

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

ORDER NO. 01-022

**WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF BANNING, OWNER
UNITED WATER SERVICES, OPERATOR
BANNING WASTEWATER TREATMENT PLANT
AND WASTEWATER COLLECTION AND DISPOSAL SYSTEMS
Banning - Riverside County**

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

1. City of Banning (hereinafter referred to as the discharger), 99 East Ramsey Street, Banning, California 92220, submitted an application to update its Waste Discharge Requirements (WDRs) for the Banning Wastewater Treatment Plant, and wastewater collection and disposal systems. The Waste Discharge Requirements are for the Banning Wastewater Treatment Plant, and wastewater collection and disposal systems.
2. The discharger owns a wastewater collection, treatment and disposal system (hereinafter referred to as the facility) and provides sewerage service to the City of Banning. Operation of the treatment plant is currently contracted with United Water Services. The wastewater treatment plant, located at 2242 East Charles Street, Banning, California, has a design secondary treatment capacity of 3.6 million gallons-per-day (MGD) and presently discharges approximately 2.3 MGD into ten (10) infiltration basins, which are located in Section 14, T3S, R1E, SBB&M.
3. The infiltration basins overlay an aquifer of high quality. The discharger states that the depth to groundwater is approximately 400 feet. Infiltration of wastewater from the ponds is likely to degrade the quality of the groundwater by increasing the concentrations of total dissolved solids and nitrates. The amount of degradation to groundwater quality is unknown.
4. The wastewater treatment plant currently receives industrial wastewater from several businesses within the City of Banning. The discharger's Industrial Waste Program issues Industrial User Discharge Permits to verify that these businesses meet the City of Banning's local discharge limits, which were determined to ensure that the wastewater treatment plant is protected and can meet effluent standards.
5. The wastewater treatment plant consists of preliminary treatment, primary treatment, secondary treatment, solids handling, and disinfection and disposal systems.
6. Untreated wastewater flows to the preliminary treatment system, which consists of a mechanical bar screen, compactor, grit removal system, classifier and cyclone separator. Wastewater from the preliminary treatment system gravity flows to two (2) primary clarifiers and the effluent is pumped to two (2) trickling filters. The effluent from the trickling filters flows to the two (2) secondary clarifiers and then to the chlorine contact channel for disinfection. After disinfection the effluent is conveyed to one (1) of ten (10) percolation ponds.

7. Primary sludge from the two (2) primary clarifiers is pumped to the anaerobic digester for further treatment. Secondary sludge from the secondary clarifiers is pumped to the gravity thickener for thickening and then pumped to three (3) anaerobic digesters for further treatment. Sludge wasting from the digester is pumped to the sludge drying beds. Class B biosolids are produced and a private contractor hauls the biosolids offsite for disposal/land application.
8. There are no domestic wells within 500 feet of the on-site infiltration basins described in Finding No. 2, above.
9. Federal regulations for storm water discharges were promulgated by the United States Environmental Protection Agency (USEPA) on 16 November 1990 (40 CFR Parts 122, 123, and 124). The regulations require specific categories of facilities which discharge storm water associated with industrial activity to obtain National Pollutant Discharge Elimination System (NPDES) permits and to implement Best Conventional Pollutant Technology (BCPT) to reduce or eliminate industrial storm water pollution.
10. The State Water Resources Control Board (SWRCB) adopted Order No. 97-03-DWQ (General Permit No. CAS000001), specifying Waste Discharge Requirements for discharges of storm water associated with industrial activities, excluding construction activities, and requiring submittal of a Notice of Intent by industries to be covered under the Permit.
11. This discharge has been subject to Waste Discharge Requirements adopted in Board Order No. 93-003.
12. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) was adopted on November 17, 1993, and designates the beneficial uses of ground and surface waters in this Region.
13. The beneficial uses of ground waters in the San Geronio Hydrologic Subunit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
14. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these Waste Discharge Requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.)
15. The Board has notified the discharger and all known interested agencies and persons of its intent to update Waste Discharge Requirements for this discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
16. The Board, in a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, that Board Order No. 93-003 is rescinded, and in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the discharger shall comply with the following:

A. Effluent Limitations

1. Wastewater effluent discharged to or contained in the infiltration basins from treatment facilities shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate¹</u>	<u>7-Day Arithmetic Mean Discharge Rate²</u>	<u>Maximum</u>
20°C BOD ₅ ³	mg/L ⁴	30	45	-----
Total Suspended Solids	mg/L	30	45	-----
Aluminum	mg/L	---	---	1.0
Iron	mg/L	---	---	0.3
Chloride	mg/L	70	80	-----

2. The effluent values for pH shall not be below 6.0 or above 9.0.
3. The 30-day average daily dry weather discharge flow shall not exceed 3.6 MGD.
4. The increase in concentration of total dissolved solids (TDS) in the wastewater discharged to the treatment basins over that contained in the water supply to the community shall not exceed 400 mg/L. Whenever this TDS is exceeded, the discharger shall develop and implement appropriate mitigation measures, which are acceptable to the Regional Board's Executive Officer.

