

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401-7906**

**MONITORING AND REPORTING PROGRAM  
NO. R3-2009-0037**

**(Waste Discharger Identification No. 3 421009001)**

**FOR  
CATE SCHOOL  
WASTEWATER FACILITIES,  
SANTA BARBARA COUNTY**

This Monitoring and Reporting Program (MRP) is issued by the Regional Water Quality Control Board, Central Coast Region (Water Board) pursuant to California Water Code section 13267 and is incorporated into Waste Discharge Requirements Order No. R3-2009-0037. Cate School is subject to the MRP because it discharges treated wastewater. This MRP is necessary to ensure that the discharge of treated wastewater complies with the requirements of the Waste Discharge Requirements and is protective of public health and the environment.

**A. WATER SUPPLY MONITORING**

1. Representative samples of the water supply shall be collected and analyzed for the following:

<b>Constituent</b>	<b>Units</b>	<b>Sample Type</b>	<b>Sampling Frequency</b>
Total Dissolved Solids	mg/L	Grab	Annually - July
Sodium	mg/L	Grab	Annually - July
Chloride	mg/L	Grab	Annually - July
Sulfate	mg/L	Grab	Annually - July
Boron	mg/L	Grab	Annually - July
Nitrate (as N)	mg/L	Grab	Annually - July

**B. INFLUENT MONITORING**

1. Representative samples of the treatment facility influent shall be collected and analyzed for the constituents/parameters and at the frequencies specified in the following table:

**Item No. 13 Attachment No. 2  
October 23, 2009 Meeting  
Cate School Corporation**

Constituent/Parameter <sup>a</sup>	Units	Sample Type <sup>b</sup>	Sampling Frequency <sup>c</sup>
pH	Units	Grab	Weekly
BOD <sub>5</sub>	mg/L	24-hour composite	Monthly
Settleable Solids	mg/l	24-hour composite	Monthly
Total Suspended Solids	mg/L	24-hour composite	Monthly
Total Nitrogen (as N)	mg/L	Grab	Quarterly
Nitrate (as N)	mg/l	Grab	Quarterly
Ammonia (as N)	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Boron	mg/L	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Sodium	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly

## Notes:

- a. Sampling for specific analytes may be reduced or discontinued after one year upon Discharger request and Executive Officer approval for parameters/constituents for which additional data provides no benefit.
- b. Composite samples shall be flow weighted. 24-hour composite samples shall be collected on a Monday through Sunday rotating schedule and subsequent monthly sampling events shall be separated by at least 16 days and no greater than 30 days.
- c. Quarterly monitoring shall be conducted in January, April, July, and October.

**C. EFFLUENT MONITORING**

1. Representative samples of treatment facility effluent shall be collected<sup>a</sup> and analyzed for the constituents/parameters and at the frequency specified below for each treatment facility:

Constituent/Parameter <sup>b</sup>	Units	Sample Type <sup>c</sup>	Sampling Frequency
Min Daily Flow	gal/day	Metered	Continuous
Max Daily Flow	gal/day	Metered	Continuous
Average Daily Flow	gal/day	Calculated	Daily
Turbidity	NTU	Metered	Continuous
Total Chlorine Residual <sup>d</sup>	mg/L	Metered	Continuous
Total Coliform	MPN/100 ml	Grab	Daily
BOD <sub>5</sub>	mg/L	24-hour composite <sup>c</sup>	Weekly <sup>e</sup>
Total Suspended Solids	mg/L	24-hour composite <sup>c</sup>	Weekly <sup>e</sup>
pH	Units	Grab	Weekly <sup>e</sup>
Nitrate (as N)	mg/L	Grab	Quarterly <sup>f</sup>
Nitrite (as N)	mg/l	Grab	Quarterly <sup>f</sup>
Ammonia (as N)	mg/L	Grab	Quarterly <sup>f</sup>
Total Kjeldahl Nitrogen (as N)	mg/l	Grab	Quarterly <sup>f</sup>
Total Dissolved Solids	mg/L	Grab	Quarterly <sup>f</sup>
Sodium	mg/L	Grab	Quarterly <sup>f</sup>
Chloride	mg/L	Grab	Quarterly <sup>f</sup>
Sulfate	mg/L	Grab	Quarterly <sup>f</sup>
Boron	mg/L	Grab	Quarterly <sup>f</sup>

