

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

ORDER NO. 88-110
NPDES NO. CA 0104205

**WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF NEEDLES
San Bernardino County**

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

1. City of Needles, (hereinafter also referred to as the discharger), P.O. Box 887, Needles, California 92363, submitted an updated NPDES Application for Permit to Discharge, dated March 30, 1988. Said application is assigned Application No. CA0104205.
2. The discharger presently discharges a peak month average daily flow of 0.58 mgd and a peak week average daily flow of 0.69 mgd of wastewater from a trickling filter treatment plant, which is designed for an average daily flow of 1.8 mgd. Said wastewater is discharged into the Colorado River at mid-river near the center of Section 33, T9N, R23E, SBB&M.
3. The Water Quality Control Plan for the Colorado River Basin Region was adopted on November 14, 1984. The Plan contains water quality objectives for the Piute Hydrologic Unit.
4. The State Water Resources Control Board has adopted a "Water Quality Control Plan for the Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California", (Thermal Plan) which prohibits discharges of elevated temperature wastes into cold interstate waters, which includes the reach of Colorado River northward from the Needles-Topock Highway Bridge.
5. The temperature of the waste discharge of the City of Needles may exceed the temperature of Colorado River water at the location of discharge by as much as 20°F.
6. The City of Needles, in correspondence dated January 29, 1974, requested that it be provided with an exception to said Thermal Plan. Said exception was granted by the State Water Resources Control Board on April 18, 1974, in Resolution No. 74-33, and received EPA concurrence by letter dated May 21, 1974.
7. On November 16, 1977, The Regional Board approved for guidance a "Policy for Implementation of the Colorado River Salinity Standards through the NPDES Permit Program."
8. The beneficial uses of Colorado River water are:
 - a. Municipal supply

- b. Industrial supply
 - c. Agricultural supply
 - d. Domestic supply
 - e. Recreation - water contact and non-water contact
 - f. Freshwater habitat
 - g. Hydroelectric power generation
 - h. Wildlife habitat
 - i. Ground water recharge
9. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 et seq.) of Division 13 of the Public Resources Code in accordance with Water Code Section 13389.
 10. The Discharge has been subject to waste discharge requirements adopted in Order No. 83-91 (NPDES No. CA0104205) which permits discharge to Colorado River.
 11. The Regional Board has notified the discharger and interested agencies and persons of its intent to update requirements for the existing discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written and verbal views and recommendations.
 12. The Regional Board in a public meeting heard and considered all comments pertaining to the discharge.
 13. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Clean Water Act, and amendments thereto, and shall take effect at the end of ten days from date of hearing provided the Regional Administrator has no objections.

IT IS HEREBY ORDERED, that the City of Needles, 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 Colorado River shall not contain constituents in excess of the following Limits:

Constituents	Unit	30-Day Arithmetic Mean Discharge Rate	7-Day Arithmetic Mean Discharge Rate
20°C BOD ₅	lbs/day	450	675
	mg/l	30	45
Suspended Solids	lbs/day	450	675
	mg/l	30	45
Settleable Matter	ml/l	0.3	0.5

2. The arithmetic mean of the values for effluent samples collected for 20°C BOD₅ and for suspended solids in any 30-day period shall not be greater than 15 percent of the arithmetic mean of the values for influent samples collected during the same 30-day period (85 percent removal).
3. The peak month average daily flow shall not exceed 1.8 mgd.
4. The effluent values for pH shall remain within the limits of 6.0 to 9.0.
5. The daily maximum total residual chlorine shall not exceed 0.02 mg/l.¹ The sampling shall be done from a mixing zone of no greater than a 25-foot radius from the mid-river discharge pipe.
6. The discharged wastewater shall be adequately disinfected. Said wastewater shall be considered to be adequately disinfected if at some point in the treatment process the Median Most Probable Number of Coliform Organisms, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed, does not exceed the limit prescribed below for the described discharge condition:
 - a. Effluent piped into the main part of the channel - coliform organisms not to exceed 23 per one hundred (100) milliliters.
7. The temperature of the City of Needles wastewater discharged to Colorado River shall not exceed the temperature of the receiving waters by more than 20°F at any time.
8. The incremental increase of Total Dissolved Solids concentration in the discharged wastewater, shall not exceed 400 mg/l above the flow weighted average of that concentration in the water supply of the City of Needles.

