California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2008-0028

For

United States Forest Service
Orleans Ranger Station
WASTEWATER TREATMENT FACILITY

Humboldt County

FLOW MEASUREMENT

Wastewater flow to the leachfields shall be recorded daily. The total daily flow to the leachfields 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, filters and leachfields no less than monthly to record any odors, evidence of surface runoff, or other signs of malfunction or improper operation.

GROUNDWATER MONITORING

The purpose of groundwater monitoring is to determine compliance with water quality objectives for groundwater in the vicinity of the Permittee's subsurface wastewater disposal system.

1. **Monitoring Locations**

   The groundwater monitoring wells shall be sampled quarterly. Additional monitoring wells shall be added to the monitoring network as needed. Samples shall be collected from all monitoring wells for the constituents specified in Table 1.

2. **Monitoring Schedule**

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

Table 1 Groundwater Monitoring Constituents

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

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Fecal Coliform Bacteria	MPN/ 100 ml	Grab	Quarterly

3. **Groundwater Elevation Monitoring**

The groundwater surface elevation in all wells shall be measured on a quarterly basis and used to determine groundwater 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. 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.

EFFLUENT MONITORING

The purpose of effluent monitoring is to determine treatment system efficiency and suitability for subsurface disposal. The effluent monitoring shall be as follows:

Table 2 Effluent Monitoring Constituents

Constituent	Units	Type of Sample	Frequency
BOD	mg/l	Grab	Quarterly
Total Suspended Solids	mg/l	Grab	Quarterly
Total Settleable Solids	mg/l	Grab	Quarterly
pH	pH	Grab	Quarterly

SEPTIC TANK MONITORING

The Permittee shall make 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 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

For each quarter, a self-monitoring report shall be submitted to the Regional Water Board in accordance with the following:

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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
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 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 not 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. *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 conducts 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.

4. *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

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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. 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 Kuhlman
Executive Officer

April 24, 2008

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