

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

**MONITORING AND REPORTING PROGRAM NO. CI-8531
FOR
CONOCOPHILLIPS COMPANY
(76 STATION NO. 3645)**

**ENROLLMENT UNDER REGIONAL BOARD
ORDER NO. R4-2002-0030 (Series No. 020)
FILE NO. 914030025**

I. MONITORING AND REPORTING REQUIREMENTS

- A. ConocoPhillips Company (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment (January 24, 2003) under Regional Board Order No. R4-2002-0030. The first monitoring report under this program for the monitoring period January – March 2003 shall be received at the Regional Board by April 15, 2003. Subsequent monitoring reports shall be received at the Regional Board according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15
Annual Summary Report	March 1 of each year

- B. Monitoring reports shall include technical information on total quantities of injected chemicals/fluids, composition of injected chemicals/fluids, and injection points/locations. 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.

January 24, 2003

II. GROUNDWATER MONITORING

The Discharger shall sample from groundwater monitoring wells BC-2, BC-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11 for baseline groundwater parameters two weeks prior to the start of the hydrogen peroxide injection. Monitoring of the groundwater remediation shall consist of samples collected from monitoring wells BC-2, BC-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11. The wells shall be monitored in accordance with the following discharge monitoring program:

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Hydrogen Peroxide	gallons/day	In situ	Daily during injection period
Total Petroleum Hydrocarbons as gasoline (EPA Method 8015M)	µg/L	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter
Total Petroleum Hydrocarbons as diesel (EPA Method 8015M)	µg/L	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter
Benzene, Toluene, Ethylbenzene, Total Xylenes, Methyl Tertiary Butyl Ether, Tertiary Amyl Methyl Ether, Tertiary Butyl Alcohol, Di-isopropyl Ether, Ethyl Tertiary Butyl Ether, Ethanol (EPA Method 8260B)	µg/L	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter
Total dissolved solids	mg/L	grab	<ul style="list-style-type: none"> • Annually
Specific Conductivity	µmhos/cm	grab	<ul style="list-style-type: none"> • Annually
pH	pH units	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter
Oxidation-reduction potential	Millivolts	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter
Temperature	°F/°C	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter
Dissolved Oxygen	µg/L	grab	<ul style="list-style-type: none"> • Monthly first month through sixth month • Quarterly thereafter

Biochemical Oxygen Demand	µg/L	grab	<ul style="list-style-type: none"> Once prior to initial injection 30 days prior to termination of cleanup
Chemical Oxygen Demand	µg/L	grab	<ul style="list-style-type: none"> Once prior to initial injection 30 days prior to termination of cleanup
Major Anions (bromide, chloride, sulfate, nitrate, nitrite, O-phosphate, and sulfide)	µg/l	grab	<ul style="list-style-type: none"> Annually
Major Cations (barium, calcium, iron, magnesium, manganese, boron, potassium and sodium)	µg/l	grab	<ul style="list-style-type: none"> Annually

All groundwater monitoring reports must include at a 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.

III. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Regional Board Executive Officer (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 supported by statistical trends of submitted monitoring data.

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)"

All records and reports submitted in compliance with this Order are public documents and will be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region, upon request by interested parties. Only proprietary information, and only at the request of the Discharger, will be treated as confidential.

Ordered by: _____
Dennis A. Dickerson
Executive Officer

Date: January 24, 2003