

California Regional Water Quality Control Board  
Santa Ana Region

September 1, 1995

ITEM: 10

SUBJECT: Waste Discharge Requirements for San Bernardino County  
Special Districts' Lytle Creek Wastewater Treatment Plant,  
Lytle Creek, San Bernardino County, Order No. 95-32.

DISCUSSION:

San Bernardino County Special Districts (hereinafter discharger) owns and operates the Lytle Creek Wastewater Treatment Plant at 30 Lytle Creek Road, Lytle Creek, San Bernardino County. The facility is located in Section 23, T2N, R6W, SBB&M. The location of the plant is shown on the attached map (Attachment "A").

The discharges from the facility are currently regulated under Order No. 81-228. The current waste discharge requirements need to be updated to reflect changes in state laws, regulations, plans, and policies. The design capacity of the plant continues to be 160,000 gallons per day (GPD) and the current average flow is 100,000 GPD of domestic wastewater.

The treatment plant consists of an oxidation ditch with mechanical mixing of the activated sludge, a secondary clarifier, two sludge drying beds, and two percolation ponds. Dry sludge is hauled away to a sanitary landfill. A piping and valving schematic is shown on Attachment "B".

The discharge limitations of the proposed order are based on the Water Quality Control Plan (Basin Plan) objectives for the Santa Ana Region and best professional judgement.

The disposal area is tributary to the Bunker Hill I Groundwater Subbasin, the beneficial uses of which include municipal and domestic supply, agricultural supply, industrial service supply, and industrial process supply.

Discharge limitations are included for biochemical oxygen demand, suspended solids, total dissolved solids, total hardness, boron, chloride, fluoride, sodium, and sulfate. These requirements are intended to meet the water quality objectives established to protect groundwater and to ensure that the discharge will not create conditions of pollution or nuisance.

RECOMMENDATION:

Adopt Order No.95-32 as presented.

COMMENTS SOLICITATION:

Comments were solicited from the discharger and from the following agencies:

State Water Resources Control Board, Office of the Chief Counsel

- Ted Cobb

State Water Resources Control Board, Division of Water Quality

- John Youngerman

State Department of Water Resources - Glendale

State Department of Health Services - San Diego

San Bernardino County Department of Environmental Health Services

- Pamela Bennett

San Bernardino County Transportation/Flood Control Department

- Naresh Varma

California Regional Water Quality Control Board  
Santa Ana Region

ORDER NO. 95-32

Waste Discharge Requirements  
for  
County of San Bernardino  
Department of Special Districts  
Lytle Creek Wastewater Treatment Plant  
Lytle Creek, San Bernardino County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. On December 11, 1981, the Regional Board adopted Order No. 81-228 for the discharge of treated wastewater from the County of San Bernardino Department of Special Districts' (hereinafter discharger) Lytle Creek Wastewater Treatment Plant located at 30 Lytle Creek Road, Lytle Creek, San Bernardino County.
2. The current waste discharge requirements need to be updated to reflect changes in state laws, regulations, plans, and policies.
3. The current daily average discharge of secondary treated sewage effluent to the evaporation/percolation ponds is 100,000 gallons. The design capacity of the treatment facility remains at 160,000 gallons per day.
4. The treatment plant consists of an oxidation ditch with mechanical mixing of the activated sludge, a secondary clarifier, two sludge drying beds, and two percolation ponds. Dry sludge is hauled away to sanitary landfill.
5. The 1995 Water Quality Control Plan (Basin Plan) became effective on January 24, 1995. The Basin Plan contains beneficial uses and water quality objectives for waters in the Santa Ana Region.
6. The disposal area is tributary to the Bunker Hill I Groundwater Subbasin, the beneficial uses of which include:
  - a. Municipal and domestic supply,
  - b. Industrial service supply,
  - c. Industrial process supply, and
  - d. Agricultural supply.
7. The requirements contained in this order are necessary to implement the Basin Plan.

