

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2009-0081
Rescinding and Replacing
Monitoring and Reporting Program No. 92-81 (Revised February 4, 1993)

FOR

CONOCOPHILLIPS COMPANY

Unocal #5671
3551 Cleveland Avenue
Santa Rosa
CASE NO. 1TSR026

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 semiannual basis. 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.

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

MONITORING

1. Prior to purging, the depth to groundwater shall be determined to at least 0.01 foot increments in all groundwater monitoring wells semiannually, except for those wells actively being used for extraction. 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 semiannual basis during the first and third quarters of the year.
3. The water samples collected per Monitoring Item 2 above shall be analyzed for TPH-Gasoline, TPH-Diesel (with silica gel cleanup), Benzene, Toluene, Ethylbenzene, Xylenes, fuel oxygenates Methyl-t-Butyl Ether (MTBE) and Tert-Butyl Alcohol (TBA), 1,2-Dichloroethane (1,2-DCA), dissolved cadmium and dissolved lead . EPA Method 8260 shall be used for analysis of the fuel oxygenates. Measurements for free product thickness shall also be collected from each groundwater monitoring well, prior to sample collection.
4. All laboratory analyses shall be performed at a laboratory certified by the California Department of Health Services. Analytical methods for sample analyses shall

achieve practical quantification reporting limits that are adequate for evaluating regulatory action levels for each constituent.

REPORTING

1. Semiannual monitoring reports shall be submitted to the Regional Water Board in accordance with the following schedule:

<u>Quarter</u>	<u>Reporting Period</u>	<u>Due Date</u>
1	January, February, March	May 1
3	July, August, September	November 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 former and current underground storage tanks and dispenser islands; 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 former and current underground storage tanks and dispenser islands.
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, maintenance and sampling activities shall be reported in the semiannual monitoring reports. Monitoring wells used for active remediation during the reporting period shall be identified in each monitoring report.
6. 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 field

sampling technician; 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. Past monitoring well analytical results, including those of destroyed monitoring wells, shall be included with the current results.
8. Monitoring reports shall be prepared by or under the supervision of a California Registered Engineer or Geologist.
9. 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 30, 2009