

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION

SAN JOAQUIN WATERSHED BRANCH OFFICE:

2 EAST ASHLAN AVENUE

1 NO. CA 93726

1 E: (209) 445-5116



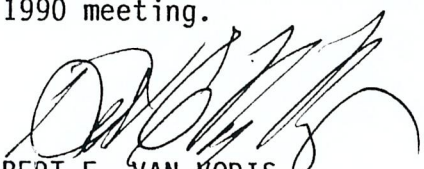
23 October 1990

597
9804
CERTIFIED MAIL
P 400 365 489

Fresno County Service Area No. 30
2220 Tulare Street, Sixth Floor
Fresno, CA 93721

TRANSMITTAL OF ADOPTED WASTE DISCHARGE REQUIREMENTS FOR FRESNO COUNTY SERVICE AREA NO. 30, EL PORVENIR WASTEWATER FACILITY, FRESNO COUNTY

Enclosed is an official copy of Order No. 90-262 as adopted by the California Regional Water Quality Control Board, Central Valley Region, at its 28 September 1990 meeting.


BERT E. VAN VORIS
Supervising Engineer

SWG:cjs

Enclosures: Adopted Order
Standard Provisions (Discharger only)

cc: U. S. Fish and Wildlife Service, Sacramento
Office of Chief Counsel, State Water Resources Control Board, Sacramento
Mr. Archie Matthews, Division of Water Quality, State Water Resources Control Board, Sacramento
Department of Health Services, Office of Drinking Water, Fresno
Department of Fish and Game, Region IV, Fresno
Department of Water Resources, San Joaquin District, Fresno
Fresno County Health Department, Fresno
Fresno County Planning Department, Fresno

Monthly Report
est. Flow
PH
DO > 1 mg/L
EC
6.5-8.5
Free bound
50,000 GPD
Source + sum

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. 90-262

WASTE DISCHARGE REQUIREMENTS
FOR
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Board) finds that:

1. Fresno County Service Area No. 30 (hereafter Discharger) owns and operates the wastewater treatment facility for the community of El Porvenir. El Porvenir is in Fresno County about 40 miles southwest of Fresno and about 17 miles due south of the City of Mendota, as shown on Attachments A and B, which are part of this Order.
2. The Board, on 25 July 1975, adopted Order No. 75-167 which prescribes requirements for El Porvenir Development Corporation for the discharge of domestic wastewater to land.
3. Order No. 75-167 does not reflect current ownership, and is neither adequate nor consistent with current plans and policies of the Board.
4. Wastewater facilities consist of two waste stabilization ponds. The facilities are designed for 50,000 gallons per day (gpd). Flow is currently estimated at 20,000 gpd. The facilities are in Section 25, T16S, R14E, MDB&M, with surface water drainage to the valley floor. The site lies within the Westlands Hydrologic Area (No. 551.10) as defined in hydrogeologic maps prepared by the Department of Water Resources, August 1986.
5. The Board, on 21 August 1975, adopted the *Water Quality Control Plan for the Tulare Lake Basin (5D)*. These requirements are consistent with that plan.
6. The beneficial uses of Valley Floor Waters are industrial, and agricultural supply; recreation; aesthetic enjoyment; ground water recharge; and preservation and enhancement of fish, wildlife, and other aquatic resources.
7. Depth to first ground water is less than 50 feet. Local quality is poor. EC is about 3000 μ hos/cm, but sulfates exceed 1500 mg/l, selenium exceeds drinking water standards, and boron is about 1 mg/l. The beneficial use of the shallow ground water underlying this area is agricultural supply, although such use is limited by existing quality.

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

WASTE DISCHARGE REQUIREMENTS
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-2-

8. The action to update waste discharge requirements for this facility is exempt from the provisions of the California Environmental Quality Act in accordance with Title 14, California Code of Regulations (CCR) Section 15301.
9. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Order No. 75-167 is rescinded and Fresno County Service Area No. 30, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following at the above-described facility:

A. Discharge Prohibitions:

1. Discharge of wastes to surface waters or surface water drainage courses is prohibited.
2. Bypass or overflow of untreated or partially treated waste is prohibited.
3. Discharge of waste classified as 'hazardous' or 'designated', as defined in Sections 2521(a) and 2522(a) of Subchapter 15 (Title 23, CCR, Sections 2510, et seq.), is prohibited.