B. Specifications

1. The infiltration facilities shall be maintained and operated so as to maximize infiltration and minimize the increase of salinity.
2. A minimum depth of freeboard of two (2) feet shall be maintained at all times in each infiltration basin.
3. There shall be no surface flow of wastewater away from the designated disposal areas.
4. Neither the treatment nor the discharge of wastes shall cause a pollution or a nuisance, as defined in Sections 13050(l) and 13050(m) of 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 as specified in the Monitoring and Reporting Program.

² 7 Day Mean-The arithmetic mean of pollutant parameter values of samples collected in a period of 7 consecutive days as specified in the Monitoring and Reporting Program.

³ BOD₅ - Biochemical Oxygen Demand

⁴ mg/L - milligrams-per-Liter

5. Public contact with non-disinfected wastewater shall be precluded through such means as fences, signs, and other acceptable alternatives.
6. The discharge shall not cause degradation of any water supply.
7. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal area.
8. The infiltration/storage basins shall be maintained so they will be kept in aerobic conditions.
9. As a means of discerning compliance with Discharge Specifications No. 7 and No. 8 for discharge to infiltration/storage basins, the dissolved oxygen content in the upper zone (one (1) foot) of infiltration/storage basins shall not be less than 2.0 mg/L.
10. Treated or untreated sludge or similar solid waste materials shall be disposed at locations approved by the Regional Board's Executive Officer.
11. The wastewater treatment facility shall be protected from any washout or erosion of wastes or covering material, and from any inundation, which could occur as a result of floods having a predicted frequency of once in 100 years.

C. Prohibitions

1. The direct discharge of any wastewater from the facility to any surface waters or surface drainage courses is prohibited.
2. Bypass, overflow, discharge or spill of untreated or partially treated waste is prohibited.
3. The discharge of waste to land not owned or controlled by the discharger is prohibited.
4. Discharge of treated waste at a location or in a manner different from that described in Findings No. 2, 6, and 7, is prohibited
5. The discharger shall not accept waste in excess of the design treatment capacity of the disposal system.

D. Provisions

1. The discharger shall comply with "Monitoring and Reporting Program No. 01-022", and future revisions thereto, as specified by the Regional Board's Executive Officer.
2. Prior to any modifications of this facility, which would result in material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the discharger shall report all pertinent information in writing to the Regional Board and obtain revised requirements before any modifications are implemented.
3. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
4. The discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
5. This Board Order does not authorize violation of any federal, state, or local laws or

- regulations.
6. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
 7. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
 8. The discharger shall comply with all of the conditions of this Board Order. Any noncompliance with this Board Order constitutes a violation of the Porter-Cologne Water Quality Control Act and is grounds for enforcement action.
 9. The discharger shall, at all times, properly operate and maintain all systems and components of treatment and control which are installed or used by the discharger to achieve compliance with the conditions of this Board Order. Proper operation and maintenance includes effective performance, adequate process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of this Board Order. All systems both in service and reserved, shall be inspected and maintained on a regular basis. Records shall be kept of the inspection results and maintenance performed and made available to the Regional Board upon demand.
 10. The discharger shall report any noncompliance that may endanger human health or the environment. Information shall be provided orally as soon as possible and no longer than 24 hours of when the discharger becomes aware of the incident to the Regional Board office and the Office of Emergency Services. The discharger shall also leave a message on the Regional Board office voice recorder during non-business hours. A written report shall also be provided within five (5) business days of the time the discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned, to reduce, eliminate, and prevent recurrence of the noncompliance. The discharger shall report all intentional or unintentional sewage spills in excess of 1,000 gallons occurring within the facility or collection system to the Regional Board office in accordance with the above time limits.
 11. The discharger shall comply with the following:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

