

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2007-0062

FOR

MALM FIREPLACES, INC.

LESLIE W. WELSH and PHYLLIS M. WELSH

ALLAN A. HENDERSON and KIMBERLY L. HENDERSON TRUST

For

326 and 368 Yolanda Avenue, Santa Rosa
Sonoma County

This Monitoring and Reporting Program Order No. R1-2007-0062 (Order) is issued pursuant to California Water Code Section 13267(b) and requires monitoring of groundwater and submission of technical reports. Groundwater Monitoring Reports are required to be submitted each calendar quarter. The objective of monitoring conducted under this monitoring program is to provide the Dischargers and the Regional Water Board with information concerning groundwater quality and contaminant trends at the site. This Order replaces all previous Regional Water Board monitoring and reporting directives for Malm Fireplaces Inc. investigation site, located at 326 and 368 Yolanda Avenue in Santa Rosa, California (the site).

Under the authority of the California Water Code Section 13267, the Dischargers named above are required to comply with the following:

MONITORING

1. The depth to groundwater shall be measured to the nearest 0.01-foot increment quarterly in all groundwater monitoring wells associated with the site. The results 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 readings shall be referenced to mean sea level. Elevation contour maps shall be included in all monitoring reports showing the direction of groundwater flow for each monitoring event.
2. Groundwater samples shall be collected quarterly from all groundwater monitoring wells. All laboratory analyses of groundwater samples shall be performed by a laboratory certified by California Department of Health Services for those analyses.
3. Groundwater samples shall be tested for the full scan of low-level volatile organic compounds analyzed by EPA Method 8260 and for total petroleum hydrocarbons measured as gasoline and diesel. Analytical methods shall achieve practical quantification reporting limits that are adequate for evaluating regulatory action levels for each constituent. A table commonly achievable laboratory reporting limits for the constituents of concern is incorporated in this Order as Appendix A. The Dischargers shall provide an explanation for any laboratory results that do not achieve the listed minimum detection level for a constituent of concern.

REPORTING

Groundwater Monitoring Reports shall be submitted quarterly, and shall include the following elements:

1. A narrative description of the work conducted;
2. An accurately scaled groundwater elevation site map displaying the following information:
 - a. Groundwater elevation isograms, the direction of the groundwater, and the hydraulic gradient.
 - b. The locations of monitoring wells;
 - c. The locations of former and current chemical use areas; and
 - d. The locations of on-site structures, subsurface preferential pathways for contaminant migration, and other significant features.
3. A contaminant distribution map for the most significant pollutant or pollutants detected during the monitoring events. The map(s) should be presented at the same scale and display the same site features as the groundwater elevation map described in Item 2 above.
4. A table presenting the current and historical groundwater analytical results for each monitoring well that presents the following information:
 - a. Sample locations indicating the boring or monitoring well identification name;
 - b. Date of sample collection;
 - c. Constituents analyzed and analytical results; and
 - d. Quantification limits employed for non-detect analytical results.
5. Copies of supporting documents such as the following:
 - a. Signed well purging and sampling field logs;
 - b. Chain of custody documents showing the time and date of sample collection and person collecting the samples; and
 - c. Laboratory analytical reports presenting quality control data and comments regarding any analytical anomalies.

6. Groundwater monitoring and sampling reports shall be submitted so that they are received by the Regional Water Board on or before the following due dates for each calendar quarter:

<u>Quarter</u>	<u>Reporting Period</u>	<u>Submittal Date</u>
First Quarter	January, February, March	April 30th
Second Quarter	April, May, June	July 31st
Third Quarter	July, August, September	October 31st
Fourth Quarter	October, November, December	January 31st

7. Groundwater monitoring data and reports shall also be submitted electronically to the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as required by Title 23, Division 3, Chapter 30, Article 2, Sections 3890-3895 of the California Code of Regulations. ¹
8. Analytical data for all soil, vapor and water samples shall also be submitted in Electronic Deliverable Format (EDF) to the Geotracker system via the Internet. Groundwater, soil and vapor samples include: monitor well samples, borehole samples, gas and vapor samples, groundwater grab samples, piezometer samples, stockpile samples and samples from drinking water wells.
9. In addition to the laboratory data referenced above, site specific information shall be submitted electronically to the Geotracker database for the following:
- The latitude and longitude of ground water monitoring wells (including any other well or permanent sampling point designated as part of the site monitoring program) accurate to within one meter;
 - The surveyed elevation, relative to mean sea level, for any ground water sampled, accurate to within a tenth of a foot;
 - Groundwater information, including depth to water and well status; and,
 - A site map in electronic format showing property boundaries, buildings, and soil and water sampling locations.

Ordered by _____

Robert R. Klamt
Interim Executive Officer

August 15, 2007

¹ Additional information about the EDF process can be found at the State Water Board Web site at <http://geotracker.swrcb.ca.gov> by clicking on the information link to **Electronic Submittal of Information**.

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Appendix A

**Table of Commonly Achievable Minimum Detection Levels for
Halogenated Volatile Organic Compounds and Petroleum**

CHEMICAL	Common Minimum Detection Level
1,1-Dichloroethane	<0.5 µg/l
1,2-Dichloroethane	<0.5 µg/l
1,1-Dichloroethene	<0.5 µg/l
cis-1,2-Dichloroethene	<0.5 µg/l
trans-1,2-Dichloroethene	<0.5 µg/l
Petroleum Hydrocarbons as diesel	50 µg/l
Petroleum Hydrocarbons as gasoline	50 µg/l
Tetrachloroethene	<0.5 µg/l
1,1,1-Trichloroethane	<0.5 µg/l
1,1,2-Trichloroethane	<0.5 µg/l
Trichloroethene	<0.5 µg/l
Vinyl Chloride	<0.5 µg/l