B. Discharge Specifications:

1. The discharge shall remain within the designated disposal area (shown on Attachment B) at all times.
2. The monthly average daily dry weather discharge flow shall not exceed 50,000 gallons.
3. Any use for reclaimed water shall be subject to the approval of the Executive Officer and shall comply with Title 22, California Code of Regulations, Division 4.
4. The dissolved oxygen content in the upper zone (1 foot) of wastewater in ponds shall not be less than 1.0 mg/l.

Author

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

WASTE DISCHARGE REQUIREMENTS
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-3-

5. The maximum specific electrical conductivity (EC) of the discharge shall not exceed the average EC of the source water plus 500 μ mhos/cm.
6. The discharge shall not have a pH less than 6.5 or greater than 8.5.
7. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal areas.
8. Ponds shall be managed to prevent breeding of mosquitos. In particular,
 - a. An erosion control program shall assure that small coves and irregularities are not created around the perimeter of the water surface.
 - b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.
9. Public contact with wastewater shall be precluded through such means as fences, signs, and other acceptable alternatives.
10. The facilities shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
11. The evaporation/percolation ponds shall have sufficient capacity to accommodate allowable wastewater flow and design seasonal precipitation and ancillary inflow and infiltration during the nonirrigation season. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns. Freeboard shall never be less than 2 feet (measured vertically).

C. Sludge Disposal:

1. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with Chapter 15, Division 3, Title 23 of the California Code of Regulations, and approved by the Executive Officer.

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

WASTE DISCHARGE REQUIREMENTS
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-4-

2. Any proposed change in sludge use or disposal practice shall be reported to the Executive Officer at least 14 days in advance of the change.
3. Use and disposal of sewage sludge shall comply with existing federal and state laws and regulations, and with Clean Water Act (CWA) Section 405(d) technical standards when promulgated.

If an applicable management practice or numerical limitation for pollutants in sewage sludge is promulgated under Section 405(d) of the CWA after issuance of this permit and is more stringent than the sludge pollutant limit or management practice specified in this permit or in existing federal or state laws or regulations, this order shall be promptly revised to conform to the regulations promulgated under Section 405(d) of the CWA. The Discharger shall comply with the limitations by no later than the compliance deadline specified in the applicable regulations as required by Section 405(d) of the CWA.

D. RECEIVING WATER LIMITATIONS

The Discharge, in combination with other sources, shall not cause underlying ground water to:

1. Contain waste constituents in concentrations statistically greater than receiving water limits, where specified below, or background water quality where not specified. (For purposes of comparison, background water quality shall be determined when background monitoring provides sufficient data. Quality determined in this manner establishes "water quality protection standards.")
2. Exceed an annual average incremental increase in specific electrical conductivity greater than 1 μ mhos/cm, based on the most recent five-year period.
3. Contain chemicals, heavy metals, or trace elements in concentrations that adversely affect beneficial uses or exceed maximum contaminant levels specified in Title 22, California Code of Regulations, Division 4, Chapter 15.
4. Exceed a most probable number of total coliform organisms of 2.2/100 ml over any seven-day period.
5. Exceed concentrations of radionuclides specified in Title 22, California Code of Regulations, Division 4, Chapter 15.

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

WASTE DISCHARGE REQUIREMENTS
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-5-

6. Contain taste or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.
7. Contain concentrations of chemical constituents in amounts that adversely affect agricultural use.

E. Provisions:

1. The Discharger shall use the best practicable cost-effective control technique currently available to comply with salinity limits specified in this order.
2. The Discharger shall comply with the attached Monitoring and Reporting Program No. 90-262, and any revisions thereto as order by the Executive Officer.
3. The Discharger shall comply with the "Standard Provisions and Reporting Requirements for Waste Discharge Requirements", dated 1 July 1990, which are, by reference, made part of this Order.
4. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office.
5. A copy of this Order shall be kept at the discharge facility for reference by operating personnel. Key operating personnel shall be familiar with its contents.
6. In addition to modification of this Order under circumstances described in Standard Provision A.3, this Order may be modified if sludge use or disposal practices change, if applicable management practices or numerical limitations for pollutants in sewage sludge necessitate it, if there is endangerment to human health or the environment, or if the Board elects to review and revise the Order on its own motion.
7. By 31 January 1991, the Discharger shall provide a letter report identifying the names, titles, and certificate grades of persons supervising and operating the facility, as required by Standard Provision E.1, and identifying who to contact in an emergency.
8. By 31 January 1991, the Discharger shall submit the technical reports described in Standard Provision B.2 and a copy of the operation and maintenance manual for the facility.

