

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

ORDER NO. 93-128

SITE CLEANUP REQUIREMENTS FOR:

**CHEVRON U.S.A. PRODUCTS COMPANY, RICHMOND REFINERY
CHEVRON ROD & GUN CLUB
RICHMOND, CONTRA COSTA COUNTY**

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. **Site Description** - At the Chevron U.S.A. Products Company, Richmond Refinery (hereinafter called the Discharger) is located the Chevron Rod & Gun Club. This club operated a trap and skeet range located at the Chevron Richmond Refinery on Skeet Hill overlooking the mud flat of Castro Cove (see Figure 1). Castro Cove is located in the southern part of San Pablo Bay. To shoot the clay targets at the skeet and trap ranges, only shotguns were used.
2. **Site History** - The Discharger has operated the trap and skeet range for about 20 years. The trap and skeet range is now closed, and it is the intention of the Discharger to keep it closed until any environmental concerns are resolved. When it was open, only Chevron employees could use the trap and skeet facilities.
3. **Sources of Pollution** - The lead pellets from the shotguns were discharged in a northerly direction toward and into the mud flat and open waters of Castro Cove. The pellets can land a considerable distance, 300 to 400 feet, from the shooting positions. Shotguns were fired from about 150 feet from the shoreline toward the mud flat. Skeet Hill is about 75 feet high. At this time, no estimate can be given of how much lead is in the mud flat. Clay disks were used as targets, which can project about 50 feet from the discharge area. Therefore, broken clay targets were, most likely, not deposited into the mud flat.
4. **Environmental Concerns** - The primary constituent of concern is lead. The potential effects of lead from shotgun clubs are well documented. Direct ingestion of lead pellets causes waterfowl deaths. In the San Pablo Bay area, dabbling ducks, such as canvasbacks, are at special risk. In both fresh and marine water, lead becomes available to biota through the transformation process of oxidation.
5. **Scope of this Order** - This Order contains tasks that require the Discharger to: 1) cease the deposition of lead shot into waters of the State or waters of the United States; 2) define the extent of lead pollution in waters of the State or waters of the United States; 3) determine the degree to which the lead is biologically available; 4)

- develop a remedial action plan to cleanup or manage the lead pollution; and 5) implement the remedial action plan.
6. On October 28, 1968, the State Board adopted Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality Waters in California." This policy calls for maintaining the existing high quality of State waters unless it is demonstrated that any change would be consistent with the maximum public benefit and not unreasonably affect beneficial uses. The discharge of waste to the surface water at this site is in violation of this policy. Therefore, the surface water quality needs to be restored to its original quality to the extent reasonable.
 7. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on September 16, 1992. The Basin Plan contains water quality objectives and beneficial uses for San Pablo Bay and contiguous surface waters.
 8. The existing and potential beneficial uses of San Pablo Bay and contiguous surface waters include:
 - a. Industrial service supply
 - b. Navigation
 - c. Water contact recreation
 - d. Non-contact water recreation
 - e. Ocean commercial and sport fishing
 - f. Wildlife habitat
 - g. Preservation of rare and endangered species
 - h. Fish migration
 - i. Fish spawning
 - j. Shellfish harvesting
 - k. Estuarine habitat
 9. The Discharger has caused or permitted, and threatens to cause or permit, waste to be discharged or deposited where it is or probably will be discharged to waters of the State and creates a condition of pollution or nuisance.
 10. This action is an Order to enforce the laws and regulations administered by the Board. This action is categorically exempt from the provisions of the CEQA pursuant to Section 15321 of the Resources Agency Guidelines.
 11. The Board has notified the Discharger and interested agencies and persons of its intent under California Water Code Section 13304 to prescribe Site Cleanup Requirements for the discharge and has provided them with the opportunity for a

public hearing and an opportunity to submit their written views and recommendations.

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

IT IS HEREBY ORDERED, pursuant to Section 13304 of the California Water Code, that the Discharger shall cleanup and abate the effects described in the above findings as follows:

A. **PROHIBITIONS**

1. The discharge of wastes or hazardous materials in a manner which will degrade, or threaten to degrade, water quality or adversely affect, or threaten to adversely affect, the beneficial uses of the waters of the State or waters of the United States is prohibited.
2. Specifically, the discharge or deposition of lead shot into waters of the State or waters of the United States is prohibited.

