

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 89-077
NPDES NO. CA0104477

WASTE DISCHARGE REQUIREMENTS
AND NPDES PERMIT
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 NPDES Application for renewal of permit to discharge, dated June 22, 1989. Said application is assigned Application No. CA0104477.
2. The discharger owns and operates a wastewater treatment facility consisting of the following three parallel treatment plants, located at the same site:

<u>Treatment System</u>	<u>Design Flow</u>
a. Activated Sludge Plant	5.0 million-gallons-per-day (mgd)
b. Trickling Filter	0.5 mgd
c. Waste Stabilization Ponds	<u>2.0 mgd</u>
Total	7.5 mgd

3. The effluent from the three treatment plants are chlorinated before final discharge through a common outfall pipe to the Coachella Valley Stormwater Channel, in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 19, T5S, R8E, SBB&M, as indicated on the attached site map. The discharger reports the following current annual average discharges from the three treatment plants:

a. Activated Sludge Plant	3.8 mgd
b. Stabilization Ponds	0.9 mgd
c. Trickling Filter	Currently 100 percent is recirculated; discharge to surface water will begin within 2 years

4. The treatment facility's primary sludge is heat-treated and vacuum-filtered, and disposed of on adjacent agricultural lands (belonging to the discharger, the Cabazon Indian Tribe and Twentynine Palms Indian Tribe) in accordance with the approval of the Regional Board's Executive Officer. Waste activated sludge is collected in sludge holding cells, decanted, dried and periodically removed for land disposal in accordance with the approval of the Executive Officer.

*Replaced by
94-077*

5. The discharger reports the following industrial wastewater contribution to the above municipal wastewater treatment system: 55,000 gallons-per-day (intermittent) of date-processing wastewater from two date packaging facilities in Indio, belonging to Dole Dried Fruit and Nut Company.
6. The discharger periodically discharges a peak month average daily flow of 3.0 mgd of treated wastewater from waste stabilization ponds for irrigation of nearby pastures, grazed by non-milking animals, under Board Order No. 89-013.
7. The Water Quality Control 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 Coachella Hydrologic Subunit.
8. Beneficial uses of water in the Coachella Valley Stormwater Channel, which are to be protected by this Order, are as follows:
 - a. Fresh Water replenishment of Salton Sea (FRSH)
 - b. Water Contact Recreation (REC I)
 - c. Non contact Water Recreation (REC II)
 - d. Warm Water Habitat (WARM)
 - e. Wildlife Habitat (WILD)
9. The discharge has been subject to waste discharge requirements adopted in Board Order No. 85-012 (NPDES No. CA0104477), and pretreatment requirements adopted in Board Order No. 85-061, which allows discharge to the Coachella Valley Stormwater Channel.
10. In accordance with California Water Code, Section 13389, the issuance of waste discharge requirements for this discharge is exempt from the provisions of the California Environmental Quality Act described in Chapter 3 (commencing with Section 21100 et seq.), Division 13 of the Public Resources Code.
11. The purpose of this Order is to renew waste discharge requirements contained in Board Orders No. 85-012 and 85-061.
12. The Board has notified the discharger and interested agencies and persons of its intent to renew waste discharge requirements for the said discharge.
13. The Board in a public meeting heard and considered all comments pertaining to the existing discharge.
14. 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, Valley Sanitary 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 three treatment plants shall not contain constituents in excess of the limits indicated below. Each treatment plant shall be monitored separately:

a. Activated Sludge Treatment Plant

(1) <u>Constituent</u>	<u>Unit</u>	30-Day Arithmetic Mean <u>Discharge Rate</u>	7-Day Arithmetic Mean <u>Discharge Rate</u>
20°C CBOD ₅ ¹	mg/l	25	40
Suspended Solids	mg/l	30	45
Settleable Matter	ml/l	0.3	0.5

(2) The 30-day average percent removal of the pollutant parameters CBOD₅ and suspended solids shall not be less than 85 percent.

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

b. Trickling Filter

(1) <u>Constituent</u>	<u>Unit</u>	30-Day Arithmetic Mean <u>Discharge Rate</u>	7-Day Arithmetic Mean <u>Discharge Rate</u>
20°C CBOD ₅ ¹	mg/l	25	40
Suspended Solids	mg/l	30	45
Settleable Matter	ml/l	0.3	0.5

(2) The 30-day average percent removal of the pollutant parameters CBOD₅ and suspended solids shall not be less than 85 percent.

