

California Regional Water Quality Control Board
North Coast Region

Monitoring And Reporting Program No. R1-2004-0104

For

Salvation Army Lytton Springs Rehabilitation Facility
Wastewater Treatment Facility

Sonoma County

FLOW MEASUREMENT

Influent wastewater flow shall be recorded continuously. The total influent flow for each day shall be determined and reported in the quarterly monitoring report. The total discharge flow to the irrigation system shall be measured or calculated daily when discharging to the irrigation field and reported in the quarterly monitoring report. All flow measurement devices shall be tested annually and their accuracy certified. Certification shall be submitted with the annual monitoring report.

INFLUENT MONITORING

The Permittee shall conduct influent monitoring of the aerated pond system to comply with the monitoring and reporting program in State Water Resources Control Board Water Quality Order No. 97-10-DWQ (State Water Board Order No. 97-10-DWQ). The sampling location shall be a point prior to discharge to the primary treatment pond. Influent monitoring of the aerated pond system shall consist of the following:

Table 1 Influent Monitoring Schedule

Constituent	Units	Type of Sample	Frequency
BOD (20°C, 5-day)	mg/l	Grab	Monthly
Suspended Solids	mg/l	Grab	Monthly

EFFLUENT MONITORING

Monitoring samples of treated effluent shall be collected and analyzed when there is discharge to the spray irrigation field, in accordance with the schedule in Table 2. Effluent samples shall be conducted concurrently with influent monitoring. The sampling location for effluent samples shall be a point after completion of treatment and prior to discharge to the spray irrigation field.

Table 2 Effluent Monitoring Schedule

Constituent	Units	Type of Sample	Frequency
BOD (20°C, 5-day)	mg/l	Grab	Monthly
Suspended Solids	mg/l	Grab	Monthly
Settleable Matter	ml/l	Grab	Monthly
Chlorine Residual	mg/l	Grab	Weekly
Total Coliform Bacteria	MPN/100 ml	Grab	Monthly
Total Nitrogen	mg/l	Grab	Monthly

The Permittee shall measure and record the pond freeboard, in feet, and dissolved oxygen, in mg/l, in the treatment/storage ponds on a weekly basis.

SEPTIC TANK MONITORING

The Permittee shall make surface inspections of the septic tank not less than monthly to record any odors, evidence of surfacing effluent, or other signs of malfunction. The septic tank shall be inspected and pumped as needed.

IRRIGATION MONITORING

The permittee shall conduct surface inspections of the irrigation field during and immediately after any discharge to the irrigation system. The permittee shall record any odors, evidence of surface runoff, or other signs of malfunction or improper operation. The quarterly monitoring report shall include the daily volume of treated wastewater discharge to the irrigation field and any observations indicating non-compliance with provisions of waste discharge requirements.

GROUNDWATER MONITORING

The purpose of groundwater monitoring is to determine compliance with quality objectives for groundwater in the vicinity of the Salvation Army treatment and storage ponds. The groundwater monitoring shall be as follows:

1. Monitoring Locations

The groundwater monitoring well network shall consist of a minimum of two monitoring wells located downgradient of each aerated pond. At least one groundwater monitoring well shall be installed upgradient of the wastewater treatment and disposal system to measure background water quality. Additional monitoring wells shall be added to the monitoring network as needed. Samples shall be collected from all installed wells for the constituents specified in Table 3.

2. Monitoring Schedule

Ground water samples shall be collected from monitoring wells on a quarterly basis. Groundwater samples shall be analyzed for the following constituents:

Table 3 Groundwater Monitoring Constituents

Constituent	Units	Type of Sample	Frequency
Total Dissolved Solids	mg/l	Grab	Quarterly
Total Coliform Organisms	MPN/100 ml	Grab	Quarterly
Total Nitrogen	mg/l	Grab	Quarterly
Nitrate Nitrogen	mg/l (as N)	Grab	Quarterly

3. Groundwater Elevation Monitoring

The groundwater surface elevation in all wells shall be measured on a monthly basis and used to determine ground water depth and direction of flow. The information for each monitoring well shall include top of casing elevation, the calculated depth to groundwater, and water table elevation for each monitoring well. Groundwater measurements shall be made prior to purging the well and sampling for the monitoring constituents in Table 3. This information shall be included in the annual monitoring report.

QUARTERLY REPORT

The purpose of the report is to document treatment performance, effluent quality and compliance with waste discharge requirements prescribed by Monitoring and Reporting Program Order R1-2004-0104. For each calendar quarter, a self-monitoring report shall be submitted to the Regional Water Board in accordance with the following:

1. The report shall be submitted by the first day of the second month following the end of the quarter, as follows:

Table 4 Monitoring Report Due Dates

Reporting Period	Monitoring Period	Report Due Date
1 st Quarter	January 1 – March 31	May 1 st
2 nd Quarter	April 1 – June 30	August 1 st
3 rd Quarter	July 1 – September 30	November 1 st
4 th Quarter	October 1 – December 31	February 1 st

2. *Letter of Transmittal*: Each report shall be submitted with a letter of transmittal. This letter shall include the following:
 - a. Identification of facility: Name, address, Order number, and WDID number;
 - b. Date of report and monitoring period;
 - c. Identification of all violations of effluent limitations or other discharge requirements found during the monitoring period;
 - d. Details of the violations: parameters, magnitude, test results, frequency, and dates;
 - e. The cause of the violation;
 - f. Discussion of corrective actions taken or planned to resolve violations and prevent recurrence, and dates or time schedule of action implementation;
 - g. Other relevant information including, but limited to, incidents of wastewater treatment and collection system equipment failure, results of visual observations of the irrigation field, and reports of sanitary sewer overflows;
 - h. Authorized signature and certification statement.

3. *Compliance Evaluation Summary*: Each report shall include a compliance evaluation summary. The summary shall illustrate clearly the facility's compliance with all waste discharge requirements, as required. During periods of no discharge, the reports shall certify no discharge.

4. *Results of Analyses and Observations*. Each report shall include the following:
 - a. Tabulations of all required analyses, including parameter, sample date and time, sample station, and test result;
 - b. Written summary of results of all visual monitoring conducted during the monitoring period that indicate non-compliance with provisions of waste discharge requirements;
 - c. If the permittee monitors any pollutant at the point of compliance or conducted visual inspection more frequently than required by this Permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and report of the data submitted in the discharger monitoring report.

5. *Report Submittal*: Copies of each monitoring report shall be mailed to:

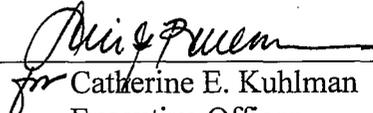
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

ANNUAL REPORT

The Permittee shall submit an annual report to the Regional Water Board for each calendar year. The report shall be submitted so that it is received by the Regional Water Board by March 1st of the following year. The report shall include, at a minimum, the following:

1. Both tabular and, where appropriate, graphical summaries of the monitoring data and disposal and reclamation records from the previous year; and
2. A comprehensive discussion of the facility's compliance with all effluent limitations and other waste discharge requirements, and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the Permit.

Ordered by:


for Catherine E. Kuhlman
Executive Officer

November 2, 2004