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State of California  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

ORDER NO. 87-12

WASTE DISCHARGE REQUIREMENTS  
FOR

GOLDEN EAGLE REFINING COMPANY  
(File No. 85-12)

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. Golden Eagle Refining Company, located at 21000 South Figueroa Street in the City of Carson, operated a 76 acre refinery and tank farm.
2. On February 25, 1985, the Board issued Order No. 85-17 to Golden Eagle Refining Company requiring a site assessment to detect and characterize any ground water pollution beneath the facility and determine the extent and characterization of any pollution of the unsaturated zone.
3. In March 1985, Golden Eagle Refining Company acknowledged that the refinery had previously ceased production and all surface and subsurface structures would be demolished and removed and the property sold for future development. The requested site assessment was begun at that time.
4. Golden Eagle Refining Company has satisfactorily completed the site assessment in accordance with Order No 85-17 and the following determination have been made:
  - (a) No hydrocarbon pools are present on ground water beneath the facility.
  - (b) A diked storage tank area comprising approximately 35% of the site and situated in the north west portion had areas of shallow soil contamination but no significant ground water contamination below.
  - (c) An abandoned 10 acre landfill situated in the north east portion and occupying approximately 13% of the site area had no significant soil or ground water contamination. However, soil gas is occurring in the unsaturated zone.
  - (d) An abandoned land treatment area situated in the south east and southwest portions of the site and occupying approximately 27% of the site had areas of shallow soil contamination but no significant ground water contamination.

- (e) The remaining 25% of the site situated in the west central portion had been the main refining area. Areas of shallow soil contamination and deeper soil contamination were found in this area. Also, the shallow perched aquifer had concentrations of purgeable organics slightly in excess of State Department of Health Services action level. No ground water contamination in the deep aquifer was found.
5. An approved mitigation plan involving bioaugmentation for the areas of soil contamination described in items 4(b), 4(d), and 4(e) above has been implemented and a final report of bioaugmentation treatment has been submitted. The report indicates substantial degradation of the hydrocarbons in the soil during the treatment period of April 1986 through October 1986. However, limited areas of this site have total hydrocarbon concentrations requiring substantially longer time period of degradation. Final mitigation of these areas will be incorporated in site development plans.
- Mitigation for the landfill area described in item 4(c) above, is prescribed in the requirements section of this Order.
6. The ground water contamination described in item 4(e) has been mitigated for the short term. Specifically, all sources of probable contamination on site have been removed, previously mitigated or are being mitigated by virtue of this Order. Also, an impervious layer separates the deep regional aquifer from the perched aquifer and a pressure head exists on the deep aquifer as determined from the monitoring wells on site. The opportunity for contamination of the deep aquifer is therefore limited. Nine monitoring wells will be monitored and reported on a periodic basis as a means for water quality protection for the long term.
7. This site overlies the West Coast Hydrologic Subarea.
8. The Board adopted a revised Water Quality Control Plan for Los Angeles River Basin on November 27, 1978. The Water Quality Control Plan contains water quality objectives for groundwater of the West Coast Hydrologic Subarea. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.
9. The beneficial uses of the ground waters in the West Coast Hydrologic Subarea are: municipal, domestic, and agricultural, and industrial process water supplies. However, ground water in the upper semiperched aquifer is of poor quality and is of very limited use.

10. This project involves actions by regulatory agencies for protection of the environment and as such is exempt from the provisions of the California Environmental Quality Act in accordance with Title 14, California Administrative Code, Chapter 3, Section 15308.
11. This land treatment operation is a one time, short term process.

The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

The Board in a public meeting heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED, that Golden Eagle Refining Company, shall comply with the following:

1. The following on site monitoring wells shall be maintained and permanently protected from damage and from any surface contamination at all times:
  - (a) Wells No. MW-1 through MW-5 along the eastern and southern boundaries of the property, MW-7 at the north property line and MW-11 in the south west portion; all of which are perforated in the perched water aquifer.
  - (b) Well No. MW-12D in the south east corner of the property and MW-13D in the south west portion which are perforated in the regional (Gage) aquifer.
2. The monitoring wells listed in 1(a) and 1(b) above shall be precisely located by a field survey and tied to the existing City of Carson, USGS or similar Coordinate System and mapped. A copy of this map, signed by a licensed Land Surveyor or Registered Civil Engineer, shall be furnished to this Board prior to any on site development.
3. A detection monitoring program for the above wells shall be implemented in accordance with the Monitoring and Reporting Requirements of this Order and shall continue in effect until suspended in writing by the Executive Officer of this Board.
4. In accordance with Section 2551 of Subchapter 15, Chapter 3, Title 23 of the California Administrative Code, if at any time during monitoring, indicator parameters of waste constituents are detected in excess of water quality

protection standards, Golden Eagle Refining Company will be required to institute a verification monitoring program. If verification monitoring establishes that any water quality protection standard has been exceeded at or downgradient of any monitoring points, Golden Eagle Refining Company will be required to institute a corrective action program.

