | 15.01 | 15.33 |
| Hour 12 | Hour 24 | Hour 36 | Hour 48 |

Mean Temperature 48 Hour Static Test

15.28 Degrees Celsius

Standard Deviation Hourly Temperature

0.14

Analyzed By : BK Cunningham , KA Peddy
Reviewed by : DC Sommerville

Date Analyzed : August 26, 1992 . August 28, 1992
Date Reviewed : 10/16/92

**ABALONE SPAWN AND FERTILIZATION WORKSHEET**
**Red Abalone Chronic Bioassay**
**Diablo Canyon Biological Laboratory**

Test Start Date/Time : 26 Aug 1992, 18:40 Bioassay Number(s) : DCPP - 188

Test Finish Date/Time : 28 Aug 1992, 18:40 Effluent Source (s) : DCPP Unit 1-2 Discharge

**Test Organism : Haliotis rufescens** Collection Date/Time : Aug. 25-26, 1992 @ 09:30

| | Males Used | Gonad Index | Date Last Used | | Females Used | Gonad Index | Date Last Used |
|---|---|---|---|---|---|---|---|
| 1 | Unmarked | 4 | | 1 | Unmarked | 4 | |
| 2 | Unmarked | 4 | | 2 | Unmarked | 4 | |
| 3 | Unmarked | 4 | | 3 | Unmarked | 4 | |
| 4 | Unmarked | 4 | | 4 | Unmarked | 4 | |

Method of spawning : ( X ) Peroxide ( ) UV irradiated seawater ( ) Other ______

Beginning of spawning treatment : 14:10

First male spawns : 16:15

First female spawns : 16:35

Comments : PEROXIDE SOLUTION FLUSHED OUT AT 16:15

Multiple spawners : Male : 16:30 Female : 16:50

Condition of spawn : Males : ( ) light ( ) moderate ( X ) heavy : Females : ( ) light ( ) moderate ( X ) heavy

Sperm Added to Egg Container : 17:25 Time fertilization complete : 17:45

Condense the fertilized eggs into a beaker and determine the density. Counts of 1 ml samples :

1: 349 2 : 392 3 : 378 4 : 329 5 : 341

Mean : 357.8 STD : ______

Add 1000 embryos to each test container :
Pipette the volume calculated below from the well-mixed beaker sampled above.

( 1000 embryos/test container ) / ( 358 #embryos/ml) = 2.79 ml/test container

Temperature of embryos : 15.5° Celsius Temperature of test containers : 15.3° Celsius

Time all containers in incubator : 18:40

Comments : To help insure adequate spawn success 1 additional male and 2 additional female abalone, Gonad Index 3-4, will be used in the hydrogen peroxide spawn induction treatment.
3.0 ML OF EMBRYO SOLUTION ADDED TO EACH TEST CONTAINER.

Prepared By : RK CUNNINGHAM Reviewed By : D Sommerville

Date Prepared : 26 AUGUST 1992 Date Reviewed : 10/16/92

**APPENDIX 6**

**ANNUAL SEDIMENT ANALYSIS**

**SEPTEMBER 1992**

## Annual Sediment Samples

Sediment samples were collected on September 14, 1992 at four stations in the vicinity of Diablo Canyon Power Plant (Figure 6.1). Sediment was collected from the top 5 centimeters of substrate. Three 1000 milliliter polyethylene containers were used per station to collect sufficient material for chemical analyses. Samples were stored at 2-4 degrees C and delivered to the analytical laboratory within 24 hours.

Metal concentrations were determined using a weak acid extract on the fine sieved fraction of the sample, as outlined in Monitoring and Reporting Program Order #90-09. Metal concentrations in Diablo Cove stations were similar to the concentrations found at control stations north and south of the Plant.

The particle grain size analyses show that the percentage of fines (<.1 mm particle size) was less than 10 percent in all samples. The percentages, which are extrapolated from the sediment profiles, range from a low of less than 1 percent for sample 3 from north Diablo Cove (DCM-N3), and sample 3 from Pacific Ocean North (PON #3), to a high of approximately 8 percent for the Pacific Ocean North station sample #2.

Due to the difficulty of conducting analysis of such small samples, variability in percentage fines in the samples may account for some of the variation in the metals analysis results. The metals analysis results for 1992 would be difficult to compare with previous years since analysis techniques prior to 1992 normalized metals concentration over the weight of the entire sample.

