

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

**MONITORING AND REPORTING PROGRAM NO. CI-8660
FOR
EXXONMOBIL OIL CORPORATON
UNITED BROTHERS, INC.**

**ENROLLMENT UNDER REGIONAL BOARD
ORDER NO. R4-2002-0030 (Series No. 039)
FILE NO. I-02988**

I. MONITORING AND REPORTING REQUIREMENTS

- A. ExxonMobil Oil Corporation and United Brothers, Inc. (collectively hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment (October 31, 2003) under Regional Board Order No. R4-2002-0030. The first monitoring report under this program, for the monitoring period October – December 2003, shall be received at the Regional Board by January 15, 2004. 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. If there is no discharge during any reporting period, the report shall so state. Monitoring reports must be addressed to this 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 Requirements.
- D. Each monitoring report shall contain a separate section titled “Summary of Non-Compliance” which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.

October 31, 2003

- E. 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.

II. WATER QUALITY MONITORING

A. Influent Monitoring

Representative samples of influent shall be collected from extraction wells EW-1, EW-2 prior to any treatment (Figure 28). These sampling stations shall not be changed and any proposed change of sampling locations shall be identified and approved by the Regional Board Executive Officer (Executive Officer) prior to their use.

The following shall constitute the influent-monitoring program for the groundwater extraction wells:

<u>Constituents</u>	<u>Units</u> ¹	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Flow	gallons/day		continuous
pH ²	pH units	grab	quarterly
Temperature ²	°F	grab	quarterly
Dissolved Oxygen ²	µg/L	grab	quarterly
Total Petroleum Hydrocarbons (as gasoline)	µg/L	grab	quarterly
Benzene	µg/L	grab	quarterly
Toluene	µg/L	grab	quarterly
Ethylbenzene	µg/L	grab	quarterly
Total Xylenes	µg/L	grab	quarterly
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	quarterly
Tertiary Butyl Alcohol (TBA)	µg/L	grab	quarterly
Di-isopropyl Ether (DIPE)	µg/L	grab	quarterly
Ethyl Tertiary Butyl Ether (ETBE)	µg/L	grab	quarterly
Tertiary Amyl Methyl Ether (TAME)	µg/L	grab	quarterly
1,2,4-Trimethylbenzene	µg/L	grab	quarterly
n-propylbenzene	µg/L	grab	quarterly
Isopropylbenzene	µg/L	grab	quarterly
1,3,5-trimethylbenzene	µg/L	grab	quarterly
n-butylbenzene	µg/L	grab	quarterly
sec-butylbenzene	µg/L	grab	quarterly

¹ mg/L: milligram per liter; µg/L: microgram per liter; °F: degree Fahrenheit

² This constituent can be monitored using a field test instrument.

B. Effluent Monitoring

A sampling station shall be established at the point of discharge (the end point of the groundwater treatment system) and shall be located where representative samples of the effluent can be obtained. This sampling station shall not be changed and any proposed change of sampling location shall be identified and approved by the Executive Officer prior to its use.

The following shall constitute the effluent monitoring program for the treated groundwater prior to discharge to the injection wells:

<u>Constituents</u>	<u>Units</u> ¹	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Flow	gallons/day		continuous
PH ²	pH units	grab	quarterly
Temperature ²	°F	grab	quarterly
Dissolved Oxygen ²	µg/L	grab	quarterly
Total Petroleum Hydrocarbons (as gasoline)	µg/L	grab	quarterly
Benzene	µg/L	grab	quarterly
Toluene	µg/L	grab	quarterly
Ethylbenzene	µg/L	grab	quarterly
Total Xylenes	µg/L	grab	quarterly
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	quarterly
Tertiary Butyl Alcohol (TBA)	µg/L	grab	quarterly
Di-isopropyl Ether (DIPE)	µg/L	grab	quarterly
Ethyl Tertiary Butyl Ether (ETBE)	µg/L	grab	quarterly
Tertiary Amyl Methyl Ether (TAME)	µg/L	grab	quarterly
1,2,4-Trimethylbenzene	µg/L	grab	quarterly
n-propylbenzene	µg/L	grab	quarterly
Isopropylbenzene	µg/L	grab	quarterly
1,3,5-trimethylbenzene	µg/L	grab	quarterly
n-butylbenzene	µg/L	grab	quarterly
sec-butylbenzene	µg/L	grab	quarterly

¹ mg/L: milligram per liter; µg/L: microgram per liter; °F: degree Fahrenheit

² This constituent can be monitored using a field test instrument.

C. Groundwater Monitoring

Representative samples of groundwater shall be obtained from groundwater monitoring wells MW-1 (upgradient), MW-2, MW-3, MW-4, MW-6 (downgradient), MW-7, and MW-8. A sampling station shall be established for each groundwater monitoring well and be located where representative samples can be obtained. These sampling stations shall not be changed and any proposed change of monitoring/injection locations shall be

identified and approved by the Executive Officer prior to their use. The following shall constitute the groundwater-monitoring program:

<u>Constituents</u>	<u>Units</u> ¹	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
PH ²	pH units	grab	semi-annual
Temperature ²	°F	grab	semi-annual
Dissolved Oxygen ²	µg/L	grab	semi-annual
Total Petroleum Hydrocarbons (as gasoline)	µg/L	grab	semi-annual
Benzene	µg/L	grab	semi-annual
Toluene	µg/L	grab	semi-annual
Ethylbenzene	µg/L	grab	semi-annual
Total Xylenes	µg/L	grab	semi-annual
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	semi-annual
Tertiary Butyl Alcohol (TBA)	µg/L	grab	semi-annual
Di-isopropyl Ether (DIPE)	µg/L	grab	semi-annual
Ethyl Tertiary Butyl Ether (ETBE)	µg/L	grab	semi-annual
Tertiary Amyl Methyl Ether (TAME)	µg/L	grab	semi-annual
1,2,4-Trimethylbenzene	µg/L	grab	semi-annual
n-propylbenzene	µg/L	grab	semi-annual
Isopropylbenzene	µg/L	grab	semi-annual
1,3,5-trimethylbenzene	µg/L	grab	semi-annual
n-butylbenzene	µg/L	grab	semi-annual
sec-butylbenzene	µg/L	grab	semi-annual
Total dissolved solids	mg/L	grab	semi-annual
Sulfate	mg/L	grab	semi-annual
Chloride	mg/L	grab	semi-annual
Boron	mg/L	grab	semi-annual

¹ mg/L: milligram per liter; µg/L: microgram per liter; °F: degree Fahrenheit

² This constituent can be monitored using a field test instrument.

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

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

III. WASTE HAULING REPORT

In the event that wastes are hauled for further treatment or to a disposal site, the name and address of the hauler of the waste shall be reported in each quarterly monitoring report, along with quantities hauled during the quarter, and the location of the final point of disposal. If no wastes are hauled during the reporting period, a statement to that effect shall be submitted in the quarterly monitoring report.

IV. REMEDIAL ACTION PROGRESS REPORTS

The Regional Board Underground Storage Tank (UST) Section requires Quarterly Progress Reports (QPRs) from the Discharger. The QPRs are to describe the Discharger's efforts and overall status in meeting the Remedial Action Plan as approved for the Station. The QPRs shall include all of the monitoring data required above and any other monitoring data deemed necessary by UST Section staff.

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.

VI. 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)"

ExxonMobil Oil Corporation
United Brothers, Inc.
Monitoring and Reporting Program No. CI-8660

File No. I-02988
Order No. R4-2002-0030

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: October 31, 2002