California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2006-0053

FOR

BOHEMIAN GROVE
WASTEWATER TREATMENT FACILITY

Sonoma County

FLOW MEASUREMENT

Influent wastewater flow shall be calculated or measured continuously and the total influent flow for each day reported quarterly. 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.

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 following table. The sampling location for effluent samples shall be a point after completion of treatment and prior to discharge to the spray irrigation field.

Table 1. Effluent Monitoring

Constituent	Units	Type of Sample	Sample Frequency	Reporting Frequency
BOD (20^oC, 5-day)	mg/l	Grab	Monthly	Quarterly
Suspended Solids	mg/l	Grab	Monthly	Quarterly
Total Coliform Bacteria	MPN/100 ml	Grab	Monthly	Quarterly
Total Nitrogen	mg/l	Grab	Monthly	Quarterly
Total Chlorine Residual	mg/l	Grab	Weekly	Quarterly

SEPTIC TANK MONITORING

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

STORAGE RESERVOIR MONITORING

The effluent storage reservoir shall be monitored as follows. If the reservoir is empty on the scheduled monitoring date, the Discharger shall report the freeboard monitoring result as "dry".

Table 2. Storage Reservoir Monitoring

Constituent	Units	Type of Sample	Sample Frequency	Reporting Frequency
Dissolved Oxygen	mg/L	Grab	Weekly[1]	Quarterly
Freeboard	0.1 feet	Measurement	Weekly[1]	Quarterly
Odors	---	Observation	Weekly[1]	Quarterly

The Discharger shall conduct periodic monitoring of the storage pond underdrains to ensure that the contents of the storage ponds are not leaking through the pond liners. In any year that the underdrains are not monitored, the Discharger shall report in the annual report that no monitoring of the underdrains has occurred during the previous calendar year.

SPRAY DISPOSAL AREA MONITORING

At least 90 days prior to using the spray disposal fields, the Discharger shall submit a report describing and certifying that (a) a wastewater disinfection system has been constructed, is capable of meeting effluent limits prescribed by this Order, and is fully operational, and (b) all of the setback requirements prescribed in Land Disposal Specification D.2 have been met.

Visual monitoring of the spray disposal areas shall be conducted when the disposal areas are used, and the results shall be included in the quarterly monitoring report. Evidence of erosion, saturation, irrigation runoff, the presence of nuisance conditions, or other signs of malfunction or improper operation shall be noted in the report. 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. Monitoring of the spray disposal areas shall include the following:

Table 3. Spray Disposal Area Monitoring

Constituent	Units	Type of Sample	Sample Frequency	Reporting Frequency
Flow	Gallons	Continuous	Daily	Quarterly
Rainfall	Inches	Observation	Daily	Quarterly
Acreage Applied	Acres	Calculated	Daily	Quarterly
Water Application Rate	gal/acre/day	Calculated	Daily	Quarterly

[1] If the discharge is intermittent rather than daily, then on the first day of each intermittent discharge, the Discharger shall monitor and record data for all the parameters listed in Table 2, after which the frequencies of analysis given in the schedule shall apply for the duration of each intermittent discharge. In no event shall the discharger be required to monitoring and record data more often than twice the frequencies listed in the schedule.

GROUNDWATER MONITORING

The purpose of groundwater monitoring is to determine compliance with quality objectives for groundwater in the vicinity of the spray irrigation area. The groundwater monitoring shall be as follows:

1. Monitoring Locations

The Discharger shall submit a groundwater well installation workplan for characterization of groundwater quality at the spray disposal fields. The workplan shall describe the installation of sufficient monitoring wells to allow evaluation of the groundwater quality upgradient and downgradient of the spray disposal areas. Every monitoring well shall be constructed to yield representative samples from the uppermost layer of the uppermost aquifer and to comply with applicable well standards. Additional monitoring wells constructed at the site shall be added to the monitoring network as needed. Samples shall be collected from all installed wells for the constituents specified in Table 4.

2. Monitoring Schedule

Ground water samples shall be collected from monitoring wells on a monthly basis when discharging to the spray irrigation areas. Groundwater samples shall be analyzed for the following constituents:

Table 4. Groundwater Monitoring Constituents

Constituent	Units	Type of Sample	Frequency
Total Dissolved Solids	mg/l	Grab	Monthly
Total Nitrogen	mg/l	Grab	Monthly
Nitrate Nitrogen	mg/l (as N)	Grab	Monthly

SLUDGE MONITORING

Prior to the removal of sludge from the any treatment tank or storage pond for the purpose of reuse or final disposal through land application, a composite sample shall be collected and tested for the following metals: Cadmium, Copper, Nickel, Chromium, Lead, and Zinc. The composite sample will be comprised of a sufficient number of discrete samples so as to be representative of the tank or storage pond. Sampling results shall be reported to the Regional Water Board.

QUARTERLY REPORT

The purpose of the report is to document treatment performance, effluent quality and compliance with waste discharge requirement. 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 5. Monitoring Report Due Dates

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

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 Discharger 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 Discharger 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 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.

3. Documentation of efforts by the Discharger to inventory, correct, and control sources discharges of sediment waste from the Bohemian Grove to the Russian River and its tributaries.

Ordered by: Catherine Kuhlman
Catherine E. Kuhlman
Executive Officer

August 9, 2006