

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 76-17

WASTE DISCHARGE REQUIREMENTS
FOR
BIG BEAR AREA REGIONAL WASTEWATER AGENCY
EXPORT OF RECLAIMED WASTEWATER TO LUCERNE VALLEY
San Bernardino County

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

1. Big Bear Area Regional Wastewater Agency (hereinafter also referred to as the discharger), P. O. Box 517, Big Bear City, California 92314, submitted a report of waste discharge dated January 7, 1976.
2. The discharger proposes to discharge a present average daily flow of 1.0 MGD and a design peak month average daily flow of 3.2 MGD of reclaimed wastewater in Lucerne Valley. Said wastewater would be beneficially reused as follows:
 - a. Reclaimed wastewater would be used for irrigation of fodder, fiber and seed crops; for irrigation of pastures; and for irrigation of food crops which must undergo extensive commercial physical or commercial chemical processing sufficient to destroy pathogenic agents before being suitable for human consumption. The location of irrigation will be in Section 14, T4N, R1E, SBB&M.
 - b. Reclaimed wastewater not being used for irrigation would be temporarily discharged into unlined holding basins at the above location.
3. The discharger may discharge digested sewage sludge to the farming area.
4. The Water Quality Control Plan for the West Colorado River Basin was adopted by the Board on April 10, 1975, and this Order implements the objectives stated in the Plan.
5. The beneficial uses of the groundwaters in the Lucerne Hydrologic Unit are:
 - a. Municipal supply
 - b. Agricultural supply
 - c. Industrial supply
 - d. Domestic supply
 - e. Water supply and habitat for wildlife.

Superseded by
83-65
7/13/83

6. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
7. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, Big Bear Regional Wastewater Agency shall comply with the following:

A. Discharge Specifications

1. Neither the treatment nor the discharge of wastes shall cause a pollution or a nuisance.
2. Reclaimed wastewater shall meet the requirements of Wastewater Reclamation Criteria, Title 22, Division 4, California Administrative Code. Reclaimed wastewater used for irrigation shall be limited to fiber, fodder, and seed crops; pasture for non-milking animals; and for food crops which the State Department of Health considers as receiving sufficient commercial physical or commercial chemical processing to destroy pathogenic agents prior to human consumption.
3. Wastewater used for irrigation or discharged to infiltration basins shall be confined to lands owned or controlled by the discharger.
4. Adequate protective works shall be provided to assure that flood or surface drainage waters do not erode or otherwise render any portion of the discharge facilities inoperable.
5. The discharge shall not approach closer than 500 feet to any water well, unless approved by the San Bernardino County Department of Environmental Health Services except that monitoring wells may be located within the site.
6. Wastewater holding basins shall have a freeboard depth of not less than two feet.
7. Sludge discharged in accordance with Finding 3 (above) shall not exceed that produced by the Big Bear Regional Treatment Facility.

7. Representative samples of wastewater used for irrigation or discharged to infiltration basins shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Average*</u>	<u>Maximum**</u>
Total Dissolved Solids	mg/l	500	565
Chloride (cl)	mg/l	60	80
Sulfate (SO ₄)	mg/l	60	80
Fluoride (F)	mg/l	0.8	1.0
Boron (B)	mg/l	0.3	0.5
20°C BOD ₅	mg/l	30	50
Suspended Solids	mg/l	30	50
Settleable Matter	ml/l	0.5	1.0

8. The peak month average daily flow of discharged wastewater shall not exceed 3.2 MGD.

B. Provisions:

1. Prior to the first usage of reclaimed wastewater for crop irrigation, the discharger shall submit to the Regional Board a certificate signed by a California Registered Civil Engineer stating that the wastewater reclamation facilities are constructed to meet the requirements contained in this Order.
2. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code, and who are otherwise capable of adequately maintaining and operating the wastewater treatment and disposal facilities.

*Averages will be calculated from the last six analyses taken.
 **Maximum on any one test.

3. Prior to any substantial changes in quality of the wastewater being discharged to this facility, or modification of treatment methods which would result in material change in the quality or quantity of wastewater discharged, or any material change in the location of the discharge, the discharger shall report thereon to this Board.
4. At least 30 days prior to the anticipated initial planting of a food crop, the discharger shall submit a list of those food crop(s) which are to be planted; and, via the Regional Board, shall obtain State Department of Health clearance for each individual type of food crop in advance of said initial planting. Thereafter, any additions to the list of allowable food crop plantings shall be made in accordance with the procedure outlined in this provision.
5. The discharger shall comply with "Monitoring and Reporting Program No. 76-17" and "General Provisions for Monitoring and Reporting", and future revisions thereto, as specified by the Executive Officer.

