

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

MONITORING AND REPORTING PROGRAM NO. CI 8168
FOR
GOLDEN WEST REFINING COMPANY
PROCESS UNIT AREA
(SANTA FE SPRINGS, CALIFORNIA)

(FILE NO. 85-13)

The Golden West Refining Company shall implement this Monitoring and Reporting Program beginning on the date of issuance of the Waste Discharge Requirements.

I. REPORTING

The first monitoring report under this program is due on October 15, 2000, for the third quarter 2000. Subsequent quarterly progress and monitoring reports shall be submitted according to 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

II. GROUND WATER MONITORING

The Discharger shall maintain an adequate network of groundwater monitoring wells (acceptable to the Executive Officer) which are perforated in the perched and Artesia ground water aquifers, and are located at appropriate upgradient and downgradient positions.

The following shall constitute the ground water monitoring program for the above described ground water monitoring network:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
--------------------	--------------	-----------------------	--------------------------------------

Water Elevation	Feet-relative to sea level to 0.01 of a foot	---	Semi-annually
pH	pH units	grab	Semi-annually
Turbidity	NTU	grab	Semi-annually
Total dissolved solids	mg/l	grab	Semi-annually
Total petroleum hydrocarbon TPH (EPA Method 8015M HC Scan)	mg/l	grab	Semi-annually
Volatile Organic Compounds and MTBE (EPA Method 624)	ug/l	grab	Semi-annually
PAHs (EPA Method 625)	ug/l	grab	Semi-annually
Base/Neutrals and Acids (EPA Method 625)	mg/l	grab	Semi-annually
CAM Metals	mg/l	grab	Annually

III. LAND TREATMENT FACILITY SOIL MONITORING

A soil sampling grid shall be established for the land treatment units (LTUs) and the sampling locations shall be located where representative soil samples can be obtained. Soil samples shall be collected and analyzed for the following Parameters:

<u>Parameter</u>	<u>Unit</u>	<u>Frequency</u>
Bacteria Plate Count	Colonies/gm	Quarterly
Soil Moisture content	%	Quarterly
Total Petroleum Hydrocarbons (EPA Method 8015-C ₄ to C ₃₂ Hydrocarbon Scan)	mg/kg	Quarterly
Priority Pollutants		
Aromatic Volatile Organic Compounds and MTBE (EPA Method 8260 or 8021)	ug/kg	Quarterly
PAHs (EPA Method 8270 or 8310)	ug/kg	Once per 500 CY

CAM Metals mg/kg and mg/l¹ Once per 500 CY

IV. GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

- A. All sampling, sample preservation, and analysis shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedure for Analysis of Pollutants," promulgated by the United States Environmental Protection Agency.
- B. All chemical and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Environmental Laboratory Accreditation Program (ELAP) for each analytical testing method to be used. No changes shall be made in sampling points without prior approval of the Executive Officer.
- C. The Discharger shall maintain all sampling and analytical results, including strip charts, date, exact location, and time of sampling, date analysis were performed, name of analyst, analytical techniques used, and results of all analyses. Such result shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board.
- D. All verification sampling require 72 hours written and verbal notice to the Regional Board in order for staff to participate in the sampling. Final verification samples shall be collected from each 500 cubic yards of soil in the land treatment unit at the end of treatment and just prior to removal and reuse. In the event the land treatment of a lift is completed prior to the due date of the first monitoring report, then final verification samples for the lift shall be collected and analyzed in lieu of the sampling frequency of this Order.

V. SPECIFIC REPORTING REQUIREMENTS

- A. The following technical reports shall be filed with the Regional Board:

¹ If the analytical results are greater than ten times the soluble threshold limit value (STLC), established in Title 22 of the California Code of Regulations, then Golden West Refining Company shall analyze the resulting California Assessment Manual Waste Extraction Test (CAM-WET) leachate using the appropriate EPA testing methods and compare with the STLC values to assure that the soils are non-hazardous.

1. Within 30 days of adoption of these Waste Discharge Requirements, a supplemental site assessment work plan shall be submitted to Regional Board which proposed an investigation to define the full vertical and lateral extent of site contamination at this site.
 2. A supplemental site assessment report and if warranted, a modified Remedial Action Plan, shall be submitted to this Regional Board prior to initiating any construction activities at the Process Unit Area.
 3. The fourth quarter report of each year, beginning in 1999, shall also serve as an annual report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the 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.
 4. A "Contamination Removal Report", shall be submitted for each development zone within 30 days of removal of contaminated soil, verifying that all contaminated soil has been removed for land treatment or off-site disposal. The report must include all soil verification data that documents the nature and extent of removed soil, and nature and extent of contaminated soils to remain in place.
 5. A "Land Treatment Completion Report" shall be submitted for each development zone within 30 days of completing land treatment, verifying that biodegradation is complete for the land treatment. The report shall include all data collected to date verifying that cleanup levels have been met.
 6. A "Final Land Treatment Closure Report" shall be submitted within 30 days of completing all treatment in the land treatment units. This report shall include all analyses of soil samples underlying the treatment cells which document that all contaminants that pose a threat to water quality have been successfully remediated.
- B. All technical reports submitted shall contain the following minimum information:
1. Quantity of waste material treated during the reporting period.
 2. Analytical results, from:

- a. Land treatment zone soil sampling,
 - b. Soil monitoring in the excavated areas, and
 - c. Data collected during the reporting period verifying that cleanup levels have been met as each lift is removed.
3. Estimated time until completion of the next lift in each LTU and final disposition of any soils removed from the treatment cells during the reporting period.
4. A statement certifying that storm water runoff was prevented from entering the land treatment area, other than rainfall directly on the LTUs, and that no wastes or waste constituent was released from the land treatment area during rainfall events.
- C. All technical reports prepared for submittal to the Regional Board shall be signed by either a California registered Civil Engineer, a registered geologist, or certified engineering geologist.
- D. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the data, the constituents, and the concentrations are readily discernible. The data shall be summarized to determine compliance with waste discharge requirements and, where applicable, shall include receiving ground water observations. In addition, quarterly monitoring reports shall describe the facility name, location, and location at the facility where any contaminated soil originated (including a site map), verify that all contaminated soil has been removed for land treatment or document the contaminants remaining, and include all soil verification data supporting the nature and extent of removed soil and nature and extent of contaminated soils to remain in place. In addition, the report shall state the volume of contaminated soils placed into each treatment cell.
- E. If there is no discharge, the report shall so state. In addition, the quarterly progress report shall address the progress of site remediation and provide data and information on the location and concentrations of contamination identified during demolition and construction activities. The Discharger shall arrange the data in graphical and tabular form so that the data, the constituents, and the concentrations are readily discernible.
- F. For every item where the requirements are not met the Discharger shall submit a statement of the actions undertaken or proposed, together with a timetable, to bring the discharge back into full compliance with the requirements at the earliest time.

G. Monitoring reports submitted to the Regional Board shall be signed by:

1. In the case of a corporation, the principal executive officer, at least of the level of Vice President or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
2. In case of a partnership, a general partner;
3. In case of a sole proprietorship, the proprietor;
4. In the case of a municipal, state or public facility, either a principal executive officer, ranking elected official, or other duly authorized employee.

Each report shall contain the following completed declaration:

" I declare under penalty of perjury that the foregoing is true and correct.

Executed on the day of _____ at

_____ (Signature)

_____ (Title)"

Ordered by

Dennis A. Dickerson
Executive Officer

Date: June 29, 2000