B. **PROVISIONS**

1. The Discharger shall perform all investigation and cleanup work in accordance with the requirements of this Order. All technical reports submitted in compliance with this Order shall be satisfactory to the Executive Officer, and, if necessary, the Discharger may be required to submit additional information.
2. To comply with all Prohibitions of this Order, the Discharger shall meet the following compliance task and time schedule:

COMPLIANCE DATE AND TASKS

- a. **COMPLIANCE DATE: February 1, 1994**

CESSATION OF LEAD SHOT DEPOSITION: Discharger is prohibited from depositing lead shot into waters of the State or waters of the United States. Submit a workplan acceptable to the Executive Officer containing a proposal, including a time schedule, for

implementation of a ban on lead shot and methods for enforcing this ban.

- b. **COMPLIANCE DATE: May 2, 1994**

WORKPLAN FOR SEDIMENT POLLUTION

CHARACTERIZATION: Submit a technical report acceptable to the Executive Officer containing a proposal, including a time schedule, to define the horizontal and vertical extent of lead concentrations in the sediment, including both pellet and finely divided forms.

- c. **COMPLIANCE DATE: To be established by Executive Officer based on proposal submitted pursuant to Provision 2.b.**

COMPLETION OF SEDIMENT CHARACTERIZATION:

Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in the technical report acceptable for Provision 2.b.

- d. **COMPLIANCE DATE: May 2, 1994**

WORKPLAN FOR BIOLOGICAL CHARACTERIZATION:

Submit a technical report acceptable to the Executive Officer containing a proposal, including a time schedule, to characterize the biology in the area where the lead has been deposited, and determine whether the lead has become biologically available and is affecting, or can potentially affect, plants or animals. A remedial action plan acceptable to the Executive Officer may be submitted in lieu of this workplan for biological characterization.

- e. **COMPLIANCE DATE: To be established by Executive Officer based on proposal submitted pursuant to Provision 2.d.**

COMPLETION OF BIOLOGICAL CHARACTERIZATION:

Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in the technical report acceptable for Provision 2.d.

- f. **COMPLIANCE DATE: To be established by Executive Officer based on reports submitted pursuant to Provisions 2.c. and 2.e.**

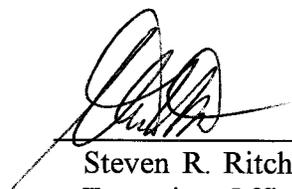
REMEDIAL ACTION PLAN: Submit a technical report acceptable to the Executive Officer containing a remedial action plan and an implementation time schedule. This report shall evaluate the removal of lead deposits in the mud flats and, possibly, the adjacent land areas. Removal evaluation shall consider pellet and sediment phases, and the degree of removal may be based on biological data. Any remedial action will take into consideration the sediment and biological characterizations.

- g. **COMPLIANCE DATE:** To be established by Executive Officer based on proposal submitted pursuant to Provision 2.f.

COMPLETION OF REMEDIAL ACTION: Submit a technical report acceptable to the Executive Officer documenting the completion of the necessary tasks identified in the technical report acceptable for Provision 2.f.

3. If the Discharger is delayed, interrupted or prevented from meeting one or more of the compliance dates specified in this Order, the Discharger shall promptly notify the Executive Officer, and the Board may consider revision to this Order.
4. The Discharger shall file a report with the Board at least 30 days in advance of any changes in occupancy or ownership associated with the Site described in this Order.
5. The Board will review this Order periodically and may revise the requirements or compliance schedule when necessary.

