

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

**MONITORING AND REPORTING PROGRAM NO. CI-8417
FOR
INSTALLATION RESTORATION SITE 14
FORMER NAVAL STATION LONG BEACH**

**ORDER NO. R4-2002-0030 (Series No. 002)
SITE ID# 16541**

I. REPORTING REQUIREMENTS

- A. The Discharger shall implement this monitoring program on the effective date of this enrollment (July 8, 2002) under Regional Board Order No. R4-2002-0030. The first monitoring report under this Program is due by July 15, 2002.

Monitoring reports shall be received by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15

- B. If there is no discharge or injection, during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.
- C. By March 1 of each year, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements.
- D. The Discharger shall comply with requirements contained in Section G of Order No. R4-2002-0030 "*Monitoring and Reporting Requirements*" in addition to the aforementioned requirements.

June 28, 2002

II. HYDROGEN RELEASE COMPOUND (HRC) INJECTION MONITORING REQUIREMENTS

The quarterly reports shall contain the following information regarding injection activities:

1. Location Map showing barriers and injection points for the HRC:
2. Written summary defining:
 - Depth of injection points;
 - Quantity of HRC injected per injection point and per vertical spacing at point;
 - Total amount of HRC injected at site; and
 - Verification of HRC compound injected.

III. GROUNDWATER MONITORING PROGRAM

A groundwater monitoring program shall be designed to detect and evaluate impacts associated with the HRC injection activities. The following shall constitute the monitoring program for Monitoring Well Nos. MW-14-D1, MW-14-D2, MW-14-D3, MW-14-S1, MW-14-S2, MW-14-S3, MW-14-S4, MW-14-S5, MW-14-S6, MW-14-S7, MW-14-S8, and MW-14-S9 (Figure 5-1). The Discharger shall conduct initial sampling from all the monitoring wells for the following groundwater parameters prior to the injection of any HRC materials and then as required below:

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Chlorinated Volatile Organic Compounds (EPA Method 8260B)	µg/l	grab	Quarterly
Total Organic Carbon (EPA Method 9060 Modified)	µg/l	grab	Quarterly
Total Dissolved Solids	mg/l	grab	Quarterly
BOD ₅	mg/l	grab	Semi-annually
pH	pH units	grab	Quarterly
Oxidation-Reduction Potential	millivolts	grab	Quarterly
Groundwater Elevation	Feet, below ground surface (bgs)	In situ	Quarterly

Dissolved Oxygen	µg/l	grab	Quarterly
Major Anions (chloride, sulfate, nitrate, nitrite, and sulfide)	µg/l	grab	Quarterly
Major Cations (Calcium, magnesium, potassium, sodium)	mg/l	grab	Quarterly
Methane, Ethene, Ethane, Carbon Dioxide	µg/l	grab	Quarterly

All groundwater monitoring reports must include, at minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler identification, and laboratory identification;
- c. Quarterly observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction.

IV. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the _____ day of _____ at _____.

_____ (Signature)

_____ (Title)"

V. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____
Dennis A. Dickerson
Executive Officer

Date: June 28, 2002