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

¹ CBOD₅: The five day measure of the pollutant parameter carbonaceous biochemical oxygen demand.

c. Waste Stabilization Ponds

(1) <u>Constituent</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate</u>	<u>7-Day Arithmetic Mean Discharge Rate</u>
20°C CBOD ₅ ²	mg/l	40	60
Suspended Solids	mg/l	95	-
Settleable Matter	ml/l	0.3	0.5

(2) The 30-day average percent removal of the pollutant parameters CBOD₅ 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.

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 requirement shall be achieved on or before July 15, 1992 as follows:

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

4. 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.

² CBOD₅: The five day measure of the pollutant parameter carbonaceous biochemical oxygen demand.

B. Receiving Water Limitations

1. Wastewater discharged to the Coachella Valley Stormwater Channel shall not:
 - a. Depress the dissolved oxygen content of the said Stormwater Channel below 5.0 mg/l. During periods when the Channel'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 and regulations adopted thereunder.

C. Pretreatment Provisions

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 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 of each year 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, 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 the discharger where a user fails to meet the approved applicable pretreatment standards.

D. Other Provisions

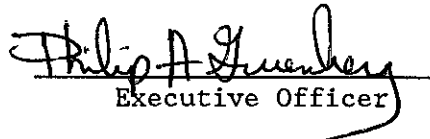
1. Neither the treatment nor the discharge of wastes shall cause pollution or a nuisance, as defined in Division 7 of the California Water Code.
2. Adequate protective works shall be provided to assure that a flood which would be expected to occur on a frequency of once in a 100-year period, would not erode or otherwise render portions of the treatment/disposal facilities inoperable.
3. This Board Order includes the attached Standard Provisions for NPDES Permit and the attached "Monitoring and Reporting Program No. 89-077", 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 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 6a and 6b 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 discharger's compliance with any prescribed toxicity requirements shall not commence until July 15, 1992, the compliance date for achieving effluent dechlorination.

1600/

7. This Board Order expires 5 years from November 29, 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 obtain the prior written approval of the Executive Officer regarding location and method of disposal of treated primary and secondary sludges. 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. 2. 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 total design capacity of the plant specified in Finding No. 2.
11. The discharger shall implement acceptable operational and maintenance at the wastewater treatment plant so that needed repair and maintenance are performed in a timely manner.

IT IS FURTHER ORDERED that this Board Order 89-077 supersedes Board Order No. 85-012, and rescinds Board Order 85-061.

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 November 29, 1989.


Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 89-077

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

A. EFFLUENT MONITORING

Wastewater effluent discharged to the Coachella Valley Stormwater Channel from the three treatment plants shall be monitored as follows: Three separate sampling stations shall be established where representative samples of the three effluents can be separately monitored for constituents/parameters indicated below:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Daily Effluent Discharge From Each Plant	MGD	Flowmeter Reading	Daily ¹
Settleable Matter	ml/l	Grab at Peak Flow	Weekly
Suspended Solids	mg/l	24-Hr. Composite	Weekly
20°C CBOD ₅	mg/l	24-Hr. Composite	Weekly
pH	pH Units	Grab at Peak Flow	Daily

In addition, a representative sample from the total combined flow shall be collected prior to discharge from the common outfall pipe and shall be monitored as follows:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Coliform	MPN/100 ml	Grab at Peak Flow	Twice Weekly
Chlorine Residual	mg/l	Grab at Peak Flow	Daily
Total Dissolved Solids	mg/l	24-Hr. Composite	Weekly

¹ Reported for each day with average monthly flow calculated.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Bioassay	-	-	Quarterly
Total Discharge to Storm Channel	MGD	Flowmeter Reading	Daily ²

Should the discharger need to install additional outfall lines in the future to meet the necessary discharge capacity, then the constituent/parameters being monitored for the above total combined flow shall be done likewise for each then existing outfall line.

B. INFLUENT MONITORING

The wastewater influent to the treatment facility shall be monitored weekly for 20°C CBOD and suspended solids, using 24-hour composite samples.

C. SLUDGE MONITORING

The discharger shall report the quantities in tons/year (wet or dry) of primary and secondary sludges generated and the method and location of disposal.

