



Central Valley Regional Water Quality Control Board

Day Month 2025

Mark Scheuer
Vice President, Environmental, Health & Safety
AMETEK, Inc.
1100 Cassatt Road
P.O. Box 1764
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[TENTATIVE] NOTICE OF APPLICABILITY FOR WASTE DISCHARGE REQUIREMENTS GENERAL ORDER FOR IN-SITU REMEDIATION AND DISCHARGE OF TREATED GROUNDWATER TO LAND, R5-2015-0012, AMETEK VALLEY FOUNDRY, 2510 SOUTH EAST AVENUE, FRESNO COUNTY (GLOBAL ID SL0601972778)

AMETEK Inc. (hereafter Discharger) submitted a *Revised Notice of Intent Application* dated 7 November 2024 and prepared by ERM. A pilot test is proposed to assess the feasibility of remediation of chemicals in groundwater by in-situ bioremediation (ISBR) injections. Implementation of ISBR will involve injecting a reagent (soluble sulfate, ferrous iron, and carbon substrate) and an emulsified organic carbon substrate into groundwater along with microbes. Based on information in the submittal, it is the Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff determination that the project meets the requirements for implementation under Order No. R5-2015-0012, subject also to the conditions specified below. All of the requirements contained in the General Order are applicable to the project. The project is assigned Order No. **R5-2015-0012-XXXX**.

Project Location:

The project is to be implemented at 2510 S. East Avenue in Fresno, Fresno County (Site). The proposed remedial activities are to be implemented near the source zone of the Site.

Project Description:

The Site is in an industrial/commercial area in the city of Fresno, California and is approximately 47 acres in size, subdivided into 14 parcels used for commercial and light manufacturing. The Site was developed in 1949 by Valley Foundry for use in manufacturing and repairing winemaking equipment and was acquired by the Discharger in 1969. The Discharger initially used the Site to produce winemaking

equipment. Operations shifted to production of polypropylene foam packaging materials in 1986 and shifted again to the handling of packaging materials from 1991 through 1995. Investigations at the Site have identified trichlorofluoromethane (Freon-11) as the constituent of concern (COC) in groundwater beneath the Site.

The proposed pilot study involves using a reagent mixture of GeoForm Soluble™ (a combination of sulfate, ferrous iron, and carbon substrate) and ELS (emulsified organic carbon) with a concentration of approximately 3,300 milligrams per liter. This will be injected utilizing an injection well, IW-1, installed in the former manufacturing area (source area) in 2023. To enhance microbial degradation of Freon-11, Dehalococcoides bacteria (SDC-9®) will be added to the reagent mixture. A water conditioning agent, consisting of sodium ascorbate and ferrous chloride, will be used to remove chloramines and dissolved oxygen before mixing the reagent. Fluorescein dye will be added to track distribution. The reagents and concentrations may be adjusted based on monitoring data or permit feedback. The target is to achieve a 20-foot radius of influence at injection well IW-1, requiring up to 9,400 gallons of fluid. The reagent will initially be injected via gravity feeding. However, if adequate injection rates are not feasible, the mixture will be injected under pressure. To evaluate the distribution of the injections, groundwater parameters in MW-7R will be monitored. In addition, five new wells (MW-14 through MW-18) are proposed to be installed to monitor groundwater conditions near the pilot test area and will be included in the Monitoring and Reporting Program.

A contingency plan has been submitted to address potential adverse effects. If chemical concentrations in any compliance well exceeds its Water Quality Objective in Table 1 of the Contingency Plan (Attachment H in the NOI application package) or if a chemical concentration exceeds its background level by 20% or more:

- The Discharger will notify Central Valley Water Board staff.
- Re-sample at the compliance well with the exceedance within 30 days. If the sampling confirms the exceedance, conduct sampling for three consecutive quarters in the well to evaluate the trend.
- Evaluate the risks/hazards to potential receptors.
- Identify a corrective measure, if warranted, which may include additional sampling of the existing monitoring wells in the network or collecting grab groundwater samples to establish the extent of the exceedance.
- Implement the corrective measure.
- Conduct performance monitoring for the selected remedy.

Conditions of Approval

1. The project will be performed in accordance with the requirements contained in General Order No. R5-2015-0012 and in accordance with the information submitted in the Work Plan, Notice of Intent, and specified in this Notice of Applicability.

2. The required annual fee (as specified in the annual billing you will receive from the State Water Resources Control Board) shall be submitted until this Notice of Applicability is officially revoked.
3. Injection of any material other than those specified above into the proposed injection points is prohibited.
4. The General Order requires a contingency plan for corrective actions should water quality exceed the requirements of the Order at the points of compliance. The General Order prohibits concentrations of metals, total dissolved solids, or electrical conductivity more than 20 percent greater than their respective baseline levels. The Discharger will implement one or more of the corrective action measures outlined in the contingency plan and as deemed necessary by the Central Valley Water Board.
5. Failure to abide by the conditions of the General Order could result in an enforcement action as authorized by provisions of the California Water Code.
6. The Discharger shall comply with the attached Monitoring and Reporting Program, Order No. **R5-2015-0012-XXXX**, and any revisions thereto as ordered by the Executive Officer.

If you have any questions regarding the information in this letter or regarding the technical aspects of this project, you may contact Paul Dotson, the Central Valley Water Board's project manager, at (559) 445-5525 or paul.dotson@waterboards.ca.gov.

Patrick Pulupa
Executive Officer

Attachments: Monitoring and Reporting Program Order No. R5-2015-0012-XXXX

cc: Fresno County Environmental Health Department, Fresno
Ryan Teoxon, ERM, Irvine, CA