

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 76-28
NPDES NO. CA0104817

WASTE DISCHARGE REQUIREMENTS
FOR
SAN DIEGO GAS AND ELECTRIC COMPANY-
GEOHERMAL TEST LOOP FACILITY-
COOLING POND BLOWDOWN
Northwest of Calipatria - Imperial County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. San Diego Gas and Electric Company (hereinafter also referred to as the discharger), 101 Ash Street, San Diego, California 92112, submitted an NPDES Application for Permit to Discharge, dated February 25, 1976. Said application is assigned Application No. CA0104817.
2. The discharger proposes to discharge an average of 200,000 gallons-per-operating day of cooling pond blowdown water into Vail Drain 4A in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 33, T11S, R13E, SBB&M; the flow is from Vail Drain 4A to Pumice Drain to Salton Sea, a distance of approximately three (3) miles.
3. The discharger proposes to utilize Imperial Irrigation District water for cooling; said water will be treated with the following chemicals:

<u>Chemical</u>	<u>Usage</u>	<u>Quantity</u>
Sulfuric Acid	pH Control	8.4 lb/MG
Nalcolyte 7350	corrosion inhibitor	26.5 lb/MG
Chlorine	anti-fouling	4. lb/MG

4. The Water Quality Control Plan for the West Colorado River Basin (7A) was adopted on April 10, 1975. This Order implements the objectives stated in the Plan.
5. The beneficial uses of the Imperial Valley Drains are:
 - a. Limited public fishing activity.
 - b. Fish and wildlife habitat.
 - c. Freshwater replenishment for Salton Sea.
 - d. Transport of dissolved solids to Salton Sea for agricultural soil salinity control.

*Received
11-17-80
82-94*

6. Effluent limitations, national standards of performance, and toxic and pretreatment standards established pursuant to Sections 208(b), 301, 302, 303(d), 304, 306, and 307 of the Federal Water Pollution Control Act and amendments thereto, are applicable to the discharge.
7. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
8. The Board in a public meeting heard and considered all comments pertaining to the discharge.
9. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten (10) days from date of hearing, provided the Regional Administrator has no objections.

IT IS HEREBY ORDERED, San Diego Gas and Electric Company, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. Representative samples of wastewater discharged to Vail Drain 4A shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>30-day Arithmetic Mean Discharge Rate</u>	<u>7-day Arithmetic Mean Discharge Rate</u>	<u>Maximum Discharge Rate</u>
Total Dissolved Solids	lbs/day mg/l	6672 4000		7506 4500
Suspended Solids	lb/day mg/l	8.4 5	16.7 10	25.2 15
Setteable Matter	ml/l	0.3	0.5	1.0

2. The 7-day or 30-day mean for the constituents listed in Item 1 above shall be the arithmetic mean of all the values of daily discharge rate calculated using the results of analyses of all samples collected during any 7 or 30 consecutive calendar day period. If fewer than 4 samples are collected and analyzed during any 30 consecutive calendar day period, compliance with the 30-day average limitation shall not be determined. If fewer than 3 samples are collected and analyzed during any 7 consecutive calendar day period, compliance with the 7-day average limitations shall not be determined.
3. The daily weight (lbs/day) listed in Item 1 above is obtained from the following calculation for any calendar day:

$$\text{Daily Weight (lbs/day)} = \frac{8.34}{N} \sum_{i=1}^N Q_i C_i$$

in which N is the number of samples analyzed in any calendar day. Q_i and C_i are the flow rate (MGD) and the constituent concentration (mg/l) respectively, which are associated with each of the N grab samples which may be taken in any calendar day. If a composite sample is taken, C_i is the concentration measured in the composite sample, and Q_i is the average flow rate occurring during the period over which samples are composited.

4. The average daily flow shall not exceed 200,000 gallons- per-operating day.
5. The effluent values for pH shall remain within the limits of 6.0 to 9.0.

B. Receiving Water Limitations

1. Wastewater discharged to Vail Drain 4A shall not:
 - a. Cause the temperature of the waters in said Drain to be increased by more than 5°F.
 - b. Cause presence of heavy metals or associated chemicals toxic to fish or other aquatic life.
2. Wastewater discharged to Vail Drain 4A shall not cause concentrations of chemical constituents in Vail Drain 4A to exceed the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum Concentration</u>
Zinc	mg/l	0.5
Total Chlorine Residual	mg/l	0.1

3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board may revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. Neither the treatment nor the discharge of waste shall cause a pollution or a nuisance.
2. This Order includes Items No. 1, 3, 5, 6, and 7 of the attached "Reporting Requirements".
3. This Order includes Items No. 1, 2, 4, 5, 6, 7, 8, 9, and 11 of the attached "Standard Provisions".
4. This Order includes "Monitoring and Reporting Program No. 76-28", and future revisions thereto, as specified by the Executive Officer.
5. This Order includes the attached "General Monitoring and Reporting Provisions" and future revisions thereto, as specified by the Executive Officer.
6. This Order expires five (5) years from date of adoption thereof and the discharger shall file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as an application for issuance of new waste discharge requirements.
7. In the event of any change in operation, or in control or ownership of the land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall:
 - a. Notify this Board of such change; and
 - b. Notify the succeeding owner or operator by letter of the existence of this Order; and file a copy of said letter with this Board.