## Notes:

- a. Sampling shall occur immediately following the final treatment process (i.e., disinfection or dechlorination as applicable) unless noted otherwise
- b. Sampling for specific analytes may be reduced or discontinued after one year upon Discharger request and Executive Officer approval for parameters/constituents for which additional data provides no benefit.
- c. Composite samples shall be flow weighted. 24-hour composite samples shall be collected on a Monday through Sunday rotating schedule and subsequent monthly sampling events shall be separated by at least 16 days and no greater than 30 days.
- d. Shall be compared to the chlorine residual required to achieve a minimum CT value of 450 milligram-minutes per liter.
- e. Weekly samples shall be collected on a Monday through Sunday rotating schedule.
- f. Quarterly monitoring shall be conducted in January, April, July, and October

**D. SOLIDS/BIOSOLIDS MONITORING**

1. The following information shall be submitted with the Annual Report required by Standard Provision C.16:
  - a. Annual biosolids removed in dry tons and percent solids.
  - b. If appropriate, a narrative description of biosolids dewatering and other treatment processes, including process parameters. For example, if drying beds are used, report depth of application and drying time. If composting is used, report the temperature achieved and duration.

- c. A description of disposal methods, including the following information as applicable related to the disposal methods used at the facility. If more than one method is used, include the percentage and tonnage of annual biosolids production disposed by each method.
  - i. For landfill disposal include: 1) the Water Board WDR numbers that regulate the landfills used, 2) the present classifications of the landfills used, and 3) the names and locations of the facilities receiving biosolids.
  - ii. For land application include: 1) the location of the site(s), 2) the Water Board's WDR numbers that regulate the site(s), 3) the application rate in lbs/acre/year (specify wet or dry), and 4) subsequent uses of the land.
  - iii. For offsite application by a licensed hauler and composter include: 1) the name, address and USEPA license number of the hauler and composter.
- d. Copies of analytical data required by other agencies (i.e., USEPA or County Health Department) and licensed disposal facilities (i.e., landfill, land application, or composting facility) for the previous year.

## **E. RECYCLED WATER USE AREA MONITORING**

1. The quantity of reclaimed water distributed to each reuse site shall be recorded on a weekly basis. Total flows shall be metered or estimated based on irrigation run times and distribution system design flow rates. Total as applied flows shall be compared to effluent flow rates.
2. During periods of recycled water application the Discharger shall inspect the irrigation use areas no less frequently than weekly to verify and document compliance with Order No R3-2009-0037. The visual inspections shall be noted in a bound inspection logbook(s) and at a minimum shall document proper sprinkler operation, runoff, erosion, saturated surface conditions, and odors. The logbook(s) shall be made available to the Water Board and California Department of Public Health staff upon request. A summary of observations made during water recycling area inspections and a brief discussion of any corrective actions taken or planned shall be included with each annual monitoring report.
3. The Discharger shall coordinate with the California Department of Public Health to ensure and document that backflow devices are present, tested annually by a certified individual, and repaired or replaced if found defective.
4. The Discharger in coordination with the California Department of Public Health shall perform and document a cross-connection test by an appropriately certified individual on an annual basis at each reuse site where both recycled water and potable water piping systems are utilized for irrigation or are otherwise present in proximity to each other.<sup>1</sup>

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<sup>1</sup> Cross-connection tests will not be required for portions of the distribution system or reuse site areas for which no distribution system or potable water system maintenance, modifications, or additions have occurred since the last cross-connection test. The Discharger shall provide a certified statement as such for portions of the distribution system or reuse sites not tested for potential cross-connection.

5. The Discharger shall keep a record of all system modifications and document that all work is conducted in accordance with the Cross Connection Control Plan and applicable regulations.
6. The Discharger shall compile and conduct quarterly reviews of the applied recycled water flows to identify unusual usage behavior or significant changes. The Discharger shall conduct and document follow-up investigations if patterns change dramatically.