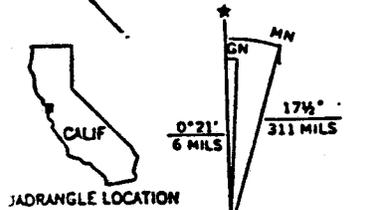
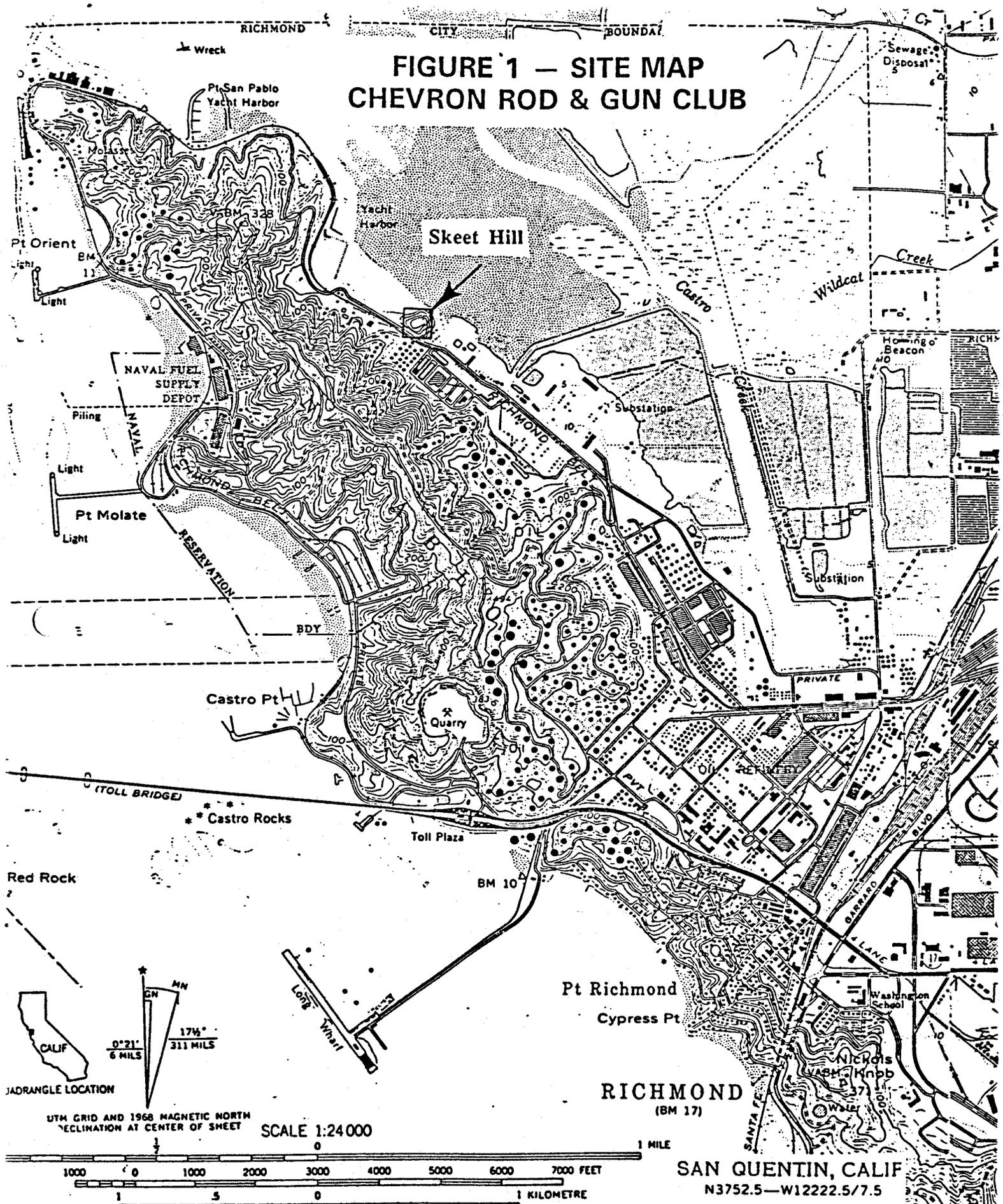
I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Region, on October 20, 1993.



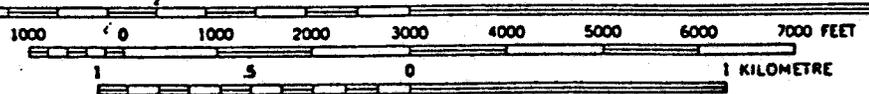
Steven R. Ritchie
Executive Officer

Attachments: Figure 1 — Site Map

FIGURE 1 — SITE MAP CHEVRON ROD & GUN CLUB



UTM GRID AND 1968 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET
SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER

RICHMOND (BM 17)
SAN QUENTIN, CALIF
N3752.5—W12222.5/7.5

1959
REVISIONS 1968
AMS 1559 IV NW—SERIES V895
PHOTOINSPECTED 1973