

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. 2000-203  
FOR THE  
CITY OF SAN DIEGO  
SOUTH BAY WATER RECLAMATION PLANT  
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Order and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Regional Board.
2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than  $\pm 10$  percent from true discharge rates throughout the range of expected discharge volumes.
3. Monitoring must be conducted according to United States Environmental Protection Agency test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this Order.
4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Regional Board.
5. Monitoring results must be reported on discharge monitoring report forms approved by the Regional Board.
6. If the discharger monitors any pollutants more frequently than required by this Order, using test procedures approved under 40 CFR, Part 136, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.
7. 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 Order, and records of all data used to complete the application for this Order. Records shall

be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board.

8. 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 method used; and
  - (f) The results of such analyses.
9. All monitoring instruments and devices which are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
10. The discharger shall report all instances of noncompliance not reported under Standard Provisions E.5 of this Order at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provisions E.5.
11. The monitoring reports shall be signed by an authorized person as required by Reporting and Record Keeping Requirement F.8.
12. A composite sample is defined as a combination of at least eight sample aliquot of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquot must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquot may be collected manually or automatically.
13. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.
14. Sampling and analysis shall, as a minimum, be conducted in accordance with Article

6 of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**)

**B. EFFLUENT MONITORING**

1. SBWRP effluent shall be monitored at or near the effluent pump station, just prior to the distribution system.
2. The discharger is responsible for monitoring and reporting in accordance with the following schedule:

<b>MONITORING PROGRAM</b>				
Constituent	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Flowrate	MGD	Continuous	Continuous	Monthly
Biochemical Oxygen Demand (BOD <sub>5</sub> @ 20° C)	mg/l	Composite	Daily	Monthly
Total Suspended Solids	mg/l	Composite	Daily	Monthly
Volatile Suspended Solids	mg/l	Composite	Daily	Monthly
pH	Unit	Grab	Daily	Monthly
Total Dissolved Solids	mg/l	Composite	Monthly	Monthly
Chloride	mg/l	Composite	Monthly	Monthly
Sulfate	mg/l	Composite	Monthly	Monthly
% Na	%	Composite	Monthly	Monthly
Nitrate as N	mg/l	Composite	Monthly	Monthly
MBAS	mg/l	Composite	Monthly	Monthly
Iron	mg/l	Composite	Monthly	Monthly
Manganese	mg/l	Composite	Monthly	Monthly
Boron	mg/l	Composite	Monthly	Monthly
Fluoride	mg/l	Composite	Monthly	Monthly
Coliform	MPN/100ml	Grab	*	Monthly
Turbidity	NTU	Continuous	**	Monthly
Four-hour results ←				
Daily average				

Daily 95 <sup>th</sup> percentile				
UV Dose***	mW.s/cm <sup>2</sup>	Continuous	Continuous	Monthly
UV Intensity	mW/cm <sup>2</sup>			
Exposure/Residence Time	Second			
Fluid Transmittance	%	Continuous	Continuous	Monthly
Liquid Level in UV Channel	feet	Continuous	Continuous	Monthly
Lamp Age	Hour	Continuous	Continuous	Monthly

Notes: MGD = Million gallons per day  
 Number per 100 milliliters

MPN/100ml = Most Probable

mg/l = milligrams per liter

NTU = Nephelometric Turbidity Units

mg-min/l – milligram-minutes per liter

\* Samples for total coliform bacteria shall be collected at least daily and samples shall be taken from the disinfected effluent at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection facilities

\*\* Turbidity analysis shall be continuous, performed by a continuous recording turbidity meter. Compliance with the daily average operating filter effluent turbidity shall be determined by averaging the levels of recorded turbidity taken at four-hour intervals over a 24-hour period. Compliance with turbidity pursuant to Section 60301.320(a)(2)(B) and (b)(1) shall be determined using the levels of recorded turbidity taken at intervals of no more than 1.2-hours over a 24-hour period. Should the continuous turbidity meter and recorder fail, grab sampling at a minimum frequency of 1.2 hours may be substituted for a period of up to 24-hours. The results of the daily average turbidity determinations shall be reported monthly.

\*\*\* The alarm system should be activated if the average UV dose falls below 140 mW.s/cm<sup>2</sup> for more than three minutes

The discharger shall increase the monitoring frequency whenever the monitoring data indicates a violation of the daily maximum limits listed in A.1, *Discharge Specifications* of this Order. The frequency shall increase from monthly to weekly. The weekly monitoring will continue until the discharger achieves compliance with the limitations for two consecutive weeks. After compliance is achieved, the discharger shall resume monitoring at the monthly frequency.

3. City of San Diego shall review the monitoring results for compliance with Order No. 2000-203 and submit a statement of compliance as part of Monitoring and Reporting Program No. 2000-203. The statement of compliance shall identify and report all effluent limitation violations of Discharge Specifications No. A.1 and A.3 of this

Order.

**C. SEWAGE SOLIDS AND BIOSOLIDS**

A record of the type, quantity, and manner of disposal and/or reuse of non-recycled sewage solids removed in the course of sewage treatment shall be maintained at the facility and made available to the Regional Board staff.

A biosolids certification, certifying that the use and disposal of biosolids complies with existing Federal and State laws and regulations, including permitting requirements and technical standards included in 40 CFR 503 shall be submitted annually.

**D. RECYCLED WATER USERS SUMMARY REPORT**

1. The City of San Diego shall submit a quarterly recycled water users summary report containing the following information:
  - a) Total volume of recycled water supplied to all recycled water users for each month of the reporting period.
  - b) Total number of recycled water use sites.
  - c) Address of the recycled water use site
  - d) Basin Plan name and number of hydrologic subarea underlying the recycled water use site
  
2. The City of San Diego shall submit an annual recycled water users compliance report containing the following information:
  - a) Recycled water use site information:
    - 1) Name of the recycled water use site
    - 2) Owner of the recycled water use facility
    - 3) Name of the recycled water use supervisor
    - 4) Phone number of the recycled water use supervisor
    - 5) Mailing address of the recycled water use supervisor, if different from site address
    - 6) Volume of recycled water delivered to the recycled water use site on a monthly basis.
  
  - b) Recycled water use site inspections  
  
Number of recycled water use site inspections conducted by the City of San Diego staff and identification of sites inspected for the reporting period.
  
  - c) Recycled water user violations of the City of San Diego's rules and

regulations

The City of San Diego shall identify all recycled water users known by the discharger to be in violation of the discharger's rules and regulations for recycled water users. The report shall include a description of the noncompliance and its cause, including the period of noncompliance, 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 recurrence of the noncompliance.

**D. REPORTING**

Monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

<u>Reporting Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Monthly	January, February, March, April, May, June, July, August, September, October, November, December	By the 30 <sup>th</sup> day of the following month (28 <sup>th</sup> for February)
Quarterly	January-March April-June July-September October-December	April 30 July 30 October 30 January 30
Annually	January-December	January 30

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board  
San Diego Region  
9771 Clairemont Mesa Blvd., Suite A  
San Diego, CA 92124-1324  
Attention Groundwater Unit

Ordered by

  
JOHN H. ROBERTUS  
Executive Officer

November 8, 2000