B. Receiving Water Limitations

1. Wastewater discharged to Colorado River shall not:
 - a. Depress the dissolved oxygen content of the receiving water below 5.0 mg/l.
 - b. Cause presence of oil, grease, scum, sludge, or solids.
 - c. Contain heavy metals or associated chemicals or pesticides in concentrations toxic to fish and other aquatic life.

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1. Total residual chlorine levels below the limit of detection by either amperometric or reverse iodometric titration shall satisfy this requirement.

2. This discharge shall not cause a violation of any 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. Provisions

1. Neither the treatment nor the discharge of wastes shall cause pollution or 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 expires September 22, 1993; and the discharger shall file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as an application for issuance of new waste discharge requirements.
4. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
5. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code.
6. The discharger shall comply with "Monitoring and Reporting Program "88-110", and any future revisions thereto, as specified by the Executive Officer.

IT IS FURTHER ORDERED that Board Order No. 83-91 be superceded by this Order.

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 SEP 22 1988.


Executive Officer

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

MONITORING AND REPORTING PROGRAM NO. 88-110

FOR

CITY OF NEEDLES
San Bernardino County

Location of Discharge: Near the center of Section 33, T9N, R23E, SBB&M

MONITORING

WASTEWATER DISCHARGE

Wastewater discharged to the Colorado River shall be monitored for the following constituents. A sampling station shall be established where representative samples of the effluent can be obtained.

Constituent	Unit	Type of Sample	Sampling Frequency
Flow (Total)	MGD	Average Daily	Daily ¹
Temperature	°F	Grab at Peak Flow	Daily ²
Settleable Matter	ml/l	Grab at Peak Flow	Weekly
Suspended Solids	mg/l	24-Hr. Composite	Weekly
20°C BOD ₅	mg/l	24-Hr. Composite	Weekly
pH	pH Units	Grab at Peak Flow	Daily ²
Coliform ³	MPN/100ml	Grab at Peak Flow	Daily ²
Chlorine Residual	mg/l	Grab at Peak Flow ⁴	Daily ²
Total Dissolved Solids	mg/l	24-Hr. Composite	Monthly
Sulfate (SO ₄)	mg/l	24-Hr. Composite	Annually
Chloride (Cl)	mg/l	24-Hr. Composite	Annually
Ammonia (N)	mg/l	24-Hr. Composite	Annually
Organic Nitrogen (N)	mg/l	24-Hr. Composite	Annually
Nitrate (N)	mg/l	24-Hr. Composite	Annually
Dissolved Oxygen	mg/l	Grab at Peak Flow	Daily ²

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1. For each day with average monthly flow calculated.
 2. Once per weekday
 3. The discharger shall submit the results of each coliform analysis and also submit 7-day medians.
 4. May be sampled in 25-foot radius mixing zone.

RECEIVING WATER MONITORING

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Temperature	°F	N/A	Daily

INFLUENT MONITORING

The wastewater influent to the treatment facilities shall be monitored for 20°C BOD₅ and for suspended solids, monthly, 24-hour composite sample.

Water Supply to City of Needles

The City of Needles shall submit an analysis of the following constituents, based on a weighted average of all sources of its municipal water supply:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Dissolved Solids	mg/l	24-Hr. Composite	Monthly
Chloride (Cl)	mg/l	24-Hr. Composite	Annually
Sulfate (SO ₄)	mg/l	24-Hr. Composite	Annually

Sewage Sludge

The discharger 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:

Annual reports - by January 15 of the following year.

Quarterly reports - January 15, April 15, July 15, and October 15 of each year.

Daily, Weekly and Monthly reports - 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 No. 88-110.

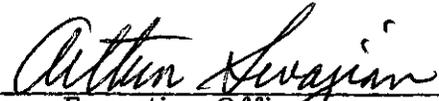
Submit monitoring reports to:

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 IX, Attn: 65/MR
215 Fremont Street
San Francisco, CA 94105

