

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

**MONITORING AND REPORTING PROGRAM NO. CI-8923  
FOR  
UNITED STATES NAVY, NAVAL BASE VENTURA COUNTY  
NATIONAL ENVIRONMENTAL TECHNOLOGY TEST SITE  
PACIFIC AND ISLIP ROADS  
PORT HUENEME, CALIFORNIA  
(FILE NO. 94-073) (ORDER NO. R4-2005-0030, SERIES NO. 021)**

**I. REPORTING REQUIREMENTS**

- A. The United States Navy (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment (July 19, 2005) under Regional Board Order No. R4-2002-0030. The first monitoring report under this Program is due by October 15, 2005.

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

The first monitoring report under this Program is due by October 15, 2005.

- B. If there is no discharge or injection during any reporting period, the report shall so state.
- C. By January 30 of each year, beginning January 30, 2006, 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. R4-2002-0030 “*Monitoring and Reporting Requirements*” in addition to the aforementioned requirements.

## II. INJECTION MONITORING REQUIREMENTS

### Ozone Injection

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

1. Location Map showing injection points for the ozone injection
2. Written summary defining:
  - Depth of injection points;
  - Quantity of ozone injected per injection point; and
  - Total amount of ozone injected at site.
3. Monthly visual inspection at each injection well shall be conducted to evaluate the well casing integrity for a period of three months after each injection. The quarterly report shall include a summary of the visual inspection.
4. If there is no injection, during any reporting period, the report shall so state:

## III. GROUNDWATER MONITORING PROGRAM

A groundwater-monitoring program shall be designed to detect and evaluate impacts associated with the injection activities. The following shall constitute the monitoring program for an upgradient well (ASU-3), a source area well (ASU-2) and a downgradient well ASU-1 (Figures 1 through 4). These sampling stations shall not be changed and any proposed change of monitoring locations shall be identified and approved by the Regional Board Executive Officer (Executive Officer) prior to their use. The Discharger shall conduct baseline sampling from wells ASU-1, ASU-2, and ASU-3 one or two weeks prior to ozone injections and regular sampling with the required frequencies from the specified monitoring wells for the following constituents:

<u>CONSTITUENT</u>	<u>UNITS</u> <sup>1</sup>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
pH <sup>5</sup>	pH units	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Temperature <sup>5</sup>	<sup>0</sup> F	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Oxidation-reduction potential <sup>5</sup>	Millivolts	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Specific conductivity <sup>5</sup>	µmhos/cm	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Dissolved Oxygen <sup>5</sup>	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total xylenes	µg/L	grab	Quarterly <sup>4</sup>
MTBE	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
TBA	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
TAME	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>

DIPE	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
ETBE	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Ethanol	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total organic carbon	µg/L	grab	Weekly <sup>2</sup> /Monthly <sup>3</sup> /Quarterly <sup>4</sup>
Total Petroleum Hydrocarbons	µg/L	grab	Quarterly <sup>4</sup>
Benzene	µg/L	grab	Quarterly <sup>4</sup>
Ethylbenzene	µg/L	grab	Quarterly <sup>4</sup>
Toluene	µg/L	grab	Quarterly <sup>4</sup>
Total dissolved solids	mg/L	grab	Quarterly <sup>4</sup>
Sulfate	mg/l	grab	Quarterly <sup>4</sup>
Chloride	mg/L	grab	Quarterly <sup>4</sup>
Boron	mg/L	grab	Quarterly <sup>4</sup>
Total chromium	mg/L	grab	Quarterly <sup>4</sup>
Hexavalent chromium	mg/L	grab	Quarterly <sup>4</sup>
Sodium	mg/L	grab	Quarterly <sup>4</sup>
Ferrous Iron	mg/L	grab	Quarterly <sup>4</sup>
Manganese	µg/L	grab	Quarterly <sup>4</sup>
Total iron	µg/L	grab	Quarterly <sup>4</sup>
Alkalinity	µg/L	grab	Quarterly <sup>4</sup>
1,4-dioxane	µg/L	grab	One-time <sup>6</sup>
1,2,3-trichloropropane	µg/L	grab	One-time <sup>6</sup>
Priority pollutants <sup>7</sup>	µg/L	grab	One-time <sup>6</sup>

<sup>1</sup> mg/L: milligrams per liter; µg/L: micrograms per liter; µmhos/cm: micromhos per centimeter; °F: degree Fahrenheit.

<sup>2</sup> Weekly sampling events are required for the first two weeks from the injection date

<sup>3</sup> Monthly sampling events are required after the first two weekly sampling events for a period of six months from the injection date. If weekly sampling is not required, monthly sampling begins 1 month following the start of injection.

<sup>4</sup> Quarterly sampling events are required after the first six monthly sampling events. If weekly and/or monthly sampling is not required, quarterly sampling begins 3 months following the start of injection.

<sup>5</sup> Field instrument will be used to test for this constituent.

<sup>6</sup> One time sampling event before the injection of ozone. If detected, quarterly monitoring is required from the same monitoring wells.

<sup>7</sup> A complete list of priority pollutants (Attachment A) is provided. The Discharger is required to analyze within 1 week following the start of injection, and only for metals.

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. 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)"

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

Date: July 19, 2005