

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2004-0008
(Replaces Monitoring and Reporting Program No. 97-104)

for

Unocal Corporation
359 Main Street
Fortuna, California

Humboldt County

MONITORING

1. The presence of floating product shall be evaluated in each monitoring well semiannually. If detected, the thickness shall be measured to at least 0.01 foot increments semiannually.
2. The depth to groundwater in each monitoring well shall be determined to at least 0.01 foot increments semiannually. The results of each event's elevation shall be reported in tabular form indicating the surveyed elevations of each well reference point, depth to groundwater from reference point, and the actual groundwater elevation. The data generated from the elevation readings must be referenced to mean sea level.
3. Each monitoring well shall be sampled according to the following table. The analyses shall be performed at a certified laboratory for Total Petroleum Hydrocarbons as gasoline (TPH-G), Total Petroleum Hydrocarbons as diesel (TPH-D), benzene, ethylbenzene, toluene, AND xylene (collectively identified as BTEX).

WELL	SEASONAL HIGH GROUNDWATER		SEASONAL LOW GROUNDWATER	
MW-1	TPH-G, TPH-D, BTEX		TPH-G, TPH-D, BTEX	
MW-2	TPH-D			
MW-3	TPH-G, TPH-D, BTEX		TPH-G, TPH-D, BTEX	
MW-4	TPH-G, TPH-D, BTEX		TPH-G, TPH-D, BTEX	
MW-5	TPH-G, TPH-D, BTEX		TPH-G, TPH-D, BTEX	
MW-6	TPH-G, TPH-D, BTEX		TPH-G, TPH-D, BTEX	
MW-7	TPH-D			
MW-8	TPH-D			
MW-9	TPH-D			
MW-10	TPH-D			
	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
MW-13	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX
MW-14	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX
MW-15	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX	TPH-G, TPH-D, BTEX

REPORTING

A groundwater elevation contour map shall be submitted for each semiannual set of measurements and for each separate water bearing zone. The map shall include the facility, groundwater flow pattern including the direction of the groundwater gradient, and the location of the wells measured. Semiannual monitoring reports, including gradient data and sampling data, shall be submitted to this office in accordance with the following schedule:

Reporting Period

Due Date

January, February, March, April, May, June
July, August, September, October, November, December

July 15
January 15

Ordered by

Catherine Kuhlman
Catherine E. Kuhlman
Executive Officer

January 16, 2004