

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

ORDER NO. 86-77

WASTE DISCHARGE REQUIREMENTS  
FOR  
COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION PLANT  
Northeast of Palm Desert - Riverside County

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), P.O. Box 1058, Coachella, California, 92236, submitted an updated report of waste discharge on June 20, 1986.
2. The discharger presently discharges a peak month average daily flow of 5.38 mgd, and a peak week average daily flow of 6.60 mgd of wastewater, from an activated sludge treatment plant, with a design capacity of 10 mgd, into holding basins for final discharge by subsurface infiltration and also, direct reuse for irrigation of plant grounds, green belt areas and golf courses. Location of holding basins, infiltration basins and plant grounds is in E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Section 15, and the N $\frac{1}{2}$ , SW $\frac{1}{4}$ , Section 15, T5S, R6E, SBB&M.
3. The discharger is constructing tertiary wastewater treatment facilities having a capacity of 10 mgd to meet requirements set forth in Section 60313 (b) Title 22, California Administrative Code. The tertiary process consists of coagulation and flocculation, followed by dual media filtration. The filtered wastewater would be chlorinated and pumped to golf courses for irrigation purposes.
4. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted by the Regional Board on November 14, 1984.
5. The beneficial uses of the ground water of the Coachella Hydrologic Subunit are as stated in said Plan:
  - a. Municipal supply
  - b. Agricultural supply
  - c. Industrial supply
6. This discharge has been subject to waste discharge requirements adopted in Order No. 80-72.
7. The Board has notified the discharger and interested agencies and persons of its intent to update waste discharge requirements for the proposed discharge.

*Replaced  
by 90-016*

8. The Board in a public meeting heard and considered all comments pertaining to the proposed discharge.
9. These waste discharge requirements govern an existing facility which the discharger is currently operating and therefore, is exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301 of Title 14, Chapter 3 of the California Administrative Code.

IT IS HEREBY ORDERED, Coachella Valley Water District shall comply with the following:

A. Discharge Specifications

1. Representative samples of wastewater discharged to any holding and/or infiltration basin 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 <sub>5</sub>	mg/l	20	30
Suspended Solids	mg/l	20	30
Settleable Matter	ml/l	0.3	0.5

2. Representative samples of wastewater contained in holding and/or infiltration basins shall not contain constituents in excess of the following limits:

Constituent	Unit	30-Day Arithmetic Mean Discharge Rate	7-Day Arithmetic Mean Discharge Rate
Total Dissolved Solids	mg/l	450	500
Sulfate (SO <sub>4</sub> )	mg/l	70	80
Chloride (Cl)	mg/l	70	80
Fluoride (F)	mg/l	1.2	1.3

3. Coachella Valley Water District shall not deliver reclaimed wastewater for reuse to those users who, by reason of their operation practices, cause nuisances associated with wastewater or otherwise contribute to the violation of the requirements of this Order. Wastewaters directly reused shall conform to the following:
  - a. Reclaimed water used for the irrigation of golf courses, cemeteries, freeway landscapes, and landscapes in other areas where the public has similar access or exposure shall be at all times an adequately disinfected, oxidized wastewater. The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 23 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms does not exceed 240 per 100 milliliters in any two consecutive samples.
  - b. Reclaimed water used for the irrigation of parks, playgrounds, schoolyards, and other areas where the public has similar access or exposure shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater or a wastewater treated by a sequence of unit processes that will assure an equivalent degree of treatment and reliability. The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms does not exceed 23 per 100 milliliters in any sample.
4. Infiltration facilities shall be maintained and operated so as to maximize infiltration and minimize the increase of salinity.
5. A freeboard depth of at least two feet shall be maintained in each infiltration basin and holding basin.
6. Sewage sludge shall be discharged only at locations approved by the Regional Board.
7. Wastes, including windblown spray, shall be strictly confined to the lands specifically designated for the disposal operation, and irrigation practices shall be so managed that runoff of effluent from the irrigated areas does not occur at any time.