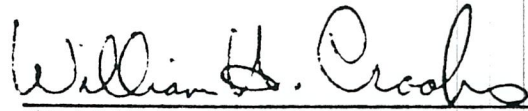
EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

WASTE DISCHARGE REQUIREMENTS
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-6-

9. The Discharger must comply with all conditions of this Order. Violations may result in enforcement action, including Regional Board or court orders requiring corrective action or imposing civil monetary liability, or in modification or revocation of this Order.
10. The Board will review this Order periodically and will revise requirements when necessary.

I, WILLIAM H. CROOKS, 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, Central Valley Region, on 28 September 1990.


WILLIAM H. CROOKS, Executive Officer

SWG:cjs:9/28/90

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. 90-262
FOR
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

Specific sample station locations shall be established under direction of the Board's staff and a description of the stations shall be attached to this Order.

EFFLUENT MONITORING

Effluent samples shall be collected just prior to discharge to the disposal facility. Effluent samples should be representative of the volume and nature of the discharge. Samples collected from the ponds will be considered adequately composited. Time of collection of a grab sample shall be recorded. The following shall constitute the effluent monitoring program:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency^{1/}</u>
Flow	mgd	Estimate	Weekly
Dissolved Oxygen ^{2/}	mg/l	Grab	Weekly
Specific Conductivity	μmhos/cm	Grab	Monthly
pH	pH Units	Grab	Monthly

^{1/} If results of monitoring a pollutant appear to violate effluent limitations, but monitoring frequency is not sufficient to validate violation (e.g., the monthly mean for BOD), or indicate a violation and potential upset of the treatment process (e.g., less than minimum D.O.), the frequency of sampling shall be increased to confirm the magnitude and duration of violation, if any, and aid in identification and resolution of the problem.

^{2/} Samples shall be collected at a depth of one foot from each pond, opposite the inlet, and analyzed for dissolved oxygen. Samples shall be collected between 0800 and 0900 hours.

WATER SUPPLY MONITORING

A sampling station shall be established where a representative sample of the water supply can be obtained. The following shall constitute the water supply monitoring program:

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

MONITORING AND REPORTING PROGRAM
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-2-

<u>Constituents</u> ^{1/}	<u>Units</u>	<u>Sampling Frequency</u>
Specific Conductivity @ 25°C	µmhos/cm	Quarterly

- ^{1/} If the source water is from more than one well, constituents shall be reported as a weighted average and include copies of supporting calculations.

SLUDGE MONITORING

When sludge is removed from ponds, but prior to disposal, a composite sample shall be analyzed, on a dry weight basis, for Total Solids (%), Nitrogen (total, NH₄-N, and NO₃-N), Total Phosphorous, Total Potassium, Total PCBs, and totals of specific metals (Pb, Zn, Cu, Ni, Cd, and Ag). Analytical results shall be submitted to the Executive Officer. Analysis of soluble concentrations of these specific metals shall also be included. If final disposal is proposed to go to land, a technical report analyzing application rates and procedures relative to Department of Health Services' *Manual of Good Practices for Landspreading of Sewage Sludge* and EPA's *Process Design Manual for Land Application of Municipal Sludges* and Title 23, California Code of Regulations, Section 2511(f), shall be completed and submitted to the Executive Officer for approval.

POND MONITORING

The freeboard shall be monitored on all ponds in use to the nearest tenth of a foot. The following shall constitute the freeboard monitoring program.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
Freeboard	feet	Observation	Weekly

Permanent markers shall be placed in each pond with calibrations indicating the water level at design capacity and available operational freeboard.

