

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 84-31
NPDES NO. CA0104477

WASTE DISCHARGE REQUIREMENTS
FOR
VALLEY SANITARY DISTRICT
Indio - Riverside County

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

1. Valley Sanitary District (hereinafter also referred to as the discharger), 45-500 Van Buren Street, Indio, California, 92201, submitted an updated NPDES Application for Permit to Discharge, dated December 30, 1983. Said application is assigned Application No. CA0104477.
2. The discharger presently discharges a peak month average daily flow of 3.8 mgd and a peak week average daily flow of 4.5 mgd of wastewater from an activated sludge type treatment plant and oxidation basins which are designed for an average daily flow of 7.5 mgd. Said wastewater is discharged into Coachella Valley Stormwater Channel, 17 miles from Salton Sea, in the SW $\frac{1}{4}$, SW $\frac{1}{4}$ of Section 19, T5S, R8E, SBB&M.
3. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted on May 16, 1984. The Basin Plan contains water quality objectives for Coachella Hydrologic Subunit.
4. Beneficial uses of the water in Coachella Valley Stormwater Channel, which are to be protected by this Order, are as follows:
 - a. Transport of dissolved solids to Salton Sea for agricultural soil salinity control.
 - b. Freshwater replenishment for Salton Sea.
 - c. Warm freshwater habitat for fish and wildlife.
 - d. Recreation - non-water contact.
5. The Regional Board's Water Quality Control Plan, Item A.9. Bacteria, in Chapter 4, reads as follows:

"In waters designated for contact recreation (REC I), the fecal coliform concentration based on a minimum of not less than five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100 ml, nor shall more than ten percent of total samples during any 30-day period exceed 400 MPN per 100 ml. These bacteriological values are to be used as maximum allowables."

Also, Chapter 3, Table 3-3 of said Plan states that Rec II (non-water contact use) is the beneficial use of Coachella Valley Storm Water Channel, and that the REC II is an unauthorized use of this channel. The Regional Board believes that for REC II the necessary coliform limitations would be no more stringent than for REC I.

*Superseded
by 85-12
1/23/85*

Also, the Regional Board feels that in this case the revising of the coliform limits from that in the tentative Order is not a significant change, and that the 200 MPN/100 ml coliform limit contained in A.9. Bacteria of said Chapter 4 is significantly lower than the mean value of 625 fecal MPN/100 ml contained in Table 2-4 of said Plan for said channel.

6. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 et. seq.) of Division 13 of the Public Resources Code in accordance with Water Code Section 13389.
7. The discharge has been subject to waste discharge requirements adopted in Order No. 79-45 (NPDES No. CA0104477) which allows discharge to Coachella Valley Stormwater Channel.
8. The Board has notified the discharger and interested agencies and persons of its intent to update requirements for the existing discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
9. The Board in a public meeting heard and considered all comments pertaining to the discharge.
10. 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 effect at the end of ten days from date of adoption provided the Regional Administrator has no objections.

IT IS HEREBY ORDERED, Valley Sanitary District, 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 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 shall not contain constituents in excess of the following limits:

Constituent	Unit	30-Day Arithmetic Mean Discharge Rate	7-Day Arithmetic Mean Discharge Rate
20°C BOD ₅	lbs/day	1877	2815
	mg/l	30	45
Suspended Solids	lbs/day	1877	2815
	mg/l	30	45
Settleable Matter	ml/l	0.3	0.5

2. The arithmetic mean of the values, by weight, for effluent samples collected for 20°C BOD₅ and for suspended solids in any 30-day period shall not be greater than 15 percent of the arithmetic mean of the values, by weight, for influent samples collected during the same 30-day period (85 percent removal).
3. The effluent values for pH shall remain within the limits of 6.0 to 9.0.
4. Wastewater discharged to Coachella Valley Storm Water Channel shall have a Most Probable Number of total coliform organisms of not more than 200 per 100 ml, nor shall more than 10 percent of the total samples during any 30-day period exceed 400 Most Probable Number per 100 ml, at some point in the treatment process.
5. Valley Sanitary District 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 Coachella Valley Stormwater Channel shall not:
 - a. Depress the dissolved oxygen content of said Channel below 5.0 mg/l.
 - b. Cause presence of oil, grease, scum, sludge, or solids.
 - c. Contain heavy metals or associated chemicals or pesticides in concentrations toxic to fish and other aquatic life.
2. This 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 Clean Water Act and regulations adopted thereunder.