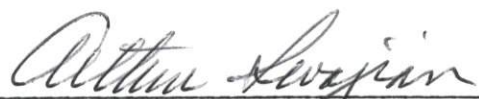
B. Provisions

1. The treatment and discharge of wastes shall not 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 includes the attached "Monitoring and Reporting Program No. 86-77", and future revisions thereto as specified by the Executive Officer.
4. Thirty days prior to using effluent for irrigation, the discharger shall submit to the Regional Board the following information:
  - a. Location of the area to be irrigated.
  - b. Person, Company or Agency to do the irrigating.
  - c. Name of on-site manager responsible for operation of the reclaimed wastewater system.
  - d. Quality of water provided in accordance with Discharge Specification No. 3a or 3b (above), and quantity.
  - e. After initiation of the irrigation operation, the discharger shall notify the Regional Board prior to any change in (a), (b) or (c) above.
5. This Order supersedes this Board's Order No. 80-72 which is hereby rescinded.
6. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
7. The discharger's plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code.
8. The wastewater reclamation facility shall meet the design and reliability requirements of Articles 7,8,9 and 10 of the California Administrative Code, Title 22. An engineering report conforming to Section 30323, Article 7, shall be developed.
9. The engineering report required by Provisions B.11 (above) shall be submitted to the Regional Board, State Health Department, and Riverside County Health Department. The discharge shall not be initiated until the engineering report is received and declared acceptable by the Executive Officer of the Regional 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 September 17, 1986.

  
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 86-77  
FOR  
COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION PLANT  
NE of Palm Desert - Riverside County

Location of Treatment Facility: E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Section 15, and the N $\frac{1}{2}$ , SW $\frac{1}{4}$ , Section 15, T5S, R6E, SBB&M

EFFLUENT MONITORING

Wastewater discharged to any holding and/or infiltration basin shall be monitored for the following:

Constituents	Unit	Type of Sample	Sampling Frequency
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
Flow (Total Plant Effluent)	MGD	Flow Measurement	Daily <sup>1</sup>

Wastewater contained in holding and/or infiltration basins shall be monitored for the following:

Total Dissolved Solids	mg/l	Grab	Quarterly
Sulfate (SO <sub>4</sub> )	mg/l	Grab	Quarterly
Chloride (Cl)	mg/l	Grab	Quarterly
Fluoride (F)	mg/l	Grab	Quarterly
Total Nitrogen (N) <sup>2</sup>	mg/l	Grab	Quarterly

1. Reported for each day with average monthly flow calculated.

2. Total Nitrogen as the summation of nitrate, nitrite, ammonia and organic nitrogen.

WASTEWATER RECLAMATION

Coachella Valley Water District shall report each location of irrigation use of wastewater, at least to the extent of 1/4 Section designations. Wastewater directly used for irrigation in accordance with Discharge Specifications 3a and 3b, shall be monitored for the following

Item	Unit	Type of Sample	Sampling Frequency
Coliform Organism	MNP/100 ml	Grab	Daily**
Wastewater directly used at each location	Gallons/day	Flow Measurement	Daily***
Turbidity	-	Continuous	Recorded*****
Chlorine Residual	mg/l	Grab at Peak Flow	Daily

SEWAGE SLUDGE

Coachella Valley Water District shall report quarterly on the quantity, method and location of sewage sludge discharged.

REPORTING

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

Quarterly report - by January 15, April 15, July 15 and October 15 of each year

Daily and Weekly data - reported monthly by the 15th day of the following month.

The discharger shall implement the above monitoring program within 30 days of the effective date of this Order.