## F. REPORTING

1. The Discharger shall submit **Quarterly** monitoring reports summarizing reclaimed water quality monitoring results and shall include a list of the reuse areas with the name, location and brief description of each area, and the total amount of reclaimed water supplied to each area.

Monitoring Period	Report Submittal Date
January 1 – March 31	May 1 <sup>st</sup>
April 1 – June 30	August 1 <sup>st</sup>
July 1 – September 30	November 1 <sup>st</sup>
October 1 – December 31	February 1 <sup>st</sup>

2. The Discharger shall submit annual reports by January 31<sup>st</sup> of each year summarizing reclaimed water use, including the total volume of reclaimed water supplied, and the total number of reclaimed use sites and their locations. Reports shall include records of the Discharger's reuse site inspections and results of the annual cross-connection tests. Annual monitoring reports shall contain at a minimum:
  - a. Documentation of the use area monitoring requirements listed above;
  - b. A scaled map showing the recycled water use areas;
  - c. A table summarizing monthly recycled water application rates in acre-feet and gallons for each recycled water use;
  - d. The Nutrient Management Plan report as specified in the Waste Discharge Requirements; and,
  - e. The Salt Management Program report as specified in the Waste Discharge Requirements;
3. The monitoring reports shall contain all data collected or calculated over the previous annual monitoring period. All monitoring data shall be tabulated in a logical and coherent format and be accompanied by copies of laboratory analytical data sheets as applicable. The data shall be summarized in a manner that clearly illustrates compliance with the Order. The use area map and recycled water application summary table shall be cross-referenced for easy evaluation.
4. The Discharger shall report any adverse conditions or non-compliance with Order No. R3-2009-0037 potentially endangering public health or the environment to the Water Board (805/549-3147), California Department of Public Health (805/566-1326), and any other agencies as appropriate within 24 hours of knowing of such conditions. A summary record of all adverse conditions or non-compliance along with corrective actions taken shall be included in each annual monitoring report.

Depending on the severity of the adverse condition or non-compliance being reported, a written report may also be required by the Water Board. The written report shall be required within five days of the initial informal reporting date and shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.

## **G. PROVISIONS**

1. All quarterly monitoring shall be performed any time during the monitoring quarter (calendar quarter), but samples representative of two consecutive quarterly periods must be separated by at least one month. Monthly sampling shall be conducted at regularly scheduled times during each month and consecutive events should be approximately four weeks apart and no less than two weeks apart. Unless otherwise specified by the Monitoring and Reporting Program, annual sampling shall be performed any time during the calendar year, but samples representative of two consecutive annual periods must be obtained at least six months apart.
2. All monitoring must be conducted according to test procedures established by 40 Code of Federal Regulations Part 136, entitled, "Guidelines Establishing Test Procedures for Analysis of Pollutants." All sampling analyses shall be conducted at the lowest practical quantitation limits achievable under U.S. EPA specified methodology. In cases where effluent limits are set below the lowest achievable practical quantitation limits, constituents not detected at the practical quantitation limit will be considered in compliance with effluent limitations.
3. All samples collected shall be tracked and submitted under chain of custody and analyzed by a laboratory certified by California Department of Public Health for the specified analysis.
4. This Monitoring and Reporting Program may be revised at any time during the Permit term, as necessary, under the authority of the Executive Officer.
5. The Discharger shall submit a copy of each monitoring report along with a completed copy of the attached monitoring and reporting program transmittal sheet to:

California Regional Water Quality Control Board  
Central Coast Region  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401

## **H. IMPLEMENTATION**

1. This monitoring and reporting program shall be implemented immediately. However the Discharger will be allowed a two-month grace period to procure equipment and establish

new sampling protocols and sampling locations as necessary for new monitoring requirements contained within this Monitoring and Reporting Program.

2. The Executive Officer may revise this MRP as appropriate.

Ordered By:

\_\_\_\_\_  
Executive Officer

\_\_\_\_\_  
Date