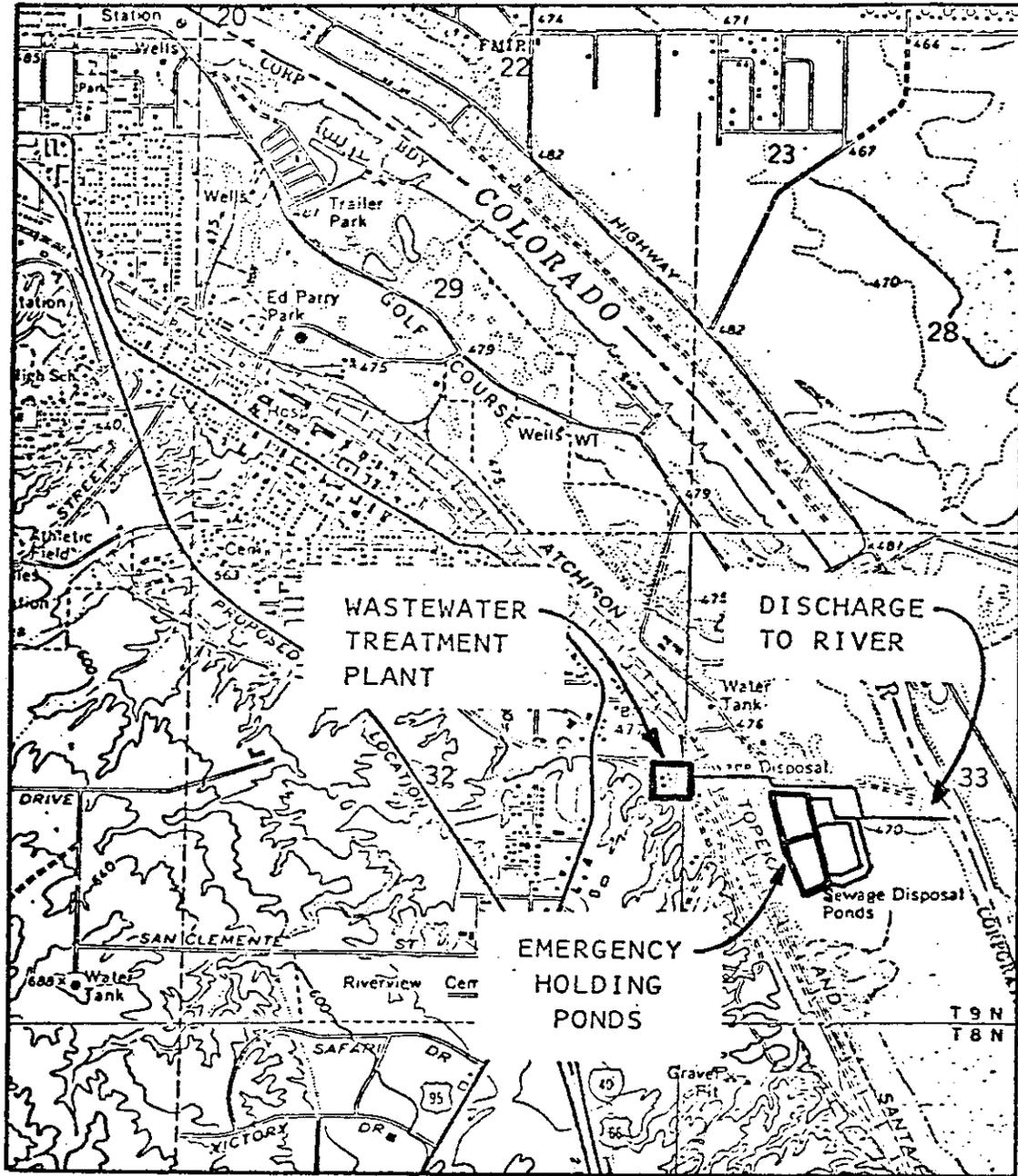
ORDERED BY:


Executive Officer

SEP 22 1988

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



SITE MAP

CITY OF NEEDLES
San Bernardino County

Discharge Location: Near the center of Section 33, T9N, R23E, SBB&M
USGS Needles 7.5 min. Topographic Map

Order No. 88-110

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

**STANDARD PROVISIONS
FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
December 23, 1985**

1. The permittee must comply with all of the terms, requirements and conditions of this permit. Any violation of this permit constitutes violation of the Clean Water Act, its regulations and the California Water Code, and is grounds for enforcement action, permit termination, permit revocation and reissuance, denial of application for permit reissuance; or a combination thereof. (40 CFR 122.41 (a))*
2. The permittee shall comply with effluent standards or prohibitions established under Section 307 (a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement. (40 CFR 112.41 (a) (1))
3. The Clean Water Act (CWA) provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, or 308 of the CWA is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing these sections of the CWA is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both. (40 CFR 122.41 (a)(2))

The California Water Code provides that any person who violates a waste discharge requirement (same as permit condition), or a provision of the California Water Code is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$20 per gallon per day of violation; or some combination thereof, depending on the violation, or upon the combination of violations.*

Violation of any of the provisions of the NPDES program or of any of the provisions of this permit may subject the violator to any of the penalties described herein, or any combination thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.*

4. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. (40 CFR 122.41 (b))

*These paragraphs are added or modified pursuant to the California Water Code.

5. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit (40 CFR 122.41 (c))
6. The permittee shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41 (d))
7. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities, or similar systems that are installed by a permittee, only when necessary to achieve compliance with the conditions of this permit. (40 CFR 122.41 (e))
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. (40 CFR 122.41 (f))
9. This permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41 (g))
10. The permittee shall furnish, within a reasonable time, any information the Regional Board or EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit. The permittee shall also furnish to the Regional Board, upon request, copies of records required to be kept by this permit. (40 CFR 122.41 (h))
11. The Regional Board, EPA, and other authorized representatives shall be allowed:
 - a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of the permit;
 - b. Access to copy any records that are kept under the conditions of this permit;
 - c. To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. To photograph, sample, and monitor for the purpose of assuring compliance with this permit, or as otherwise authorized by the Clean Water Act. (40 CFR 122.41 (i))
12. Monitoring and records
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. The permittee shall retain records of all monitoring information, including all calibration and maintenance monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application

for this permit, for a period of at least three years from the date of the sample, measurement, report, or application. This period may be extended by request of the Regional Board or EPA at any time.

c. Records of monitoring information shall include:

- (i) The date, exact place, and time of sampling or measurements;
- (ii) The individual(s) who performed the sampling or measurements;
- (iii) The date(s) analyses were performed;
- (iv) The individual(s) who perform the analyses;
- (v) The analytical techniques or methods used; and
- (vi) The results of such analyses.

d. Monitoring must be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specified in this permit.

e. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both. (40 CFR 122.41 (j))

13. All applications, reports, or information submitted to the Regional Board shall be signed and certified in accordance with 40 CFR 122.22 (40 CFR 122.41 (k) (l))

14. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both (40 CFR 122.41 (k)(2))

15. Reporting requirements

a. The permittee shall give advance notice to the Regional Board as soon as possible of any planned physical alterations or additions to the permitted facility.

b. The permittee shall give advance notice to the Regional Board of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

c. This permit is not transferable to any person except after notice to the Regional Board. The Regional Board may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

d. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

- (i) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
 - (ii) If the permittee monitors any pollutant more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - (iii) Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- e. Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any compliance schedule of this permit, shall be submitted no later than 14 days following each schedule date.
- f. Twenty-four hour reporting.
- (i) The permittee shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - (ii) The following shall be included as information that must be reported within 24 hours under this paragraph:
 - (a) Any unanticipated bypass that exceeds any effluent limitation in the permit.
 - (b) Any upset that exceeds any effluent limitation in the permit.
 - (c) Violation of a maximum daily discharge limitation for any of the pollutants listed in this permit to be reported within 24 hours.
 - (iii) The Regional Board may waive the above-required written report on a case-by-case basis.
- g. The permittee shall report all instances of noncompliance not otherwise reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain all information listed in paragraph 15(f) above. (40 CFR 122.41 (1))
16. Bypass (the intentional diversion of waste streams from any portion of a treatment facility) is prohibited. The Regional Board may take enforcement action against the discharger for bypass unless:
- a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage. (Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production).
 - b. There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated waste, or maintenance during

normal periods of equipment down time. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass that could occur during normal periods of equipment downtime or preventive maintenance; and

- c. The permittee submitted a notice at least ten days in advance of the need for a bypass to the appropriate Regional Board.

The permittee may allow a bypass to occur that does not cause effluent limitations to be exceeded, but only if it is for essential maintenance to assure efficient operation. In such a case, the above bypass conditions are not applicable.