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 June 10, 1976.

Arthur Swajian

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 76-17
 FOR
 BIG BEAR AREA REGIONAL WASTEWATER AGENCY
 EXPORT OF RECLAIMED WASTEWATER TO LUCERNE VALLEY
 San Bernardino County

Location of Discharge: Section 14, T4N, R1E, SBB&M

RECLAIMED WASTEWATER MONITORING

- A. Representative samples of the reclaimed wastewater shall be taken at the location of beneficial reuse or at the treatment facilities. Said samples shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
1. Calcium (Ca)	mg/l	24 Hr. Composite	Quarterly
2. Magnesium (Mg)	mg/l	"	"
3. Sodium (Na)	mg/l	"	"
4. Potassium (K)	mg/l	"	"
5. Carbonate (CO ₃)	mg/l	"	"
6. Bicarbonate (HCO ₃)	mg/l	"	"
7. Total Phosphate (PO ₄)	mg/l	"	"
8. Nitrate (NO ₃)	mg/l	"	"
9. Ammonia (N)	mg/l	"	"
10. Sulfate (SO ₄)	mg/l	"	Monthly
11. Chloride (Cl)	mg/l	"	"
12. Boron (B)	mg/l	"	"
13. Fluoride (F)	mg/l	"	"
14. Total Dissolved Solids	mg/l	"	"
15. Suspended Solids	mg/l	"	Weekly

	<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
16.	20°C BOD ₅	mg/l	24 Hr. Composite	Weekly
17.	Settleable Matter	ml/l	Grab	Daily
18.	Quantity of Discharge	MGD	----	Daily
19.	Electrical Conductivity ECx10 ⁶ at 25°C	Micromhos per cm.	Grab	Daily

B. Samples of groundwater taken from a monitoring well at a location and depth approved by the Regional Board shall be monitored semi-annually for above constituents No. 1 through 14 (excepting Constituents No. 7 and 9.) Also, depth to groundwater shall be monitored semi-annually.

SLUDGE MONITORING

The volume of sewage sludge discharged to farm land shall be reported monthly.

REPORTING

Monitoring reports shall be submitted to the Regional Board as follows:

Semi-annually - January 15 and July 15 of each year.

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

Monthly, Weekly, and Daily Reports - by the 15th day of the following month.

