

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2012-0118

For

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dba ARCO A & M Mini Mart

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Case No. 1TSR150

Sonoma 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 semi-annual 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 Discharger named above is required to comply with the following:

MONITORING

1. The presence of floating product shall be evaluated in the wells specified for depth to groundwater measurements below. If floating product is detected, the thickness shall be measured to the nearest 0.01 foot increment.
2. Prior to the semi-annual sampling, groundwater elevations shall be measured in monitoring wells MW-1A, MW-2, MW-3, MW-4, MW-5A, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12A, MW-13, MW-24, MW-26, MW-28, and MW-30. Groundwater elevations shall also be measured in any subsequently installed monitoring wells prior to semi-annual sampling. Depth to groundwater measurements shall be recorded to the nearest 0.01 foot increment.
3. Prior to sampling, monitoring wells shall be purged of at least three casing volumes of water, or until dry. Monitoring wells shall be allowed to recharge to at least 80% of the initial casing volume prior to sampling. All purge water shall be impounded pending analysis for proper disposal.
4. Chemical analyses required by this Order shall be conducted by laboratories certified for those analyses by the California Department of Health Services.

5. Groundwater samples shall be collected for analysis semi-annually during the first and third calendar quarters from monitoring wells MW-1A, MW-3, MW-4, MW-5A, MW-6, MW-7, MW-11, MW-12A, MW-13, MW-26, MW-28, and MW-30. Subsequently installed monitoring wells shall also be sampled semi-annually.
6. Groundwater samples shall be analyzed for the following constituents:
 - a. Total Petroleum Hydrocarbons measured as gasoline and as diesel;
 - b. Benzene, toluene, ethyl benzene, and xylenes; and
 - c. Fuel oxygenates: methyl tertiary-butyl ether, tertiary-amyl methyl ether, and tertiary butanol.

REPORTING

Groundwater monitoring reports shall be submitted semi-annually in paper format to the Regional Water Board according to the following schedule:

<u>Report</u>	<u>Monitoring Period</u>	<u>Report Due Date</u>
First Semi-annual	January through March	April 30
Second Semi-annual	July through September	October 31

All reports, workplans, and laboratory analytical data submitted for the site shall also be submitted in electronic format to the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as specified in Sections 3890-3895 of the California Code of Regulations (Title 23, Division 3, Chapter 30, Article 2).

Each semi-annual monitoring report shall include the following information:

- A. A site plan, showing significant features such as monitoring wells, current and former underground storage tank locations, on-site structures, and subsurface utilities.
- B. A table of groundwater elevation measurements presenting the surveyed elevations of each well reference point, the 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.
- C. Groundwater elevation maps for each monitored water-bearing zone showing monitoring points, iso-elevation contour lines, groundwater flow direction and gradient.
- D. A contaminant distribution map showing the latest groundwater analytical results for the most significant pollutant or pollutants detected in each sampled water-bearing zone.

- E. Analytical data tables summarizing the current and historical analytical results for all permanent groundwater monitoring points. The tables must include the sampling point name, date of sample collection, analytical results for each constituent, and quantification limits employed for non-detect analytical results.
- F. 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 reports including quality control data and explanations of analytical anomalies, if any. Monitoring reports shall also identify the type of instruments that were used for field-measured data, and shall include copies of the pre- and post-calibration records or provide other assurance for field data quality. These supporting documents may be included as appendices in the report.
- G. A discussion of analytical results, data quality, the status of remedial activities and recommendations for additional investigation or mitigation measures to address any concerns.
- H. 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.
- I. All newly installed monitoring wells will be sampled quarterly for one year for the contaminants applicable to the area of well installation.

Ordered by _____
Matthias St. John
Executive Officer

December 11, 2012