

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

ORDER 01-035

**CLEANUP AND ABATEMENT ORDER AND RESCISSION OF ORDER NO. 91-121
FOR:**

R. REED RINEHART, RINEHART DISTRIBUTING, INC., RINEHART OIL COMPANY
DBA RINEHART'S TRUCK STOP
P.O. BOX 725
2401 N. STATE ST.
UKIAH, CA 95482

for the property located at

2645 PETALUMA BOULEVARD SOUTH
PETALUMA
SONOMA COUNTY

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

1. **Site Location:** Rinehart's Truck Stop is a truck fueling station, located approximately 1 mile southeast of the City of Petaluma.
2. **Site History:** On May 6, 1991 Regional Board staff received a citizen complaint of oil or diesel in a drainage ditch at the rear of the Truck Stop. On May 9, staff inspected the drainage ditch. The ditch runs along on side of the truck stop for a few hundred feet before entering a culvert tributary to the Petaluma River. A portion of the ditch was contaminated with a 1-2 inch thick layer of floating product. Upon sampling, the product contained about 82,000 ppm TPH as diesel. The release is believed to have occurred between an above ground product line and an underground one, associated with the Truck Stop's aboveground petroleum storage tanks.
3. **Named Dischargers:** R. Reed Rinehart, Rinehart Distributing, Inc., and Rinehart Oil Company, dba Rinehart's Truck Stop, are named as dischargers because they owned the property during or after the discharge, have knowledge of the discharge or the activities that caused the discharge, and have the legal ability to prevent the discharges. If additional information is submitted indicating that other parties caused or permitted any waste to be discharged on the site where it entered or could have entered waters of the state, the Board will consider adding those parties' names to this order.
4. **Regulatory Status:** In response to the observed discharge, Cleanup and Abatement Order No. 91-121 was adopted on August 9, 1991. The 1991 Order required the discharger to divert uncontaminated upstream water around the contaminated area, to remove all visibly stained soil, and to submit a work plan for site investigation and cleanup.

5. **Purpose Of Order:** The purposes of this Order are to implement remedial actions at the site to allow for attainment of water quality objectives, and to implement monitoring requirements to verify that water quality objectives are met.
6. **Site Hydrogeology:** The site consists of approximately 2 acres along South Petaluma Blvd. The property slopes northeast towards a ditch located on Southern Pacific Railroad's property that drains to the Petaluma River, a tributary to San Francisco Bay and a water of the State. The site is located on a narrow alluvial plain, and to the west of the site, the coastal range mountains rise steeply. Shallow groundwater is present at 3 to 5 feet below the ground surface, present within a layer of natural and/or artificial unconsolidated fill material that overlies a clay layer about 6 to 12 feet below the ground surface. The shallow groundwater beneath the site appears to be in a perched aquifer. The general regional shallow groundwater probably flows from the coast Range Mountains westward to the Petaluma River.
7. **Remedial Investigation:** The discharger submitted an initial subsurface investigation report on December 12, 1991. The report summarized the results of soil samples collected from 30 soil borings, as well as groundwater samples from these borings and five piezometers. Elevated concentrations of gasoline, BTEX and diesel were found in the soil above the shallow groundwater over most of the site. Gasoline and diesel ranged up to 19,000 mg/kg. BTEX ranged up to 1,500,000 mg/kg. Floating product, up to 0.2 feet, was found in several wells. Dissolved gasoline and diesel ranged up to 870,000 and 2400 ppm. BTEX ranged up to 17,000,000 ug/l. The discharger estimated that approximately 300 to 350 gallons of free product remained under the site.
8. **Interim Remedial Measures:** In 1991, the discharger installed a recovery trench along the eastern property line. The trench was excavated to about 8 feet below the ground surface and backfilled with gravel. A line and recovery pump was installed to recover free product and contaminated groundwater from the site. About 5,500 gallons of product were recovered over a two-year period. Free product thickness peaked at about 16 inches in 1993; for the past two years, it has dropped to about 2 inches in well P-4, with most wells showing a sheen. The discharger also removed about 300 cubic feet of contaminated soil from the drainage trench, and in 1993, ten groundwater-monitoring wells were installed.
9. **Groundwater Monitoring:** The groundwater wells were advanced to 9 to 10 feet below the water table, and screened to about six inches to one foot above the water table. The water levels, and analyses for TPH gasoline, diesel, residuals, and BTEX have been conducted generally quarterly. The first round of sampling was conducted in July 1993. The table below compares the maximum values found in the first round of sampling compared to the latest round, in October 1999.

