

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2002-0042

FOR

SIERRA-PACIFIC INDUSTRIES
ARCATA DIVISION SAWMILL

Humboldt County

MONITORING

Effluent Monitoring - Discharge to Receiving Waters¹

These monitoring requirements apply to Discharge Serial 001 (see Attachment “2” of WDR Order No. R1-2002-0042). Grab samples shall be collected from Discharge Serial No. 001 and shall be analyzed for all of the constituents listed below:

<u>Constituent</u>	<u>Units</u>	<u>Frequency</u>
Temperature	Degrees Fahrenheit	Weekly
pH	pH units	Weekly
Dissolved Oxygen	mg/l	Weekly
Suspended Solids	mg/l	Weekly
Volatile Suspended Solids	mg/l	Weekly
Settleable Solids	ml/l/hr	Weekly
Color	Color units	Weekly
Turbidity	NTU	Weekly
Pentachlorophenol	µg/l	Twice Monthly
Tetrachlorophenol	µg/l	Twice Monthly
Oil and Grease	µg/l	Twice Monthly
Total Petroleum Hydrocarbons Motor Oil	µg/l	Twice Monthly
Total Petroleum Hydrocarbons Diesel	µg/l	Twice Monthly
Total Petroleum Hydrocarbons Gasoline	µg/l	Twice Monthly
Metals (Cd, Cr, Cu, Ni, Pb, Zn)	µg/l	Monthly

Visual Monitoring

Visual observations shall be made daily of the Log Deck Pond. Visual observations of the effluent shall be made weekly or during the first hour of discharge when discharges from Discharge Serial 001 are intermittent and less frequent than weekly. Visual observations shall document the presence of any floating and suspended material, oil and grease, discoloration, turbidity, odor, and the source of any pollutants. Observation records shall be maintained and shall include the date and time the observations were made. The visual observation records shall be submitted monthly to the Regional Water Board with the monitoring reports.

Acute Toxicity

Grab samples of effluent shall be collected monthly from Discharge Serial No. 001 and shall be analyzed for acute toxicity testing as described in General Provisions E. 18 of Order R1-2002-0042. Acute toxicity results shall be reported as Percent Survival and shall be monitored using Rainbow Trout (*Oncorhynchus mykiss*).

¹ During periods when there is no discharge, the monitoring report shall specify “no discharge.”

Chronic Toxicity

The permittee shall sample effluent from Discharge Serial No. 001 and have it analyzed for chronic toxicity, in compliance with GENERAL PROVISION I. 19 of the associated Order. Chronic toxicity test results shall be reported by April 30, 2003. Results for each chronic toxicity test shall include, at a minimum:

1. sample date(s)
2. test initiation date
3. test species
4. end point values for each dilution (e.g. number of young, growth rate, percent survival)
5. NOEC value(s) in percent effluent
6. TUc values ($100/\text{NOEC}$, $100/\text{IC}_{25}$, and $100/\text{EC}_{25}$)
7. Mean percent mortality ($\pm$ s.d.) after 96 hours in 100 percent effluent (if applicable)
8. Available water quality measurements for each test (ex. pH, D.O., temperature, conductivity, hardness, salinity, ammonia)

Receiving Water Monitoring

These monitoring requirements apply to receiving water monitoring in an ambient background location unaffected by the discharge and a location that is affected by the discharge at locations approved by the Executive Officer. The Permittee shall report the location of receiving water sample collection at the time of sample collection. The receiving water shall also be observed daily for evidence of floatable materials (solids, liquids, foam, scum), visible films (oils, greases, waxes), aquatic growths, and discoloration. Daily observations of the receiving water shall be recorded and included in the monthly monitoring reports. Grab samples shall be collected from the receiving water monitoring locations and shall be analyzed for all of the constituents listed below¹:

<u>Constituent</u>	<u>Units</u>	<u>Frequency</u>
Temperature	Degrees Fahrenheit	Weekly
pH	pH units	Weekly
Color	Color units	Weekly
Turbidity	NTU	Weekly
Dissolved Oxygen	mg/l	Weekly

Groundwater Monitoring

These monitoring requirements apply to the monitoring well(s) that are to be installed to monitor groundwater beneath the Log Deck Pond. Grab samples shall be collected from the monitoring wells and shall be analyzed for all of the constituents listed below.

<u>Constituent</u>	<u>Units</u>	<u>Frequency</u>
pH	pH units	Quarterly
Tannins and Lignins	mg/l	Quarterly
Chemical Oxygen Demand	mg/l	Quarterly
Total Dissolved Solids	mg/l	Quarterly
Color	Color units	Quarterly

REPORTING

Monitoring reports shall be reported in a tabular format and submitted monthly to the Regional Water Board office such that they are received by the fifteenth day of the following month.

Ordered by _____

Susan A. Warner
Executive Officer

August 22, 2002

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