
Central Valley Regional Water Quality Control Board

30 November 2022

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NOTICE OF APPLICABILITY OF GENERAL ORDER NO. R5-2015-0012-079, COPPERWOOD SHOPPING MALL, 7000 SUNRISE BLVD, CITRUS HEIGHTS, SACRAMENTO COUNTY

SCS Engineers (SCS) submitted on behalf of Copperwood SPE – MW LLC (Discharger), a Notice of Intent (NOI) dated 17 August 2022 and the *Work Plan – Groundwater Remediation– Chemical Injection Pilot Study* (Work Plan), dated 14 April 2022, requesting coverage under Order No. R5-2015-0012, *Waste Discharge Requirements General Order for In-Situ Groundwater Remediation and Discharge of Treated Groundwater to Land* (General Order). Based on the information in these submittals, we determine that this project meets the required conditions to be covered under General Order No. R5-2015-0012. All the requirements contained in the general order apply to this project. The project is assigned Order No. R5-2015-0012-079.

Project Location:

The project is located at 7000 Sunrise Blvd., Citrus Heights, in Sacramento County. Latitude 38° 40' 29.89" N, Longitude 121° 16' 8.44" W, Assessor's Parcel Number 257-0370-001-0000

Project Description

The Copperwood Cleaners (formerly Donna's Cleaners) operated between the late 1980s and 2001. A network of 16 groundwater monitoring wells is associated with the Site. Between 2017 and 2021, concentrations of PCE have been detected in MW-4 up to 49 micrograms per liter (µg/L) and MW-5 up to 290 µg/L. The Work Plan describes investigation activities to evaluate the effectiveness of In Situ Chemical Reduction (ISCR) in reducing remaining PCE concentrations near groundwater monitoring wells MW-4 and MW-5.

The Work Plan proposes one week of direct-push drilling and injection activities in 14 borings to a total depth of 30 feet below the ground surface. A top-down injection method will be deployed, and the injection rate is estimated at 6 to 12 gallons per foot.

MARK BRADFORD, CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

An estimated 223 gallons of remediation chemicals may be injected into each borehole. The treatment will involve the injection of amendments, including Evonik ELS microemulsion and Evonik EHC Liquid Mix within the source area where PCE concentrations have been detected at a maximum concentration of 290 micrograms per liter. ELS microemulsion is composed of cold-water soluble complex food-grade carbon and nutrients, which support the reductive treatment of a wide range of groundwater contaminants. EHC Liquid Mix is a food grade organo-ferrous compound. The amendments create reducing conditions and promote enhanced reductive dehalogenation reactions. A manifold will be used to allow for injection at up to three boring locations at a maximum flow rate of 15 gallons per minute for all three areas simultaneously.

On 10 October 2022, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) circulated a fact sheet describing the project and providing interested parties with 30 days to submit comments or questions. No substantive comments were received by 9 November 2022, or as of the date of this letter.

General Information

1. The project will be operated according to the requirements of General Order No. R5-2015-0012 and following 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 materials other than Evonik ELS and EHC, pH buffer, and tap water into the subsurface is prohibited.
4. 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.
5. The Discharger shall comply with the attached Monitoring and Reporting Program, Order No. R5-2015-0012-079, and any revisions to that as ordered by the Executive Officer.

If you have any questions regarding this matter, please contact Nhat Nguyen at (916) 464-4746 or at nhat.nguyen@waterboards.ca.gov.

ORIGINAL SIGNED BY JOHN J. BAUM FOR

PATRICK PULUPA
Executive Officer

Attachment: Monitoring and Reporting Program Order No. R5-2015-0012-079

cc: (via email)

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