

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2006-0083

FOR

QUIK STOP MARKET #35
816 MCMINN AVENUE
SANTA ROSA, CALIFORNIA

CASE NO. 1TSR275

Sonoma County

GROUNDWATER MONITORING

1. Prior to purging, the depth to groundwater shall be determined to at least 0.01 foot increments in all groundwater monitoring wells quarterly. The data generated from the elevation readings must be referenced to the same elevation datum used for the electronic GeoTracker survey values.
2. Water samples shall be collected for analysis from groundwater monitoring wells associated with the site on a quarterly basis.
3. The water samples collected per Monitoring Item 2 shall be analyzed for TPH-g, BTEX, and the fuel oxygenates MTBE, TBA, DIPE, ETBE, and TAME. EPA Method 8260 shall be used for analysis of the fuel oxygenates.
4. All laboratory analyses shall be performed at a laboratory certified by the California Department of Health Services.

OZONE MONITORING

1. Groundwater samples shall be collected from all site monitoring wells and used to monitor the ozone remediation system. Groundwater samples shall be collected prior to the beginning of ozone injection, one week after ozone injection begins, one month after ozone injection begins, and quarterly thereafter for analysis for the following parameters: dissolved oxygen (DO), oxidation-reduction potential (ORP), temperature, conductivity, pH, bromide, bromate, acetone, dissolved hexavalent chromium, dissolved vanadium, dissolved selenium, and dissolved molybdenum. DO, ORP, temperature, pH, and conductivity shall be measured in the field. The laboratory reporting limit for hexavalent chromium should be no higher than 5 µg/L and the laboratory reporting limit for bromate should be no higher than 10 µg/L.

REPORTING

1. Quarterly monitoring reports shall be submitted to this office in accordance with the following schedule:

<u>Quarter</u>	<u>Reporting Period</u>	<u>Due Date</u>
1	January, February, March	May 1
2	April, May, June	August 1
3	July, August, September	November 1
4	October, November, December	February 1

2. A groundwater elevation contour map shall be included for each set of measurements and shall include the following:
- a) location of the facilities;
 - b) location of the monitoring wells with elevation measurements shown for each well;
 - c) location of the former underground tanks; and
 - d) groundwater flow pattern including the direction of the groundwater gradient.
3. A contamination isogram map shall be included for each significant pollutant detected during the monitoring events and shall include the following:
- a) location of the facilities;
 - b) location of the monitoring wells with groundwater contaminant concentrations shown for each well; and
 - c) location of the former underground tanks.
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;
 - d) quantification limits employed for non-detect analytical results, and
 - e) analytical method.
5. All current and previous remedial system operation and maintenance activities shall be reported in the monitoring reports.
6. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of collection and person collecting; 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.

7. 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

July 27, 2006

(QuickStopM&R Program OrderR1-2006-0083)