

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

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RESOLUTION NO. R14-008

**APPROVING THE ENVIRONMENTAL CHECKLIST AND
ADOPTING A MITIGATED NEGATIVE DECLARATION FOR
GENERAL WASTE DISCHARGE REQUIREMENTS FOR IN-SITU GROUNDWATER
REMEDICATION AND GROUNDWATER RE-INJECTION
(FILE NO. 01-116)**

WHEREAS, THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION, FINDS:

1. The California Water Code (CWC) section 13260, subdivision (a)(1) requires that any person discharging wastes or proposing to discharge wastes, other than into a community waste water collection system, which could affect the quality of the waters of the State, shall file a Report of Waste Discharge with the California Regional Water Quality Control Board, Los Angeles Region (Regional Board). The Regional Board shall then prescribe requirements for the discharge or proposed discharge of wastes.
2. Section 13263, subdivision (i), of the CWC provides that a Regional Board may prescribe general Waste Discharge Requirements (WDRs) for discharges produced by similar operations, involving similar types of wastes, and requiring similar treatment standards.
3. Wastes, including petroleum hydrocarbon fuel, volatile organic compounds and inorganic contaminants, have impacted groundwater at various sites throughout the Los Angeles Region and cause or threaten to cause adverse impacts to existing and potential beneficial uses of the region's groundwater resources. Remediation/cleanup of groundwater at these sites includes the use and application of chemical, biological, and physical treatment processes, such as oxygen enhanced process, chemical oxidation, chemical reduction, nutrient or chemical addition for enhanced biodegradation, or groundwater pump and treat technology with the return of treated groundwater to the same aquifer zone in some cases.
4. Pursuant to the section 13263 of the CWC, the Regional Board adopted General Waste Discharge Requirements Order No. R4-2002-0030 (General WDRs) on January 24, 2002, that regulated discharges of waste associated with groundwater remediation at petroleum hydrocarbon fuel, volatile organic compound and/or hexavalent chromium impacted sites. Those General WDRs have been revised by Order No. R4-2005-0030 adopted on May 5, 2005, and by Order No. R4-2007-0019, adopted on March 1, 2007. Order No. R4-2007-0019 authorized the use of a variety of materials for in-situ remediation purposes, including oxidation/aerobic degradation enhancement

compounds, reducing/reductive degradation enhancement compounds, inorganics/nutrients, carbon sources/electron donors, and study tracer compounds.

5. Since then, additional materials for in-situ remediation have come into use at sites throughout the Los Angeles Region and elsewhere to address wastes at petroleum hydrocarbon fuel, volatile organic compound, and inorganic contaminant impacted sites. Order No. R4-2014-0187 revises the existing General WDRs to accommodate the new materials that have been effectively used to remediate wastes in groundwater and soil.
6. Attachment A of Order R4-2014-0187 includes a list of materials that can be used for in-situ remediation purposes. Newly added or revised remedial materials or amendments include chemical oxidants, chemical oxidant activators, aerobic bioremediation enhancement compounds, anaerobic degradation enhancement compounds, reduction degradation enhancement compounds, metals precipitation/stabilization compounds, surfactants/co-solvents, bioaugmentation organisms, tracer study compounds, buffer solutions and pH adjusters.
7. The Regional Board is the lead agency for the project – the adoption of revised General WDRs - pursuant to the California Environmental Quality Act (CEQA) and has conducted an Initial Study (in the format of an expanded Environmental Checklist) in accordance with Title 14, California Code of Regulations, Section 15063, entitled Guidelines for Implementation of the California Environmental Quality Act. Based on the Initial Study, the Regional Board prepared a Mitigated Negative Declaration that concludes that the project will not have a significant adverse effect on the environment.
8. The Mitigated Negative Declaration identifies potentially significant environmental impacts regarding (1) Air Quality, (2) Geology and Soils, (3) Greenhouse Gas Emissions, (4) Hazards and Hazardous Materials, (5) Hydrology and Water Quality, (6) Noise, (7) Population and Housing, and (8) Transportation and Traffic. The Mitigated Negative Declaration identifies the mitigation measures and the actions to be taken to reduce the impacts to less than significant. The dischargers subject to the General WDRs are required to comply with the conditions of the WDRs and are required by the General WDRs to obtain and comply with applicable permits of other agencies. This Order includes a monitoring and reporting program to assure protection of water quality and compliance with mitigation measures.
9. Copies of the Environmental Checklist and proposed Mitigated Negative Declaration were transmitted to all agencies and persons known to be interested in the matter and they were provided an opportunity to comment.
10. The application of any materials to groundwater is intended to improve water quality, but also may result in unintended adverse impacts to groundwater quality. Any potential adverse water quality impacts that may result will be localized, of short-term duration, and will not impact any existing or prospective uses of groundwater. Groundwater quality will be monitored before addition of any materials, during treatment, and after treatment is completed to verify no long-term adverse impact to water quality.

11. *The Water Quality Control Plan, for the Los Angeles Region*, (hereafter Basin Plan) designates beneficial uses, establishes water quality objectives, contains prohibitions, contains implementation plans and policies for protecting waters of the basin, and incorporates by reference plans and policies adopted by the State Water Resources Control Board (State Board). Beneficial uses of groundwater in the Los Angeles Region include, among others: municipal and domestic supply, industrial service and process supply, agricultural supply and groundwater recharge. Beneficial uses for individual Hydrologic Sub-areas are specified in the Basin Plan. Pursuant to section 13263(a) of the California Water Code (CWC), waste discharge requirements must implement the Basin Plan.
12. The General WDRs are applicable to groundwater remediation at petroleum hydrocarbon fuel, volatile organic compound, and inorganic constituent impacted sites in the Los Angeles Region. The discharges authorized by the General WDRs are required to comply with a groundwater monitoring program as set forth in the Monitoring and Reporting Programs required by the General WDRs.
13. The requirements contained in the General WDRs are consistent with applicable water quality control plans, policies, and regulations and will protect and maintain the beneficial uses of the receiving groundwater.
14. The permitted discharge is consistent with State Water Resources Control Board Resolution No. 68-16 ("Statement of Policy with Respect to Maintaining High Quality of Waters in California", also called the "anti-degradation policy"). The General WDRs authorize the use of materials to effectively clean up wastes and contain conditions to protect waters of the State from degradation.
15. The Regional Board considered all testimony and evidence at a public hearing held on September 11, 2014, at the Metropolitan Water District of Southern California located at 700 North Alameda Street, Los Angeles, California and good cause was found to approve the Environmental Checklist and adopt a Mitigated Negative Declaration.

THEREFORE BE IT RESOLVED THAT:


1. This Regional Board hereby approves the Environmental Checklist and adopts the Mitigated Negative Declaration for the General Waste Discharge Requirements for In-Situ Groundwater Remediation and Groundwater Re-injection.
2. The application of chemical, biological and physical treatment processes, such as oxygen enhanced process, chemical oxidation, nutrient or chemical addition for enhanced biodegradation or groundwater pump and treat discharges shall conform with all the requirements, conditions, provisions and limitations set forth in the Order No. R4-2014-0187.

General Waste Discharge Requirements for In-Situ
Groundwater Remediation and Groundwater Re-injection
Resolution No. R14-008

File No. 01-116

CERTIFICATION

I, Samuel Unger, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Los Angeles Region on September 11, 2014.



Samuel Unger, P.E.
Executive Officer