

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

ORDER NO. 90-024  
NPDES NO. CA0104973

WASTE DISCHARGE REQUIREMENTS  
AND NPDES PERMIT  
FOR  
COACHELLA VALLEY WATER DISTRICT  
MID-VALLEY WASTEWATER RECLAMATION FACILITY  
Riverside County

*Terminated  
on May 24, 1995  
mtg.  
now 95-024*

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

1. Coachella Valley Water District (hereinafter also referred to as the discharger), 85-820 Coachella Heights, P.O. Box 1058, Coachella, California, 92236, submitted a National Pollutant Discharge Elimination System (NPDES) Application for Permit to Discharge, dated December 13, 1989. Said application is assigned Application No. CA0104973.
2. The discharger is currently discharging an annual average daily flow of 1.1 million gallons-per-day (mgd) of chlorinated effluent from stabilization ponds into the Coachella Valley Stormwater Channel. Said discharge is subject to waste discharge requirements prescribed in Board Order No. 85-067. The design treatment capacity of the current stabilization ponds is 2.2 mgd.
3. The discharger has proposed to expand the current design treatment capacity to 5.0 mgd by the addition of a sufficient number of treatment ponds. Treatment at the expanded facility will utilize sixteen aeration lagoons (ponds) with a total detention time of 10 days. The lagoons will be designed to permit either series or parallel operation. Following aeration, the solids will be settled in eight polishing ponds having a detention time of 5 days. All ponds will be lined with a synthetic membrane liner. Effluent from the settling ponds will be chlorinated prior to being discharged into the Coachella Valley Stormwater Channel. The treatment facility and discharge outfall pipe(s) will be located in Sections 2 and 11, T7S, R8E, SBB&M, as indicated on the attached site map.
4. The discharger proposes to discharge an estimated annual average daily flow of 3.75 mgd of treated effluent into the Coachella Valley Stormwater Channel. The wastewater treated at this facility is essentially sanitary wastewater from the City of La Quinta and surrounding cities and communities.
5. The discharger reports that there are no industrial wastewaters being discharged to this treatment facility.
6. Treated or untreated sludge, or similar solid waste materials, shall be disposed only at locations approved by the Regional Board's Executive Officer.

7. The Water Quality Control Plan for the Colorado River Basin Region of California designates the beneficial uses of ground and surface waters in this Region.
8. The beneficial uses of the waters in the Coachella Valley Stormwater Channel are:
  - a. Fresh Water Replenishment of Salton Sea (FRSH)
  - b. Water Contact Recreation (REC I)
  - c. Noncontact Water Recreation (REC II)
  - d. Warm Water Habitat (WARM)
  - e. Wildlife Habitat (WILD)
9. In accordance with Section 13389, Chapter 5.5, Division 7 of the California Water Code, and Section 15263, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements is exempt from the California Environmental Quality Act requirement to prepare an Environmental Impact Report or Negative Declaration (Public Resources Code, Section 21100 et seq.).
10. The Board has notified the discharger, and all known interested agencies and persons of its intent to renew waste discharge requirements for said discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
11. The Board in a public meeting heard and considered all comments pertaining to this discharge.
12. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Clean Water Act, or amendments thereto, and shall take affect at the end of ten days from date of adoption, provided the EPA Regional Administrator has no objections.

IT IS HEREBY ORDERED, Coachella Valley Water District, in order to meet the provision contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. Representative samples of wastewater discharged to Coachella Valley Stormwater Channel from the waste stabilization ponds shall not contain constituents in excess of the limits indicated below:

(a) <u>Constituent</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate<sup>1</sup></u>	<u>7-Day Arithmetic Mean Discharge Rate<sup>2</sup></u>
20°C BOD <sub>5</sub> <sup>3</sup>	mg/l	45	65
Suspended Solids	mg/l	95	-
Settleable Matter	ml/l	0.3	0.5

(b) The 30-day average percent removal of the pollutant parameters BOD<sub>5</sub> and suspended solids shall not be less than 65 percent.

(c) The effluent values for pH shall be maintained within the limits of 6.0 to 9.0.

