

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

**MONITORING AND REPORTING PROGRAM NO. CI-9139  
FOR  
UNITED OIL COMPNAY, INC.  
ORDER NO. R4-2005-0030: SERIES NO. 052  
(ID# 900060061)**

**I. REPORTING REQUIREMENTS**

- A. United Oil Company, Inc., (hereinafter Discharger) shall implement this monitoring program on the effective date (July 28, 2006) under Regional Board Order No. R4-2005-0030. The first monitoring report under this Program is due by October 15, 2006.

Monitoring reports shall be received by the dates according to the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January – March	April 30
April – June	July 31
July – September	October 31
October – December	January 31

- 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<sup>st</sup> 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 explain 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 (WDRs).
- 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 WDRs. 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.
- E. The Discharger shall comply with requirements contained in Section G of Order No. R4-2005-0030 “*Monitoring and Reporting Requirements*” in addition to the aforementioned requirements.

**II. HYDROGEN PEROXIDE COMPOUND (HPC) INJECTION MONITORING REQUIREMENTS**

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

1. Location Map showing injection point(s) of HPC used during the reporting period.
2. Boring log with groundwater depth of each injection point or vertical cross-section diagram of injection point(s) indicating the placement of the HPC during the reporting period.
3. Written summary including, but not limited to:
  - Depth of injection point(s);
  - Days on which the injection system has been operating;
  - Quantity of HPC injected at each point; and
  - Total amount of HPC injected.

The Discharger shall sample upgradient well MW-1, source well MW-2, and downgradient wells MW-5, MW-8 and MW-10, to provide groundwater quality information prior to and after the HPC injection. Hydrogen peroxide solution should not be injected through any of the monitoring wells. Groundwater from the wells noted above shall be monitored for the duration of the remediation in accordance with the following discharge monitoring program:

<b>CONSTITUENT</b>	<b>UNITS <sup>1</sup></b>	<b>TYPE OF SAMPLE</b>	<b>MINIMUM FREQUENCY OF ANALYSIS</b>
Total petroleum hydrocarbons as gasoline (TPHg) and as diesel (TPHd)	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>

Methyl tertiary butyl ether (MTBE), Tertiary butyl alcohol (TBA), Tertiary amyl methyl ether (TAME), Di-isopropyl ether (DIPE), Ethyl tertiary butyl ether (ETBE)	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Ethanol Formaldehyde Acetone	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Total dissolved solids Chloride Sulfate	mg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Oxidation-reduction potential	Milivolts	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Dissolved Oxygen	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Chemical Oxygen Demand	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Biochemical Oxygen Demand	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>

Total Chromium and Chromium VI <sup>2</sup>	µg/L	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
PH	pH units	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Temperature	°F/°C	Grab	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>
Groundwater Elevation	Feet, mean sea level and below ground surface	In situ	<ul style="list-style-type: none"> <li>• 1 week before injection</li> <li>• Bi-weekly for the first month following injection</li> <li>• Monthly for the next 3 months</li> <li>• Quarterly thereafter</li> </ul>

<sup>1</sup> µg/l - micrograms per liter

<sup>2</sup> The Discharger is required to monitor for total chromium and chromium six if total chromium is detected in the baseline samples. The monitoring is required only for the well(s) that the total chromium was detected.

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.

**IV. 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.

**V. 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)"

**VI. PUBLIC DOCUMENTS**

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: \_\_\_\_\_  
Jonathan S. Bishop  
Executive Officer

Date: July 28, 2006