

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM ORDER NO. R1-2013-0020
(Rescinds and Replaces Monitoring and Reporting Program Order No. R1-2012-0113)

FOR

PACIFIC GAS & ELECTRIC COMPANY
EUREKA MANUFACTURED GAS PLANT
1206 14TH Street
Eureka, California

Humboldt County
Case No. 1NHU282

This Monitoring and Reporting Program is issued pursuant to California Water Code Section 13267(b) and requires monitoring of groundwater and submission of technical reports. Reports are required on a semiannual basis. All monitoring reports shall be submitted to the Regional Water Board in accordance with the reporting schedule. 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 at the site.

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

MONITORING ELEMENTS
Groundwater Monitoring

1. The depth to groundwater in all monitoring wells shall be measured to at least 0.01 foot increments semiannually during each site-wide groundwater monitoring event. The groundwater elevations shall be calculated with respect to mean sea level. Because B-Zone groundwater elevations are influenced by tidal fluctuations, the timing of groundwater elevation collection is critical. Groundwater elevation measurements within a subset of B-Zone monitoring wells shall be collected concurrently, either using electronic data loggers or using manual methods within an approximate 5 minute timeframe. These wells include MW-1B,-3B, -4B, -5B, -7B, -8B, -20B1 and -21B1. Elevations shall be reported in tabular form indicating the surveyed elevation (California State Plane NAD 83) of each well reference point, depth to groundwater from referenced point, and the actual groundwater elevation.
2. Field parameters pH, temperature, and specific conductance shall be collected from each well on a semiannual frequency.
3. Contour maps shall be developed showing groundwater elevations at each monitoring well along with the depiction of groundwater flow directions and horizontal gradients. For B-Zone groundwater maps, only those data collected concurrently from the subset of monitoring wells listed above in Item 1 shall be used to determine the groundwater flow directions and horizontal gradients.
4. The detection and thickness of separate phase product in any monitoring wells shall be determined during each sampling event.

5. Each groundwater monitoring well shall be sampled in accordance with Table 1. The analyses shall be performed at a State-certified laboratory using United States Environmental Protection Agency (USEPA) test methods. For any samples that report detectable concentrations of Total Petroleum Hydrocarbons as diesel (TPH-D), or Total Petroleum Hydrocarbons as motor oil (TPH-MO), subsequent analysis shall be completed following a silica gel cleanup procedure.

REPORTING

6. A groundwater elevation contour map shall be submitted semiannually 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. Semiannual monitoring reports, including gradient data and sampling data shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Due Date</u>
January - June	July 30
July - December	January 30

7. 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.
8. Each report shall contain copies of the chain of custody including the date and time of sample collection, the name of the person collecting the samples, and the signed laboratory sheets including QA/QC. All laboratory analyses must be performed by a laboratory certified for those analyses by the State of California Department of Health Services.

Original Signed By David Leland For
Ordered by _____
Matthias St. John
Executive Officer
February 21, 2013