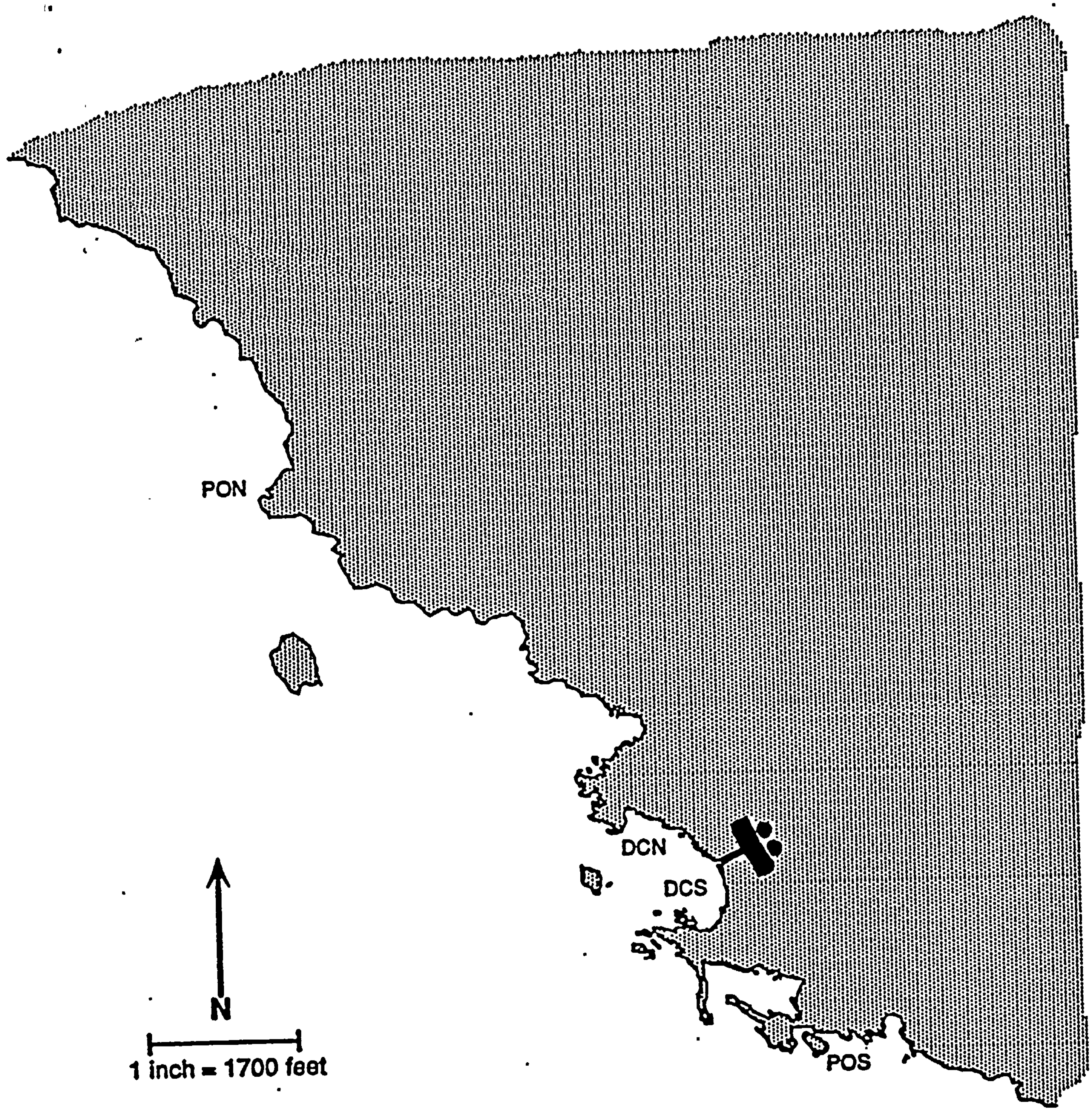



**Figure 6.1: Sediment Sampling Stations**

## Sediment Sample Results For Diablo Canyon Power Plant

Date Sampled: Sept 14, 1992
Date Analyzed Sept 24, 1992

| | Arsenic (As) (mg/kg) | Cadmium (Cd) (mg/kg) | Chromium (Cr) (mg/kg) | Copper (Cu) (mg/kg) | Lead (Pb) (mg/kg) | Mercury (Hg) (mg/kg) | Nickel (Ni) (mg/kg) | Silver (Ag) (mg/kg) | Zinc (Zn) (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|
| DC-N1 | 1.2 | N.D. | 7.2 | 280.0 | 140.0 | 0.08 | 12.0 | N.D. | 18.0 |
| DC-N2 | 1.2 | N.D. | 15.0 | 14.0 | 8.0 | N.D. | 11.0 | N.D. | 12.0 |
| DC-N3 | 1.2 | N.D. | 8.4 | 58.0 | 8.6 | N.D. | 6.4 | N.D. | 12.0 |
| DC-S1 | 1.2 | N.D. | 6.4 | 8.0 | 4.0 | N.D. | 8.0 | N.D. | 7.2 |
| DC-S2 | 1.4 | N.D. | 5.6 | 68.0 | 12.0 | N.D. | 7.4 | N.D. | 11.0 |
| DC-S3 | 1.2 | 0.04 | 4.8 | 28.0 | 3.2 | N.D. | 6.4 | N.D. | 11.0 |
| PO-N1 | 1.2 | N.D. | 6.4 | 20.0 | 4.8 | N.D. | 8.8 | N.D. | 8.4 |
| PO-N2 | 1.2 | N.D. | 8.6 | 10.0 | 4.0 | N.D. | 11.0 | N.D. | 7.6 |
| PO-N3 | 0.8 | 0.04 | 1.8 | 102.0 | 36.0 | N.D. | 1.4 | N.D. | 3.4 |
| PO-S1 | 1.4 | 0.04 | 4.4 | 80.0 | 18.0 | N.D. | 5.4 | N.D. | 16.0 |
| PO-S2 | 1.6 | N.D. | 6.2 | 9.2 | 4.0 | N.D. | 7.6 | N.D. | 10.0 |
| PO-S3 | 1.2 | N.D. | 4.0 | 260.0 | 240.0 | N.D. | 4.8 | N.D. | 26.0 |
| Detection Limit (mg/kg) | 0.25 | 0.05 | 0.50 | 0.25 | 0.50 | 0.05 | 0.50 | 0.25 | 0.25 |

Method of Analysis: 3050/6010/7471

# CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

September 25, 1992 ChromaLab File No.: 0992208

TENERA

Attn: Chris Ehrler

RE: One soil sample for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc analyses

Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: DCM NORTH #1

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 7.2 | 0.50 |
| Copper (Cu) | 280 | 0.25 |
| Lead (Pb) | 140 | 0.50 |
| Mercury (Hg) | 0.08 | 0.05 |
| Nickel (Ni) | 12 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 18 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

Refaat A. Mankarious
Refaat A. Mankarious
Analytical Chemist

Refaat A. Mankarious (for)
Eric Tam
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Federal ID #68-0140157

# CHROMALAB, INC.

Environmental Laboratory (1094)

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September 25, 1992 ChromaLab File No.: 0992208

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Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: DCM NORTH #2

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 15 | 0.50 |
| Copper (Cu) | 14 | 0.25 |
| Lead (Pb) | 8 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 11 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 12 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: DCM NORTH #3

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 8.4 | 0.50 |
| Copper (Cu) | 58 | 0.25 |
| Lead (Pb) | 8.6 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 6.4 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 12 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: DCM SOUTH #1

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 6.4 | 0.50 |
| Copper (Cu) | 8.0 | 0.25 |
| Lead (Pb) | 4.0 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 8.0 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 7.2 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: DCM SOUTH #2

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.4 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 6.6 | 0.50 |
| Copper (Cu) | 68 | 0.25 |
| Lead (Pb) | 12 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 7.4 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 11 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: DCM SOUTH #3

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | 0.04 | 0.05 |
| Chromium (Cr) | 4.8 | 0.50 |
| Copper (Cu) | 28 | 0.25 |
| Lead (Pb) | 3.2 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 6.4 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 11 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992
Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992
Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: PON #1

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 6.4 | 0.50 |
| Copper (Cu) | 20 | 0.25 |
| Lead (Pb) | 4.8 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 8.8 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 8.4 | 0.25 |

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

September 25, 1992

ChromaLab File No.: 0992208

TENERA

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RE: One soil sample for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc analyses

Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992
Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992
Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: PON #2

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 8.6 | 0.50 |
| Copper (Cu) | 10 | 0.25 |
| Lead (Pb) | 4.0 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 11 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 7.6 | 0.25 |

Method of Analysis: 3050/6010/7471

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5 DAYS TURNAROUND

September 25, 1992 ChromaLab File No.: 0992208

TENERA

Attn: Chris Ehrler

RE: One soil sample for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc analyses

Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: PON #3

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 0.80 | 0.25 |
| Cadmium (Cd) | 0.04 | 0.05 |
| Chromium (Cr) | 1.8 | 0.50 |
| Copper (Cu) | 102 | 0.25 |
| Lead (Pb) | 36 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 1.42 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 3.4 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Eric Tam
Laboratory Director

# CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

September 25, 1992 ChromaLab File No.: 0992208

TENERA

Attn: Chris Ehrler

RE: One soil sample for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc analyses

Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: POS #1

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.4 | 0.25 |
| Cadmium (Cd) | 0.04 | 0.05 |
| Chromium (Cr) | 4.4 | 0.50 |
| Copper (Cu) | 80 | 0.25 |
| Lead (Pb) | 18 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 5.4 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 16 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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CHROMALAB, INC.
Environmental Laboratory (1094)

5 DAYS TURNAROUND

September 25, 1992 ChromaLab File No.: 0992208

TENERA

Attn: Chris Ehrler

RE: One soil sample for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc analyses

Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: POS #2

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.6 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 6.2 | 0.50 |
| Copper (Cu) | 9.2 | 0.25 |
| Lead (Pb) | 4.0 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 7.6 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 10 | 0.25 |

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

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Refaat A. Mankarious
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

# CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

September 25, 1992 ChromaLab File No.: 0992208

TENERA

Attn: Chris Ehrler

RE: One soil sample for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc analyses

Project Name: NOS-ODES BIOLAB
Date Sampled: Sept. 14, 1992 Date Submitted: Sept. 21, 1992
Date Extracted: Sept. 24, 1992 Date Analyzed: Sept. 24, 1992

RESULTS: Sample I.D.: POS #3

| Metals | Concentration (mg/Kg) | Detection Limit (mg/Kg) |
|---|---|---|
| Arsenic (As) | 1.2 | 0.25 |
| Cadmium (Cd) | N.D. | 0.05 |
| Chromium (Cr) | 4.0 | 0.50 |
| Copper (Cu) | 260 | 0.25 |
| Lead (Pb) | 240 | 0.50 |
| Mercury (Hg) | N.D. | 0.05 |
| Nickel (Ni) | 4.8 | 0.50 |
| Silver (Ag) | N.D. | 0.25 |
| Zinc (Zn) | 26 | 0.25 |

