

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI-9259
FOR
CITY OF SANTA PAULA
ORDER NO. R4-2007- 0028
(Santa Paula Wastewater Recycling Facility)
(File No. 06-189)**

I. REPORTING REQUIREMENTS

- A. The City of Santa Paula (hereinafter, Discharger) shall implement this monitoring program on the effective date of this Order (WDR Order No. R4-2007-0028). The first monitoring report under this Program is due by January 15, 2011. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit. Reference the reports to Compliance File No. CI-9259 to facilitate routing to the appropriate staff and file. Monitoring reports shall be received by the Regional Board by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January - March	April 15
April - June	July 15
July - September	October 15
October - December	January 15

- B. By January 30th of each year, beginning January 30, 2011, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar 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.
- C. Laboratory analyses – all chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certification shall be provided each time a new and/or renewal is obtained from ELAP.
- D. The monitoring report shall specify the United States Environmental Protection Agency (USEPA) analytical method used, the Method Detection Limit (MDL) and the Minimum Level (ML) for each pollutant. For the purpose of reporting

May 3, 2007

compliance with numerical limitations, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:

1. An actual numerical value for sample results greater than or equal to the ML;
2. "Detected, but Not Quantified (DNQ)" for sample results greater than or equal to the laboratory's MDL but less than the ML; or,
3. "Not Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

The minimum levels are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, February 24, 2005*.

- E. The MLs employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer.
- F. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All Quality Assurance/Quality Control (QA/QC) samples must be run on the same dates when samples were actually analyzed. At least once a year, the Discharger shall maintain and update a list of the analytical methods employed for each test and the associated laboratory QA/QC procedures. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff.

Each monitoring report must affirm in writing that "All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with current USEPA guideline procedures or as specified in this Monitoring Program." Proper chain of custody procedures must be followed and a copy of the completed chain of custody form shall be submitted with the report.

- G. For every item where the requirements are not met, the Discharger shall submit a statement of the cause(s), and actions undertaken or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, including a timetable for implementation of those actions.
- H. The Discharger shall maintain all sampling and analytical results: date; exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended

during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

- I. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.
- J. The Discharger shall submit an annual summary report containing a discussion of the previous year's treated wastewater monitoring data, as well as graphical and tabular summaries of the data. The data shall be submitted to the Regional Board on a hard copy and on a 3 1/2" computer diskette or CD. The submitted data must be PC and Windows compatible, preferably using Microsoft Excel spreadsheet software. The Regional Board may require the Discharger to submit the monitoring and annual summary reports electronically at some time in the future.

II. WATER QUALITY MONITORING REQUIREMENTS

A. Influent Monitoring

1. Influent monitoring is required to assess treatment plant performance and wastewater quality of discharge from the existing individual self-regenerating water softening facilities and community of Santa Paula.
2. Sampling stations shall be established at each point of inflow to the wastewater treatment plant and shall be located upstream of any in-plant return flows and/or where representative samples of the influent can be obtained. The date and time of sampling shall be reported with the analytical results.
3. Samples for influent BOD₅20°C and suspended solids analysis shall be obtained on the same day that the effluent BOD₅20°C and suspended solids samples are obtained. Similarly, sampling for other constituents shall also be coordinated with effluent sampling.
4. The following shall constitute the influent monitoring program for the new SPWRF:

<u>Constituent</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total flow	recorder	continuous
BOD ₅ (20°C)	grab	weekly

Suspended solids	grab	weekly
Chloride	grab	monthly
Sulfate	grab	monthly
Boron	grab	monthly
Total Dissolved Solids	grab	monthly
<u>Metals¹</u>	<u>grab</u>	<u>quarterly</u>

¹ Refer to attached priority pollutants list - Attachment A

B. Effluent Monitoring

An effluent sampling station(s) shall be established for the new Santa Paula Wastewater Recycling Facility (SPWRF) at a location(s) where representative samples of treated wastewater can be obtained prior to discharge to the ponds or surface and subsurface drip system. The sampling station may be located by the end of the pipe of the new SPWRF treatment system. Any proposed sampling station location for the new SPWRF shall be identified and approved by the Executive Officer prior to its use.

The following shall constitute the effluent monitoring program for the new SPWRF:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total Flow	mgd	recorder	continuous
UV Transmittance ¹	%	recorder	continuous
UV Dose ¹	mW-s/cm ²	calculated	continuous
Turbidity ²	NTU	recorder	continuous
pH	pH units	grab	daily
Fecal coliform ²	MPN/100mL	grab	daily
Total coliform ²	MPN/100mL	grab	daily
Enterococcus ²	MPN/100mL	grab	weekly
Total Suspended Solids	mg/L	24-hour composite	weekly
BOD ₅ 20° C	mg/L	24-hour composite	weekly
Oil and Grease	mg/L	grab	weekly
Dissolved oxygen	mg/L	grab	weekly
Ammonia-N	mg/L	grab	weekly
Nitrate-N	mg/L	grab	weekly
Nitrite-N	mg/L	grab	weekly
Organic-N	mg/L	grab	weekly
Residual Chlorine ³	mg/L	grab	weekly
Total Dissolved Solids	mg/L	grab	weekly
Sulfate	mg/L	grab	weekly
Chloride	mg/L	grab	weekly
Boron	mg/L	grab	weekly