	<u>July 1993</u>	<u>October 1999</u>
Free Product Thickness	7.56 inches	2.16 inches
TPHg:	190,000 ug/l	65,000 ug/l

TPHd	31,000	140,000
MTBE:	Not measured initially	2,200
Benzene:	750	9,200
Toluene:	1,100	2,200
Ethylben.:	1,200	3,000
Xylene:	3,500 ug/l	9,500 ug/l

10. **Feasibility Study:** While free product has been greatly curtailed at this site, the above groundwater data show that there is a substantial amount of dissolved groundwater contamination. In May 1999, the discharger submitted a proposed remedial action workplan. They proposed to remove the four above ground tanks and piping and replace them with a single underground tank. They further proposed to excavate about 2,200 cubic yards of soil, down to a depth of 5 feet, and then replace this with clean soil. The Board's Executive Officer concurred with this proposal in a letter dated June 23, 1999. The discharger was requested, pursuant to Water Code Section 13267, to supply timetables for the start and finish of this work, a final cleanup standard, and a proposal for additional quarterly monitoring until the cleanup standards were finally met.
11. **Remediation Not Progressing As Scheduled.** The discharger had not initially responded to the above request for additional information, nor has any of the remedial action taken place as of yet. However, the discharger is now committed to implementing the remedial action workplan as soon as possible. This Order establishes deadlines for the resubmission and implementation of the remedial action plan, and requires continued onsite monitoring to verify whether the remedial actions were successful.

ABOVEGROUND PETROLEUM STORAGE TANKS

12. While there are four above ground tanks on site, the Discharger presently operates only one, a 10,000-gallon diesel tank. Operators of aboveground petroleum storage tanks shall comply with the requirements of Chapter 6.67 of the Health and Safety Code, and with Part 112, Title 40 of the Code of Federal Regulations (CFR).
13. **Spill Prevention, Control, and Countermeasures (SPCC) Plan:** In part, the regulations require the Discharger to maintain a Spill Prevention, Control, and Countermeasures Plan (SPCC) at the Facility. On October 24, 2000, Regional Board staff performed a Spill Prevention Control and Countermeasure (SPCC) plan inspection of the Discharger's facility in conjunction with representatives of the Sonoma County Department of Emergency Services. The inspection discovered that there is no SPCC Plan in place at the Facility.
14. **Secondary Containment:** Aboveground petroleum storage tank facilities are required to have secondary spill containment for capture of sudden releases from an aboveground petroleum tank. The secondary containment shall be constructed so that there is a secondary means of containment for the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation. The secondary containment shall also be sufficiently impervious to contain spilled petroleum (Title 40 CFR, Section 112.7(e)(2)(ii)). During an inspection on October 24, 2000, Regional Board staff saw that the facility's secondary containment area was unpaved and did not appear to have

adequate capacity. Therefore, the existing secondary containment does not meet the appropriate requirements.

15. **Internal Tank Inspections:** All regulated tanks shall have their tank bottoms tested (using API Standard 653 or the most current industry or regulatory approved standard) for integrity or thickness. The inspection time interval shall be no more than 20 years and the interval will be dependant on the likelihood of tank bottom corrosion and the age of the tank. A summary of inspection results shall be reported to the Board annually.
16. **Risk Assessment:** The Discharger has not conducted a formal risk assessment for the contamination at the site.
17. **State Water Board Policies:** State Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," applies to this discharge and requires attainment of background levels of water quality, or the highest level of water quality which is reasonable if background levels of water quality cannot be restored. Cleanup levels other than background must be consistent with the maximum benefit to the people of the State, not unreasonably affect present and anticipated beneficial uses of such water, and not result in violation of applicable water quality objectives.

State Board Resolution No. 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304," applies to this discharge. This Order and its requirements are consistent with the provisions of Resolution Nos. 68-16 and 92-49, as amended.