Method of Analysis: 3050/6010/7471

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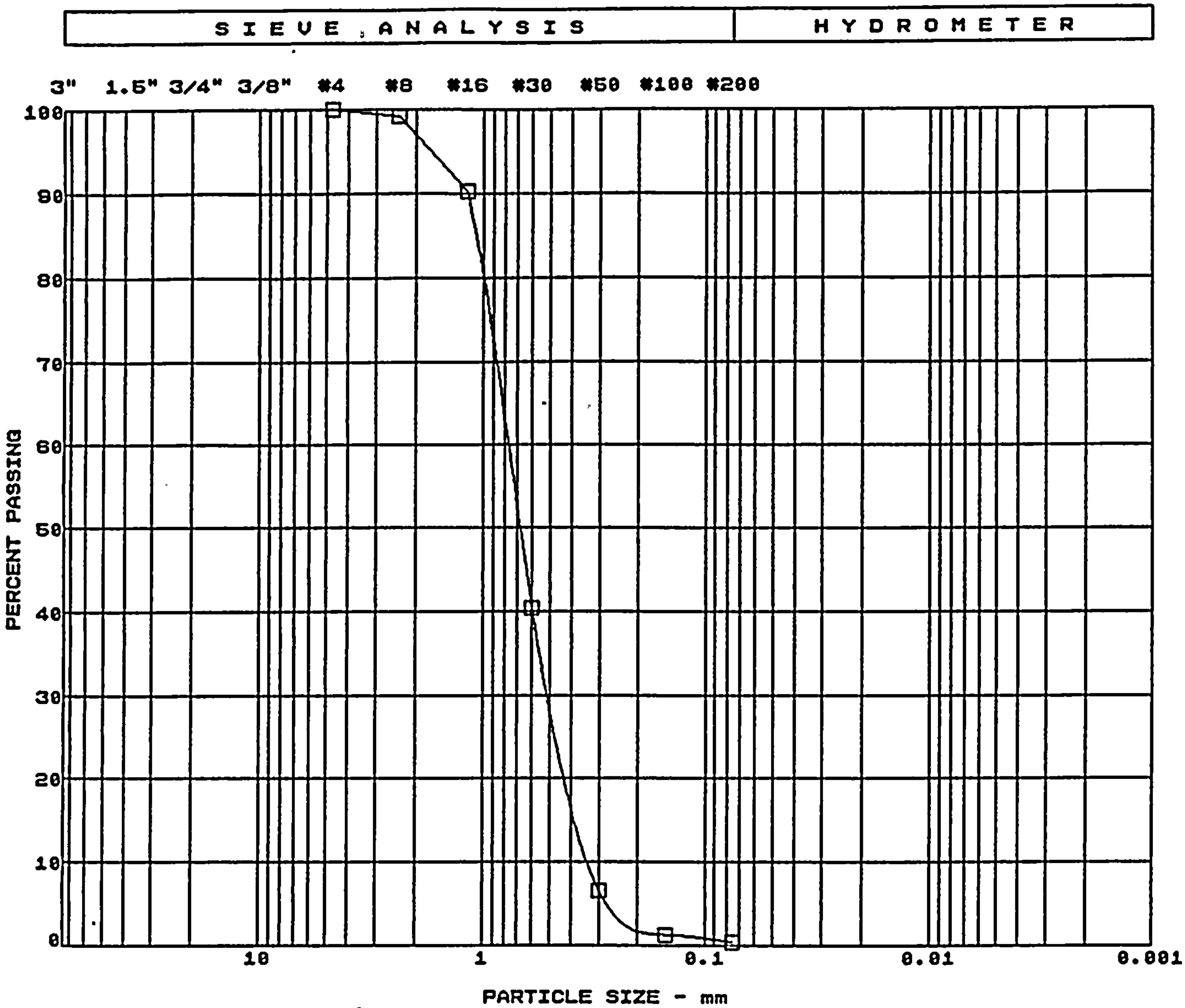



| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | DCM N 1 | 0.00 | Light Gray Medium Sand (w/oyster shells) |

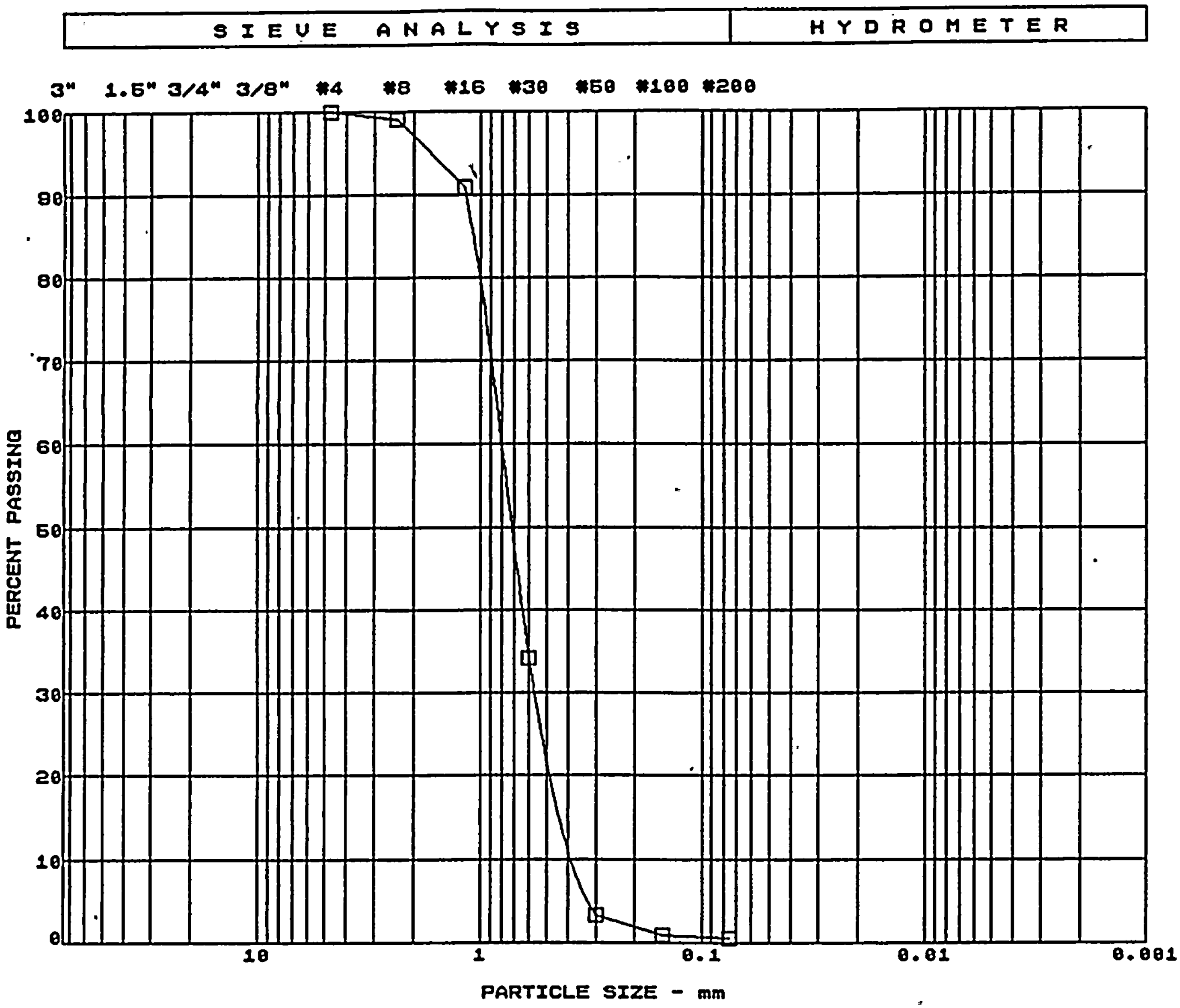
KLEINFELDER

PROJECT NO. 11-4077-01 10/7/92

**Chromalab, Inc.**
**Project: #992208**

**GRAIN SIZE DISTRIBUTION**

PLATE




| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | DCM N 2 | 0.00 | Light Gray Medium Sand (w/oyster shells) |