- b. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Board Order, and records of all data used to complete the application for this Board Order, for a period of at least five (5) years from the date of the sample, measurement, report or application.
- c. Records of monitoring information shall include:
 - 1. The date, exact place, and time of sampling or measurements.
 - 2. The individual(s) who performed the sampling or measurements.
 - 3. The date(s) analyses were performed.
 - 4. The individual(s) who performed the analyses.
 - 5. The analytical techniques or method used; and
 - 6. The results of such analyses.
- 12. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency (USEPA).
- 13. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
- 14. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Chapter 4, Division 4, Title 23 of the California Code of Regulations.
- 15. The discharger shall provide a report to the Regional Board when it determines that the plant is operating at eighty (80) percent of the design capacity specified in Findings No. 2 above. The report should indicate what steps, if any; the discharger intends to take to provide for the expected wastewater treatment capacity necessary when the plant reaches design capacity.
- 16. The discharger is the responsible party for the Waste Discharge Requirements and the Monitoring and Reporting Program for the facility. The discharger shall comply with all conditions of these Waste Discharge Requirements. Violations may result in enforcement actions, including Regional Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board.
- 17. The discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted in accordance with the specifications prepared by the Regional Board's Executive Officer. Such specifications are subject to periodic revisions as may be warranted.
- 18. All storm water discharges from this facility must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies, regarding discharges of storm water to storm water drain systems or other courses under their jurisdiction.
- 19. Ponds shall have sufficient capacity to accommodate allowable wastewater flow, design seasonal precipitation, ancillary inflow, and infiltration during the non-irrigation 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.

20. Storm water discharges from the facility shall not cause or threaten to cause pollution or contamination.
21. Storm water discharges from the facility shall not contain hazardous substances equal to or in excess of a reportable quantity listed in 40 CFR Part 117 and/or 40 CFR Part 302.
22. The discharger shall obtain prior written approval from the Regional Board specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste materials using a method not described in Finding No. 7. In addition, if the discharger intends to dispose of secondary sludge using a method not described in Finding No. 7, then the discharger shall provide a plan as to the method, treatment, handling and disposal of sludge that is consistent with all state and federal laws and regulations.
23. The discharger shall provide adequate notice to the Regional Board's Executive Officer of the following:
 - a. Any new introduction of pollutants into any of the treatment facilities described in the Findings of this Board Order from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act, if it were directly discharging the pollutants.
 - b. Any substantial change in the volume or character of pollutants being introduced into any of the treatment facilities described in the Findings of this Board Order by an existing or new source.
 - c. Any planned physical alterations or additions to the facilities described in this Board Order, or changes planned in the discharger's sludge use or disposal practice, where such alterations, additions, or changes may justify the application of Board Order conditions that are different from or absent in the existing Board Order, including notification of additional disposal sites not reported during the Board Order application process, or not reported pursuant to an approved land application plan.
 - d. The discharger shall report all instances of noncompliance. Reports of noncompliance shall be submitted with the discharger's next scheduled Self-Monitoring Report or earlier if requested by the Regional Board's Executive Officer, or if required by an applicable standard for sludge use and disposal.
24. The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination in accordance with the Monitoring and Reporting Program of this Board Order. The sludge that is stockpiled at the treatment facility shall be sampled and analyzed for those constituents listed in the sludge monitoring section of the Monitoring and Reporting Program of this Board Order and as required by Title 40, Code of Federal Regulations, Part 503. The results of the analyses should be submitted to the Regional Board as part of the Monitoring and Reporting Program.
25. The discharger shall construct a groundwater monitoring system in the vicinity of the unlined infiltration basins, which shall enable groundwater samples to be collected and analyzed as specified in the "Monitoring and Reporting Program No. 01-022". This system shall be constructed within six (6) months after approval of the design plans for said system and shall include at a minimum one (1) groundwater well up-gradient and two (2) groundwater wells down-gradient of the infiltration basins.

26. The design plans for the groundwater monitoring system shall be submitted to the Regional Board's Executive Officer for approval within 20 months of adoption of this Board Order.
27. This Board Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the discharger for a Board Order modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Board Order condition. Causes for modification include the promulgation of new regulations, modification of land application plans, or modification in sludge use or disposal practices, or adoption of new regulations by the SWRCB or the Regional Board, including revisions to the Basin Plan.

E. Pretreatment

1. In the event that significant industrial wastewaters are being discharged to the wastewater treatment facility, then:
 - a. The discharger shall enforce the federal categorical pretreatment standards on all Categorical Industrial Users (CIUs).
 - b. The discharger shall notify the CIU of its discharge effluent limits. The limits must be as stringent as the pretreatment standards contained in the applicable federal category (40 CFR Part 400-699). The discharger may develop more stringent, technically based local limit if it can show cause.
 - c. The discharger shall notify the RWQCB if the CIU violates its discharge effluent limits.
2. The discharger shall provide the Regional Board with an annual report describing the pretreatment program activities over the previous twelve (12)-month period. The report shall be transmitted to the Regional Board office 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.
3. The Regional Board retains 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.

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 May 9, 2001.

Executive Officer