C. Pretreatment Provisions

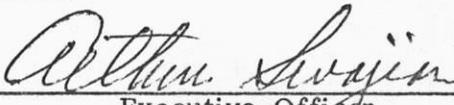
1. The discharger shall develop an industrial pretreatment program in accordance with Federal Clean Water Act, Section 402 (b)(8), and (9), and Federal Pretreatment Regulations 40 CFR 403.
2. The discharger shall implement an approved Industrial Pretreatment Program in accordance with the legal authorities, 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 and any applicable National Pretreatment Standards established by the U. S. Environmental Protection Agency (EPA).

4. The discharger shall provide EPA and the Regional Board with an annual report describing the pretreatment program activities over the previous 12-month period. The report shall be transmitted to EPA and the Regional Board no later than January 31 and include:
 - a. A summary of actions taken by the discharger which ensures industrial-user compliance;
 - b. An updated list of industrial users (by SIC categories) which were issued permits, 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 the discharger where a user fails to meet the approved applicable pretreatment standards.

D. Other Provisions

1. Neither the treatment nor the discharge of wastes shall cause a pollution or a nuisance, as defined in 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 and discharge facilities inoperable.
3. This Order supersedes this Board's Order No. 79-45.
4. This Order includes the attached "Monitoring and Reporting Program No. 84-31", and future revisions thereto, as specified by the Executive Officer.
5. This Order expires five (5) years from June 20, 1984, 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.
6. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
7. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code.

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 20, 1984.



Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

**MONITORING AND REPORTING PROGRAM NO. 84-31
FOR
VALLEY SANITARY DISTRICT
Indio - Riverside County**

Location of Discharge: SW $\frac{1}{4}$, SW $\frac{1}{4}$, of Section 19, T5S, R8E, SBB&M

MONITORING

EFFLUENT MONITORING

Wastewater discharged to Coachella Valley Stormwater Channel shall be monitored for the following constituents. A sampling station shall be established where representative samples of the effluent can be obtained.

Constituent	Unit	Type of Sample	Sampling Frequency
Flow (Total)	MGD	Average Daily	Reported Monthly ¹
Discharge to Stormwater Channel	MGD	Average Daily	Reported Monthly ¹
Settleable Matter	ml/l	Grab at Peak Flow	Weekly
Suspended Solids	mg/l	24-hr. Composite	Weekly
20°C BOD ₅	mg/l	24-hr. Composite	Weekly
pH	pH Units	Grab at Peak Flow	Daily ²
Coliform	MPN/100 ml	Grab at Peak Flow	Twice Weekly ³
Chlorine Residual	mg/l	Grab at Peak Flow	Daily ²

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1. Reported for each day with average monthly flow calculated.
 2. Once per weekday.
 3. Sample may be taken at any point in the treatment process.

INFLUENT MONITORING

Wastewater entering the treatment facilities 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 ₅	mg/l	24-Hr. Composite	Bi-Weekly
Suspended Solids	mg/l	24-Hr. Composite	Bi-Weekly

REPORTING

Monitoring data shall be submitted to the Regional Board as follows:

Daily, Weekly, and Bi-weekly data - Reported monthly by the 15th day of the following month.

Forward monitoring 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:

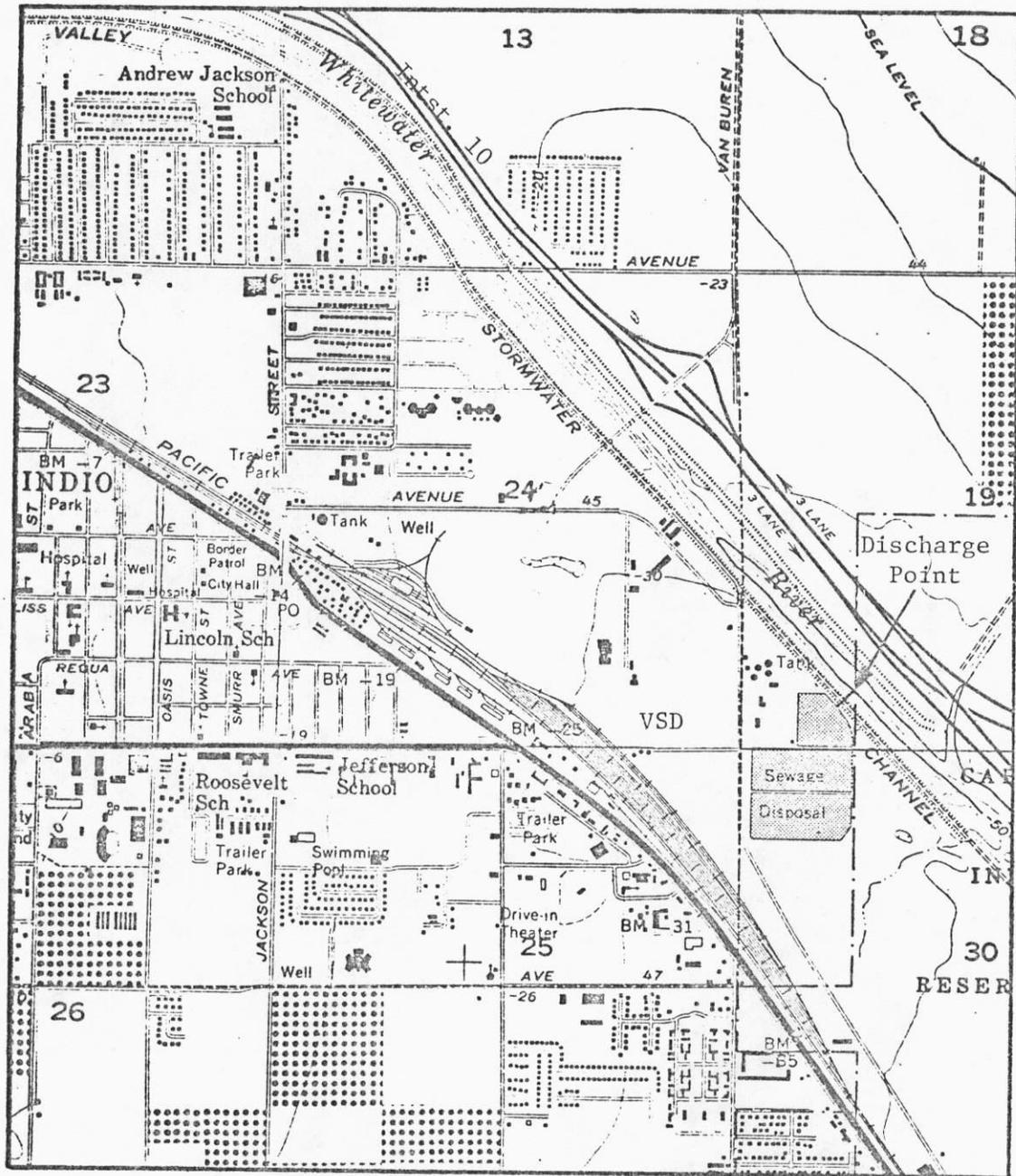
Regional Administrator
Environmental Protection Agency
Region 9, Attn: W-3
215 Fremont Street
San Francisco, CA 94105

ORDERED BY:

Arthur Swajian
Executive Officer

June 22, 1984
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



SITE MAP
VALLEY SANITARY DISTRICT
Indio - Riverside County
SW $\frac{1}{4}$, SW $\frac{1}{4}$ of Section 19, T5S, R8E, SBB&M
USGS Indio 7.5 min. Topographic Map

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

FACT SHEET

APPLICATION FOR WASTE DISCHARGE REQUIREMENTS
TO DISCHARGE TO STATE WATERS

PUBLIC NOTICE NO. 7-84-9
APPLICATION NPDES NO. CA0104477
ORDER NO. 84-31

Valley Sanitary District, 45-500 Van Buren Street, Indio, California, 92201, has applied to the California Regional Water Quality Control Board, Colorado River Basin Region, for updated waste discharge requirements for a discharge of pollutants into State Waters.

Applicant operates a sewage treatment plant and discharges a peak month average daily flow of 3.8 MGD of wastewater into Coachella Valley Stormwater Channel. The wastewater flows approximately 17 miles to Salton Sea. The maximum design flow of the treatment plant is 7.5 MGD. A more complete description of the discharge and a sketch of its location follow.

On the basis of preliminary staff review and application of lawful standards and regulations, the Regional Board proposes to adopt updated waste discharge requirements for the discharge. The proposed determinations are described more fully below.

DESCRIPTION OF PROPOSED DISCHARGE

FLOW

The discharge consists of treated mixed sewage and industrial wastewater from a population of approximately 30,000. A portion of the wastewater is used for greenbelt, pasture and crop irrigation, and the remainder is discharged to Coachella Valley Stormwater Channel.