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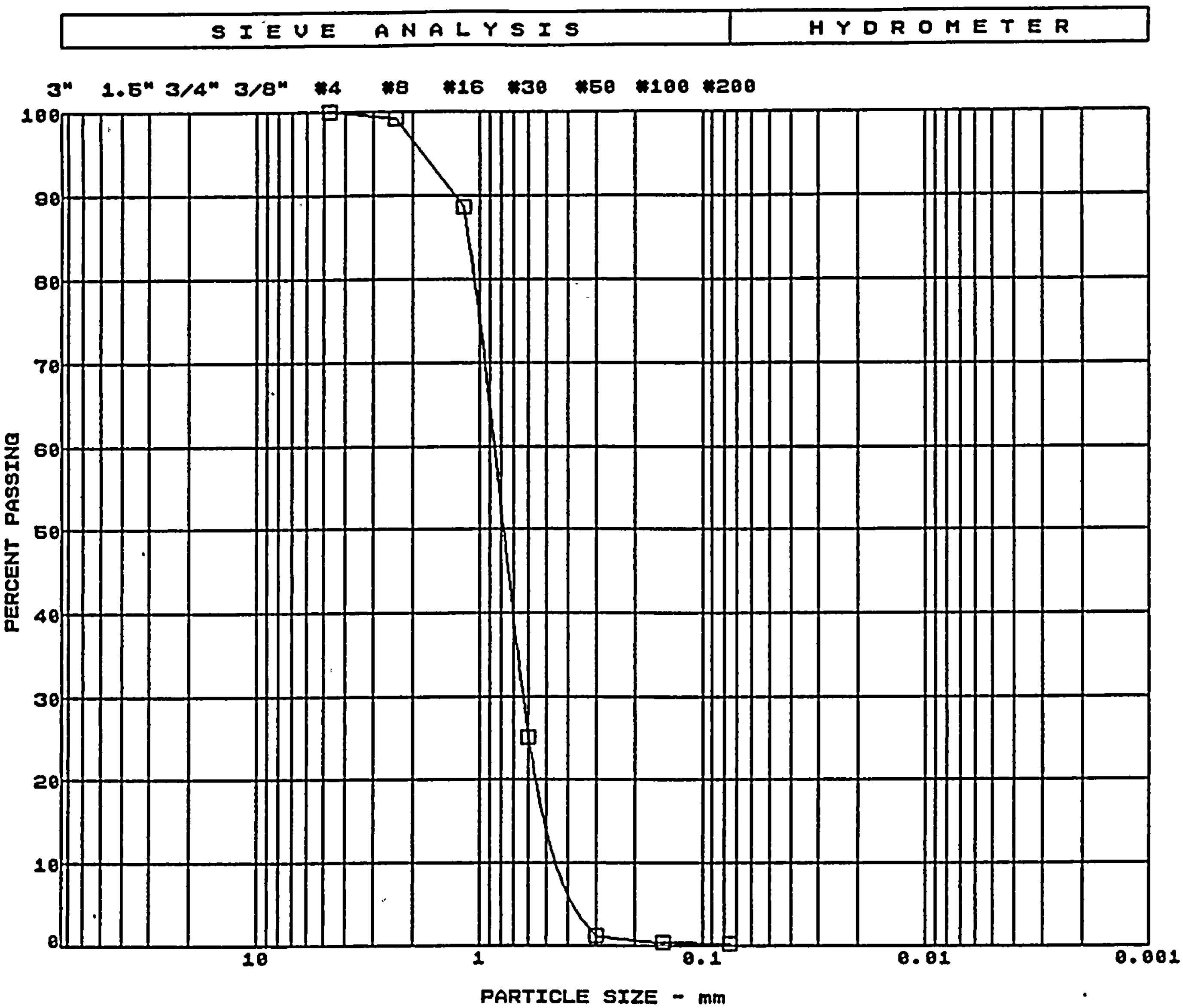


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | DCM N 3 | 0.00 | Light Gray Medium Sand (w/oyster shells) |

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GRAIN SIZE DISTRIBUTION

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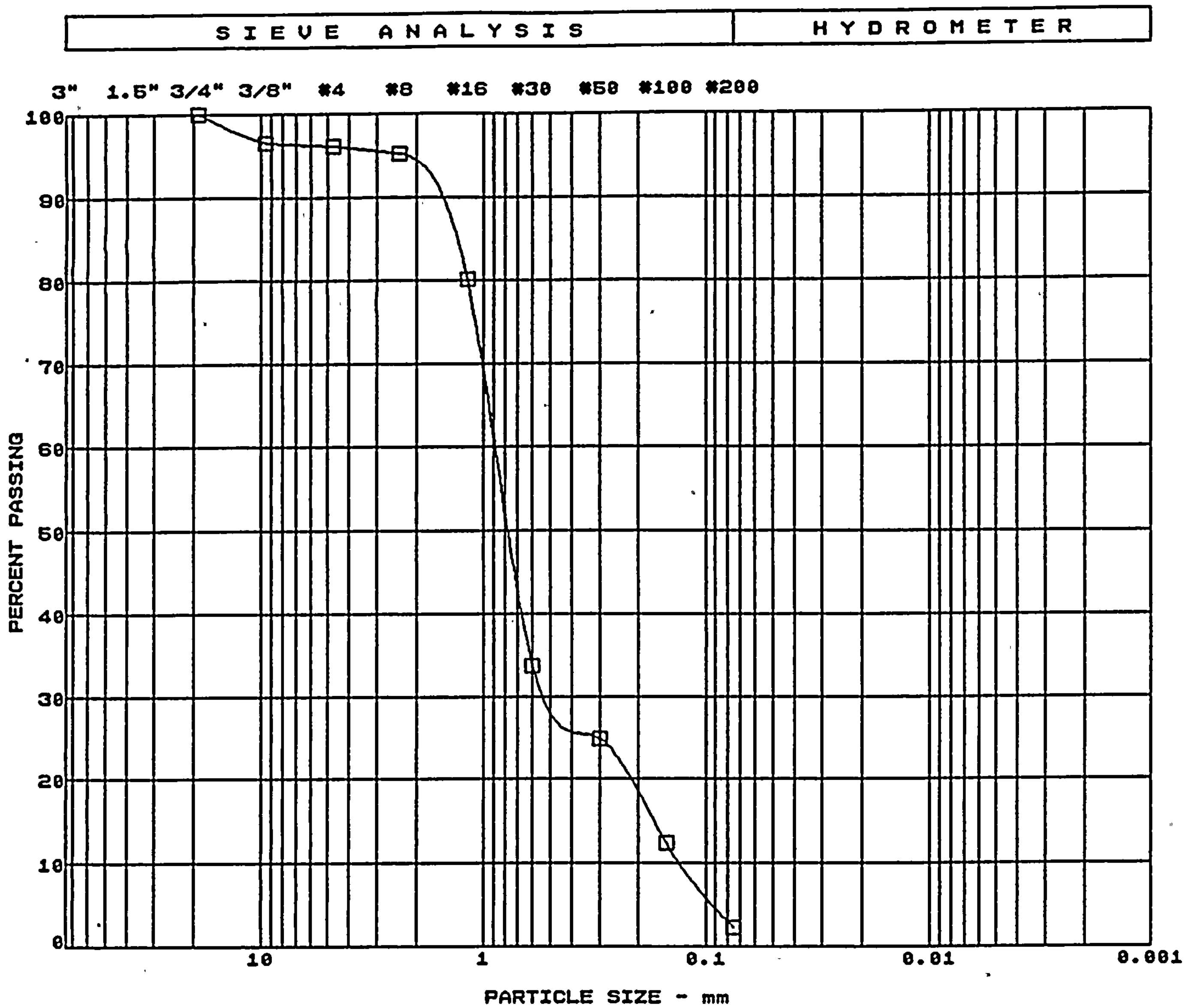


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | DCM S 1 | 0.00 | Gray Medium Sand (w/organic smell) |