In addition, the Discharger shall inspect the condition of the ponds once per week and write visual observations in a bound log book. Notations shall include observations of whether weeds are developing in the water or along the bank, and their location; whether dead algae, vegetation, scum, or debris are accumulating on the pond surface and their location; whether burrowing animals or insects are present; and the color of the pond (e.g., dark sparkling green,

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

MONITORING AND REPORTING PROGRAM
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-3-

dull green, yellow, grey, tan, brown, etc.). A copy of the entries made in the log during each month shall be submitted along with the monitoring report the following month. Where the O&M manual indicates remedial action is necessary, the Discharger shall briefly explain in the transmittal what action has been taken or is scheduled to be taken.

REPORTING

Monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month.

In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in a manner that illustrates clearly whether the Discharger complies with waste discharge requirements, including calculation of all averages, etc.

If the Discharger monitors any pollutant at the locations designated herein more frequently than is required by this Order, the results of such monitoring shall be included in the discharge monitoring report.

The Discharger may also be requested to submit an annual report to the Board with tabular and graphical summaries of the monitoring data obtained during the previous year. Any such request shall be made in writing. The report shall discuss the corrective actions taken and planned to bring the discharge into full compliance with the waste discharge requirements.

By 31 January of each year, the Discharger shall submit a written report to the Executive Officer containing the following:

- a. The names and general responsibilities of persons operating and maintaining the wastewater treatment plant (Standard Provision E.1).
- b. The names and telephone numbers of persons to contact regarding the plant for emergency and routine situations.
- c. A statement whether the current operation and maintenance manual, and contingency plan, reflect the wastewater treatment plant as currently constructed and operated, and the dates when these documents were last reviewed for adequacy.
- d. The total quantity of sludge disposed of during the previous year and ultimate disposal site(s).

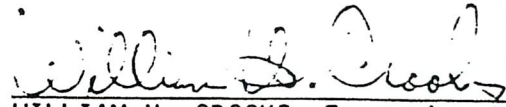
EXHIBIT B-3

CSA 30 WASTE DISCHARGE REQUIREMENTS

MONITORING AND REPORTING PROGRAM
FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

-4-

All reports submitted in response to this Order shall comply with the signatory requirements in Standard Provision B.3.



WILLIAM H. CROOKS, Executive Officer

28 September 1990

(Date)

SWG:cjs:9/28/90

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

INFORMATION SHEET

FRESNO COUNTY SERVICE AREA NO. 30
EL PORVENIR WASTEWATER FACILITY
FRESNO COUNTY

Fresno County Service Area No. 30 provides public services, including sewer service, for the community of El Porvenir, in west Fresno County. El Porvenir is in Fresno County about 40 miles southwest of Fresno and about 17 miles due south of the City of Mendota. The facilities are in Section 25, T16S, R14E, MDB&M, with surface water drainage to the valley floor. The site lies within the Westlands Hydrologic Area (No. 551.10).

Wastewater facilities consist of two waste stabilization ponds. The facilities are designed for 50,000 gallons per day (gpd). Flow is currently estimated at 20,000 gpd.

Soils on-site consist of Panoche fine loamy sand.

This site is on the edge of the area where shallow ground water is a problem. One and a half miles to the northeast, ground water is less than 30 feet deep, but this site is a hundred feet in elevation higher than that well. Shallow ground water in this area is of poor quality. EC in the area generally ranges from 3000 to 5000 $\mu\text{mhos/cm}$, but one well has an EC of 12,000 $\mu\text{mhos/cm}$. Sulfates invariably exceed 1500 mg/l, and are frequently much higher. Selenium and boron are also high. The beneficial use of the shallow ground water in this area is agricultural supply, although it is marginal even for that use.

This Order contains provisions intended to preclude nuisance conditions, prevent further degradation of underlying ground waters, and prevent inundation and flooding of the disposal facilities.

Monitoring of the effluent includes parameters that will indicate compliance with the Basin Plan, and these requirements. Annual reports are also required updating information on contact persons and sludge disposal.

The action to update waste discharge requirements for this existing facility is exempt from the provisions of the California Environmental Quality Act, in accordance with Title 14, California Code of Regulations, Section 15301.

SWG:cjs

EXHIBIT B-3
CSA 30 WASTE DISCHARGE REQUIREMENTS

