

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program Order No. R1-2012-0023
(Replaces Monitoring and Reporting Program Order No. R1-2010-0073)

For

Otten Distributing and C. Renner Petroleum Bulk Plant
Front and D Streets
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 semi-annual basis. The objective of monitoring conducted under this monitoring program is to provide the Discharger and the Regional Water Quality Control Board with information concerning groundwater quality and contaminant trends 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 annually during the mid-September sampling event when groundwater is at its historically lowest level. If detected, the thickness shall be measured to at least 0.01 foot increments.
2. The depth to groundwater in all monitoring wells shall be determined to at least 0.01 foot increments during the mid-April and mid-September events when groundwater is at its historically highest-level and lowest-level, respectively. The results of each effort's 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. The Site has core and non-core monitoring wells. This differentiation is based on hydraulic position and/or lack of measuring constituents of concern (COCs). Core monitoring wells include; MW-1, MW-2, MW-4, MW-5, MW-6, and MW-10. Non-core wells include MW-3, MW-7, and MW-11. All core wells will be sampled in mid-April and mid-September. All non-core wells will be sampled only in mid-April during the spring when groundwater is typically at its highest elevation. Collected groundwater samples will be analyzed at a State-certified laboratory for COCs that include; 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).

Polynuclear aromatic hydrocarbons only need to be measured in core wells during the mid-April event when groundwater is typically at its highest elevation.

4. Individual well graphs for all measured COCs shall be constructed to industry standards using first-order decay technique and extrapolation to estimate the time to reach numeric WQOs. This data will establish the temporal trend of all COCs in all core wells to estimate the time to reach numeric water quality objectives (WQOs) for each COC. Numeric WQO values for each COC shall be shown on each graph as a solid horizontal line.
5. 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 semi-annual monitoring report.
6. 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 program orders required by the California Regional Water Board.

REPORTING

A groundwater elevation contour map shall be submitted semi-annually with the set of water-level measurements and include the facility, groundwater flow pattern including the direction of the groundwater gradient, and the location of the wells measured. Semi-annual monitoring reports, including gradient data and sampling data, and temporal graphs to reach WQOs shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Due Date</u>
Mid-April	June 15
Mid-September	November 15

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

January 13, 2012