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

September 17, 1986

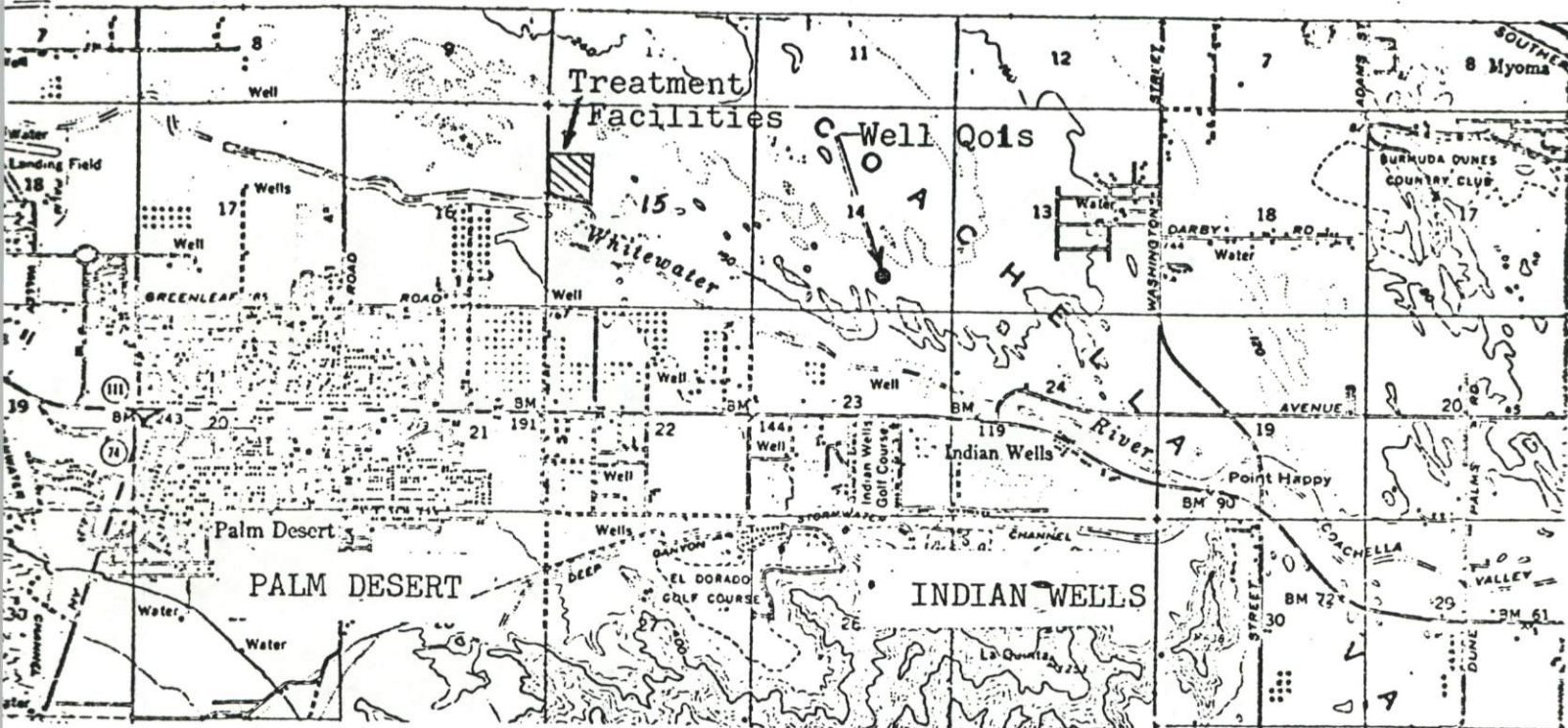
Date

\*\* To be taken when wastewater flow and characteristics are most demanding on the treatment facilities and disinfection procedures. The sample may be taken at any point in the treatment process.

\*\*\* Reported for each day with average monthly flow calculated.

\*\*\*\*\* Average daily value reported.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD -7



Site Map

Coachella Valley Water District  
Palm Desert Wastewater Reclamation Plant  
E 1/2, NW 1/4, Section 15  
and the  
N 1/2, SW 1/4, Section 15, T5S, R6E, SBB&M  
Palm Desert 15' Topographic Map



Scale:  
1" = 1 mile

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