

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2011-0010
(Replaces Monitoring and Reporting Program No. R1-2008-0035)

FOR
DENNIS WENDT
Humboldt Land Recovery, Inc.
EEL RIVER SAWMILLS, INCORPORATED

FOR
EEL RIVER SAWMILLS, Mill A
1053 Northwestern Avenue
Fortuna, California

Case No. 1NHU528

Humboldt County

This Monitoring and Reporting Program (MRP) is issued pursuant to California Water Code Section (CWC) 13267(b) and requires monitoring of groundwater and submission of technical reports. Reports are required on a quarterly basis. The objective of monitoring conducted under this monitoring program is to provide the Discharger and the Regional Water Board with information concerning groundwater quality and contaminant trends at the site.

Under the authority of CWC section 13267, the Dischargers named above are required to comply with the following:

MONITORING

1. The monitoring wells at the Eel River Sawmills, Mill A site shall be sampled quarterly. The locations of the monitoring wells are shown in the attached figure, titled *Site Plan with Monitoring Well Locations*, prepared by SCS Engineers on December 22, 2010.
2. During each groundwater monitoring event, the presence of floating product shall be evaluated in each monitoring well quarterly. If detected, the thickness shall be measured to at least 0.01 foot increments.
3. During each groundwater monitoring event, the depth to groundwater in each monitoring well associated with the site shall be determined to at least 0.01 foot increments, prior to purging. The results of each elevation measurement shall be reported in tabular form indicating the surveyed elevations of each well reference point, depth to groundwater from reference point, and the actual groundwater elevation. The data generated from the elevation readings must be referenced to the same elevation datum used for the electronic GeoTracker survey values.

4. Groundwater shall be sampled quarterly as described in the following table.

Well	ANALYTES	
	1 st and 3 rd Quarters	2 nd and 4 th Quarters
MW-101	Pentachlorophenol Tetrachlorophenols Trichlorophenols	Pentachlorophenol Tetrachlorophenols Total Petroleum Hydrocarbons – diesel range Total Petroleum Hydrocarbons – motor oil range
MW-102		
MW-105		
MW-106		
MW-107		
WW-2N or replacement		

5. All newly installed monitoring wells will be sampled upon installation and quarterly thereafter for the analytes shown in the following table.

	ANALYTES		
	Initial Sampling	1 st and 3 rd Quarters	2 nd and 4 th Quarters
Newly Installed Wells	Pentachlorophenol Tetrachlorophenols Trichlorophenols Total Petroleum Hydrocarbons – diesel range Total Petroleum Hydrocarbons – motor oil range Dioxins and Furans	Pentachlorophenol Tetrachlorophenols Trichlorophenols	Pentachlorophenol Tetrachlorophenols Total Petroleum Hydrocarbons – diesel range Total Petroleum Hydrocarbons – motor oil range

6. All wells shall be sampled annually in the first quarter of the year for dioxins and furans. Dioxins and furans shall be included in the initial sampling for newly installed wells. The analysis for dioxins and furans shall include the following 17 congeners.

Dioxins	Furans
2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	2,3,7,8-tetrachlorodibenzofuran (2,3,7,8-TCDF)
1,2,3,7,8-pentachlorodibenzo-p-dioxin	1,2,3,7,8-pentachlorodibenzofuran
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2,3,4,7,8-pentachlorodibenzofuran
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	1,2,3,4,7,8-hexachlorodibenzofuran
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	1,2,3,6,7,8-hexachlorodibenzofuran

1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	1,2,3,7,8,9-hexachlorodibenzofuran
Octachlorodibenzo-p-dioxin (OCDD)	2,3,4,6,7,8-hexachlorodibenzofuran
	1,2,3,4,6,7,8-heptachlorodibenzofuran
	1,2,3,4,7,8,9-heptachlorodibenzofuran
	Octachlorodibenzofuran (OCDF)
The individual congener concentrations shall be reported. Additionally, the concentrations shall be summed using the toxic equivalent factors (TEFs), which normalize the dioxin and furan concentrations to 2,3,7,8-TCDD. The 2005 World Health Organization TEFs shall be used for this purpose.	

7. Reporting limit for the analytes shall not be greater than shown in the following table. Detections below the reporting limit and above the method detection limit shall be reported.

Minimum Reporting Limits for Analytes	
Analyte	Minimum Reporting Limit
Total Petroleum Hydrocarbons as diesel	50 ug/L
Total Petroleum Hydrocarbons as motor oil	175 ug/L
Pentachlorophenols	0.2 ug/L
Tetrachlorophenols	0.5 ug/L
Trichlorophenols	1.0 ug/L
Dioxins & Furans	10 pg/L for 2,3,7,8-TCDD and 2,3,7,8-TCDF
	100 pg/L for OCDD and OCDF
	50 pg/L for the remaining congeners

8. All laboratory analyses shall be performed at a laboratory certified for that analysis by the California Department of Public Health.

REPORTING

1. Quarterly monitoring reports, including quarterly gradient data and quarterly sampling data, shall be submitted to this office in accordance with the following schedule.

Quarter	Period Covered	Report Due Date
First Quarter	January, February, March	April 30
Second Quarter	April, May, June	July 31
Third Quarter	July, August, September	October 31
Fourth Quarter	October, November, December	January 31

2. A groundwater elevation contour map shall be submitted for each quarterly set of measurements and include the facility, groundwater flow pattern including the direction of the groundwater gradient, and the location of the wells measured.
3. A contamination isoconcentration map shall be included for each significant pollutant detected during the quarterly monitoring event and shall include the following:
 - a. concentration of contaminant detected;
 - b. location of the facilities; and,
 - c. location of the monitoring wells.
4. Current and previous analytical results shall be reported in tables which include the following:
 - a. sampling point;
 - b. date of sample collection;
 - c. constituents and analytical results; and
 - d. quantification limits employed for non-detect analytical results.
5. Each report shall contain copies of the sampling field logs and well purging logs; chain of custody documents indicating the time and date of sample collection and the person collecting the samples; and signed laboratory sheets including quality control data and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
6. If one or more samples or analyses required by this program cannot be collected, the report shall state the reason for the omission and explain what corrective actions shall be employed to prevent future omissions.
7. The monitoring reports shall be submitted in hard copy form. In addition, the monitoring reports and monitoring data shall also be submitted electronically to the State Water Resources Control Board's GeoTracker database as required by Title 23, Division 3, Chapter 30 of the California Code of Regulations.

Ordered by _____

Catherine Kuhlman
Executive Officer

January 6, 2011