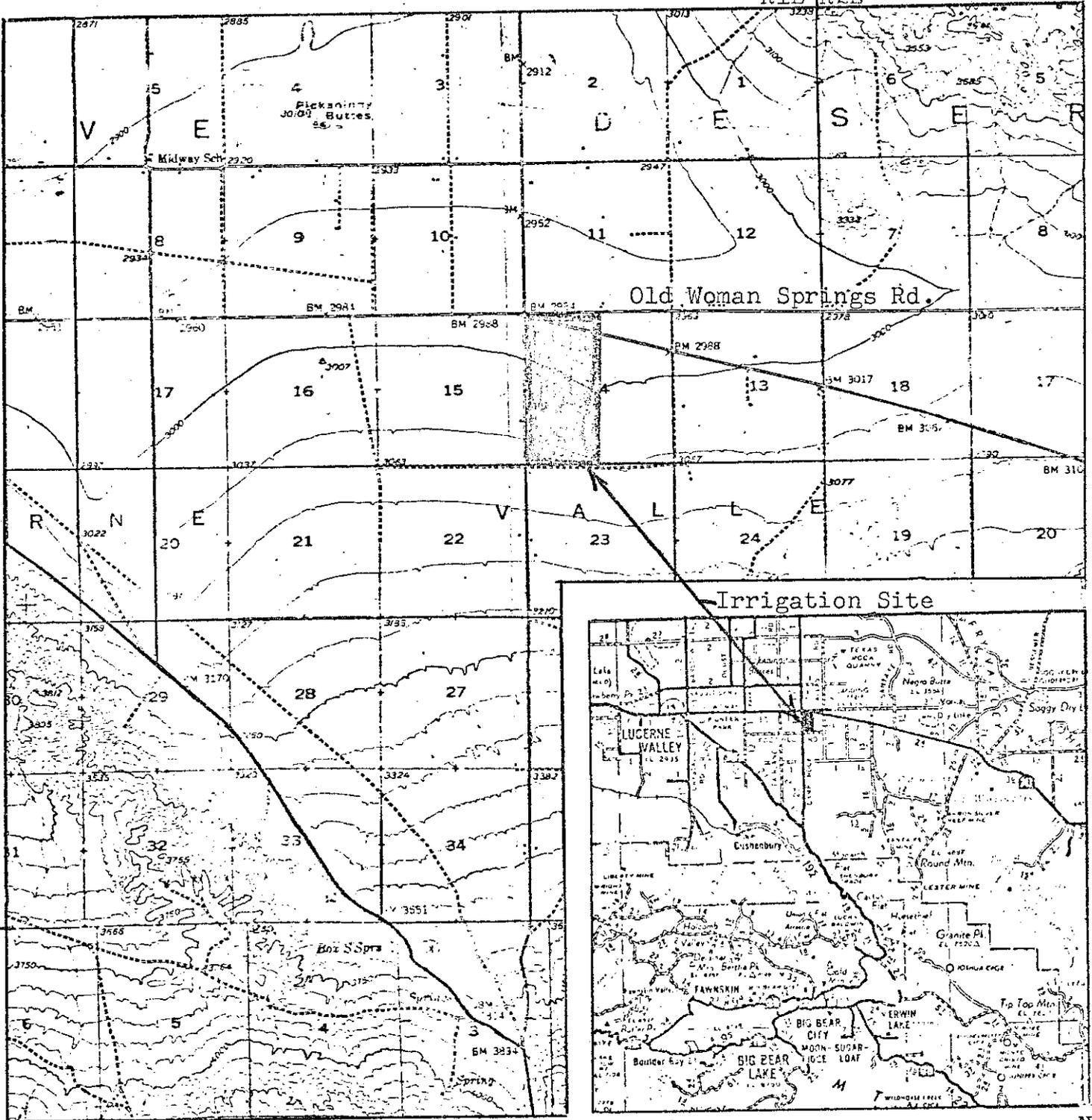
Forward monitoring reports to:

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

ORDERED BY Arthur Sevajiam
Executive Officer
June 10, 1976
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION

R1E R2E



Scale: 1" = 1 Mile

Scale 1" = 6.5 Miles

BIG BEAR REGIONAL WASTEWATER AGENCY
 Location of Proposed Waste Discharge
 Lucerne Valley - San Bernardino County
 Section 14, T4N, R1E, SBB&M
 Lucerne Valley 15' Topographic Map

Order No. 76-17

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

GENERAL MONITORING AND REPORTING PROVISIONS

GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

Unless otherwise noted, all sampling, sample preservation, and analyses shall be conducted in accordance with the current edition of "Standard Methods for the Examination of Water and Waste Water" or approved by the Executive Officer.

All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Public Health or a laboratory approved by the Executive Officer.

All samples shall be representative of the waste discharge under the conditions of peak load.

GENERAL PROVISIONS FOR REPORTING

For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

By January 30 of each year, the discharger shall submit an annual report to the regional board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.

The discharger shall file a written report within 90 days after the average dry-weather flow for any month that equals or exceeds 75% of the design capacity of the waste treatment or disposal facilities. The report shall contain a schedule for studies, design, and other steps needed to provide additional capacity or limit the flow below the design capacity prior to the time when the waste flow rate equals the capacity of the present units.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

Transmittal of
REQUIREMENTS AND RECOMMENDATIONS OF OTHER GOVERNMENTAL AGENCIES

The State of California, Department of Public Health, requires that the sewage storage and disposal facilities be constructed and operated in conformance with the following regulations:

1. The public shall be effectively excluded from the wastewater disposal area.
2. The breeding of flies, mosquitoes, or other vectors of public health significance must be controlled, insofar as it is supported by the operation of the waste treatment and disposal facilities.
3. Irrigation outlets in areas where the public has access shall be controlled by means available only to the operator.
4. There shall be no interconnection between any domestic water system and waste spray irrigation systems.
5. Precautions must be taken to avoid direct public contact with the reclaimed wastewaters.

Date: June 10, 1976