

AN

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



CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

July 25, 1994

Mr. Ralph Moran
Arco Products Company
Environmental Engineering
P.O. Box 6037
Artesia, CA 90702-6037

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AND
WASTE DISCHARGE REQUIREMENTS FOR FORMER ARCO GASOLINE SERVICE
STATION #1235, 1800 WEST ARTESIA BOULEVARD, TORRANCE
(NPDES PERMIT NO. CA0063291) (CI 7403) (ORDER NO. 94-061)**

Our letter dated June 20, 1994, transmitted tentative requirements for your discharge of treated groundwater.

Pursuant to Division 7 of the California Water Code, this Regional Board at a public hearing held on July 18, 1994, reviewed the tentative requirements, considered all factors in the case, and adopted Order No. 94-061 (copy attached) relative to this waste discharge. This Order serves as a permit under the National Pollutant Discharge Elimination System (NPDES), and expires on July 10, 1999. Section 13376 of the California Water Code requires that an application for a new permit must be filed at least 180 days before the expiration date.

The "Monitoring and Reporting Program" requires you to implement the monitoring program on the effective date of the Order. Your first monitoring report under this Program is due by October 1, 1994. All monitoring reports should be sent to the Regional Board, ATTN: Technical Support Unit.

Please reference all technical and monitoring reports to our Compliance File No. CI-7403. We would appreciate if you would not combine other reports, such as progress or technical, with your monitoring reports but would submit each type of report as a separate document.

As the Board adopted the tentative requirements without changes, we are sending the final copy only to the applicant. For those on the mailing list, please add Order No. 94-061 to the tentative Order previously sent to you. A copy of the final Order as adopted will be furnished to anyone who requests it.

Mr. Robert J. Robbins
Page 2

If you have any questions concerning this matter, please call Miss Ozden Mindevalli at (213) 266-7560.

Albert E. Novak

ALBERT E. NOVAK
Environmental Specialist IV

OM/om.

Enclosures

cc: U.S. Environmental Protection Agency, Region IX, (W-5-1)
U.S. Army Corps of Engineers
NOAA, National Marine Fisheries Service
Mr. Archie Matthews, State Water Resources Control Board, Division of Water Quality
Mr. Jorge Leon, State Water Resources Control Board, Office of Chief Counsel
Department of Fish and game, Marine Resources Region
Department of Health Services, Public Water Supply Branch
Department of Water Resources, Southern District
Mr. John Norman, Water Replenishment District of Southern California
Mr. Ken Lew, City of Torrance Fire Department
Mr. John Ranspach, Groundwater Technology

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

**ORDER NO. 94-061
NPDES NO. CA0063291**

**WASTE DISCHARGE REQUIREMENTS
FOR
ARCO PRODUCTS COMPANY,
(ARCO GASOLINE SERVICE STATION #1235)**

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

1. Arco Products Company (a corporation), hereinafter referred to as the discharger, has filed a report of waste discharge and has applied for a permit to discharge wastes under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger owns and operates a gasoline service station at 1800 West Artesia Boulevard, Torrance, California. Assessment work conducted at the site has shown that the soil and groundwater beneath the site are contaminated with petroleum hydrocarbons and volatile organic compounds. All underground storage tanks have been replaced, and the discharger has defined the full extent of the soil and groundwater contamination.
3. The discharger has submitted a plan to clean up the contamination in the soil and groundwater that is acceptable to Regional Board staff. The proposed groundwater remediation system will consist of groundwater recovery wells with flow through an oil/water separator, and granular activated carbon filtration.
4. Federal law stipulates that all NPDES permits require the use of best available technology, economically achievable, to treat wastes. Oil/water separation and flow through a granular activated carbon filter are considered one of the best available technologies, economically achievable, for the cleanup of groundwater which has been contaminated with petroleum and aromatic hydrocarbons, and volatile organic compounds.
5. The discharger is proposing to discharge up to 15,000 gallons per day of treated groundwater into a storm drain in Western Avenue. The storm drain discharges to Dominguez Channel, a water of the United States, above the tidal prism.

6. The Regional Board adopted a revised Water Quality Control Plan (Basin Plan) for the Los Angeles River Basin on June 3, 1991. The Basin Plan contains water quality objectives and identifies the beneficial uses of Dominguez Channel. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Basin Plan.
7. The beneficial uses of Dominguez Channel are: water contact recreation; non-contact water recreation; commercial and sports fishing; marine habitat; and preservation of rare and endangered species. Within the tidal prism the beneficial uses are: water contact recreation; non-contact water recreation; wildlife habitat; and preservation of rare and endangered species.
8. The maximum discharge limitations specified in this permit are based primarily upon maximum contaminant levels, California Department of Health Services recommended drinking water action levels, surface water quality objectives in the Basin Plan, and best available technology, economically achievable.
9. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code in accordance with Water Code Section 13389.