The permittee shall submit notice of an unanticipated bypass as required in paragraph 15 (f) above. (40 CFR 122.41 (m))

17. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper action. A permittee that wishes to establish the affirmative defense of an upset in an action brought for noncompliance shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An upset occurred and that the permittee can identify the cause(s) of the upset;
- b. The permitted facility was being properly operated at the time of the upset;
- c. The permittee submitted notice of the upset as required in paragraph 15 (f) above; and
- d. The permittee complied with any remedial measures required under paragraph 5.

No determination made before an action for noncompliance, such as during administrative review of claims that noncompliance, was caused by an upset, is final administrative action subject to judicial review.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof. (40 CFR 122.41 (n))

18. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Regional Board as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur that would result in the discharge of any toxic pollutant that is not limited in this permit, if that discharge will exceed the highest of the following "notification levels:"

- (i) One hundred microgram per liter (100 ug/l);
- (ii) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
- (iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

(iv) The level established by the Regional Board in accordance with (40 CFR 122.44 (f))

b. That they have begun or expect to begin to use or manufacture as an intermediate or final product of byproduct any toxic pollutant that was not reported in the permit application. (40 CFR 122.42 (a))

19. All POTW's must provide adequate notice to the Regional Board of:

a. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to Sections 301 or 306 of the Clean Water Act, if it were directly discharging those pollutants.

b. Any substantial change in the volume or character of pollutants being introduced into the POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW. (40 CFR 122.42 (b))

END

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

**FACT SHEET
APPLICATION FOR WASTE DISCHARGE REQUIREMENTS
TO DISCHARGE TO STATE WATERS**

PUBLIC NOTICE NO. 7-88-9
APPLICATION NPDES NO. CA 0104205
ORDER NO. 88-110

The City of Needles, P.O. Box 887, Needles, California 92363, has applied to the California Regional Water Quality Control Board, Colorado River Basin Region, for updated waste discharge requirements for a discharge of pollutants into State Waters.

The applicant is a city with a 1988 population of about 7,000. Treatment facilities consist of primary sedimentation, biofiltration, secondary sedimentation, and chlorination. Chlorinated effluent is discharged to Colorado River. Sludge solids are processed through primary and secondary anaerobic digesters. The treated sludge is disposed to landfill and used as a soil conditioner. A 10-acre pond is held for emergency storage use. There are no industrial waste discharges into the City's sewage collection system.

On the basis of preliminary staff review and application of lawful standards and regulations, the Regional Board proposes to adopt updated waste discharge requirements for the discharge. The proposed determinations are described more fully below.

DESCRIPTION OF DISCHARGE

Flow

The wastewater, consisting of treated sewage, is discharged to Colorado River.

Present peak month average daily flow: 0.50 MGD
Present peak week average daily flow: 0.69 MGD
Plant design average daily flow: 1.8 MGD

BENEFICIAL USES OF COLORADO RIVER WATER

The beneficial uses of Colorado River water are:

- a. Municipal supply
- b. Agricultural supply
- c. Industrial supply
- d. Domestic supply
- e. Recreation - water contact and non-water contact
- f. Freshwater habitat
- g. Replenishment of fresh surface waters
- h. Hydroelectric power generation
- i. Wildlife habitat
- j. Ground water recharge

PROPOSED DETERMINATIONS

The Regional Board has examined the above application. On the basis of applicable effluent limitations and water quality standards, Division 7 of the California Water Code, and regulations issued thereunder as contained in Title 23, California Code of Regulations, the Regional Board proposed to issue to the applicant updated waste discharge requirements containing effluent limitations and certain other conditions. The following is a brief description of the proposed effluent limitations and special conditions:

A. Proposed Effluent Limitations

1. Representative samples of wastewater discharged to Colorado River shall not contain constituents in excess of the following limits:

<u>Constituents</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate</u>	<u>7-Day Arithmetic Mean Discharge Rate</u>
20° BOD ₅	lbs/day mg/l	450 30	675 45
Suspended Solids	lbs/day mg/l	450 30	675 45
Settleable Matter	ml/l	0.3	0.5

