

**MONITORING AND REPORTING PROGRAM NO. R1-2004-0100**

**FOR**

**CHAMBERLAIN CREEK CONSERVATION CAMP  
WASTEWATER TREATMENT FACILITY**

**Mendocino County**

**FLOW MEASUREMENT**

Wastewater flow to the exiting leachfields and the mound disposal system shall be recorded daily. The total daily flow to each system shall be reported on 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.

**VISUAL MONITORING**

The Permittee shall conduct surface inspections of all septic tanks, lift stations, and leachfield and mound disposal fields no less than monthly to record any odors, evidence of surface runoff, or other signs of malfunction or improper operation. As part of the monthly inspection, the Permittee shall monitor observation tubes within the wastewater mound system to verify proper operation of the mound system. The quarterly monitoring report shall include the daily volume of treated wastewater discharged to the disposal fields on the day of the inspection, any observations indicating non-compliance with provisions of waste discharge requirements, and any other pertinent information.

**GROUNDWATER MONITORING**

The purpose of groundwater monitoring is to determine compliance with quality objectives for groundwater in the vicinity of the Permittee's subsurface wastewater disposal system. 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 the existing leachfield and a minimum of two monitoring wells downgradient of the mound system. At least one groundwater monitoring well shall be installed upgradient of the wastewater 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 1.

**2. Monitoring Schedule**

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

**Table 1 Groundwater Monitoring Constituents**

| Constituent             | Units       | Type of Sample | Frequency |
|-------------------------|-------------|----------------|-----------|
| Total Dissolved Solids  | mg/l        | Grab           | Quarterly |
| Total Nitrogen          | mg/l        | Grab           | Quarterly |
| Nitrate Nitrogen        | mg/l (as N) | Grab           | Quarterly |
| Total Coliform Bacteria | MPN/ 100 ml | Grab           | Quarterly |
| Fecal Coliform Bacteria | MPN/ 100 ml | 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. For each monitored groundwater well, the permittee shall measure the water level and determine groundwater gradient and direction at least annually. Groundwater measurements shall be made prior to purging the well and sampling for Monitoring Constituents and used to fulfill the required groundwater gradient/direction analyses. 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. This information shall be included in the annual monitoring report.

**SEPTIC TANK MONITORING**

The Permittee shall make surface inspections of all septic tanks not less than monthly to record any odors, evidence of surfacing effluent, or other signs of malfunction. Septic tanks shall be inspected and pumped as described below. An inspection is not required during the year a septic tank is pumped.

**Table 2 Septic Tank Monitoring**

| Parameter   | Units  | Type of Minimum Measurement | Inspection Frequency |
|---|--------|-----------------------------|----------------------|
| Sludge depth and scum thickness in each compartment of each septic tank | Inches | Staff Gauge                 | Annually             |
| Distance between bottom of scum layer and bottom of outlet device       | Inches | Staff Gauge                 | Annually             |
| Distance between top of each sludge layer and bottom of outlet device   | Inches | Staff Gauge                 | Annually             |

Septic tanks shall be pumped when any one of the following conditions exist or may occur before the next inspection:

- a. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment; or,
- b. The scum layer is within three inches of the outlet device; or,
- c. The sludge layer is within eight inches of the outlet device.

### QUARTERLY MONITORING REPORT

The purpose of the report is to document compliance with waste discharge requirements. For each 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 3 Monitoring Report Due Dates**

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

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 permit conditions 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, and reports of wastewater spills or surfacing effluent;
  - 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*

- 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:

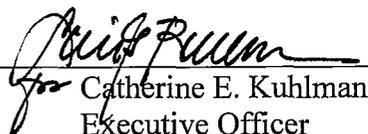
North Coast Regional Water Quality Control Board  
5550 Skylane Boulevard, Suite A  
Santa Rosa, CA 95403

**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 records from the previous year; and
2. A comprehensive discussion of the facility's compliance with 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: \_\_\_\_\_

  
Catherine E. Kuhlman  
Executive Officer

October 13, 2004