18. The Board's past experience with groundwater pollution cases of this type is that it is unlikely that all background levels of water quality can be restored. Under Resolution No. 92-49 and California regulations, however, no cleanup standards may be set at a level higher than background levels unless or until the following findings can be made and supported by evidence presented to the Board:
 - a. That it is technologically or economically infeasible to achieve background levels, and
 - b. That the pollutants will not pose a substantial present or potential hazard to human health or the environment for the duration of the exceedence of background levels.
19. Pending the establishment of site-specific cleanup standards, the following preliminary cleanup goals should be used for these purposes:
 - a. Groundwater: The more stringent of background concentrations or applicable water quality objectives (e.g. maximum contaminant levels, or MCLs) or, in the absence of a chemical-specific objective, risk-based levels (e.g. drinking water equivalent levels) or toxicity testing for aquatic receptors to reflect impacts to surface waters.

- b. Soil: The more stringent of background concentrations or Basin Plan limits that are not to exceed 1 mg/kg total volatile organic compounds (VOCs), 10 mg/kg total semi-volatile organic compounds (SVOCs) or background concentrations of metals.

20. **Beneficial Uses:** The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on June 21, 1995. This updated and consolidated plan represents the Board's master water quality control planning document. The revised Basin Plan was approved by the State Water Resources Control Board and the Office of Administrative Law on July 20, 1995, and November 13, 1995, respectively. A summary of regulatory provisions is contained in Title 23, California Code of Regulations, Section 3912. The Basin Plan defines beneficial uses and water quality objectives for waters of the State, including surface waters and groundwater.

Board Resolution No. 89-39, "Sources of Drinking Water," defines potential sources of drinking water to include all groundwater in the region, with limited exceptions for areas of high TDS, low yield, or high background contaminant levels. Groundwater underlying and adjacent to the site qualifies as a potential source of drinking water though there is no current use of the site's groundwater, nor any anticipated plans for its use.

The present and potential beneficial uses of the site's groundwater are as follows:

- a. Municipal and domestic water supply
- b. Industrial process water supply
- c. Industrial service water supply
- d. Agricultural water supply
- e. Freshwater replenishment to surface waters

The existing and potential beneficial uses of the adjacent Petaluma River include:

- a. Municipal and domestic supply
- b. Agricultural supply
- c. Industrial process supply or service supply
- d. Groundwater recharge
- e. Water contact and non-contact recreation
- f. Wildlife habitat
- g. Cold freshwater and warm freshwater habitat
- h. Fish migration and spawning
- i. Navigation
- k. Estuarine habitat
- l. Shellfish harvesting
- m. Preservation of rare and endangered species

21. **Future Changes to Cleanup Standards:** The goal of this remedial action is to restore the beneficial uses of groundwater underlying and adjacent to the site. Results from other sites suggest that full restoration of beneficial uses to groundwater as a result of active remediation at this site may not be possible. If full restoration of beneficial uses is not technologically nor economically achievable within a reasonable period of time, then the

discharger may request modification to the cleanup standards or establishment of a containment zone, a limited groundwater pollution zone where water quality objectives are exceeded. Conversely, if new technical information indicates that cleanup standards can be surpassed, the Board may decide that further cleanup actions should be taken.

22. **Reuse or Disposal of Extracted Groundwater:** Board Resolution No. 88-160 allows discharges of extracted, treated groundwater from site cleanups to surface waters only if it has been demonstrated that neither reclamation nor discharge to the sanitary sewer is technically and economically feasible.
23. **Basis for 13304 Order:** The discharger has caused or permitted waste to be discharged or deposited where it is or probably will be discharged into waters of the State and creates or threatens to create a condition of pollution or nuisance.
24. **Cost Recovery:** Pursuant to California Water Code Section 13304, the discharger is hereby notified that the Board is entitled to, and may seek reimbursement for, all reasonable costs actually incurred by the Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this order.

On March 13, 2000, the Board's staff notified R. Reed Rinehart, Rinehart Distributing, Inc., and Rinehart Oil Company, dba Rinehart's Truck Stop, that pursuant to Section 25270.0 and 26270.11 of Chapter 6.67, Division 20 of California's Health and Safety Code, Rinehart Petroleum, Inc. shall be liable to the extent of the reasonable cost actually incurred in overseeing or contracting for cleanup or abatement efforts. Rinehart Petroleum, Inc has agreed to reimburse the State according to Section 25270.9 and 25270.11.