5. Prior to the proposed expiration of this Order, baseline ground water analysis, both upgradient and downgradient, shall be performed jointly by Board staff and Golden Eagle Refining Company. This data will allow re-evaluation of site conditions and a determination of the continued need for the Order. This data will be requested in writing by the Executive Officer. Parameters for this program are specified in the Monitoring and Reporting Program.
6. For any construction on this site during the closure and post closure period, Golden Eagle Refining Company shall submit to the Executive Officer for review and approval, a copy of construction drawings which shall include.
  - (a) The installation of liners with passive venting under all enclosed structures, excluding paved areas.
  - (b) The installation of drip irrigation or other low volume water use irrigation systems in landscaped areas.
  - (c) A draining plan to minimize onsite infiltration in areas not covered by structures, buildings or pavement.
7. A proposal for the abandonment of any wells developed during this investigation and not being retained on a permanent basis shall be submitted to this Board for approval by the Executive Officer. The proposal shall specify standard well sealing standards in current use.
8. In the event of any change of ownership of this property, or any portion thereof, the Golden Eagle Refining Company shall notify the Executive Officer by certified mail of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which letter shall be forwarded to this Board.
9. In accordance with Section 13267 of the Water Code, the discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted.
10. These waste discharge requirements do not exempt the Golden Eagle Refining Company from compliance with any other laws,

regulations, or ordinances which may be applicable, they do not legalize these waste disposal facilities, and they leave unaffected any further restraints on these facilities which may be contained in other statutes or required by other agencies.

11. In accordance with Section 13263 of the Water Code, these waste discharge requirements are subject to periodic review and revision by this Regional Board.
12. This Order shall remain effect until January 1, 1992.
13. Golden Eagle Refining Company submit, for the Executive Officer approval, a proposal for constructing an impervious cap over the landfill area together with a gas collection and management plan and monitoring, all in accordance with the requirements of Subchapter 15, Chapter 3, Title 23 of the California Administrative Code.

This proposal shall include a time schedule for completing construction of the impervious cap on or before December 1, 1987, or as approved by the Executive Officer.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on January 26, 1987.



*JR*  
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ROBERT P. GHIRELLI, D.Env.  
Executive Officer

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 6764

FOR

GOLDEN EAGLE REFINING COMPANY

(File No. 85-12)

The discharger shall implement this monitoring program on the effective date of this Order.

Monitoring reports shall be submitted by the dates in the following schedule:

- (a) Initially, monitoring reports shall be submitted quarterly during the first year following adoption of the Order by the Board. This is intended to show any variation in ground water conditions during the year. The first report shall be due January 15, 1987.
- (b) Monitoring shall be semi-annually during the second year with reports due to the Board by April 15, 1988 and October 15, 1988.
- (c) Annual monitoring shall be conducted after the second year until expiration of the Order with reports due to the Board by October 15 of each year.

Well Monitoring Program

The following shall constitute the well monitoring program data for all monitoring wells:

1. Date, time, and place of the sample
2. pH, conductivity
3. Ground water surface elevation (0.05' accuracy)
4. Total hydrocarbons (mg/l)
5. Purgeable Organics (mg/l) EPA 624
6. Zinc, Chromium, Lead (mg/l)

General Provisions for Sampling and Analysis

All sampling, sample preservation, and analyses shall be performed

in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.

All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health or approved by the Executive Officer.

General Provisions for Reporting

For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

The discharger shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; date analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records 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 Board.

In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with waste discharge requirements.

Monitoring reports shall be signed by:

- a. In the case of corporations, by a 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 discharge originates;
- b. In the case of a partnership, by a general partner;
- c. In the case of a sole proprietorship, by the proprietor;
- d. In the case of municipal, state or other public facility, by 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)"

Operation and Maintenance Report

The discharger shall file a technical report with this Board not later than 30 days after receipt of this permit, relative to the operation and maintenance program for this waste disposal facility. The information to be contained in that report shall include, as a minimum, the following:

- a. The name and address of the person or company responsible for operation and maintenance of the facility.
- b. Type of maintenance (preventive or corrective):
- c. Frequency of maintenance, if preventive.

Ordered by Richard A. Harris  
for Executive Officer

January 26, 1986  
Date

JR/