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

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

This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Clean Water Act, or amendments thereto. This Order shall take effect at the end of ten days from the date of its adoption, provided the Regional Administrator, Environmental Protection Agency, has no objections.

IT IS HEREBY ORDERED that Arco Products Company (the discharger), in order to meet the provisions contained in Division 7 of the California Water Code, and the regulations adopted thereunder, and the Federal Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

I. Effluent Limitations.

- a. Wastes discharged shall be limited to treated groundwater only, as proposed.
- b. The discharge of an effluent in excess of the following limits is prohibited:

<u>Constituent</u>	<u>Discharge Limitations</u>	
	<u>30-day average</u>	<u>Maximum</u>
Oil and grease	10.0 mg/L 0.83 lbs/day*	15.0 mg/L 1.25 lbs/day*
Benzene	---	1.0 µg/L
Toluene	---	10.0 µg/L
Xylenes (total)	---	10.0 µg/L
Ethylbenzene	---	10.0 µg/L
Ethylene dibromide	---	0.02 µg/L
Lead (total)	---	15.0 µg/L
1,2 - Dichloroethane	---	0.5 µg/L
Methyl ethyl ketone	---	10.0 µg/L
Tetrachloroethylene	---	5.0 µg/L
1,1,1-Trichloroethane	---	10.0 µg/L
1,1,2-Trichloroethane	---	10.0 µg/L

*Based on a maximum flow rate of 15,000 gallons per day.

- c. The acute toxicity of the effluent shall be such that the median survival in the undiluted effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%.

II. Narrative Water Quality Objectives.

- a. Inland surface water communities and populations, including vertebrate, invertebrate, and plant species, shall not be degraded as a result of the discharge of waste.
- b. The natural taste and odor of fish, shellfish, or other inland surface water resources used for human consumption shall not be impaired.
- c. Toxic pollutants shall not be discharged at levels that will bioaccumulate in aquatic resources to levels which are harmful to human health.
- d. The concentrations of contaminants in waters which are existing or potential sources of drinking water shall not occur at levels which are harmful to human health.
- e. The concentrations of toxic pollutants in the water column, sediments, or biota shall not adversely affect beneficial uses.

III. Requirements and Provisions.

- a. This Order contains the attached "Standard Provisions, General Monitoring and Reporting Requirements". If there is any conflict between provisions stated herein and attached "Standard Provisions", those provisions stated herein shall prevail.
- b. Before the commencement of continuous discharge to the storm drain from the treatment system, the discharger shall collect effluent samples during a "trial run" of the treatment system. The effluent samples shall be analyzed in a certified laboratory for the parameters listed in the Monitoring and Reporting Program to confirm that the wastewater meets the discharge limitations specified in this Order.
- c. If at any time the wastes discharged exceed the effluent limitations contained in this Order, the discharger shall notify Board staff by telephone within 24 hours. Written confirmation shall be submitted within one week of the telephone notification. Alternative disposal, storage, or additional treatment to meet the discharge limitations will then be required.

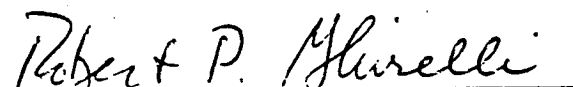
Arco Products Company
Order No. 94 - 061

CA0063291

IV. Expiration Date.

- a. This Order expires on July 10, 1999.
- b. The discharger must file a report of waste discharge in accordance with Title 23, California Code of Regulations, no later than 180 days in advance of the expiration date, as application for new waste discharge requirements.

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 July 18, 1994.



ROBERT P. GHIRELLI, D.Env.
Executive Officer

/om

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
MONITORING AND REPORTING PROGRAM NO. CI 7403**

FOR

**ARCO PRODUCTS COMPANY
ORDER NO. 94-061
(NPDES NO. CA0063291)**

Arco Products Company (Arco) shall implement this monitoring program on the effective date of this Order. Monitoring reports shall be submitted monthly by the first day of the second following month. The first report (for August) under this program will be due by October 1, 1994. If no discharge occurs during any reporting period, the report shall so state.