25. **CEQA:** This action is an order to enforce the laws and regulations administered by the Board. As such, this action is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15321 of the Resources Agency Guidelines.
26. **Notification:** The Board has notified the discharger and all 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 an opportunity to submit their written comments.
27. **Public Hearing:** The Board, at a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, pursuant to Section 13304 of the California Water Code, that the discharger (or its agents, successors, or assigns) shall cleanup and abate the effects described in the above findings as follows:

A. PROHIBITIONS

1. The discharge of wastes or hazardous substances in a manner that will degrade water quality or adversely affect beneficial uses of waters of the State is prohibited.
2. Further significant migration of wastes or hazardous substances through subsurface transport to waters of the State is prohibited.
3. Activities associated with the subsurface investigation and cleanup that will cause significant adverse migration of wastes or hazardous substances are prohibited.

B. CLEANUP PLAN AND CLEANUP STANDARDS

1. **Implement Cleanup Plan:** The discharger shall complete the investigation, remediation, management, and monitoring activities described in Tasks C.1, C.2, C.3, and C.4.
2. **Groundwater Cleanup Standards:** The discharger shall propose groundwater cleanup standards, acceptable to the Executive Officer, to be met in all wells identified in the Self-Monitoring Program:

COMPLIANCE DATE: April 27, 2001

3. **Soil Cleanup Standards:** The discharger shall propose soil cleanup standards, acceptable to the Executive Officer, to be met in all locations within this site.

COMPLIANCE DATE: April 27, 2001

C. TASKS

1. **REMEDIAL INVESTIGATION WORKPLAN**

COMPLIANCE DATE: April 27, 2001

Submit a work plan, acceptable to the Executive Officer, to define the vertical and lateral extent of soil and groundwater pollution. The work plan shall specify investigation methods and a proposed time schedule, and is to be implemented immediately upon Executive Officer approval.

2. **COMPLETION OF REMEDIAL INVESTIGATION**

COMPLIANCE DATE: June 29, 2001

Submit a technical report, acceptable to the Executive Officer, documenting the results of the remedial investigation requested by Task C.1.

3. **PROPOSAL FOR REMEDIAL ACTIONS**

COMPLIANCE DATE: July 27, 2001

The dischargers shall submit a technical report, acceptable to the Executive Officer, containing a proposal for remedial actions for the site's soil and groundwater. These actions are intended to remediate the site's soil and groundwater so as to meet the Executive Officer approved cleanup standards specified in Items B.2 and B.3. The report is also to propose the installation of sufficient monitoring wells to verify remedial success, and is to include a time schedule. The remedial actions are to be implemented immediately upon Executive Officer approval.

4. **IMPLEMENTATION OF REMEDIATION PLAN FOR SOIL/GROUNDWATER**

COMPLIANCE DATE: September 21, 2001

Submit a technical report, acceptable to the Executive Officer, documenting the results of the remedial actions requested by Task C.3.

5. **STATUS REPORT**

COMPLIANCE DATE: January 29, 2002

Submit a technical report acceptable to the Executive Officer evaluating the effectiveness of the approved remedial actions. If Executive Officer approved cleanup standards have not been met and are not projected to be met within a reasonable time, the report should assess the technical practicability of meeting cleanup standards and may propose an alternative cleanup strategy.

6. **CURTAILMENT**

COMPLIANCE DATE: 60 days prior to proposed curtailment

Submit a technical report acceptable to the Executive Officer containing a proposal to curtail remediation. The report shall include the rationale for curtailment. Proposals for final closure shall demonstrate that Executive Officer approved cleanup standards have been met, contaminant concentrations are stable, and contaminant migration potential is minimal. The discharger shall submit a technical report acceptable to the Executive Officer documenting completion of the curtailment, no later than 60 days following Executive Officer approval of this request.

7. **SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN**

COMPLIANCE DATE: April 27, 2001

Submit a Spill Prevention Control and Countermeasures Plan for the subject facility, acceptable to the Executive Officer.

