

California Regional Water Quality Control Board  
North Coast Region

Monitoring and Reporting Program No. R1-2011-0099  
(Replaces Monitoring and Reporting Program No. R1-2010-0082)

FOR

Crescent Shell  
890 L Street  
Crescent City, CA

Del Norte 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 biannual basis and are intended to reflect high and low groundwater conditions at the Site. Site-specific historic data indicates that low groundwater typically occurs in the September to November time frame and high groundwater typically occurs in the January through April time frame. Hence, this order's biannual reporting reflects these historic data. 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 through seasonal fluctuations at the Site and off-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 all monitoring wells semi-annually. If detected, the thickness shall be measured to at least 0.01 foot increments biannually.
2. The depth to groundwater in all monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8) shall be determined to at least 0.01 foot increments biannually. The results of each biannual elevation measurement shall be reported in tabular form indicating the surveyed elevations of each well reference point, depth to groundwater from the reference point, and the actual groundwater elevation. The data generated from the elevation readings must be referenced to mean sea level.
3. Monitoring wells MW-1, MW-2, MW-5, and MW-8 will be sampled biannually. Collected groundwater samples will be analyzed at a State-certified laboratory for Total Petroleum Hydrocarbons as diesel, Total Petroleum Hydrocarbons as motor oil, Total Petroleum Hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and fuel oxygenates (MTBE, DIPE, TAME, ETBE, TBA).

4. All investigation-derived waste (IDW) will be controlled and disposed of in a fashion consistent with California laws and regulations. Documentation regarding IDW disposal shall accompany each biannual monitoring report.
5. All implemented work shall be done under the direct supervision of a California-licensed Registered Civil Engineer or Professional Geologist with demonstrated experience in the implementation of monitoring and reporting programs required by the California Regional Water Board.

## **REPORTING**

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

<b><u>Reporting Period</u></b>	<b><u>Due Date</u></b>
First Biannual Effort	July 30
Second Biannual Effort	January 30

All data and reports shall be electronically submitted in the proper format to the State Water Resources Control Board's GeoTracker Database.

Ordered by \_\_\_\_\_

Catherine Kuhlman  
Executive Officer

September 12, 2011