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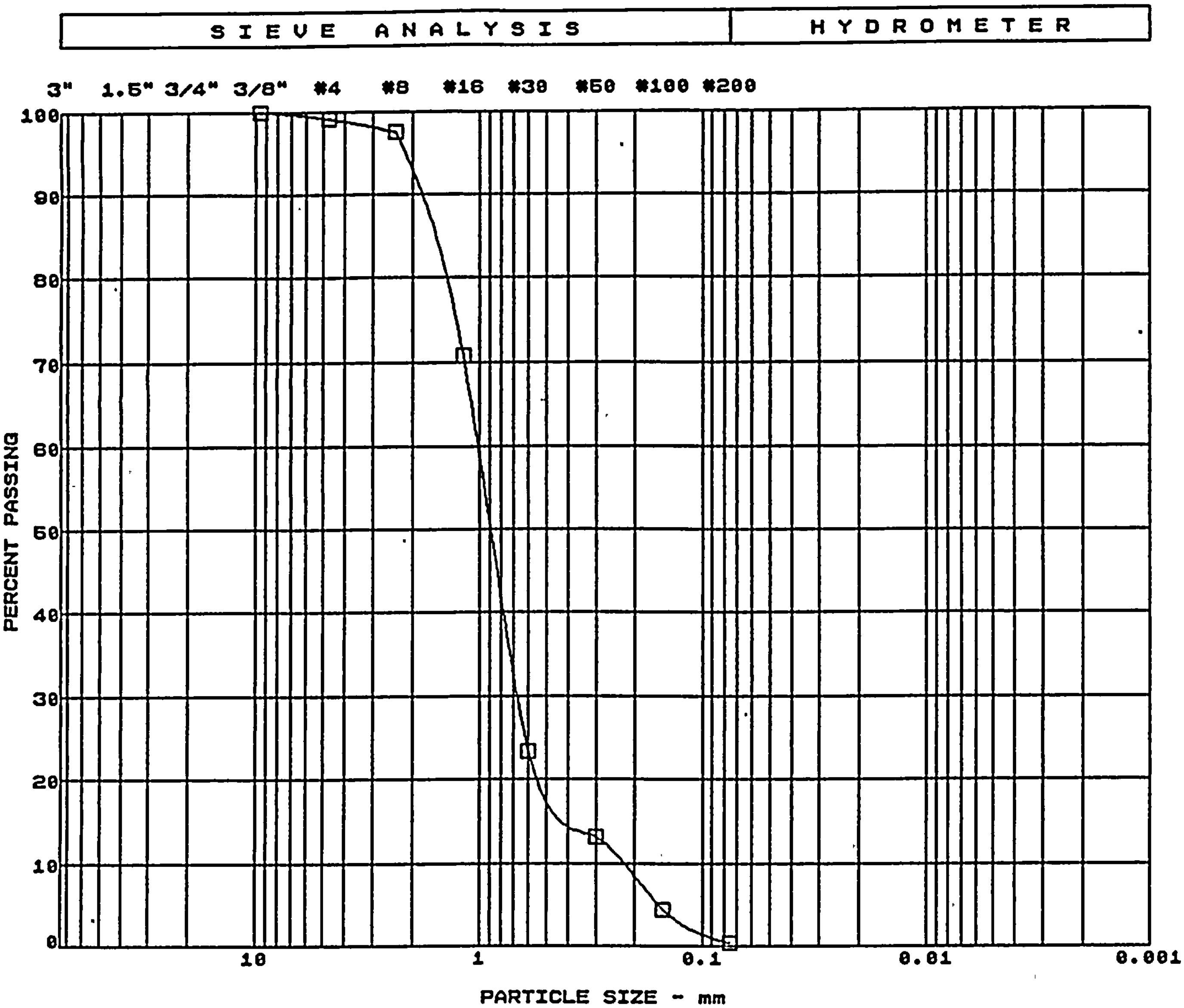


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | DCM S 2 | 0.00 | Very Dark Gray Medium Sand (strong organic smell) |

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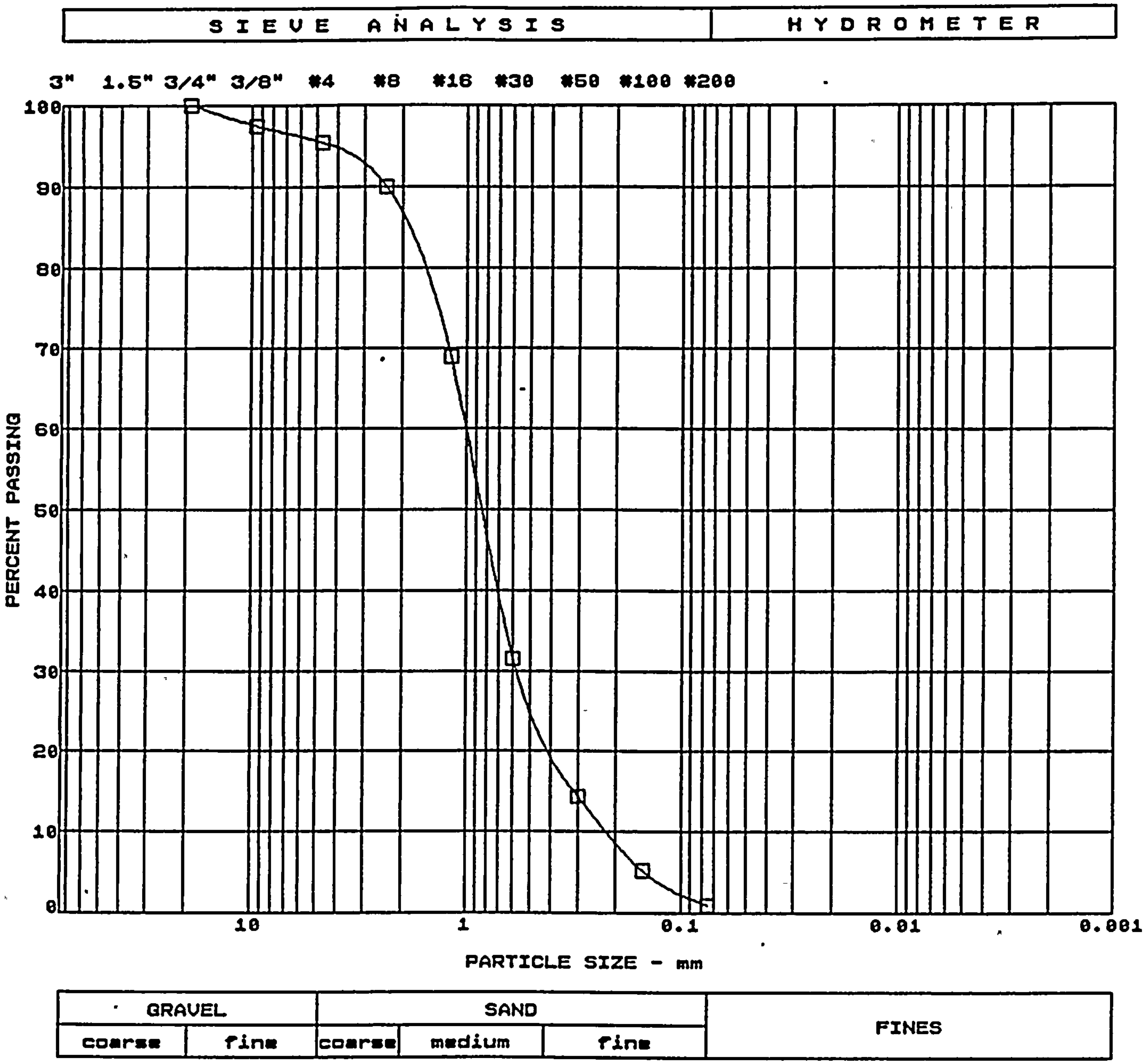


| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | DCM S 3 | 0.00 | Gray Medium Sand (w/oyster shells) |