D. OPERATION AND MAINTENANCE

<u>Activity</u>	<u>Reporting</u>
To inspect and document any operational and maintenance problems by reviewing each unit process.	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

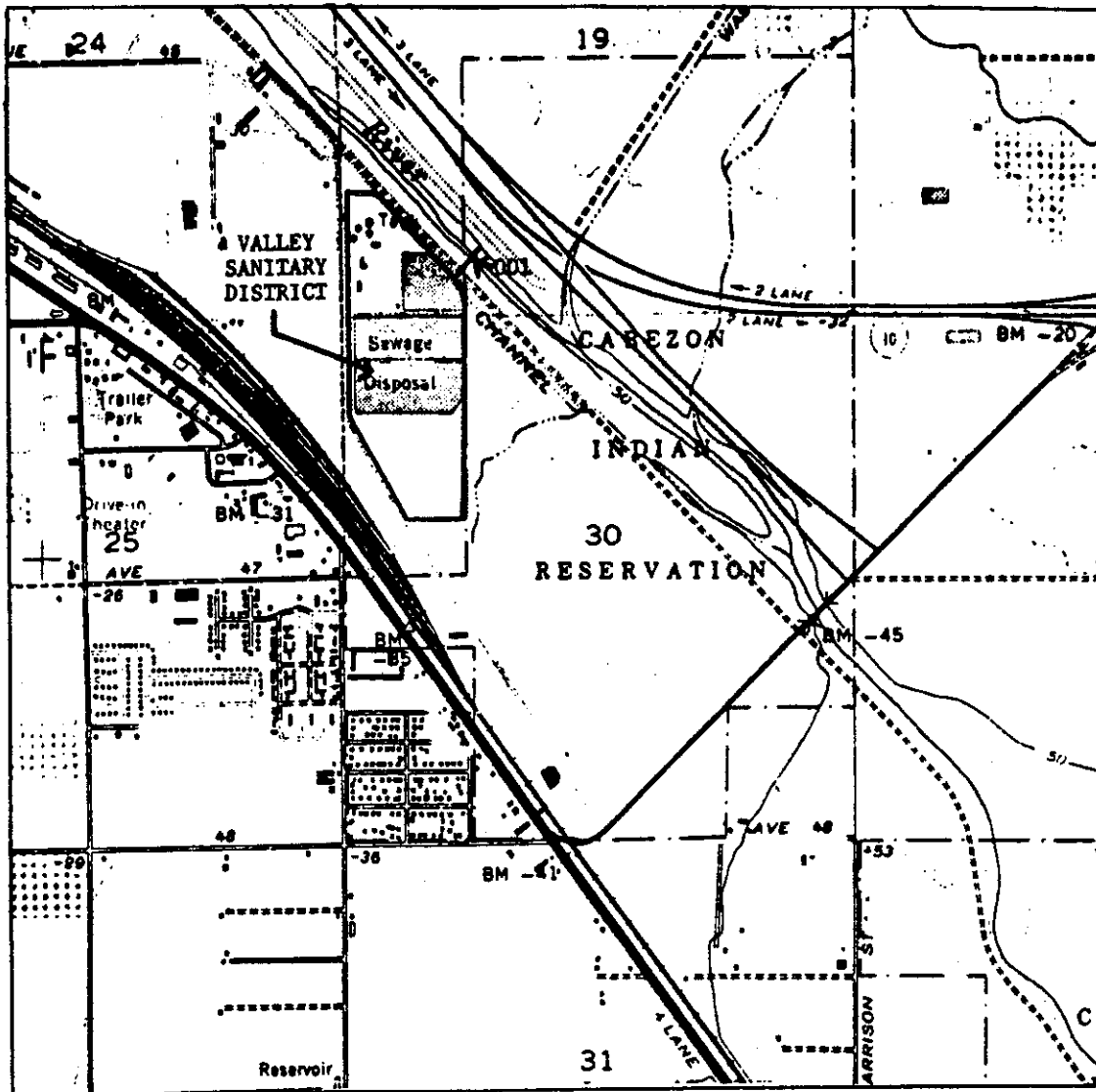
² Reported for each day with average monthly flow calculated.

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: Philip A. Guenley
Executive Officer

