

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM
Order No. R1-2000-70

for

MENDOCINO FOREST PRODUCTS COMPANY, LLC
FORT BRAGG SAWMILL
32600 HOLQUIST LANE
FORT BRAGG, CALIFORNIA

Mendocino County

MONITORING

Groundwater Elevations

1. The depth to groundwater in each monitoring well and piezometer shall be measured quarterly to at least 0.01 foot increments. The results of the quarterly elevations shall be reported in tabular form indicating the surveyed elevation of each well reference point, depth to groundwater from the reference point, and the actual groundwater elevation. The data generated from the elevation measurements must be referenced to mean sea level.

Private Well Sampling

2. The private water supply wells along the western boundary of the mill property (designated PW-1, PW-2, PW-3, PW-4, PW-5, PW-6, PW-7, and PW-9) shall be sampled quarterly. The constituents to be analyzed for and the sampling schedule are shown in the following table:

January/ February/ March	April/ May/ June	July/ August/ September	October/ November/ December
TPHG TPHD 8260 ¹ PCP/TCP	TPHG TPHD 8260	TPHG TPHD 8260 PCP/TCP	TPHG TPHD 8260

¹ EPA Methods 8260, 524.2, or an equivalent GC/MS EPA Method may be used for the analysis of the groundwater. The analysis should be for all detectable parameters of the analysis method.

Influent and effluent water samples shall be collected from the well-head treatment systems at every domestic well. The effluent or treated water samples shall be analyzed only if detectable levels of the constituents of concern are found in the influent or raw water samples. The analyses shall be performed at a California State certified laboratory. Verbal notification of analytical results shall be provided within 24 hours to the property owner, Mendocino County Health Department, and Regional Water Quality Control Board staff when detectable levels of any constituent of concern is detected in influent or effluent samples at any domestic well.

Groundwater Monitoring

- The groundwater monitoring well sampling program for the site is intended to: 1) verify that natural attenuation is occurring in the groundwater on the east side of the slurry wall; and 2) confirm that containment of contaminated groundwater is occurring. The program has contingencies for additional sampling if groundwater quality on the west side of the “Funnel and Gate” system is threatened. Accordingly, groundwater samples shall be collected and analyzed as follows:

East of Wall

<u>Well I.D.</u>	<u>Frequency²</u>	<u>Method³/Analytes</u>
MW-1	Semiannual	8260, gasoline
MW-2	Semiannual	8260
MW-6	Semiannual	8260, PCP/TCP, gasoline and diesel ⁴
MW-7	Suspend, unless the Executive Officer determines that the contamination in MW-2 has increased	8260
MW-12	Semiannual	8260, PCP/TCP, diesel
MW-13	Biannual, unless the Executive Officer determines that the contamination in MW-6 has increased	8260, PCP/TCP
MW-14	Annual	8260
MW-15	Annual	8260
MW-18	Semiannual	8260, PCP/TCP, diesel

Semiannual sampling shall occur during the first and third quarters (January-March and July-September, respectively) of each year. The results of all analyses from the sampling

² The Executive Officer may require increased monitoring frequency if the groundwater flow pattern is changed indicating a gate breach is threatened and contaminants can by-pass the containment system. In addition, immediate sampling of MW-3, MW-4, MW-8, and MW-19 shall occur if any breach in the gate is detected by contaminants found in the out-gates.

³ The analysis by the listed method should be for all detectable parameters of the listed method.

⁴ Monitoring well MW-6 shall be analyzed for gasoline and diesel during the 1st quarter monitoring event.

of the above monitoring wells shall be evaluated in an annual report. Based on declining trends and supporting gradient data, additional reductions in contaminant sampling frequency may be considered.

West of Wall

Sampling of monitoring wells MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-16, MW-17, and MW-19 is suspended, unless the Executive Officer determines that a gate breach is threatened.

Funnel and Gate Sentry Wells

Each upgradient, midgate, and downgradient sentry monitoring well at each of the four gates of the "Funnel and Gate" system shall be sampled quarterly. The samples from the upgradient sentry monitoring wells (SW-1 In, SW-2 In, SW-3 In, SW-4 In) shall be analyzed. If a constituent of concern is detected above its detection limit in a sample from an upgradient sentry monitoring well, then the sample from the midgate sentry monitoring well (SW-1 Mid, SW-2 Mid, SW-3 Mid, SW-4 Mid) shall be analyzed for the same constituent. If a constituent of concern is detected at the midgate sampling point, the sample from the downgradient sentry monitoring well (SW-1 Out, SW-2 Out, SW-3 Out, SW-4 Out) shall be analyzed and the carbon bed replaced. Samples collected from the sentry monitoring wells at Gate 1 and 2 shall be analyzed for PCP/TCP, diesel, and all detectable parameters in an EPA Method 8260 analysis. Samples collected from the sentry monitoring wells at Gate 3 and 4 shall be analyzed for diesel and all detectable parameters in an EPA Method 8260 analysis.

4. Storm water runoff samples shall be collected monthly, within 24 hours of the first storm of the month producing runoff from the mill yard at the points shown as SP-02, SP-03, and SP-04 on Figure 2 of Waste Discharge Requirements Order No. R1-2000-##*. The monitoring report for those months with insufficient rainfall shall be submitted with a notation that insufficient rainfall has occurred. The runoff samples shall be analyzed for diesel, gasoline, all detectable parameters in an EPA Method 8260 analysis, pentachlorophenol and tetrachlorophenol.
5. Weekly rainfall totals shall also be recorded.
6. Each newly installed groundwater monitoring well shall be sampled quarterly for at least one hydrologic cycle and analyzed for diesel, gasoline, all detectable parameters in an EPA Method 8260 analysis, pentachlorophenol and tetrachlorophenol.

REPORTING

A groundwater elevation contour map shall be submitted for each quarterly monitoring event. The facility layout, groundwater flow direction including groundwater gradient, and the locations of the wells shall be indicated on the map.

Quarterly monitoring reports shall be submitted for all appropriate points by the 1st day of the second month after the quarter (May 1, August 1, November 1, February 1).

Ordered by _____

Lee A. Michlin
Executive Officer

September 22, 2000