EFFLUENT MONITORING

- A. A sampling station shall be established for each point of discharge and shall be located where representative samples of the effluent can be obtained. In the event that waste streams from sources are combined for treatment of discharge, representative sampling stations shall be so located to ensure that the quantity of each waste source regulated by effluent limitations can be determined.
- B. The detection limits employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless Arco can demonstrate that a particular detection limit is not attainable and obtains approval for a higher detection limit from the Executive Officer. At least once a year, Arco shall submit a list of the analytical methods employed for each test and associated laboratory quality assurance/quality control procedures.
- C. This Regional Board shall be notified in writing of any change in the sampling stations, once established, or in the methods for determining the quantities of pollutants in the individual waste streams.
- D. During the first two weeks that treated effluent is discharged to the storm drain, the effluent shall be sampled daily and analyzed for the constituents listed below (except toxicity). After the first two weeks of continuous discharge, the frequency of sampling and analysis shall revert to weekly, as indicated in the following effluent monitoring program:

<u>Constituent</u>	<u>Units</u>	<u>EPA Method Number</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Effluent flow	gal/day	----	----	weekly
Temperature	^o F	----	grab	weekly
pH	pH units	----	grab	weekly
Oil and grease	mg/L	413.1	grab	weekly [4]
Benzene	µg/L	8260 or 8010/8020	grab	weekly [4]
Toluene	µg/L	8260 or 8010/8020	grab	weekly [4]
Xylenes (total)	µg/L	8260 or 8010/8020	grab	weekly [4]
Ethylbenzene	µg/L	8260 or 8010/8020	grab	weekly [4]
Ethylene dibromide	µg/L	504	grab	weekly [4]
1,2 - dichloroethane	µg/L	8260 or 8010/8020	grab	weekly [4]
Lead (total)	µg/L	7421 [1]	grab	quarterly
Total petroleum hydrocarbons	mg/L	8015	grab	quarterly
Methyl ethyl ketone	µg/L	8260 or 8015	grab	weekly [4]
Tetrachloroethylene	µg/L	8260 or 8010/8020	grab	weekly [4]
1,1,1-Trichloroethane	µg/L	8260 or 8010/8020	grab	weekly [4]
1,1,2-Trichloroethane	µg/L	8260 or 8010/8020	grab	weekly [4]
Toxicity [2]	% survival	----	grab	annually [3]

[1] Graphite furnace method

[2] Acute toxicity testing shall be conducted by the method specified in "Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" - March 1985 (EPA/600/6-85-013). Submission of bioassay results should include the information noted on pages 45-49 of the "Methods". The fathead minnow (Pimephales promelas) shall be used as the test species.

[3] If the results of the annual toxicity test yields a survival of less than 90%, the frequency of analysis shall be increased until at least three consecutive test results, obtained in that month, demonstrate a median value that is in full compliance with Effluent Limitation I.c. After this, the frequency of analysis shall revert to annually. The results of the toxicity test shall be included in the first monitoring report submitted following completion of the test.

[4] If test results of these constituents consistently show full compliance with the effluent limitations for at least 3 months, the frequency of testing may be reduced to monthly, unless otherwise specified by the Executive Officer. If analytical results show full compliance with the effluent limitations for 12 months of continuous operation, the analyses shall be performed monthly with reports submitted quarterly by the fifteenth day following the end of the quarter, unless otherwise specified by the Executive Officer.

However, if any of these constituents exceeds the effluent limitations, the frequency of analysis shall be increased to weekly. After four consecutive samples show full compliance with the discharge limitations, the frequency of analysis may revert to monthly.

LABORATORY ANALYSES

All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analyses must follow methods approved by the United States Environmental Protection Agency (EPA), and the laboratory must meet EPA Quality Assurance/Quality Control criteria. All analytical data must be presented on the enclosed Laboratory Report Forms.

ANNUAL SUMMARY REPORT

The first annual summary report (due March 1, 1995) shall include the results of all laboratory analyses and a complete system evaluation. This evaluation shall include, but not be limited to, an analysis of the effectiveness of the groundwater cleanup system, the present groundwater conditions (including the analytical data from the groundwater monitoring program), rate of cleanup, system operating conditions, projected cleanup completion schedule (if possible), and any modifications made during the life of the system.

In the event the groundwater extraction and cleanup system has not been effectively cleaning or controlling the contaminant plume, an alternative remedial cleanup plan shall be proposed for further groundwater cleanup.

Ordered by:



ROBERT P. GHIRELLI, D.Env.
Executive Officer

Date: July 18, 1994