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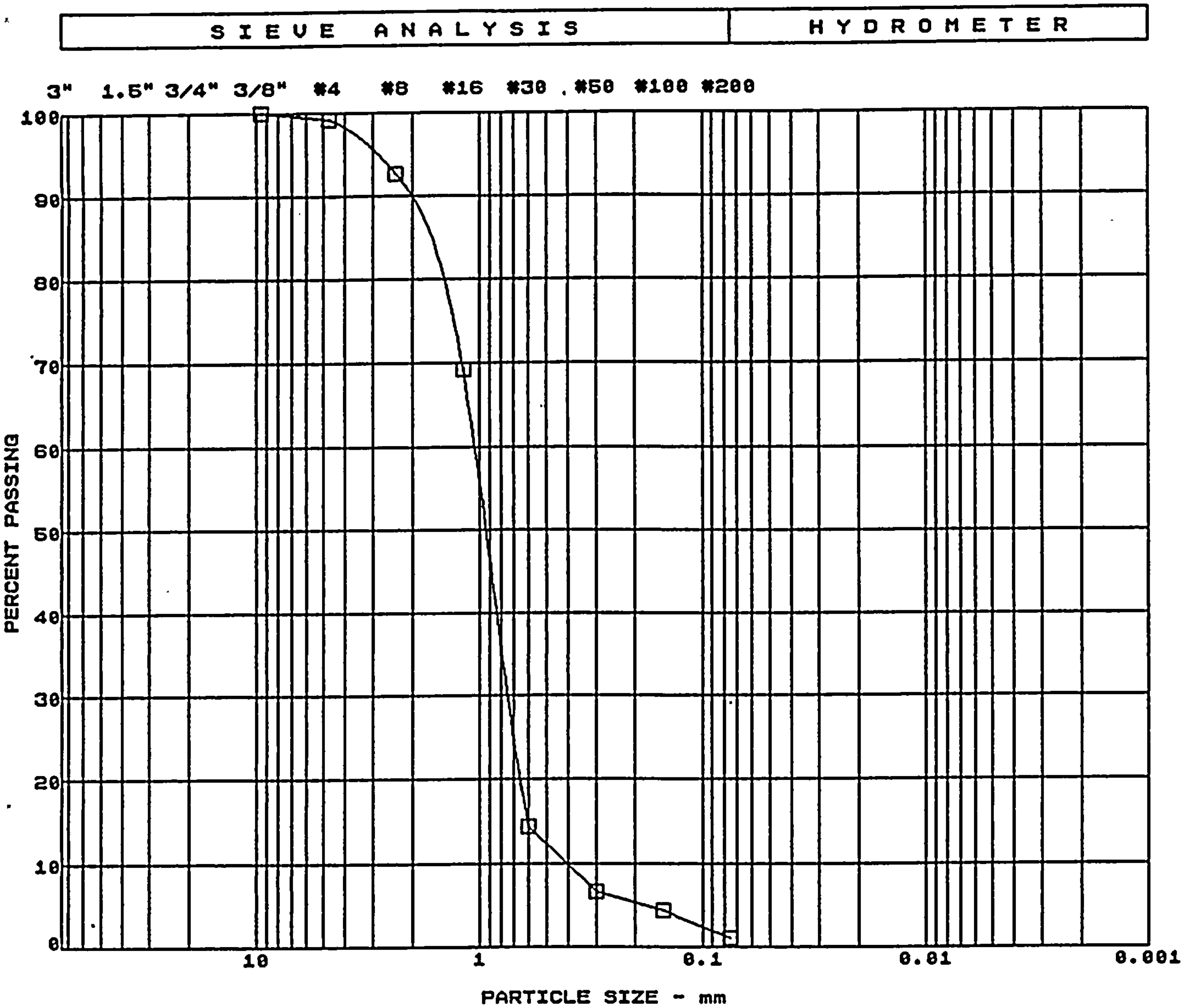


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | PON #1 | 0.00 | Gray Medium Sand (w/oyster shells, organic smell) |

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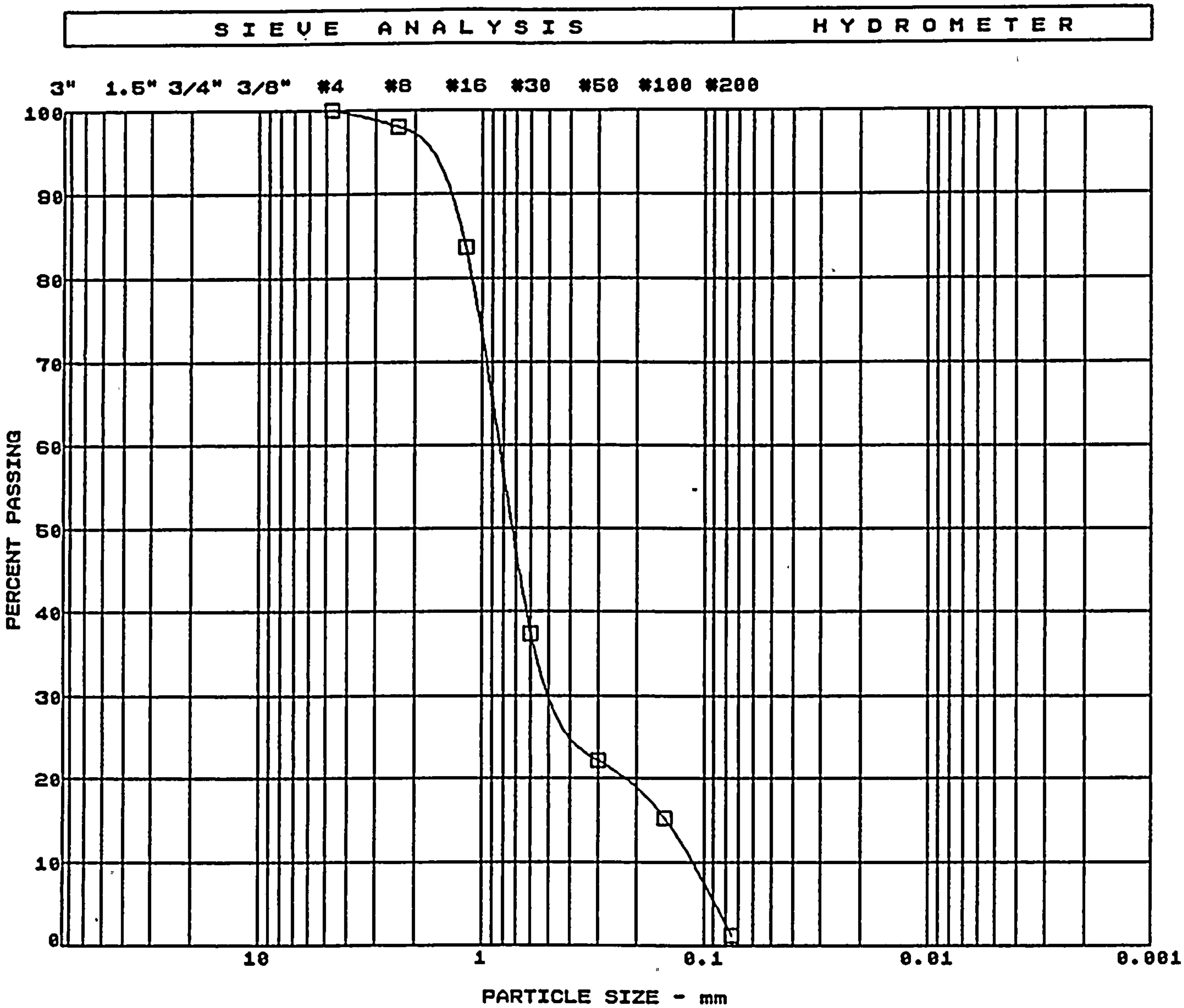


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | PON #2 | 0.00 | Gray Medium Sand (w/oyster shells, organic smell) |

