

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program
Order No. R1-2018-0045
(Rescinds and Replaces Monitoring and Reporting Program No. R1-2012-0113)

for

Pacific Gas & Electric Company (PG&E)

PG&E Manufactured Gas Plant (MGP) Eureka
1206 West 14th Street
Eureka, California

Case No. 1NHU282

Humboldt County

This Monitoring and Reporting Program Order is issued pursuant to California Water Code Section 13267 (b) and requires monitoring of groundwater and submission of technical reports. The objective of monitoring conducted under this monitoring program is to provide the Dischargers and the Regional Water Board with information concerning groundwater quality and pollutant trends at the site, necessitated by the historic discharge of waste to the subsurface. The burden, including costs, of these reports bears a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

This Monitoring and Reporting Program rescinds and replaces Monitoring and Reporting Program No. R1-2012-0113.

The failure to furnish any of the required reports, or the submittal of substantially incomplete reports or false information, is a misdemeanor, and may result in additional enforcement actions being taken against the Discharge, including issuance of an Administrative Civil Liability (ACL) Complaint pursuant to Water Code section 13268. Liability may be imposed pursuant to Water Code section 13268 in an amount not to exceed one thousand dollars (\$1,000) for each day in which the violation occurs.

Under the authority of California Water Code section 13267, the Dischargers named above are required to comply with the following:

MONITORING

1. Prior to purging, the depth to groundwater shall be determined to at least 0.01-foot increments in all groundwater monitoring wells during each monitoring event.

2. Prior to purging, the presence of floating product shall be evaluated in the B-zone monitoring well during each monitoring event. If floating product is detected, the thickness shall be measured to the nearest 0.01-foot increment. Floating product measurements, to at least 0.01-foot increments, and the presence of sheen, shall be reported in each groundwater monitoring report.
3. Groundwater samples from monitoring wells shall be collected quarterly for the first year, semiannual the second year and annually thereafter. The groundwater monitoring wells to be monitored are identified in Appendix 1 of this Monitoring and Reporting Program.
4. All groundwater monitoring well samples shall be analyzed for the following:
 - a. Total petroleum hydrocarbons as diesel (TPHD) and as motor oil (TPHmo) by USEPA Method 8015B or equivalent.
 - b. Polynuclear aromatic hydrocarbons by USEPA Method 8270C or equivalent.
5. Any new wells will also be sampled for benzene, toluene, xylenes, and ethylbenzene by USEPA Method 8260B (or equivalent) for one year
6. All laboratory analyses shall be performed at a California certified laboratory. Analytical methods for sample analyses shall achieve practical quantitation limits that are adequate for evaluating regulatory action levels for each constituent.

REPORTING

1. Semiannual monitoring reports shall be submitted to the Regional Water Board in accordance with the following schedule:

Sampling Period	Due Date
First Quarter – January - March Second Quarter – April - June	August 15 of the same year
Third Quarter – July- September Fourth Quarter – October- December	February 15 of following year

2. After 2 years, annual monitoring reports shall be submitted to Regional Water Board by February 15 of following year
3. Monitoring data and reports shall be submitted to the Regional Water Board via the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as specified in Title 23, Division 3, Chapter 30, Article 2, Sections 3890-3895 of the California Code of Regulations.

4. Monitoring reports shall be prepared by or under the supervision of a California Professional Civil Engineer or Geologist.
5. The groundwater elevation data calculated from the depth to water measurements shall be referenced to the same elevation datum used for GeoTracker.
6. Each annual and semi-annual monitoring report shall include the following elements:
 - a. A narrative description of the work conducted.
 - b. Field notes and/or sampling logs documenting such activities as well purging, aquifer parameter testing, well recharge prior to sampling.
 - c. Chain-of-custody documentation.
 - d. Laboratory reports, including QA/QC data.
 - e. An accurately scaled site plan showing all sampling points in relation to significant site features.
 - f. Groundwater elevation contours plotted at the same scale as the site plan.
 - g. Groundwater contaminant concentrations plotted at the same scale as the site plan.
 - h. Tabular results of the depth to groundwater measurements indicating the surveyed elevations of each reference point, depth to groundwater from the reference point, and the actual groundwater elevation.
 - i. Data tables summarizing all current and historical analytical data for the site constituents of concern for each sampling station.

Ordered by _____

Matthias St. John
Executive Officer

July 18, 2018

Appendix 1 Monitoring Wells to be Sampled
<p><u>A-Zone Wells</u></p> <p>MW-01A MW-08A MW-09A MW-10A MW-11AR MW-17A MW-26A¹ MW-27A¹ MW-28A¹ MW-29A¹</p> <p><u>B-Zone Wells</u></p> <p>MW-22B¹ MW-23B¹ MW-24B¹ MW-25B¹</p>
Note: ¹ New wells