

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. R1-2016-0014

for

Pacific Gas & Electric Company
Discharges of Water from Underground Utility Structures Under
General Waste Discharge Requirements Order 2003-0003-DWQ

This Monitoring and Reporting Program (MRP) describes requirements for monitoring intermittent discharges that occur from utility vaults or other underground structures. This MRP is issued pursuant to Water Code section 13267. Pacific Gas & Electric (Discharger) shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board (Regional Water Board) Executive Officer.

The Discharger controls the discharge that is subject to the Notice of Applicability (NOA) of Water Quality Order 2003-0003-DWQ (General Order). The monitoring reports are necessary to ensure that the Discharger complies with the NOA and General Order. Pursuant to Water Code section 13267, the Discharger shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of wastewater sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to who samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Board California Environmental Laboratory Accreditation Program certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

VAULT WATER DISCHARGE MONITORING

All vault water shall be characterized consistent with the vault discharge report prepared by the Discharger. A copy of the vault discharge report is attached to this MRP (Attachment A). A vault discharge report shall be completed for each vault that is dewatered. All fields must be completed on each vault discharge report. Copies of the vault discharge reports shall be submitted with the annual report. The vault discharge reports may be submitted in electronic or paper format.

VAULT DISCHARGE WATER COLLECTION AND ANALYSIS

A minimum of five samples of vault water shall be collected each year for chemical characterization. The samples shall be collected from vaults located within the boundaries of the North Coast Regional Water Board and each sample shall be collected from a separate vault. (Performing multiple sample events from the same vault is not allowed.) The samples shall be representative of the volume and nature of the discharge. In addition to the minimum five samples collected and analyzed to characterize vault water, the Discharger shall collect vault water from at least one vault containing pre-1985 equipment during annual testing and analyze the sample(s) for PCBs in accordance with the following table. All samples shall be collected after implementation of best management practices (e.g., vault water is discharged through a filter sock¹) prior to land discharge. At a minimum, effluent monitoring shall consist of the following:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>EPA Method</u> ¹	<u>Reporting Frequency</u>
pH	Std. units	Grab	SM4500-HB	Annual
Total Suspended Solids (TSS)	mg/L	Grab	SM2540D	Annual
TPH-diesel	mg/L	Grab	8015M	Annual
TPH-gasoline	mg/L	Grab	8015M	Annual
Oil and Grease	mg/L	Grab	1664A	Annual
Polychlorinated Biphenyls (PCBs) ²	µg/L	Grab	508/608/8082A	Annual

¹ EPA Method specified or equivalent.

² Only required for samples that are collected from vaults that contain electrical equipment that could contain PCBs. Upon the Discharger's request based on at least two years of monitoring results, the Regional Water Board may, at its discretion, authorize a reduction in the frequency of PCB monitoring if the discharges from vaults are routinely found to be at concentrations below the method detection level.

¹ Filter sock shall provide a filter medium and activated carbon consistent with the sock described in Pacific Gas & Electric Company's Pollution Prevention Plan (September, 2015).

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the location, date, sample type, and reported analytical or visual inspection results are readily discernible. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

Self-monitoring reports and other technical reports shall be submitted to the Regional Water Board, signed and certified as required by Standard Provisions of the General Order, to: NorthCoast@waterboards.ca.gov or on disk (CD or DVD) in a Portable Document Format (PDF) file in lieu of paper-sourced documents. The guidelines for electronic submittal of documents can be found on the Regional Water Board website at <http://www.waterboards.ca.gov/northcoast>.

B. Annual Report

Annual Reports shall be submitted to the Regional Water Board by **June 1st following the monitoring year**. The monitoring year shall consist of May 1 through April 30. The Annual Report shall include the following:

1. A completed vault discharge report for each vault in the region that was dewatered during the year. (This includes vaults from which vault water is containerized rather than applied to land.)
2. Tabular summaries of all vault water chemical characterization data collected during the year.
3. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order.
4. If requested by staff, copies of laboratory analytical report(s) and chain of custody form(s).
5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.