8. It is necessary and appropriate to require control of and limit the concentrations of individual mineral/inorganic constituents that may be discharged from the treatment plant.
9. The limits contained in this order are those that the discharger may be expected to achieve using reasonable methods.
10. The project involves the continued operations of an existing facility and as such, is exempt from the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.), in accordance with Section 15301, Chapter 3, Title 14, California Code of Regulations.
11. The Regional Board has notified the discharger and other interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written views and recommendations.
12. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED** that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder shall comply with the following:

**A. Discharge Prohibitions:**

1. The discharge of wastes to property not owned or controlled by the discharger is prohibited.
2. The discharge of highly mineralized wastes to the ground is prohibited.
3. Odors, vectors, and other nuisances of sewage origin are prohibited outside of the treatment plant site or ponds.
4. The discharge of any substances in concentrations toxic to human, animal, plant or aquatic life is prohibited.
5. The discharge to any pond that has less than eighteen inches (18") of freeboard is prohibited.

**B. Discharge Specifications:**

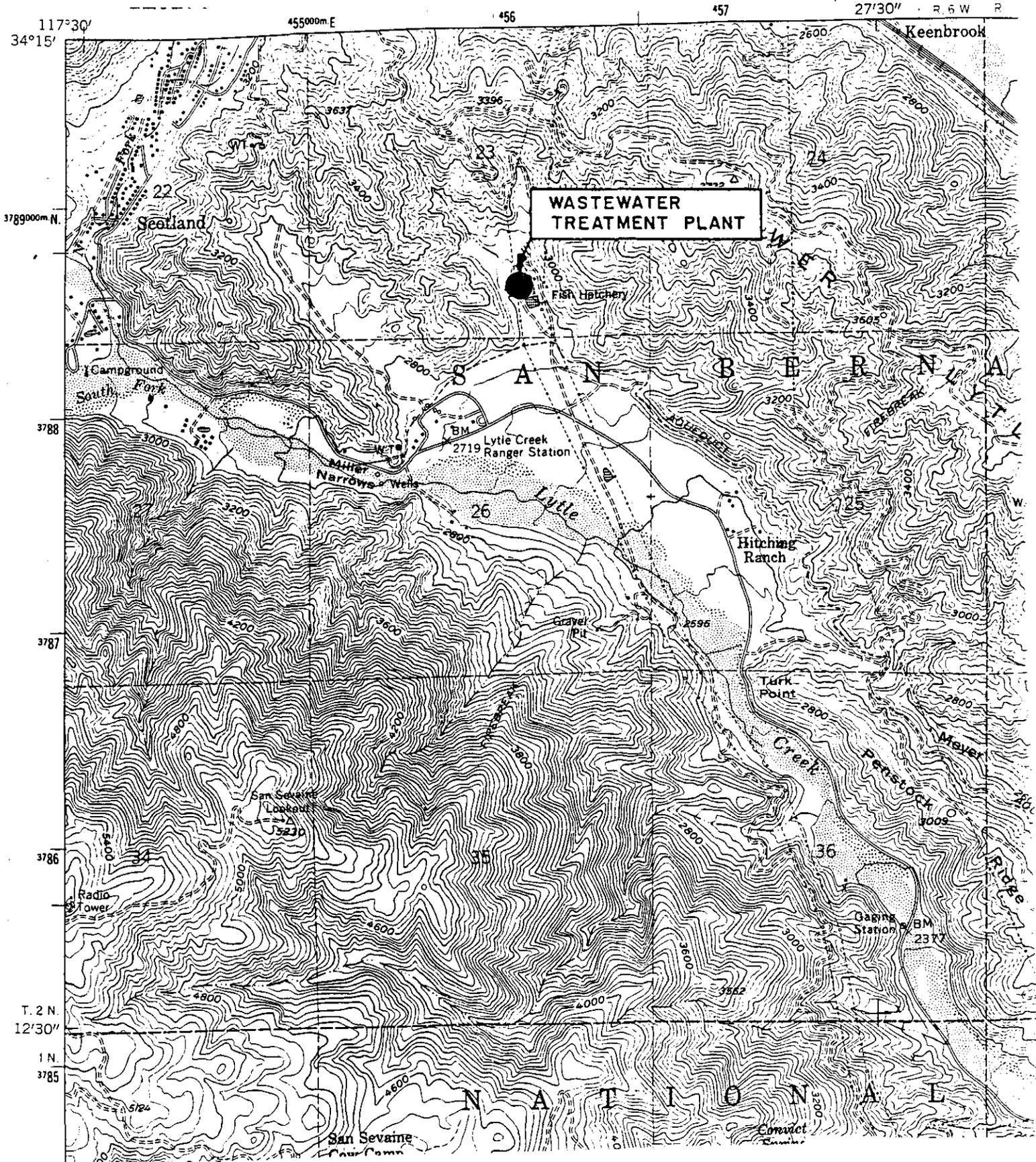
1. The discharge of wastes containing constituent concentrations in excess of the following limits is prohibited:

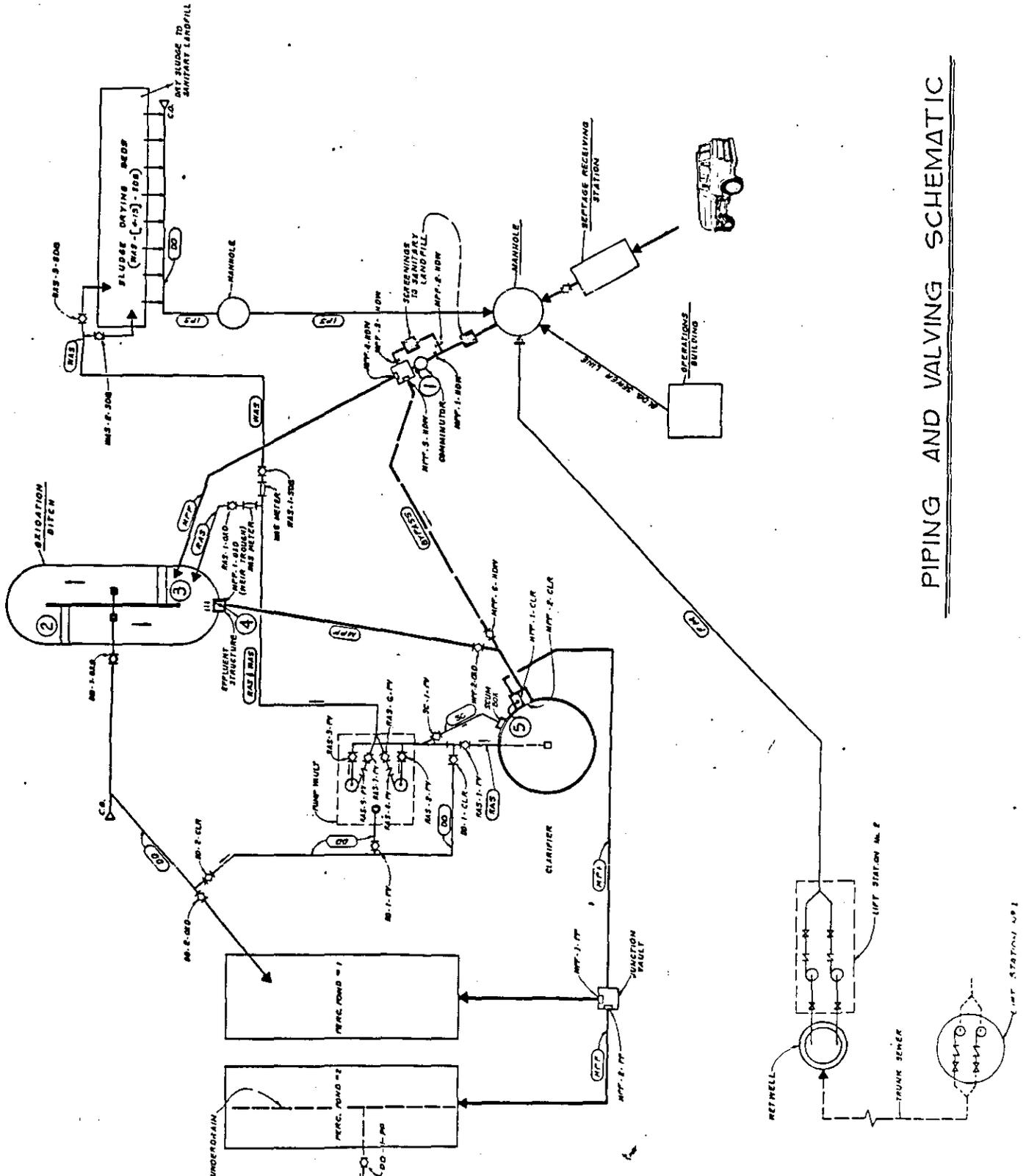
Constituent	Unit	30-Day Average
Biochemical Oxygen Demand	mg/l	30
Suspended Solids	"	30

2. The discharge of wastes containing total dissolved solids in excess of 490 mg/l on a 12-month average basis is prohibited:
3. The pH of the discharge shall at all times be within the range of 6.5 and 8.5 pH units.