Present peak month average daily flow: 3.8 MGD
Present peak week average daily flow: 4.5 MGD
Plant design average daily flow: 7.5 MGD

BENEFICIAL USES OF WATER IN COACHELLA VALLEY STORMWATER CHANNEL

There is no natural flow of water in "Coachella Valley Stormwater Channel" except during infrequent heavy rainstorms in the surrounding mountains. The channel is also referred to as the "Whitewater River". The normal flow in the channel is the result of agricultural drainage and discharge from sewage treatment plants. The drainage water is highly saline in that it is derived principally by leaching from the soil profile of agricultural lands. The Stormwater Channel discharges to Salton Sea, and the water in Salton Sea is approximately fifteen times as saline as the channel water which helps to replenish it.

The beneficial uses of water in Coachella Valley Stormwater Channel are:

1. Transport of dissolved solids to Salton Sea for agricultural soil salinity control.
2. Freshwater replenishment for Salton Sea.
3. Warm freshwater habitat for fish and wildlife.
4. Recreation - non-water contact.

PROPOSED DETERMINATIONS

The Regional Board has examined the above application. On the basis of applicable effluent limitations and water quality standards, Division 7 of the California Water Code, and regulations issued thereunder as contained in Title 23, California Administrative Code, the Regional Board proposes to issue to the applicant waste discharge requirements containing effluent limitations and certain other conditions. The following is a brief description of the proposed effluent limitations and special conditions:

Proposed Effluent Limitations

1. Constituent	Unit	30-Day Arithmetic Mean Discharge Rate	7-Day Arithmetic Mean Discharge Rate
20°C BOD ₅	lbs/day	1877	2815
	mg/l	30	45
Suspended Solids	lbs/day	1877	2815
	mg/l	30	45
Settleable Matter	ml/l	0.3	0.5

2. The effluent values for pH shall remain within the limits of 6.0 to 9.0.
3. Coliform organisms contained in the effluent shall not exceed a median Most Probable Number of 23 per 100 milliliters.

Proposed Receiving Water Limitations

1. Wastewater discharged to Coachella Valley Stormwater Channel shall not:
 - a. Depress the dissolved oxygen content of said Channel below 5.0 mg/l.
 - b. Cause presence of oil, grease, scum, sludge, or solids.
 - c. Contain heavy metals or associated chemicals or pesticides in concentrations toxic to fish and other aquatic life.

APPLICABLE EFFLUENT LIMITATIONS AND WATER QUALITY STANDARDS

The following are the effluent limitations and water quality standards which are applied to the applicant's discharge in the formulation of the above proposed determinations:

1. pH determination is based upon Environmental Protection Agency secondary treatment regulations.
2. Limitation on Settleable Matter to prevent formation of sludge deposits at point of discharge.
3. Limitation on Suspended Solids and BOD consistent with Environmental Protection Agency secondary treatment regulations.
4. Coliform limitation based upon recommendation of California Department of Health, Water Sanitation Section.

WRITTEN COMMENTS

Interested persons are invited to submit written comments upon the proposed discharge and the Executive Officer's proposed determination. Comments should be submitted by February 17, 1984, either in person or by mail to:

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

The application number should appear next to the above address on the envelope and on the first page of any submitted comments. All comments received by the above date will be considered in the formulation of final determinations.

INFORMATION AND COPYING

Persons wishing further information may write to the above address or call the Regional Board at (619) 346-7491. Copies of the application, proposed waste discharge requirements and other documents (other than those which the Executive Officer maintains as confidential) are available at the Regional Board office for inspection and copying.

REGISTER OF INTERESTED PERSONS

Any person interested in a particular application or group of applications may leave his name and address and phone number as part of the file for the application.

This list of names will be maintained as a means for persons with an interest in an application to contact others with similar interests.

PUBLIC HEARING

If submitted comments indicate a significant interest in the application or if the Executive Officer believes useful information may be produced thereby, he may request the Regional Board, at its discretion, to hold a public hearing on the application. Any person may request the Regional Board to hold a public hearing on the application.

Public notice of a hearing will be circulated at least 30 days in advance of the hearing which will be held in the vicinity of the discharge. Thereafter, the Executive Officer will formulate his final determinations within 60 days. Further information regarding the conduct and nature of public hearings concerning discharge permits may be obtained by writing or visiting the Regional Board office.