2. Wastewater at the point of discharge to Coachella Valley Stormwater Channel shall not have a total coliform concentration in excess of a log mean of Most Probable Number (MPN) of 200 per 100 milliliter (based on a minimum of not less than five samples for any 30-day period) nor shall more than ten percent of the total samples during any 30-day period exceed 400 MPN per 100 milliliter.

3. Wastewater discharged to Coachella Valley Stormwater Channel shall not contain a total chlorine residual greater than 0.2 mg/l as an instantaneous maximum and 0.1 mg/l as a monthly average.

To allow time for budgeting and construction, full compliance with this chlorine residual requirement shall be achieved on or before April 15, 1992 as follows:

<u>Task</u>	<u>Completion Date</u>
Project Budgeting & Design	July 15, 1991
Project Construction & Full Operation	April 15, 1992
Progress Reports	Every 90 Days, Beginning July 15, 1990

<sup>1</sup>30-Day Mean: The arithmetic mean of pollutant parameter values of samples collected in a period of 30 consecutive days.

<sup>2</sup>7-Day Mean: The arithmetic mean of pollutant parameter values of samples collected in a period of 7 consecutive days.

<sup>3</sup> BOD<sub>5</sub>: The five day measure of the pollutant parameter biochemical oxygen demand.

4. The discharger shall maintain a daily record of the following:
  - a. The chlorine residual in the effluent during the period of peak flow.
  - b. The amount of chlorine used and the flow treated.

B. Receiving Water Limitations

1. Wastewater discharged to the Coachella Valley Stormwater Channel shall not:
  - a. Depress the dissolved oxygen content of the Coachella Valley Stormwater Channel below 5.0 mg/l. During periods when the dissolved oxygen content of the channel water is already below 5.0 mg/l, the discharge shall not cause any further depression of dissolved oxygen.
  - b. Cause the presence of oil, grease, scum, sludge, or solids.
  - c. Contain heavy metals, chemicals, pesticides or other constituents in concentrations toxic to aquatic life.
2. This discharge shall not cause a violation of any other applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Clean Water Act and regulations adopted thereunder.

C. Pretreatment Provisions

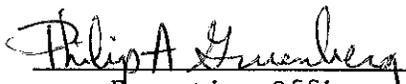
In the event industrial wastewaters are being discharged to the wastewater treatment facility then:

1. The discharger shall develop and maintain an industrial pretreatment program in accordance with the Federal Clean Water Act, Sections 307(b), 307(c), 307(d), and 402(b), and Federal Pretreatment Regulations 40 CFR 403.
2. The discharger shall implement an approved Industrial Pretreatment Program in accordance with the legal authorities, policies, and procedures described in its pretreatment program document and in accordance with the Federal Pretreatment Regulations in 40 CFR 403.
3. The discharger shall maintain an adequate revenue program, and enforce prohibitions against any applicable National Pretreatment Standards established by the U.S. Environmental Protection Agency (EPA).
4. The discharger shall provide EPA, the Regional Board, and the State Board with an annual report describing the pretreatment program activities over the previous 12-month period. The report shall be transmitted to EPA, the Regional Board, and the State Board no later than January 31 of each year and include:
  - a. A summary of actions taken by the discharger which ensures industrial-user compliance;

- c. When the program described in 6.a. and 6.b. has been completed, this permit will be reopened. At that time, effluent variability will be calculated and a numerical effluent limit established for toxicity. Compliance monitoring shall then be based on annual bioassays of the organism which showed greater sensitivity during the effluent characterization program. Selection of the more sensitive species will be made by the Regional Board's Executive Officer.
  - d. Should bioassay test results indicate that the chlorine residual levels in the treatment facility's effluent is significantly impacting the bioassay test results in an adverse way, then the requirements shall not commence until April 15, 1992, the compliance date for achieving effluent dechlorination.
7. This Board Order expires five years from March 15, 1990, and the discharger shall file a complete Report of Waste Discharge in accordance with Title 23, California Code of Regulations, at least 180 days in advance of such date as an application for issuance of new waste discharge requirements.
  8. The discharger shall obtain the prior written approval of the Executive Officer regarding location and method of disposal of sludge removed from the basins. In addition, the discharger shall provide the results of any sludge analyses as specified by the Executive Officer.
  9. The discharger shall provide a report to the Regional Board when it determines that the plant is operating at 80 percent of the total design capacity specified in Finding No. 3. The report should indicate what steps, if any, the discharger intends to take to provide for expected wastewater treatment capacity necessary when the plant reached design capacity.
  10. The discharger shall not accept waste in excess of the total design capacity of the plant specified in Finding No. 3.

