

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2010-0024
(Rescinding and Replacing Monitoring and Reporting Program No. R1-2006-0063)

For

ConocoPhillips
Unocal Bulk Plant #0220 (Former)
720 North Franklin Street
Fort Bragg, California

Mendocino County

MONITORING

1. The depth to groundwater in all monitoring wells shall be determined to at least 0.01 foot increments semi-annually¹. The data generated from the elevation readings must be referenced to mean sea level.
2. Groundwater in each monitoring well shall be monitored semi-annually for dissolved oxygen, dissolved carbon dioxide, oxidation-reduction potential, pH, temperature, and conductivity.
3. Groundwater in each monitoring well shall be sampled according to Table 1 (Attached). The analyses shall be performed by a state certified laboratory for total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel (TPH-d), benzene, toluene, ethylbenzene, and xylenes (BTEX).
4. Groundwater monitoring wells MW-1, MW-2, MW-3, MW-4, MW-8 and MW-11 shall be sampled semi-annually for the following parameters: bromide, bromate (reporting limit shall be no higher than 10 µg/L), and dissolved hexavalent chromium (reporting limit shall be no higher than 5 µg/L). (Collectively referred to as ADDITIONAL).

REPORTING

1. The following maps shall be submitted with each semi-annual monitoring report:
 - a. A map of the facility showing the groundwater flow pattern, including the direction of the groundwater gradient and the location of all monitoring wells; and
 - b. A map of the facility showing the chemical concentrations.
2. The results of measured groundwater elevations shall be reported in a tabular form indicating the surveyed elevations of each reference point, depth to groundwater from the reference point, and the actual groundwater elevation.
3. Sampling analytical and monitoring data from each sampling event shall be summarized in tabular form, including all previously generated sampling data.
4. Monitoring reports shall be submitted to the Regional Water Board at a semi-annual frequency. Monitoring reports shall be prepared by or under the supervision of a California Registered Engineer or Geologist. Monitoring reports shall be submitted to this office in accordance with the following schedule:

¹ For the purpose of this Monitoring and Reporting Program, semi-annual is defined by the 1st and 3rd quarters of each calendar year.

<u>Reporting Period</u>	<u>Due Date</u>
January, February, March (1 st Quarter)	April 30
July, August, September (3 rd Quarter)	October 30

5. All monitoring reports, data, and depth to groundwater measurement 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 16, Article 12 of the California Code of Regulations (i.e., AB2886 electronic reporting requirements)²
6. An annual report shall be submitted to the Regional Water Board by January 30 of each year. The annual report serves as a document to evaluate data generated throughout each calendar year. This report needs to include a full evaluation of all data generated throughout the year, including concentration trend evaluation for all analyses performed, evaluation of all indicator parameters in terms of remedial effectiveness, conditions of the remedial system, and an overall evaluation of the effectiveness of the active remedial system.
7. The annual report shall also include all maintenance and operations records for the entire year. Records should include date of inspections, parameters measured, summary of visual observations made, and changes made to the operating system.

Ordered by

Catherine Kuhlman
Executive Officer

February 11, 2010

² Information on AB2886 electronic reporting can be obtained on the Internet by following the Electronic Submittal of Information link on the GeoTracker home page at <http://geotracker.waterboards.ca.gov/>.

Table 1

Well ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
MW-1	TPH-g, TPH-d, BTEX, ADDITIONAL		TPH-g, TPH-d ADDITIONAL	
MW-2	TPH-g, TPH-d, ADDITIONAL		TPH-g, TPH-d ADDITIONAL	
MW-3	TPH-g, TPH-d ADDITIONAL		TPH-g, TPH-d ADDITIONAL	
MW-4	TPH-g, TPH-d, BTEX, ADDITIONAL		TPH-g, TPH-d ADDITIONAL	
MW-5	TPH-g, TPH-d		TPH-g, TPH-d	
MW-6	TPH-g, TPH-d			
MW-7	TPH-g, TPH-d			
MW-8	TPH-g, TPH-d, BTEX, ADDITIONAL		TPH-g, TPH-d ADDITIONAL	
MW-9	TPH-g, TPH-d			
MW-10	TPH-g, TPH-d		TPH-g, TPH-d	
MW-11	TPH-g, TPH-d, BTEX, ADDITIONAL		TPH-g, TPH-d ADDITIONAL	
MW-12	TPH-g, TPH-d, BTEX		TPH-g, TPH-d	
MW-14	TPH-g, TPH-d			
MW-15	TPH-g, TPH-d			
MW-16	TPH-g, TPH-d			