

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION

ADDENDUM NO. 1 TO  
CLEANUP AND ABATEMENT ORDER NO. 86-23  
CHEVRON USA, INCORPORATED  
SERVICE STATION NO. 1870, TEMECULA  
RIVERSIDE COUNTY

9UT106

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On March 4, 1986, the Executive Officer of this Regional Board issued *Cleanup and Abatement Order No. 86-23 to Chevron USA, Incorporated* in response to the petroleum hydrocarbon contamination resulting from the leaky underground fuel storage tank system at Chevron service station no. 1870 in Temecula.
2. Directive 2 of Order No. 86-23 required Chevron USA, Incorporated to develop and cost a range of remedial action strategies capable of achieving various final cleanup levels in the underlying ground water aquifer. As specified in Directive 2 or Order No. 86-23, Regional Board staff would review the various cleanup strategies and costs designed by Chevron USA, Incorporated and select the final cleanup levels to be achieved at the site by Chevron USA, Incorporated.
3. Chevron USA, Incorporated submitted a report, prepared by Harding Lawson Associated, dated September 25, 1986, in response to Directive 1 of Order No. 86-23. The report contains the following estimated costs to achieve various potential final cleanup levels in the affected ground water contamination zone:

<u>Alternative under Order No. 86-23</u>	<u>Ground Water Cleanup Level</u>	<u>Estimated Cost</u>
1a	Complete cleanup	\$ 112,408.00
1b	Drinking water levels	\$ 112,408.00
1c	Removal of 75% of dissolved hydrocarbons	\$ 73,908.00

4. After reviewing all of the information submitted to the Regional Board office by Chevron USA, Incorporated concerning service station no. 1870 including cleanup costs, potential impacts to water quality, the location of the site and the likelihood of future potential beneficial use of the ground water basin, the Regional Board has determined that the naturally occurring background concentrations shall serve as the final cleanup levels to be achieved at the site by Chevron USA, Incorporated.

IT IS HEREBY ORDERED, That Order No. 86-23 shall be modified as follows:

1. The following Directive No. 7 shall be added to Order No 86-23:

"7. Chevron USA, Incorporated shall proceed to remove and/or treat the affected ground water until Chevron USA, Incorporated can demonstrate to the Regional Board Executive Officer's satisfaction that the concentrations of petroleum hydrocarbon constituents in the ground water contamination zone do not exceed the naturally occurring background levels. This is essentially complete cleanup of the ground water contamination resulting from the unauthorized release of fuel hydrocarbons from the underground storage tank system at Chevron service station no. 1870. Thus, Chevron USA, Incorporated must achieve the following final cleanup levels throughout the ground water contamination zone:

<u>Constituent</u>	<u>Maximum Allowable Concentration</u>
Benzene	Naturally occurring background concentrations
Toluene	Naturally occurring background concentrations
Total xylenes	Naturally occurring background concentrations
Ethylbenzene	Naturally occurring background concentrations
Total petroleum hydrocarbons	Naturally occurring background concentrations
Ethylene dibromide	Naturally occurring background concentrations

2. As specified in Directive No. 6 of Order No. 86-23, Chevron USA, Incorporated shall submit quarterly progress reports to this office for the remainder of the cleanup program. The quarterly monitoring reports shall include the following information:
  - a. Quantity of petroleum hydrocarbon product recovered for the quarter and the total to date.
  - b. Quantity of ground water extracted for the quarter, the total to date, and its ultimate disposal point.
  - c. The water levels and product thicknesses in all of the wells.
  - d. Any information necessary to demonstrate that the petroleum hydrocarbon contamination resulting from the unauthorized release from the underground tank system at the site is fully contained and immobilized or shrinking.
  - e. A map of the site with hydrologic contours showing the ground water flow pattern and the locations of all of the wells.

- f. A map of the site showing the boundary of the free petroleum hydrocarbon product plume and also of the dissolved product ground water plume.
- g. Ground water samples should be collected from the monitoring wells and analyzed for:
- (1) Benzene
  - (2) Toluene
  - (3) Total xylenes
  - (4) Ethylbenzene
  - (5) Total Petroleum Hydrocarbons
- h. A description of the remedial actions employed by the discharger.

The quarterly monitoring reports shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Date Due</u>
January, February, March	April 30
April, May, June	July 30
July, August, September	October 30
October, November, December	January 30

3. After Chevron USA, Incorporated can demonstrate to to the Regional Board Executive Officer's satisfaction that the final cleanup levels listed above have been achieved throughout the affected ground water contamination zone, Chevron USA, Incorporated shall continue to collect and analyze the ground water samples and submit monitoring reports in accordance with the monitoring requirements specified in Directive No. 2 above for a period of at least one year. If at any time during this post cleanup monitoring period the data indicate that the final cleanup levels have not been maintained, or the soil is acting as a continuing source of petroleum hydrocarbons to the ground water, Chevron USA, Incorporated shall immediately resume appropriate remedial cleanup actions. If, on the other hand, the final cleanup levels have not been exceeded during the year of monitoring and it appears that the soil is not continuing to contribute petroleum hydrocarbon constituents to the ground water, then no further monitoring shall be required.

*I, Ladin H. Delaney, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, San Diego Region, on July 27, 1987.*

*Ladin H. Delaney*

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Ladin H. Delaney  
Executive Officer

Date: July 27, 1987