IT IS FURTHER ORDERED that Board Order No. 85-067 be superseded by this Board Order.

I, Philip A. Gruenberg, 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 March 14, 1990.

  
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Executive Officer

- b. An updated list of industrial users (by SIC categories) which were issued permits, and/or enforcement orders, and a status of compliance for each user, and
  - c. The name and address of each user that received a revised discharge limit.
5. The Regional Board and EPA retain the right to take legal action against an industrial user and/or discharger where a user fails to meet the approved applicable pretreatment standards.

D. Other Provisions

1. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Sections 13050(1) and 13050(m) of Division 7 of the California Water Code.
2. Adequate protective works shall be provided to assure that a flood which would be expected to occur on a frequency of once in a 100-year period, would not erode or otherwise render portions of the treatment/disposal facilities inoperable.
3. This Board Order includes the attached Standard Provisions for NPDES Permit and the attached "Monitoring and Reporting Program No. 90-024", and future revisions thereto, as specified by the Executive Officer.
4. The discharger's facility shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Title 23, California Code of Regulations.
5. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
6. Bioassays shall be performed quarterly to evaluate the toxicity of the discharged wastewater in accordance with the following procedures:
  - a. Bioassays shall be conducted on a sensitive fish species and an invertebrate species as approved by the Regional Board's Executive Officer. Pimephales promelas (fathead minnow) and Ceriodaphnia are suggested test species which may be utilized. The bioassays shall be conducted in accordance with the protocol given in EPA/600/4-85/014 - Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to Freshwater Organisms.
  - b. The bioassay test specified in 6.a. shall be performed quarterly for a period of at least one year (minimum of four tests per organisms).

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 90-024  
FOR  
COACHELLA VALLEY WATER DISTRICT  
MID-VALLEY WASTEWATER RECLAMATION FACILITY  
Riverside County

Location of Discharge: Section 2 and 11, T7S, R8E, SBB&M

MONITORING

A. EFFLUENT MONITORING

A sampling station shall be established at the point of discharge and shall be located where representative samples of effluent can be obtained. Wastewater discharged into Coachella Valley Stormwater Channel shall be monitored for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD <sub>5</sub>	mg/l	24-Hr. Composite	Weekly
Suspended Solids	mg/l	24-Hr. Composite	Weekly
Settleable Matter	ml/l	Grab at Peak Flow	Weekly
pH	pH Units	Grab	Daily <sup>1</sup>
Flow (Total)	MGD	Flow Meter Reading	Reported Daily and Monthly
Discharge to Stormwater Channel	MGD	Flow Meter Reading	Reported Daily and Monthly
Total Coliform	MPN/100 ml	Grab at Peak Flow	Twice Weekly <sup>2</sup>
Chlorine Residual	mg/l	Grab at Peak Flow	Daily <sup>3</sup>
Bioassay	-	-	Quarterly

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<sup>1</sup>Once per weekday

<sup>2</sup> Sample may be taken at any approved point in the treatment process.

<sup>3</sup> Once per weekday.

B. INFLUENT MONITORING

The wastewater influent to the treatment facilities shall be monitored weekly for 20°C BOD<sub>5</sub> and suspended solids, using 24-hour composite samples.

C. SLUDGE MONITORING

The discharger shall report the quantity in tons/year (wet or dry) of sludge generated at the treatment facility and the method and location of its final disposal.

D. OPERATION AND MAINTENANCE

Activity

To inspect and document any operational and maintenance problems by reviewing each unit process.

Reporting

Yearly

MONITORING REPORTS

Monthly and weekly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly reports shall be submitted by January 15, April 15, July 15, and October 15 of each year. Annual reports shall be submitted by January 15th of each year.