8. **SECONDARY CONTAINMENT AND MONITORING**

COMPLIANCE DATE: April 27, 2001 *and as Noted Below*

Submit a report prepared by a Registered Engineer, acceptable to the Executive Officer, documenting that the existing aboveground tanks, aboveground piping, underground piping and fuel dispensers have an adequate secondary containment and monitoring system to prevent petroleum releases to surface and groundwater.

If the Engineer indicates in the above that the secondary containment and monitoring system is inadequate, then include a time schedule, acceptable to the Executive Officer. The time schedule to bring the facility into compliance shall not exceed 6 months in duration, and shall have a completion date of no later than **December 30, 2001**. Certification that all future tanks and piping have adequate secondary containment and monitoring systems shall be provided within 60 days of their construction.

9. **PERIODIC INTEGRITY TESTING**

COMPLIANCE DATE: April 27, 2001

ANNUAL COMPLIANCE DATE: April 27 every year thereafter.

Submit a report, acceptable to the Executive Officer, documenting that all regulated tanks have been integrity tested on an annual basis using the most appropriate standard, taking into account tank design and using such techniques as hydrostatic testing or a system of nondestructive shell thickness testing.

10. **Delayed Compliance:** If the discharger is delayed, interrupted, or prevented from meeting one or more of the completion dates specified for the above tasks, the discharger shall promptly notify the Executive Officer.

D. PROVISIONS

1. **No Nuisance:** The storage, handling, treatment, or disposal of polluted soil or groundwater shall not create a nuisance as defined in California Water Code Section 13050(m).
2. **Good O&M:** The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the requirements of this Order.
3. **Cost Recovery:** The discharger shall be liable, pursuant to California Water Code Section 13304, to the Board for all reasonable costs actually incurred by the Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Order. If the site addressed by this Order is enrolled in a State Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program. Any disputes raised by the discharger over reimbursement amounts or methods used in that program shall be consistent with the dispute resolution procedures for that program.

4. **Access to Site and Records:** In accordance with California Water Code Section 13267(c), the discharger shall permit the Board or its authorized representative:
 - a. Entry upon premises in which any pollution source exists, or may potentially exist, or in which any required records are kept, which are relevant to this Order.
 - b. Access to copy any records required to be kept under the requirements of this Order.
 - c. Inspection of any monitoring or remediation facilities installed in response to this Order.
 - d. Sampling of any groundwater or soil which is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the discharger.
5. **Self-Monitoring Program:** The discharger shall comply with the Self-Monitoring Program as attached to this Order and as may be amended by the Executive Officer.
6. **Contractor / Consultant Qualifications:** All technical documents shall be signed by and stamped with the seal of a California registered geologist, a California certified engineering geologist, or a California registered civil engineer.
7. **Lab Qualifications:** All samples shall be analyzed by State-certified laboratories or laboratories accepted by the Board using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control (QA/QC) records for Board review. This provision does not apply to analyses that can only reasonably be performed on-site (e.g. temperature).
8. **Document Distribution:** Copies of all correspondence, technical reports, and other documents pertaining to compliance with this Order shall be provided to the following agencies:
 - a. County of Sonoma Office of Emergency Services

The Executive Officer may modify this distribution list as needed.
9. **Reporting of Changed Owner or Operator:** The discharger shall file a technical report on any changes in site occupancy or ownership associated with the property described in this Order.
10. **Petroleum Releases:** Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or

negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge plan in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with Section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This provision does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan (CWC Section 13272).

11. **Reporting of Hazardous Substance Release:** If any hazardous substance is discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, the discharger shall report such discharge to the Regional Board by calling (510) 622-2300 during regular office hours (Monday through Friday, 8:00 to 5:00).

A written report shall be filed with the Board within five working days. The report shall describe: the nature of the hazardous substance, estimated quantity involved, duration of incident, cause of release, estimated size of affected area, nature of effect, corrective actions taken or planned, schedule of corrective actions planned, and persons/agencies notified.

This reporting is in addition to reporting to the Office of Emergency Services required pursuant to the Health and Safety Code.

12. **Rescission of Existing Order:** This Order rescinds Order No. 91-121.
13. **Periodic SCR Review:** The Board will review this Order periodically and may revise it when necessary.