MBAS and CTAS ⁴	mg/L	24-hour composite	quarterly
Total hardness	mg/L	24-hour composite	quarterly
Total phosphorus	mg/L	24-hour composite	quarterly
Metals ⁵	µg/L	24-hour composite	quarterly
Bis(2-ethylhexyl) Phthalate	µg/L	24-hour composite	semi-annually
Pesticides ⁵	µg/L	24-hour composite	semi-annually
Volatile organics ⁵	µg/L	grab	semi-annually
Hexavalent chromium	µg/L	grab	semi-annually
Perchlorate	µg/L	24-hour composite	semi-annually
NDMA ⁶	µg/L	24-hour composite	semi-annually
Base/Neutral Extractible ⁵	µg/L	24-hour composite	annually ⁷
Acid Extractible ⁵	µg/L	24-hour composite	annually ⁷

[1] If Ultraviolet (UV) is used for disinfection, report daily minimum and daily average UV dose. (mW-s/cm²: milli-watts seconds per square centimeters)

[2] Turbidity and coliform samples shall be obtained at some point in the treatment process at a time when wastewater flow and characteristics are most demanding on the treatment facilities and disinfection procedures.

[3] If chlorination is used for disinfection.

[4] MBAS: Methylene blue active substances, CTAS: Cobalt thiocyanate active substances

[5] Refer to attached priority pollutants list - Attachment A

[6] NDMA: N-Nitrosodimethylamine

[7] After two years of monitoring, monitoring can be reduced to compounds detected under this monitoring schedule. This reduction is subject to approval of a written request that should be submitted to Executive Officer.

III. GROUNDWATER MONITORING PROGRAM

A groundwater monitoring program shall be implemented to evaluate impacts of wastewater discharged from the new SPWRF to the percolation/evaporation pond system and the reuse and irrigation disposal areas. The Discharger must prepare a groundwater monitoring program to construct background water quality and fully assess any impacts from the historic surface discharge and future discharges (e.g. percolation ponds, subsurface linear dripline, subsurface percolation field, and Title 22 irrigations) and submit a groundwater monitoring plan to the Regional Board for review by September 15, 2009. The groundwater-monitoring wells network for the new SPWRF is subject to approval by the Executive Officer prior to implementation, and shall include monitoring wells located upgradient, downgradient, and in close proximity to the ponds.

The following shall constitute the groundwater monitoring program for the new SPWRF:

<u>Constituent of Analysis</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency</u>
pH	pH units	grab	quarterly

Total coliform	MPN/100mL	grab	quarterly
Fecal coliform	MPN/100mL	grab	quarterly
Enterococcus	MPN/100mL	grab	quarterly
MBAS	mg/L	grab	quarterly
Ammonia-N	mg/L	grab	quarterly
Nitrate-N	mg/L	grab	quarterly
Nitrite-N	mg/L	grab	quarterly
Organic-N	mg/L	grab	quarterly
Total dissolved solids	mg/L	grab	quarterly
Boron	mg/L	grab	quarterly
Chloride	mg/L	grab	quarterly
Sulfate	mg/L	grab	quarterly
Volatile organics ¹	µg/L	grab	quarterly ²
Pesticides ¹	µg/L	grab	quarterly ²
Metals ¹	µg/L	grab	quarterly ²

^[1] Refer to attached priority pollutants list - Attachment A

^[2] Quarterly monitoring during the first year, semi-annual during the second year, and thereafter annual monitoring

All groundwater monitoring reports must include, at minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler identification, and laboratory identification; and
- c. Quarterly observation of groundwater levels, recorded to .01 feet mean sea level, flow direction.

IV. TREATED WASTEWATER USERS SUMMARY REPORT

The Discharger shall submit a quarterly treated wastewater user summary report containing the following information:

- Volume of treated wastewater supplied to the users for each month of the reporting period,
- Total number and area size of treated wastewater use sites and
- Treated wastewater user site inspections on a monthly basis (for any prolonged ponding of water and broken or poorly adjusted distribution/disposal system)

V. SURFACE WATER MONITORING PROGRAM

The Executive Officer may determine that a surface water monitoring program for the Santa Clara River is needed to fully evaluate the impact from Discharger's wastewater discharge on groundwater. If this determination is made, the Discharger must submit a surface water monitoring plan to this Regional Board within 60 days of the notification.

VI. WASTE HAULING REPORTING

In the event that waste oil and grease, sludge, or other wastes are hauled offsite, the name and address of the hauler shall be reported, along with types and quantities hauled during the reporting period and the location of final point of disposal. In the event that no wastes are hauled during the reporting period, a statement to that effect shall be submitted.

VII. OPERATION AND MAINTENANCE REPORT

The Discharger shall file a technical report with the Executive Officer, not later than 30 days after construction of the new SPWRF relative to the operation and maintenance program for the new SPWRF. The information to be contained in the report shall include, at a minimum, the following:

- a. The name and address of the person or company responsible for the operation and maintenance of the facility;
- b. Type of maintenance (preventive or corrective action performed);
- c. Frequency of maintenance, if preventive; and
- d. Maintenance of adequate UV light system performance to ensure continued system operation (if UV is used for disinfection).

This operation and maintenance report shall be filed with the annual summary report.

VIII. CERTIFICATION STATEMENT

Each report shall contain the following declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the ____ day of _____ at _____.

_____(Signature)

_____(Title)"

IX. MONITORING FREQUENCIES

Monitoring frequencies may be adjusted to a less frequent basis or parameters dropped by the Executive Officer if the Discharger makes a request and the Executive Officer determines that the request is adequately supported by statistical trends of monitoring data submitted.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____
Deborah J. Smith
Interim Executive Officer

Date: May 3, 2007