November 29, 1989
Date



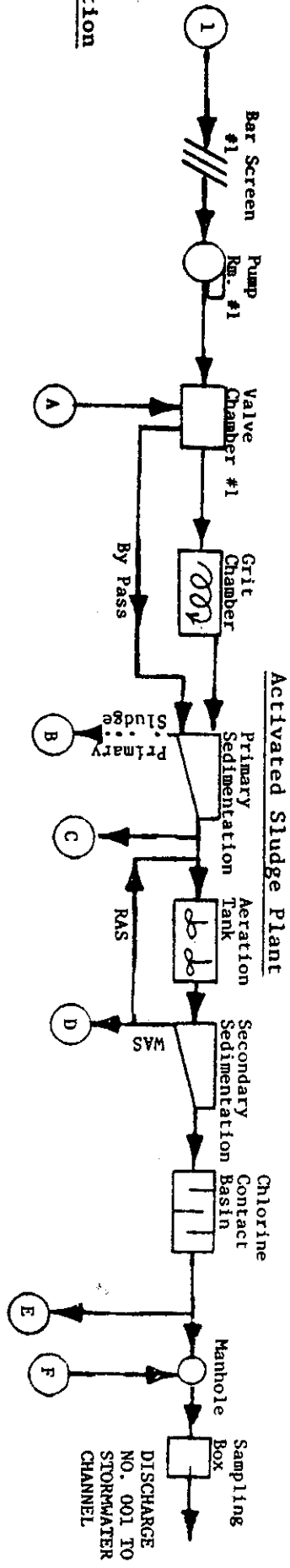
Scale: 1:24000

SITE MAP

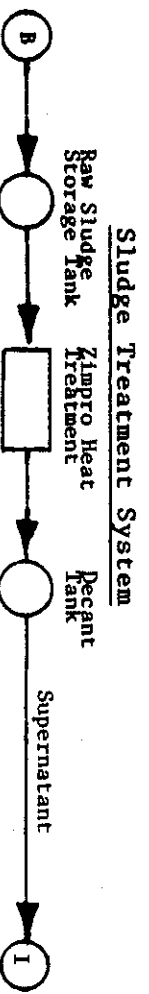
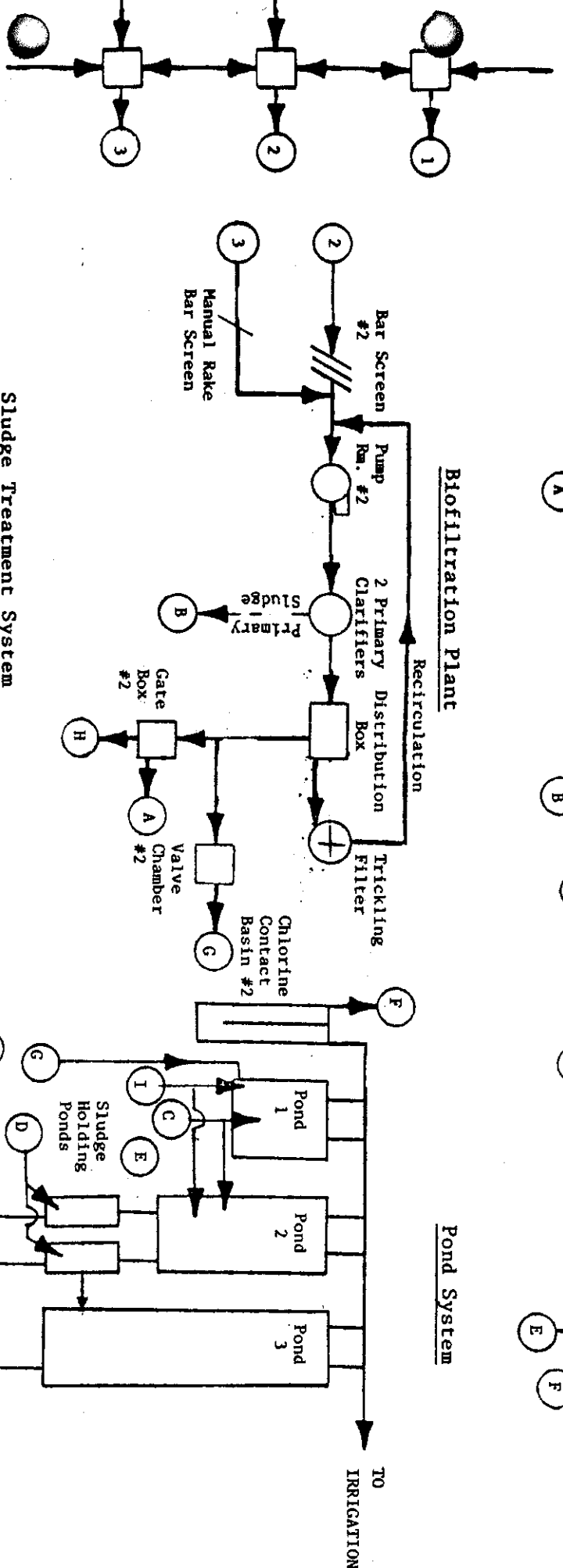
VALLEY SANITARY DISTRICT
Indio - Riverside County
SW $\frac{1}{4}$, SW $\frac{1}{4}$, Section 19, T5S, R8E, SBB&M
USGS Indio 7.5 min Topographic Map

Order No. 89-077

Influent Distribution



Biofiltration Plant



Schematic of Wastewater Flow
VALLEY SANITARY DISTRICT
Indio, California
Discharge Serial No. 001
April 26, 1989