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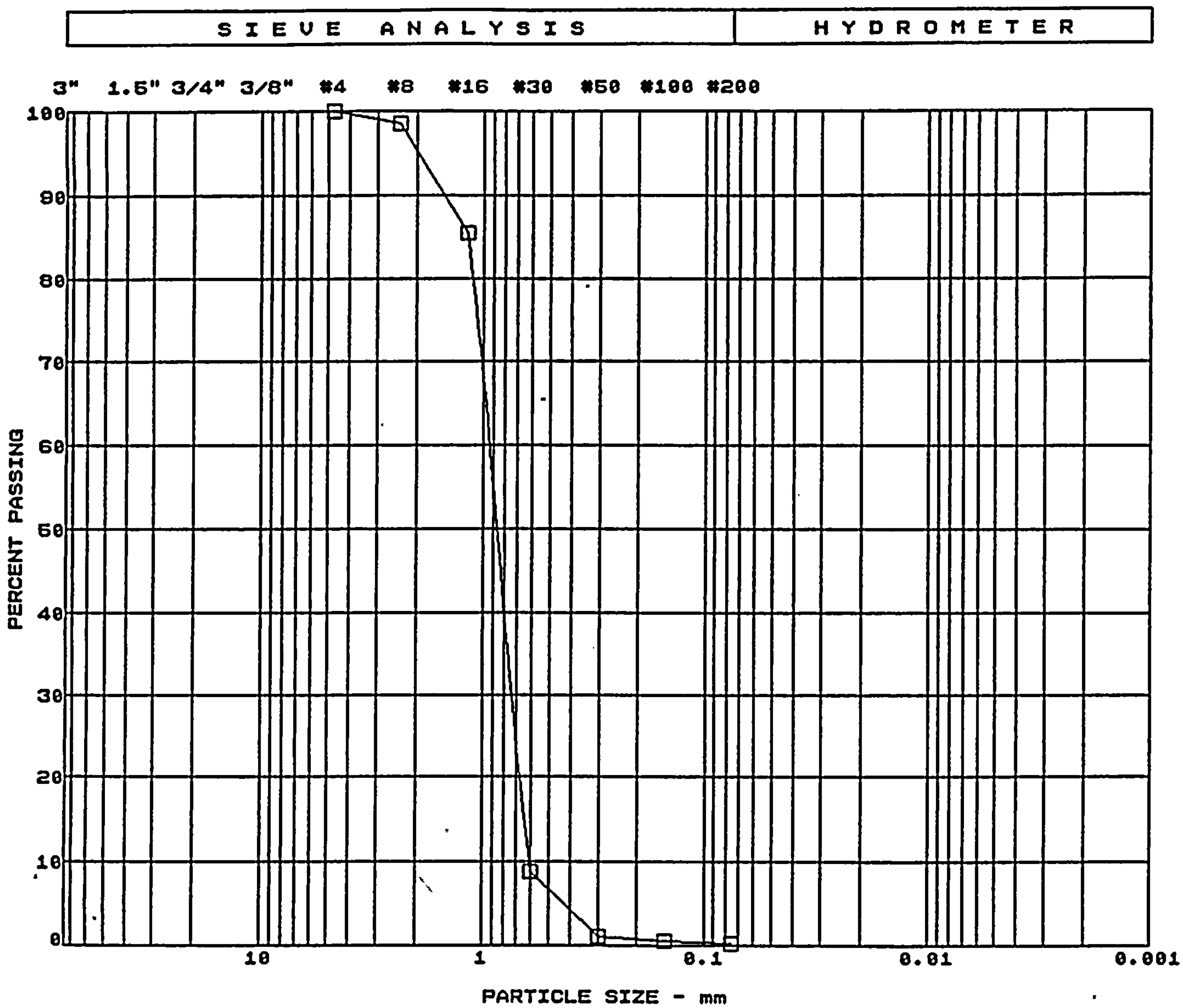


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | PON #3 | 0.00 | Gray Medium Sand (w/organic smell) |

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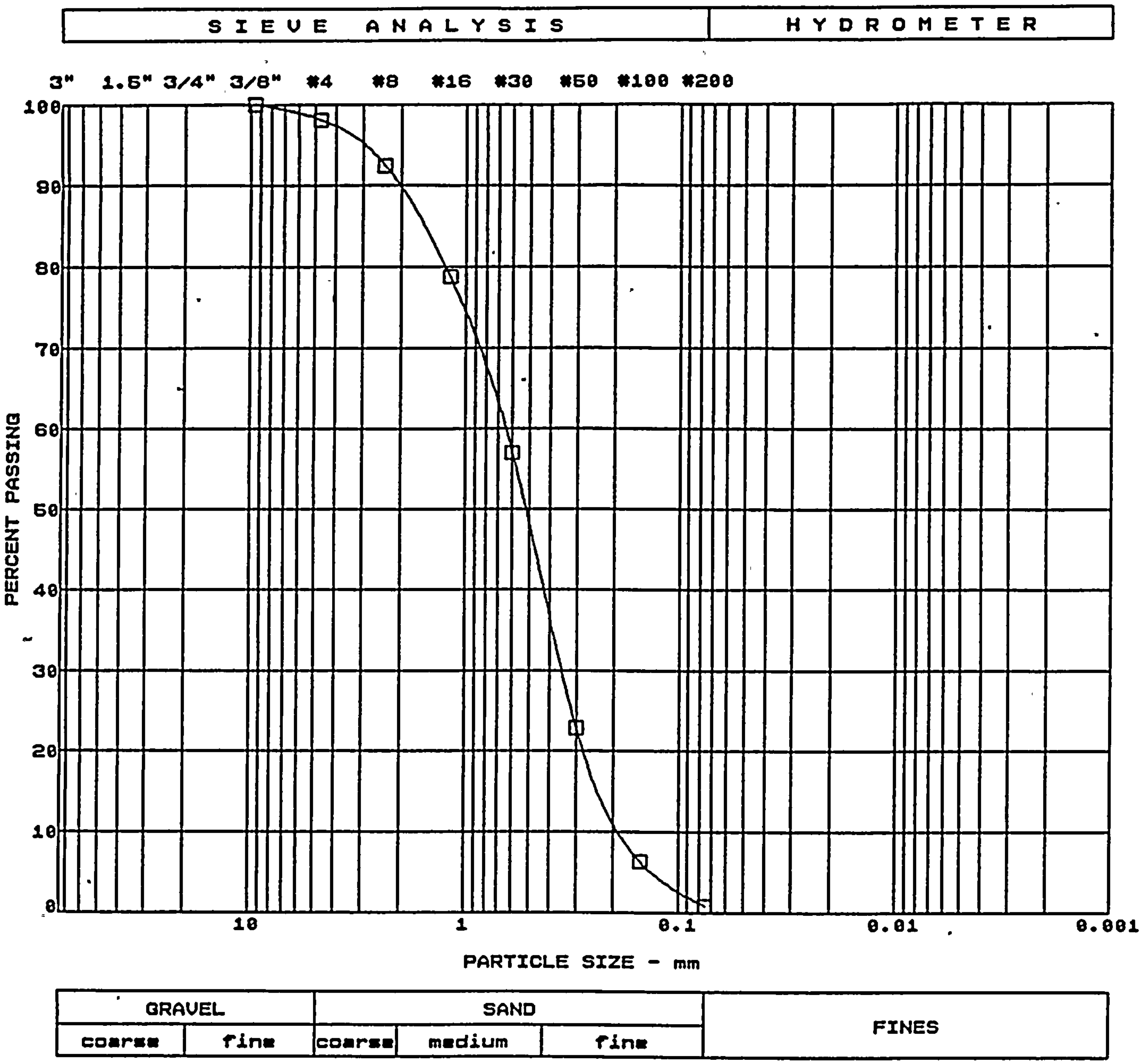


| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | POS #1 | 0.00 | Dark Gray Medium Sand (w/oyster shells, organic smell) |