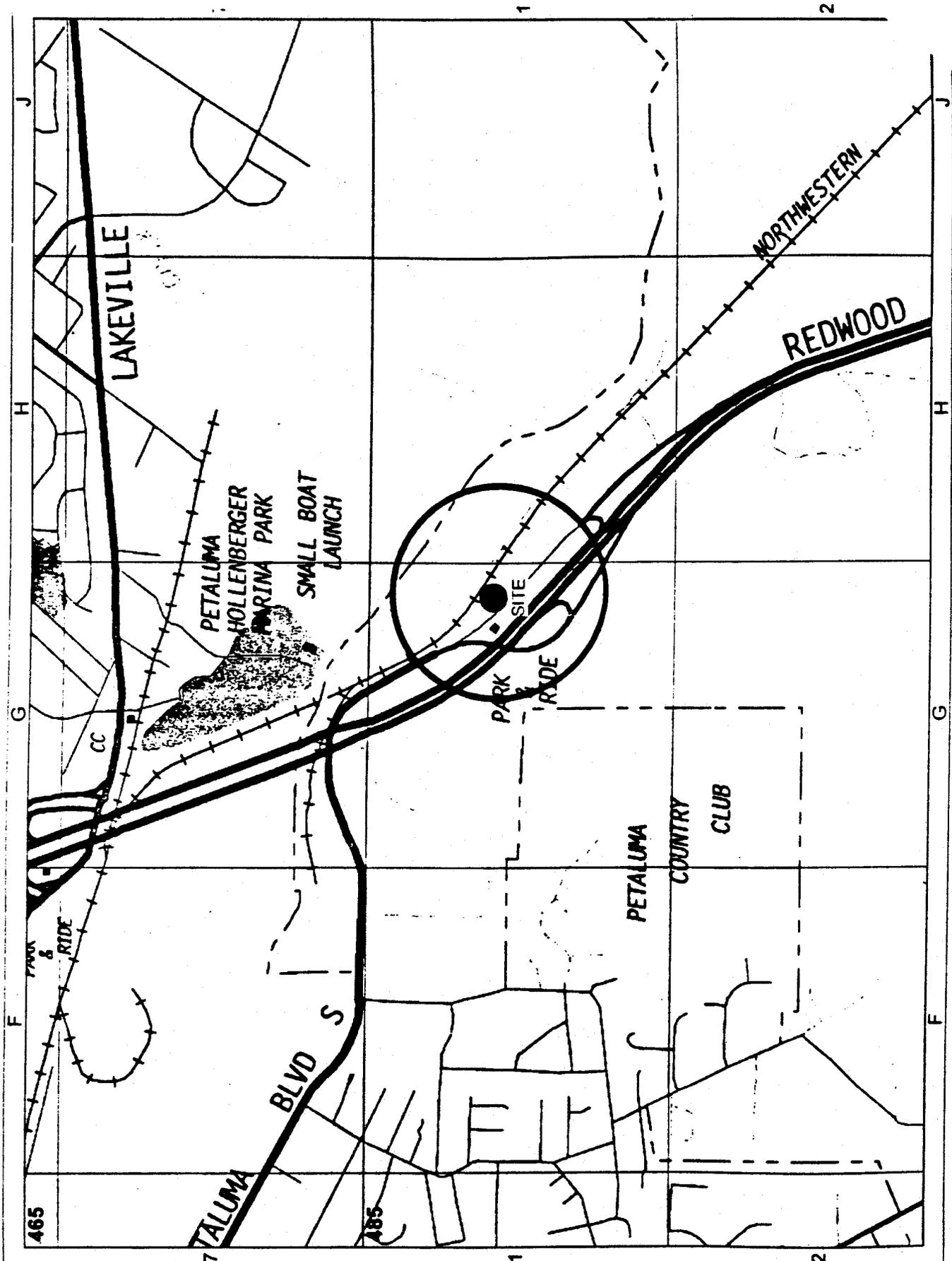
I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 21, 2001.


Loretta K. Barsamian
Executive Officer

FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS ORDER MAY SUBJECT YOU TO ENFORCEMENT ACTION, INCLUDING BUT NOT LIMITED TO: IMPOSITION OF ADMINISTRATIVE CIVIL LIABILITY UNDER WATER CODE SECTIONS 13268 OR

13350, OR REFERRAL TO THE ATTORNEY GENERAL FOR INJUNCTIVE RELIEF OR
CIVIL OR CRIMINAL LIABILITY

Attachments: Site Map
Self-Monitoring Program



©1997 Thomas Bros. Maps

● SITE: 2645 S Petaluma Blvd, Petaluma, 94952, Page & Grid 485 G1

FIGURE 1.

