California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2009-0062
(Rescinding and Replacing 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 groundwater monitoring wells MW-1, MW-3, MW-4, MW-5 and MW-8 at a quarterly frequency and all wells at a semiannual frequency during the 1st and 3rd quarter monitoring events. The data generated from the elevation readings must be referenced to the same elevation datum used for the electronic GeoTracker survey values.

2. Groundwater in monitoring wells MW-1, MW-3, MW-4, MW-5, MW-8 and MW-3B shall be monitored quarterly for dissolved oxygen (DO), oxidation-reduction potential (ORP), temperature, conductivity, and pH. All wells shall be monitored for these parameters semiannually during the 1st and 3rd quarter monitoring events.

3. Groundwater in each monitoring well shall be sampled according to Table 1 (attached). The analysis shall be performed by a state certified laboratory for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, xylene (collectively identified as BTEX), di-isopropyl ether, ethyl tert butyl ether, methyl tert butyl ether, tert-amyl butyl ether, tert-butyl alcohol (collectively identified as fuel oxygenates), and dissolved hexavalent chromium (Cr 6+). The laboratory reporting limit for hexavalent chromium should be no higher than 5 μg/L.

REPORTING

4. Monitoring reports shall be submitted semiannually to this office in accordance with the following schedule:

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

5. 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.

6. 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.

7. 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.

8. All remedial system operation and maintenance activities shall be reported in the monitoring reports.

9. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of sample collection and person collecting; and signed laboratory sheets including quality control data and explanations of analytical anomalies, if any.

10. 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 8, 2009

Table 1

Well ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
MW-1	TPH-g, BTEX, Fuel Oxygenates, Cr6+	TPH-g, BTEX, Fuel Oxygenates, Cr6+	TPH-g, BTEX, Fuel Oxygenates, Cr6+	TPH-g, BTEX, Fuel Oxygenates, Cr6+
MW-2	TPH-g, BTEX, Fuel Oxygenates		TPH-g, BTEX, Fuel Oxygenates	
MW-3	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates
MW-4	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates
MW-5	TPH-g, BTEX, Fuel Oxygenates, Cr6+	TPH-g, BTEX, Fuel Oxygenates, Cr6+	TPH-g, BTEX, Fuel Oxygenates, Cr6+	TPH-g, BTEX, Fuel Oxygenates, Cr6+
MW-6	TPH-g, BTEX, Fuel Oxygenates		TPH-g, BTEX, Fuel Oxygenates	
MW-7	TPH-g, BTEX, Fuel Oxygenates, Cr6+		TPH-g, BTEX, Fuel Oxygenates, Cr6+	
MW-8	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates
MW-9	TPH-g, BTEX, Fuel Oxygenates		TPH-g, BTEX, Fuel Oxygenates	
MW-1B	TPH-g, BTEX, Fuel Oxygenates		TPH-g, BTEX, Fuel Oxygenates	
MW-2B	TPH-g, BTEX, Fuel Oxygenates		TPH-g, BTEX, Fuel Oxygenates	
MW-3B	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates	TPH-g, BTEX, Fuel Oxygenates
MW-4B	TPH-g, BTEX, Fuel Oxygenates		TPH-g, BTEX, Fuel Oxygenates	