Forward all reports to:

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

A copy of the Discharge Monitoring Report shall also be sent to:

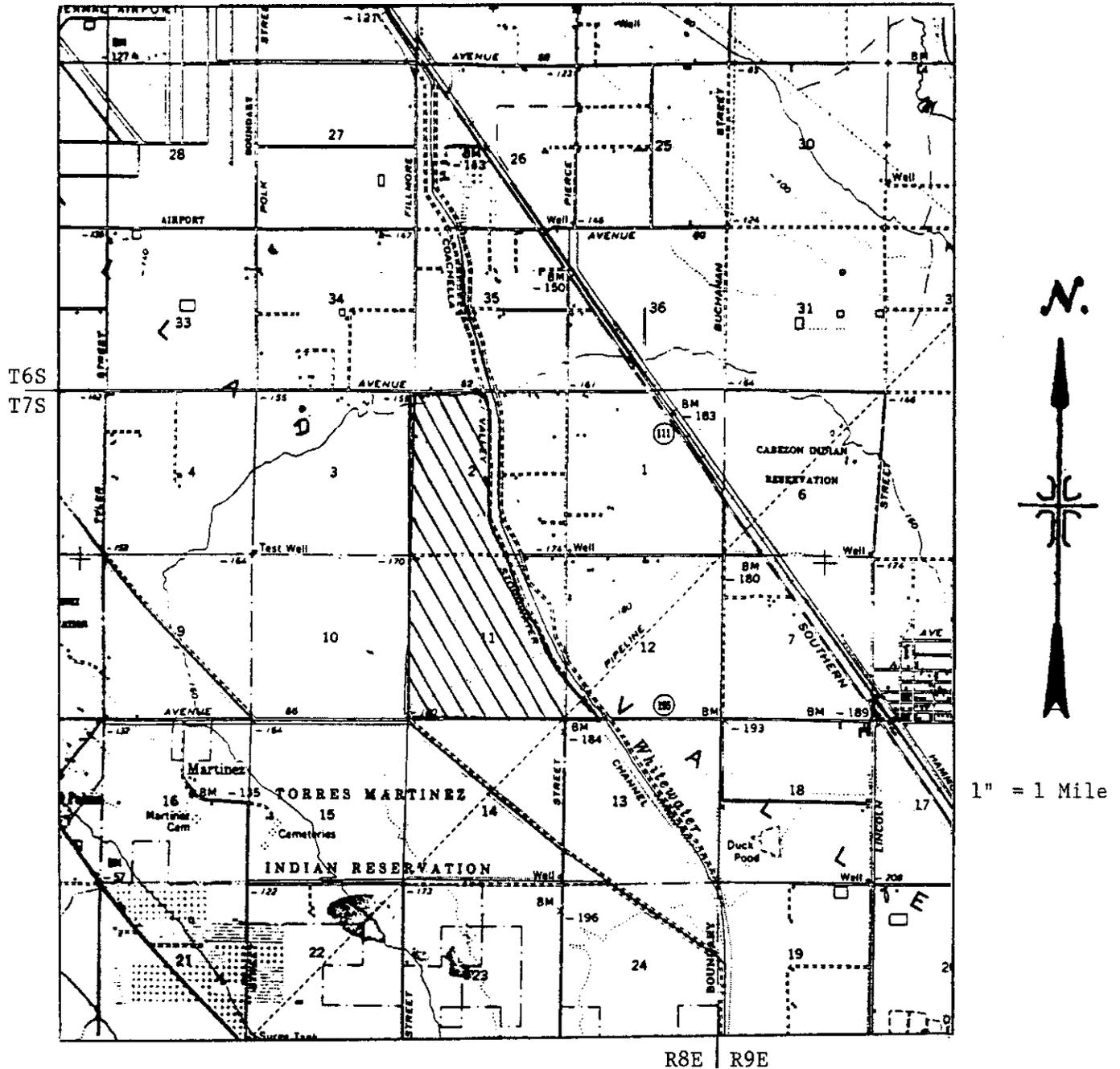
Regional Administrator  
Environmental Protection Agency  
Region IX, Attn: 65/MR, W-3  
211 Main Street  
San Francisco, CA 94105

ORDERED BY:

Philip A. Gumbert  
Executive Officer

March 14, 1990

Date



**SITE MAP**  
 COACHELLA VALLEY WATER DISTRICT  
 MID-VALLEY WASTEWATER RECLAMATION FACILITY  
 Riverside County  
 Location of Discharge: Sections 2 and 11 T7S, R8E, SBB&M  
 USGS Coachella 15 min. Topographic Map