
Los Angeles Regional Water Quality Control Board

July 9, 2019

Mr. Vincent Bohanec
KB Gardena Building, LLC
9350 Wilshire Blvd., Suite 402
Beverly Hills, CA 90212

AUTHORIZATION TO EXPAND THE TREATMENT AREA FOR THE IN SITU CHEMICAL OXIDATION OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER – KB GARDENA BUILDING LLC, 13720 SOUTH WESTERN AVENUE, GARDENA, CA, 90249 (ORDER NO. R4-2014-0187, SERIES NO. 133, FILE NO. 18-093, CI NO.10461, GLOBAL ID WDR100040307)

Dear Mr. Bohanec:

On March 7, 2019, the Los Angeles Regional Water Quality Control Board (Regional Water Board) enrolled KB Gardena Building, LLC (Discharger) under General Waste Discharge Requirements (WDR) for In-Situ Groundwater Remediation and Groundwater Re-injection, Order No. R4-2014-0187, with Monitoring and Reporting Program (MRP) No. CI-10461 for the in situ chemical oxidation (ISCO) of volatile organic compounds (VOCs) in groundwater.

As planned, the project was to include the injection of approximately 79,500 gallons of 3% sodium permanganate solution equally into 53, 2-inch diameter wells to create an ISCO treatment zone. Of the 53 wells, 34 wells were to be in the "A" Zone, with screen from approximately 25 to 30 feet below ground surface (bgs), and 19 wells were to be in the "B" Zone, with screen from approximately 38 to 48 feet bgs.

On March 14, 2019, the Discharger submitted the *Request to Expand Treatment Area of Operating Unit 2* (Request) to the Regional Water Board. The Request indicates that perchloroethylene (PCE) concentration changes in groundwater samples from site monitoring wells demonstrate that the plume is spreading to the south. The Request proposes to expand the treatment to a paved parking area south of the initially planned injection area.

On behalf of KB Gardena Building, LLC, Environmental Applications, Inc. proposes injection of sodium permanganate at 21 additional locations (IP1 through IP21) in the south parking lot. At each location a direct push tool with screen from 22 to 24 feet bgs will inject approximately 200 gallons of 3% sodium permanganate solution, at a rate of approximately 5.6 gallons per minute (gpm). At 11 of the locations (IP1 through IP11) the tool will be pushed deeper. At the 11 locations, injection will resume at 38 feet bgs and continue in 2-foot increments to 50 feet bgs. In each 2-foot interval, approximately 170 gallons of solution will be injected, with approximately 1,020 gallons of solution injected between 38 and 50 feet bgs at each location at a rate of approximately 6.7 gpm. After injection of the solution in each 2-foot interval, approximately 150 gallons of potable water will be injected to push the solution further into the aquifer.

IRMA MUÑOZ, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

Based on our review of the information submitted, the Discharger is authorized to expand treatment area into the south parking lot as proposed. All requirements prescribed in WDR Order No. R4-2014-0187 and MRP No. CI-10461 remain in effect.

If you have any questions, please contact the Project Manager, Mr. Peter Raftery at (213) 620-6156 (Peter.Raftery@waterboards.ca.gov), or the Chief of Groundwater Permitting Unit, Dr. Eric Wu at (213) 576-6683 (Eric.Wu@waterboards.ca.gov).

Sincerely,



Renee Purdy
Executive Officer

cc: Mr. Ed Troser, ENVAPPS, South Pasadena
Dr. Chand Saltana, DTSC, Chatsworth