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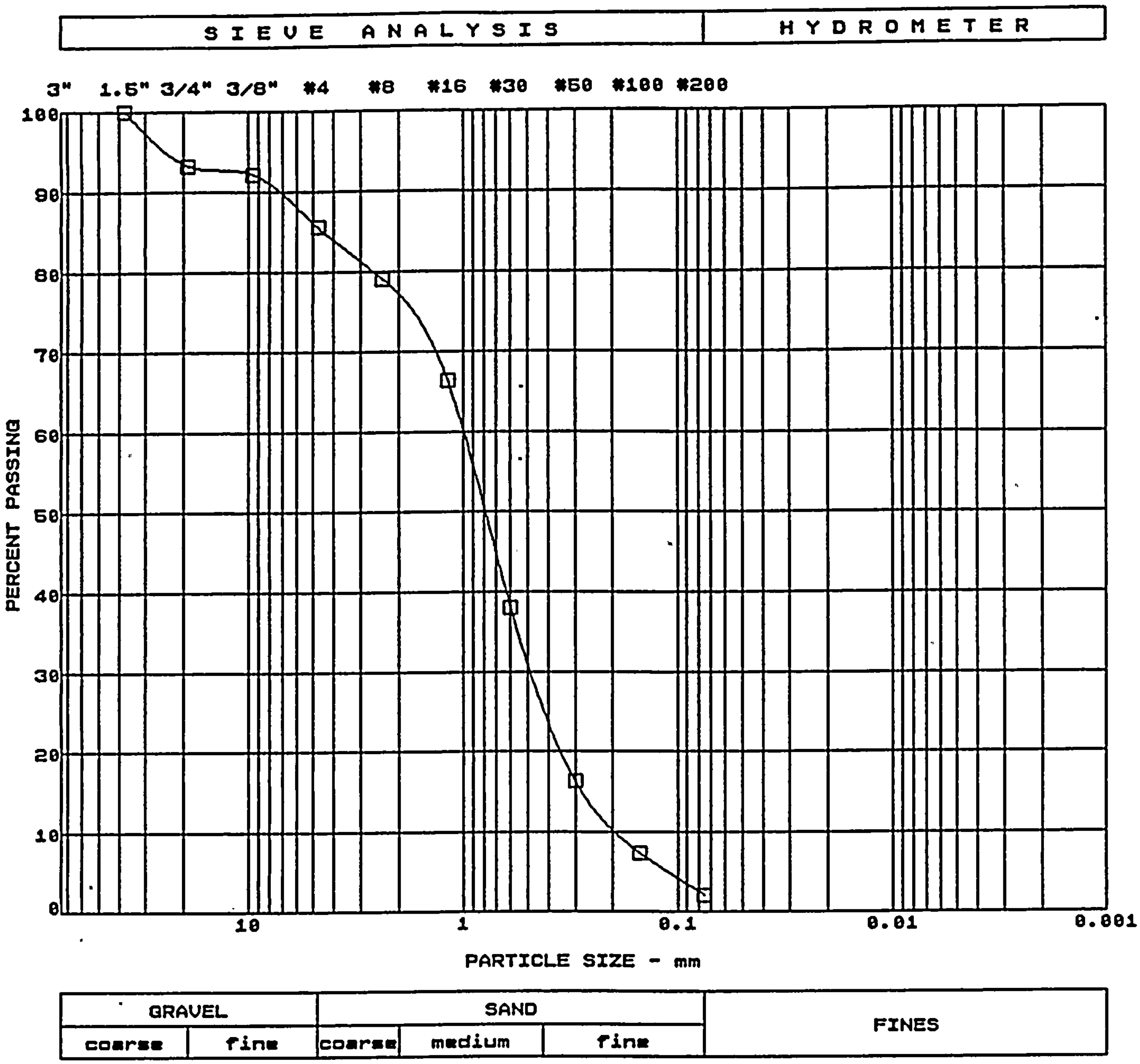


| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | POS #2 | 0.00 | Dark Gray Medium Sand(w/oyster shells, organic smell) |

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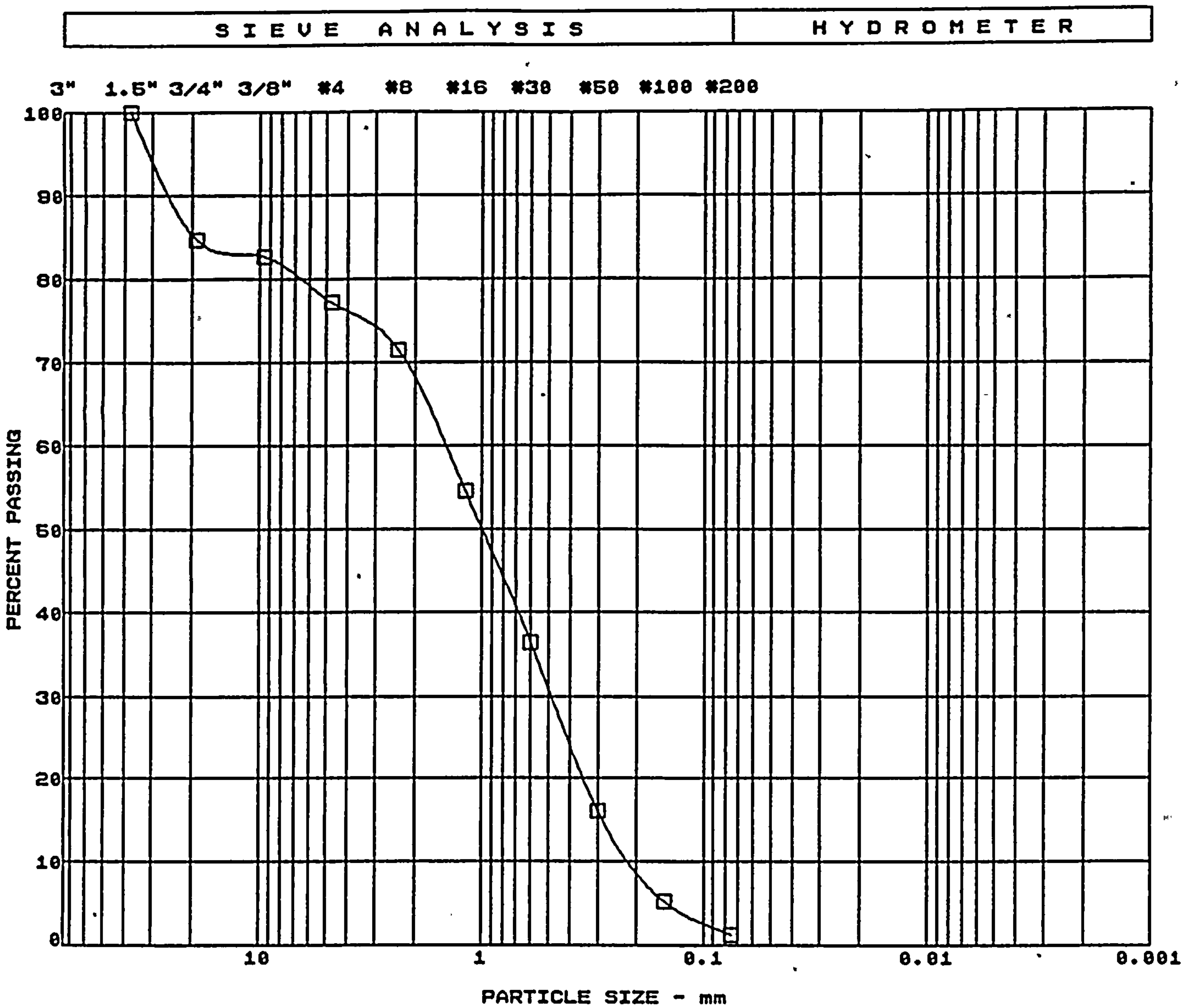


| GRAVEL | | SAND | | | FINES |
|---|---|---|---|---|---|
| coarse | fine | coarse | medium | fine | |

| SYMBOL | BORING | DEPTH (ft) | CLASSIFICATION |
|---|---|---|---|
| □ | POS #3 | 0.00 | Dark Gray Medium Sand (w/oyster shells, organic smell) |

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**GRAIN SIZE DISTRIBUTION**

PLATE.