I, Arthur Swajian, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on June 10, 1976.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 76-28
FOR

SAN DIEGO GAS AND ELECTRIC COMPANY-
GEOHERMAL TEST LOOP FACILITY-
COOLING POND BLOWDOWN

Northwest of Calipatria - Imperial County

Location of Discharge: NW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 33, T11S, R13E, SBB&M

EFFLUENT MONITORING

Wastewater discharged into Vail Drain 4A shall be monitored for the following constituents. All samples shall be taken between 6 a.m. and 6 p.m. A sampling station shall be established at the point of discharge and shall be located where representative samples of the effluent can be obtained.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Dissolved Solids	mg/l	6-Hr. Composite	Monthly
Flow	gallons/day	Average Daily	Reported Monthly
pH	pH units	Grab	Monthly
Suspended Solids	mg/l	6-Hr. Composite	Quarterly
Settleable Matter	ml/l	Grab	Monthly

RECEIVING WATER MONITORING

Water in Vail Drain 4A shall be monitored for the following constituents. All samples shall be taken between 6 a.m. and 6 p.m. A sampling station shall be established where representative samples of mixed water can be obtained. Said sampling station shall be located midstream in Vail Drain 4A at a point where the discharge and receiving waters have thoroughly mixed, but not to exceed thirty feet downstream from the point of discharge.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Zinc	mg/l	Grab	Monthly
Total Chlorine Residual	mg/l	Grab	Weekly
Temperature*	°F	Grab	Weekly

*Temperature of the receiving water shall be taken within thirty feet of the point of discharge, both upstream and downstream of the point of discharge.

REPORTING

Monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted by January 15, April 15, July 15, and October 15 of each year. The annual monitoring report shall be submitted by December 31 of each year.

Forward monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

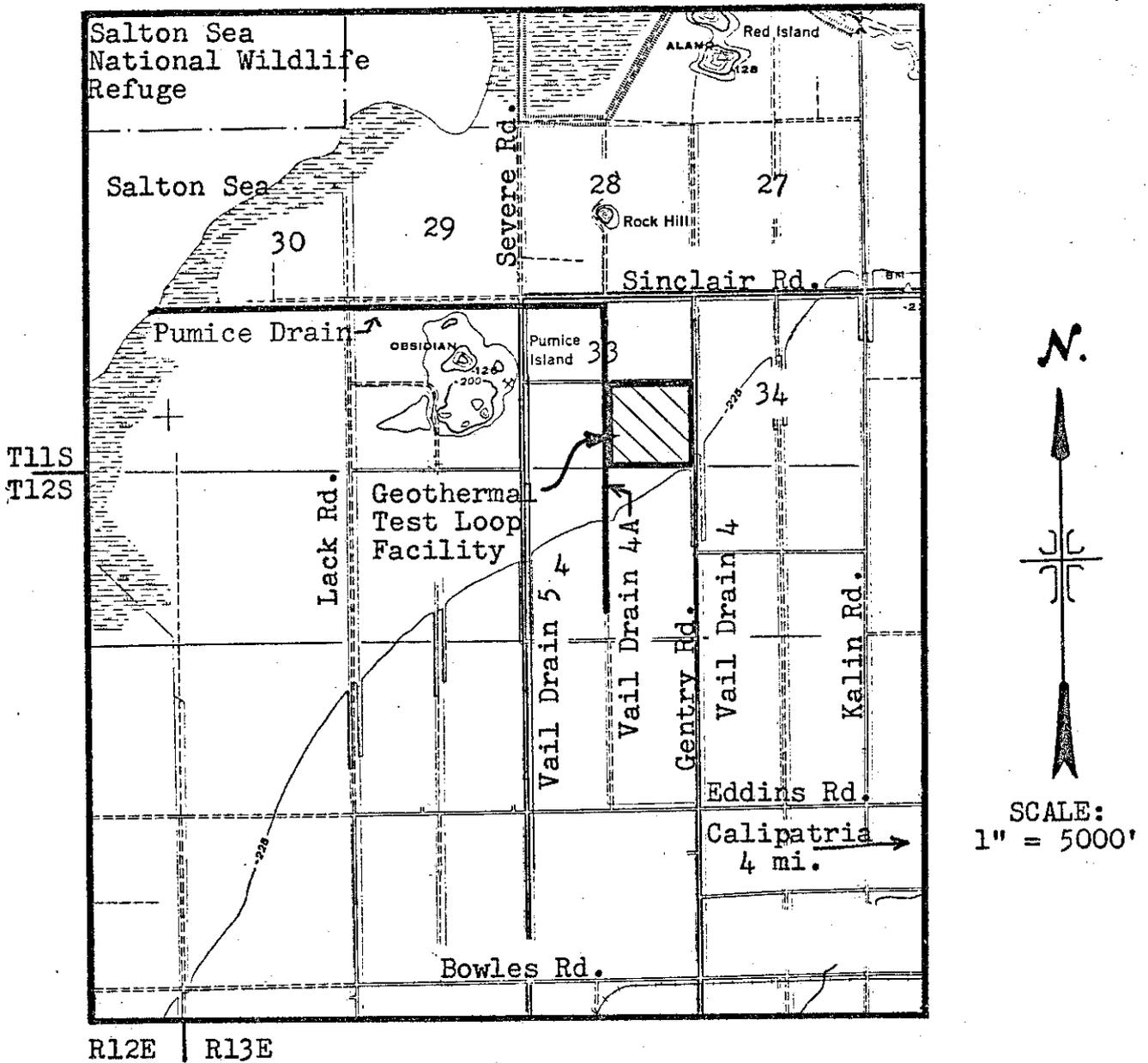
ORDERED BY

Arthur Sevajian

Executive Officer

June 10, 1976

Date



SITE MAP

SAN DIEGO GAS AND ELECTRIC COMPANY-
 GEOTHERMAL TEST LOOP FACILITY-
 COOLING POND BLOWDOWN
 Northwest of Calipatria - Imperial County
 Location: NW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 33, T11S, R13E, SBB&M

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