A letter transmitting the monitoring reports shall accompany each report. The letter shall report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

“I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.”

The Discharger shall implement the above monitoring program as of the date of this MRP.

Ordered by:

Matthias St. John, Executive Officer

March 2, 2016

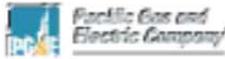
ATTACHMENT A: PG&E VAULT DISCHARGE REPORT

Pacific Gas and Electric Company



Proposed DMR Attachment A: Vault Discharge Report form template

Vault Discharge Report (VDR) Form



Note: Only trained personnel may conduct vault discharge activities/spill response/spill cleanup. If needed, contact your local Environmental Field Specialist (EFS) for assistance. After hours, call (810) 874-4043. You must contact EFS to report spills, threatened releases, or discharge of clear water exceeding 10,000 gallons.

Place Discharge Use Tracker sticker here*

Name & LAN ID [person dewatering]: _____ Employee supervisor: _____

Date: _____ Dewatering start time: _____ City: _____ County: _____

Site address or latitude/longitude: _____ Onsite reference (e.g. vault, manhole, or station number): _____

1.) Inspect the integrity of the vault and lid (cracks, leaks):

- Is there damage to vault structure? No Yes
- Is there an Automatic Sump Pump (ASP)? No Yes
- If yes, is ASP leak-free and functioning properly? No Yes N/A

2.) Inspect vault water surface to evaluate oil contamination and potential for PCBs:

- Is there an oil layer? No Yes
 - Is there a heavy oil (rainbow) sheen? No Yes
 - Is there a light oil (rainbow) sheen and potential for PCBs?³ No Yes
 - Is there a light oil (rainbow) sheen (no PCB potential)? No Yes
- If any these "Yes" boxes are selected, skip Step 3 and proceed to "Red Zone."

3.) Collect a small volume of the vault water and evaluate:

- While wearing protective gloves, collect a small volume of the vault water.
- Wait 5 minutes and record observations below.

Vault Water Characteristic	GREEN Indicator Zone		RED Indicator Zone	
	Light/None	Heavy	Light/None	Heavy
Cloudiness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil Particles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discoloration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical odor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sewage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asphalt tar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (note below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If ALL boxes checked are in this column, then discharge category is **GREEN**

If ANY box is checked in this column, then discharge category is **RED**

Comments/Notes:

RED ZONE DO NOT DISCHARGE

The vault liquids must be containerized and characterized for disposal.

EFS contacted: _____

Containerized by:

- Vacuum truck
- 50-gallon drums
- Portable tank

Estimated containerized volume (gallons): _____

Note any other actions or anomalies in "Comments"

GREEN ZONE OKAY TO DISCHARGE

- Place Discharge Use Tracker sticker above.
- Discharge vault water through filter sock.
- Monitor discharge and note observations.

Estimated discharge volume (gallons):

- <100 (small tub)
- 100-1,000 (small pod)
- 1000-5000 (lg pool)
- 5000-10,000 (vac. truck)
- >10,000⁴

Discharged to:

- Storm drain
- Waterway
- Land/natural terrain:
 - PG&E property
 - PG&E easement
 - Not PG&E property or easement, but land owner approval received & noted*

*If discharging to non-PG&E property:

Land owner name: _____ Signature: _____

¹ If filling out the VDR form digitally, type information from the Discharge Use Tracker sticker in the space provided. When no stickers remain on the filter sock, dispose of the sock properly and use new filter sock.

² Cloudiness does not place vault water in the Red Zone. Note in "Comments" if heavy cloudiness.

³ Equipment that was manufactured before January 1, 1985, or date is unknown, may contain PCBs. If water from a vault containing pre-1985 equipment has an oil sheen, it is **not** to be discharged.

⁴ For liquid volumes greater than 10,000 gallons, you must note the volume and contact EFS prior to discharging.

Send completed form within 7 days to:

Vault Discharge Program Manager
 3401 Crow Canyon Road
 San Ramon, CA 94583

or send via email to:
vaultdischarge@pge.com