**C. Provisions:**

1. The discharger shall comply with Monitoring and Reporting Program No. 95-32.
2. Neither the treatment nor the discharge of wastes shall cause or threaten to cause a nuisance or pollution as defined in Section 13050 of the California Water Code.
3. The treatment and disposal facilities shall be protected from a 100-year frequency flood.
4. The discharger shall file with the Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge or in the operator or property ownership of any portions of the facility identified in this order.
5. The discharger shall maintain a copy of this order at the site so that it is available to site operating personnel at all times.
6. Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Executive Officer.





PIPING AND VALVING SCHEMATIC

**C. Provisions:** (continued)

7. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with the conditions of this order.

Proper operation and maintenance also includes adequate laboratory controls, appropriate quality assurance procedures, effective performance, adequate funding, adequate staffing and training and adequate process controls. This provision requires the operation of back up or auxiliary facilities or similar systems which are installed by a discharger only when the operation is necessary to achieve compliance with the conditions of the order.

8. 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 Code of Regulations.
9. Whenever the discharger monitors any pollutant more frequently than is required by this order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.
10. Compliance determinations shall be based on available analyses for the time interval associated with the effluent limitation. Where only one sample analysis is available in a specified time interval (e.g., 30-day average), that sample shall serve to characterize the discharge for the entire interval.
11. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under federal, state, or local laws.
12. This order does not convey any property rights of any sort, or any exclusive privilege.
13. The Regional Board, 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 this order;

**C. Provisions:** (continued)

13. (continued)

- b. Access to copy any records that are kept under the conditions of the order;
- c. To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this order; and
- d. To photograph, sample and monitor for the purpose of assuring compliance with this order.

14. The discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.

15. The discharger shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any requirement specified in this order, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

16. Order No. 81-228 is hereby rescinded.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, September 1, 1995.

  
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Gerard J. Thibeault  
Executive Officer

California Regional Water Quality Control Board  
Santa Ana Region

Monitoring and Reporting Program No. 95-32

for  
County of San Bernardino  
Department of Special Districts  
Lytle Creek Wastewater Treatment Plant  
Lytle Creek, San Bernardino County

**A. General Monitoring Provisions:**

1. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
2. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
3. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.
4. All analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services or at a laboratory approved by the Executive Officer of the Regional Board.

**B. Effluent Monitoring:**

1. Sampling stations shall be established at the point(s) of discharge and shall be located where representative samples of the effluent can be obtained. The date and time of sampling (as appropriate) shall be reported with the analytical values determined.

**B. Effluent Monitoring:** (continued)

2. The following shall constitute the effluent monitoring program:

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Flow	gpd	Recorder/Totalizer	Continuous
BOD	mg/l	Composite	Weekly
pH	pH units	"	"
Suspended Solids	mg/l	"	"
Total Dissolved Solids	"	"	Bi-Monthly
Electrical Conductivity	micromhos/cm	"	"
Total Hardness	mg/l	"	Annually
Chloride	"	"	"
Sodium	"	"	"
Sulfate	"	"	"
Fluoride	"	"	"
Boron	"	"	"

3. Weekly samples shall be collected on representative days of the week.
4. Bi-Monthly samples shall be collected on the seventh (7th) working day of January, March, May, July, September, and November.
5. Annual samples shall be collected in August.
6. Grab effluent samples shall be collected at peak flow.
7. On Friday of each week, the freeboard in each pond shall be measured and recorded in a permanent log. A copy of the log for the two preceding months shall be submitted with the bi-monthly sampling data.

**C. Reporting:**

1. Monitoring reports shall be submitted within 15 (fifteen) days of sampling as specified above.
2. 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 the requirements at the earliest time and submit a timetable for correction.

**C. Reporting:** (continued)

3. All reports shall be signed by a responsible officer of the County of San Bernardino, Department of Special Districts and shall be submitted under penalty of perjury.

  
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Gerard J. Thibeault  
Executive Officer

September 1, 1995