California Regional Water Quality Control Board North Coast Region

MONITORING AND REPORTING PROGRAM NO. 97-5
(As amended by Order No. R1-2008-0100 to reflect new ownership)

FOR

HUMBOLDT REDWOOD COMPANY, LLC

CLEAN CLOSURE OF THE HELY CREEK SOLID WASTE DISPOSAL SITE CLASS III WASTE MANAGEMENT UNIT

Humboldt County

Waste Recycling

Volumes of waste removed from the landfill shall be reported to the Regional Water Board on an annual basis. Data shall be tabulated on a month-to-month summary.

Groundwater Monitoring

The objectives of groundwater monitoring are; determination of groundwater gradient; leak detection; and evaluation of naturally occurring variations in groundwater quality, if any.

Monitoring well Nos 1, 2, 3, 4 and 5 and any additional wells that may be installed shall be monitored as follows:

a. Static water levels shall be recorded in April of each year. Top of casing, depth to groundwater and water table elevation shall be reported in tabular fashion. Gradient contours shall be plotted for each monitoring period.

b. Representative samples shall be collected in April of each year. Prior to sampling, the bore hole shall be properly purged. Purging protocol and field sampling logs including equilibrium measurements, pumping rate and other appurtenant information shall be submitted. Samples shall be analyzed for the Monitoring Parameters listed in Table 1 of this Order.

c. Every five years the discharger shall analyze samples for all Constituents of Concern listed in Table 1 in addition to the Monitoring Parameters.

Surface Water Monitoring

The objectives of surface water monitoring are; to monitor the effectiveness of the best management practices; and monitor compliance with basin plan objectives pertaining to protection of the receiving waters. Representative grab samples from Hely Creek, S-1 and S-2, and any other surface monitoring stations established shall be analyzed for constituents listed in Table 2 of this Order.

Samples shall be collected in December and March immediately following rainfall events and need not be collected at the same time that groundwater monitoring samples are collected.

Leachate Monitoring

The objectives of leachate monitoring are to characterize leachate quality and evaluate its potential impacts on receiving waters.
The landfill shall be inspected for leachate seeps monthly during the period October - April. An inspection log shall be included in the monitoring report. The log will note, at a minimum, the date, time, flow, duration of flow, weather conditions and extent of the seep, (i.e., was it contained onsite or enter surface water drainage courses) and corrective measures employed. Regional Water Board staff will be verbally notified within 24 hours in the event of an off site discharge. Leachate seeps will be corrected immediately upon discovery. If leachate is observed entering surface drainages, a representative grab sample shall be taken and analyzed for the constituents listed in Table 2.

General Inspections

The landfill will be inspected monthly during the period October - April for erosion, drainage problems, cover integrity and ponding atop the landfill. Problem areas shall be identified and corrected immediately. A log of the inspections and corrective measures shall be submitted with the monitoring report.

Data Analysis

Data will be examined to determine if the monitoring parameters or constituents of concern at the downgradient monitoring points exhibit trends or show evidence of a release from the facility.

Groundwater data shall be evaluated using intra-well comparisons using the Control Chart method. Significance levels will be set at 0.05. Data shall be deseasonalized using accepted procedures, if necessary, prior to analysis. New data points will be incorporated into the background data set every 3 years. Outlying data points should be removed before updating the background data set.

Surface water data shall be compared using the Tolerence Interval Method at a confidence limit of 95%. Background values shall be derived from data from location S-I. The background mean and standard deviation shall be updated every three years. Outlying data points should be removed before updating the background data set. In the event that the means background value is below the Method Detection Limit (MDL), the upper compliance limit will be established at 2.5 times the MDL. Statistical analysis of the data shall be performed every three years. In the event of a confirmed statistical increase in concentration, the discharger shall notify the Regional Water Board, in writing, within two weeks.

Reporting

Annual monitoring reports shall be submitted by July 15 of each year. Monitoring reports shall contain any information from monitoring performed more frequently than requested or at locations not required by this Monitoring and Reporting Program.

The annual report will contain graphs and tabular presentation of all data for each monitoring point. A short discussion of the monitoring results, including any statistically significant exceedence(s) of background water quality values shall precede the tabular results.

Monitoring data shall be arranged in a tabular fashion so that the date, constituent, and concentrations are readily discernible. The monitoring reports shall be transmitted in accordance with specifications of Resolution No. 71-5, adopted by the Regional Water Board on February 3, 1971.

The discharger shall implement the above monitoring program on the effective date of this Order.

Ordered by

February 27, 1997

(MRP 97-5 amended)