2. The arithmetic mean of the values for effluent samples collected for 20° BOD₅ and for suspended solids in any 30-day period shall not be greater than 15 percent of the arithmetic mean of the values for influent samples collected during the same 30-day period (85 percent removal).
3. The peak month average daily flow shall not exceed 1.8 mgd.
4. The effluent values for pH shall remain within the limits of 6.0 to 9.0.
5. The daily maximum total residual chlorine shall not exceed 0.02 mg/l.
6. The discharged wastewater shall be adequately disinfected. Said wastewater shall be considered to be adequately disinfected if at some point in the treatment process the Median Most Probable Number of Coliform Organisms, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed, does not exceed the limit prescribed below for the described discharge condition:
 - a. Effluent piped into the main part of the channel - coliform organisms not to exceed 23 per one hundred (100) milliliters; or
 - b. Where recreationists can come into direct contact with effluent before full mixing is accomplished, wastewater shall be at all times adequately disinfected, oxidized, coagulated, clarified and filtered. The wastewater shall be considered adequately disinfected if at some location in the treatment process the median number of coliform organism does not exceed

2.2 per 100 milliliters, and the number of coliform organisms does not exceed 23 per 100 milliliters in more than one sample within any 30-day period. Final turbidity, as determined by an approved laboratory method, shall not exceed an average operating turbidity of 2 turbidity units and shall not exceed 5 turbidity units more than 5 percent of the time during a 24-hour period.

Samples for determining coliforms in 6.a. and 6.b. (above) shall be taken at least daily and at a time when wastewater flow and characteristics are most demanding on the treatment facilities and disinfection procedures.

7. The temperature of the City of Needles wastewater discharged to Colorado River shall not exceed the temperature of the receiving waters by more than 20°F at any time.
8. The incremental increase of Total Dissolved Solids concentration in the discharged wastewater, shall not exceed 400 mg/l above the flow weighted average of that concentration contained in the water supply of the City of Needles.

B. Proposed Receiving Water Limitations

1. Wastewater discharged to Colorado River shall not:
 - a. Depress the dissolved oxygen content of the receiving water below 5.0 mg/l.
 - b. Cause presence of oil, grease, scum, sludge, or solids.
 - c. Contain heavy metals or associated chemicals or pesticides in concentrations toxic to fish and other aquatic life.
 - d. Cause a detectable temperature increase in the receiving water at any point outside of the initial thirty foot dilution zone.

APPLICABLE EFFLUENT LIMITATIONS AND WATER QUALITY STANDARDS

The following are the effluent limitations and water quality standards which were applied to the applicant's discharge in the formulation of the above proposed determinations:

1. Limitations of Total Dissolved Solids are in accordance with the Colorado River Basin Salinity Control Forum's, "Policy for Implementation of the Colorado River Salinity Standards Through the NPDES Permit Program", dated February 28, 1977.
2. Limitation of Settleable Matter to prevent formations of sludge deposits at point of discharge.
3. Limitations on Suspended Solids and BOD consistent with good treatment facilities operating satisfactorily and EPA secondary treatment requirements.
4. pH determination based on EPA secondary treatment requirements.
5. Temperature limitations based on State Water Resources Control Board's "Water Quality Control Plan for Control of Temperature in the Coastal and

Interstate Waters and Enclosed Bays and Estuaries of California", and exceptions thereto.

6. Coliform limitation based upon recommendation of California Department of Health Services, Water Sanitation Section.

WRITTEN COMMENTS

Interested persons are invited to submit written comments on the proposed discharge and the Executive Officer's proposed determinations. Comments should be submitted by September 16, 1988, either in person or by mail to:

Executive Officer
California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

The application number should appear next to the above address on the envelope and on the first page of any submitted comments. All comments received by the above date will be considered in the formulation of final determinations.

INFORMATION AND COPYING

Persons wishing further information may write to the above address or call the Regional Board at (619) 346-7491. Copies of the application, proposed waste discharge requirements and other documents (other than those which the Executive Officer maintains as confidential) are available at the Regional Board office for inspection and copying.

REGISTER OF INTERESTED PERSONS

Any person interested in a particular application or group of applications may leave his name and address and phone number as part of the file for application. This list of names will be maintained as a means for persons with an interest in an application to contact others with similar interests.

PUBLIC HEARING

If submitted comments indicate a significant public interest in the application or if the Executive Officer believes useful information may be produced thereby, the Regional Board at its discretion, may hold a public hearing on the application. Any person may request the Regional Board to hold a public hearing on the application.

Public notice of a hearing will be circulated at least 30 days in advance of the hearing which will be held in the vicinity of the discharge. Thereafter, the Executive Officer will formulate his final determinations within 60 days. Further information regarding the conduct and nature of public hearings concerning the discharge permits may be obtained by writing or visiting the Regional Board office.

END