

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 89-063
NPDES NO. CA0105074

WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF CALEXICO
WASTEWATER TREATMENT PLANT NO. 2
Calexico - Imperial County

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

1. The City of Calexico (hereinafter also referred to as the discharger), 408 Heber Avenue, Calexico, California 92231, submitted an NPDES application for permit to discharge wastewater on May 10, 1989. Said application is assigned Application No. CA0105074.
2. The discharger operates an activated sewage treatment plant, having a design capacity of 1.9 million-gallons-per-day (mgd) that serves a current population of about 19,000. The treated effluent is discharged to the New River under waste discharge requirements prescribed in Board Order No. 88-92 (NPDES No. CA0104418).
3. The existing wastewater treatment plant is operating near capacity, and the discharger has proposed the construction of Wastewater Treatment Plant No. 2 adjacent to the current treatment plant. The plant will have a design capacity of 0.78 mgd and will enable the City to meet the needed wastewater treatment capacity through the year 1999.
4. Proposed Wastewater Treatment Plant No. 2 will consist essentially of four lined, partially mixed and aerated waste stabilization ponds operated in series. Influent raw wastewater will enter a flow splitter box which will pass 1.9 mgd to the existing activated sludge treatment plant and the remaining influent to the ponds for treatment. Sludge removed periodically from the ponds will be dried in the four proposed sludge drying beds. The dried sludge will be disposed to an on-site landfill.
5. The wastewater ponds will provide treatment in accordance with EPA's equivalent secondary treatment requirements contained in 40 CFR Part 133.105. The wastewater will be treated for the following parameters: Biochemical Oxygen Demand (BOD), Suspended Solids (SS), and pH. The treated effluent will not be chlorinated prior to discharge to the New River.
6. The discharger proposes to discharge an annual average daily flow of 0.78 mgd of treated effluent from the ponds into the New River in the

*Superseded
by Board Order
94-049
6/29/94*

NW¼ of the SW¼ of Section 14, T17S, R14E, SBB&M as indicated in the attached Site Map.

7. The Water Quality Control Plan (Basin Plan) for the Colorado River Basin Region of California was adopted by the Regional Board on November 14, 1984. The Basin Plan contains water quality objectives for the New River and ground waters of the Imperial Hydrologic Unit.

8. Beneficial uses of the New River to be protected by this Order are as follows:
 - a. Freshwater replenishment for the Salton Sea
 - b. Warmwater habitat for fish and wildlife
 - c. Recreation - non-water contact

9. In accordance with Water Code Section 13389, the issuance of waste discharge requirements for this discharge is exempt from the provision of the California Environmental Quality Act described in Chapter 3, Division 13 of the Public Resources Code (commencing with Section 21000 et seq.).

10. 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.

11. The Board in a public meeting heard and considered all comments pertaining to the 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 effect at the end of ten days from date of adoption, provided the EPA Regional Administrator has no objections.

IT IS HEREBY ORDERED, the City of Calexico, 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 the New River shall not contain constituents in excess of the following limits:

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

2. The 30-day average percent removal of the pollutant parameters BOD₅ and suspended solids shall not be less than 65 percent.
3. The effluent values for pH shall be maintained within the limits of 6.0 to 9.0.

B. Receiving Water Limitations

1. Wastewater discharged to the New River shall not:
 - a. Depress the dissolved oxygen content of said River below 5.0 mg/l. During periods when the River's dissolved oxygen content is already below 5.0 mg/l, the discharge shall not cause any further depression.
 - b. Cause 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.

C. Provisions

1. Neither the treatment nor the discharge of wastewater shall create pollution or nuisance as defined in Division 7 of the California Water Code.

¹ 30-day mean: The arithmetic mean of pollutant parameter values of samples collected in a period of 30 consecutive days.

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

2. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the wastewater treatment/disposal facilities inoperable.
3. This Order includes the attached "Monitoring and Reporting Program No. 89-063", 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 Title 23, Section 3680, 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 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/4-85/014 - Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to Freshwater Organisms.
 - b. Said bioassays shall be performed quarterly for a period of at least one year (minimum of four tests per organism).
 - c. When the program described above in 4a and 4b 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.
7. This Order expires 5 years from September 20, 1989; and the discharger shall file a 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 provide written notice to the Executive Officer of changes planned in the discharger's sludge disposal practice from that specified in Finding No. 4 of this Board Order. Treated or untreated sludge or similar solid materials shall not be disposed at a new location without the prior approval of 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 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 reaches design capacity.
10. The discharger shall not accept waste in excess of the design capacity of the plant specified in Finding No. 3.

I, Phil 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 September 20, 1989.


Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 89-063

FOR

CITY OF CALEXICO

WASTEWATER TREATMENT PLANT NO. 2

Calexico - Imperial County

Location of Discharge: New River in the NW¼ of the SW¼ of Section 14, T17S, R14E,
SBB&M

EFFLUENT MONITORING

Wastewater discharged to the New River shall be monitored for the following constituents. 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 Sampling</u>	<u>Sampling Frequency</u>
20°C BOD ₅	mg/l	24-Hour Composite	Weekly
Suspended Solids	mg/l	24-Hour Composite	Weekly
Settleable Matter	ml/l	Grab	Daily
pH	-	Grab	Daily
Dissolved Oxygen	mg/l	Grab	Daily
Flow	mgd	-	Daily ¹
Bioassay	-	-	Quarterly
Sludge quantity, method, and location of disposal	Dry Tons/Year	-	Reported Yearly

INFLUENT MONITORING

The wastewater influent to the treatment facilities shall be monitored biweekly for 20°C BOD₅ and for Suspended Solids.

¹Reported monthly with monthly average daily flow calculated.

REPORTING

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

The discharger shall implement the above monitoring program with 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

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

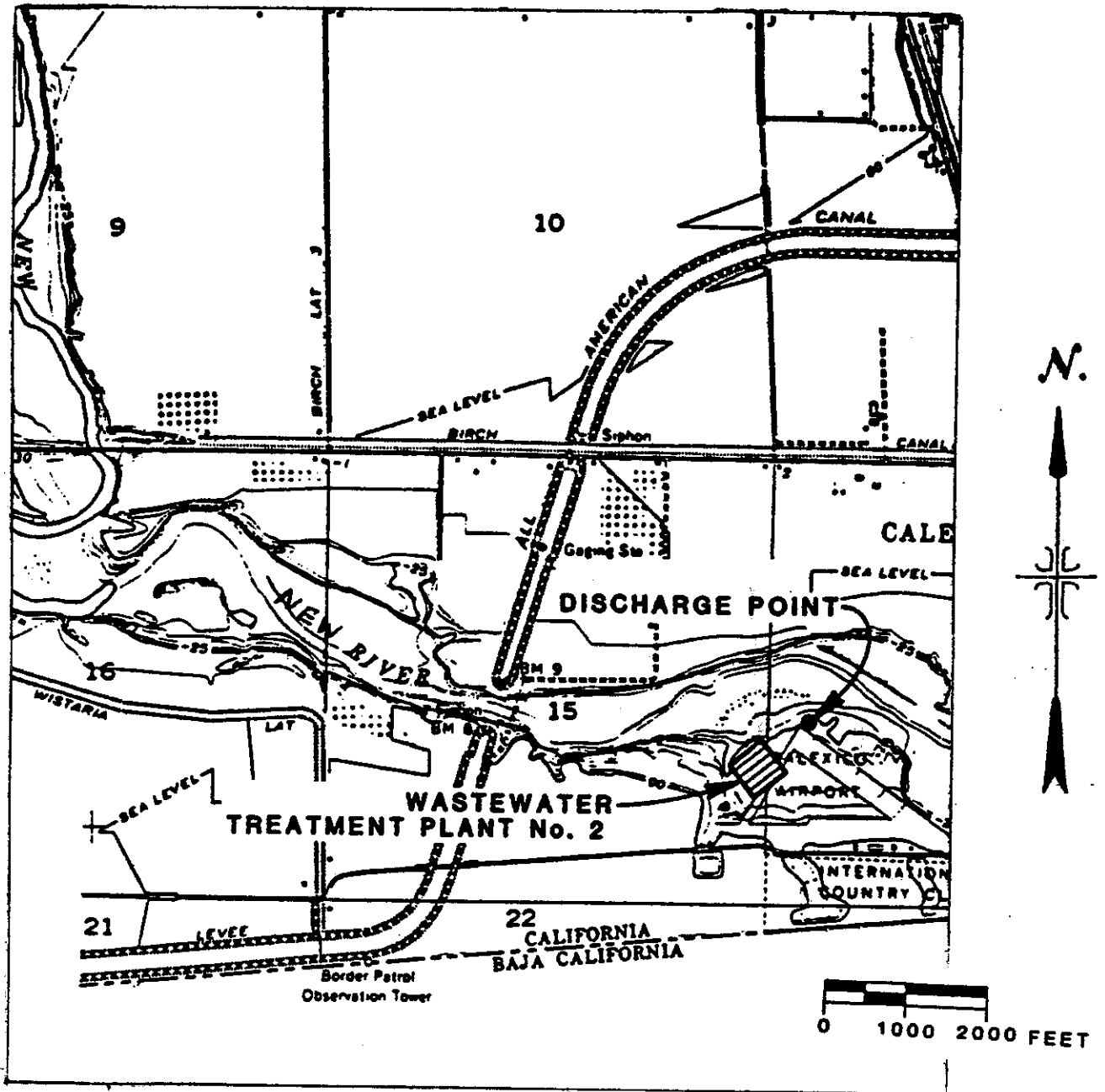
Regional Administrator
Environmental Protection Agency
Region 9, Attn: 65/MR, W-3
215 Fremont Street
San Francisco, CA 94105

ORDERED BY:

Phil Gruenberg
Executive Officer

September 20, 1989

Date



SITE MAP

CITY OF CALEXICO
WASTEWATER TREATMENT PLANT NO. 2
Calexico - Imperial County

Discharge Location: NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 14, T17S, R14E, SBB&M
USGS Calexico 7.5 min Topographic Map