Site Location

CALIF

TENTATIVE SE

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

TENTATIVE SELF-MONITORING PROGRAM FOR:

R. REED RINEHART, RINEHART DISTRIBUTING, INC. & RINEHART OIL COMPANY
DBA RINEHART'S TRUCK STOP
P.O. BOX 725
2401 N. STATE ST.
UKIAH, CA 95482

for the property located at:

2645 PETALUMA BOULEVARD SOUTH
PETALUMA
SONOMA COUNTY

1. **Authority and Purpose:** The Board requests the technical reports required in this Self-Monitoring Program pursuant to Water Code Sections 13267 and 13304. This Self-Monitoring Program is intended to document compliance with Board Order No. 01-035.
2. **Monitoring:** The discharger shall measure groundwater elevations quarterly in all monitoring wells installed per Task C.6 until curtailment of monitoring program per Task C.11, and shall collect and analyze representative samples of groundwater according to the following table:

Well #	Sampling Frequency	Analyses
TBD*	Quarterly	TPH gasoline
		TPH Diesel
		MTBE
		VOC's

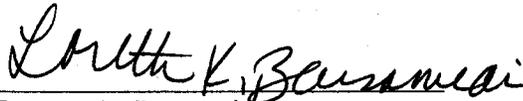
* To Be Determined from Task C.3. of Board Order 01-

3. **Quarterly Monitoring Reports:** The discharger shall submit quarterly monitoring reports to the Board no later than 30 days following the end of the quarter (e.g. report for first quarter of the year due April 30, with subsequent reports due July 31, October 31, and January 31). The first quarterly monitoring report shall be due on April 30, 2001. The reports shall include:

- a. **Transmittal Letter:** The transmittal letter shall discuss any violations during the reporting period and actions taken or planned to correct the problem. The letter shall be signed by the discharger's principal executive officer or his/her duly authorized representative, and shall include a statement by the official, under penalty of perjury, that the report is true and correct to the best of the official's knowledge.
 - b. **Groundwater Elevations:** Groundwater elevation data shall be presented in tabular form, and a groundwater elevation map should be prepared for each monitored water-bearing zone. Historical groundwater elevations shall be included in the fourth quarterly report each year.
 - c. **Groundwater Analyses:** Groundwater sampling data shall be presented in tabular form, and an isoconcentration map should be prepared for one or more key contaminants for each monitored water-bearing zone, as appropriate. The report shall indicate the analytical method used, detection limits obtained for each reported constituent, and a summary of QA/QC data. Historical groundwater sampling results shall be included in the fourth quarterly report each year. The report shall describe any significant increases in contaminant concentrations since the last report, and any measures proposed to address the increases. Supporting data, such as lab data sheets, need not be included (however, see record keeping - below).
 - d. **Groundwater Extraction:** If applicable, the report shall include groundwater extraction results in tabular form, for each extraction well and for the site as a whole, expressed in gallons per minute and total groundwater volume for the quarter. The report shall also include contaminant removal results, from groundwater extraction wells and from other remediation systems (e.g. soil vapor extraction), expressed in units of chemical mass per day and mass for the quarter. Historical mass removal results shall be included in the fourth quarterly report each year.
 - e. **Status Report:** The quarterly report shall describe relevant work completed during the reporting period (e.g. site investigation, interim remedial measures) and work planned for the following quarter.
5. **Violation Reports:** If the discharger violates requirements in the Site Cleanup Requirements, then the discharger shall notify the Board by telephone as soon as practicable once the discharger has knowledge of the violation. Board staff may, depending on violation severity, require the discharger to submit a separate technical report on the violation within five working days of telephone notification.
 6. **Other Reports:** The discharger shall notify the Board in writing prior to any site activities, such as construction or underground tank removal, which have the potential to cause further migration of contaminants or which would provide new opportunities for site investigation.

7. **Record Keeping:** The discharger or his/her agent shall retain data generated for the above reports, including lab results and QA/QC data, for a minimum of six years after origination and shall make them available to the Board upon request.
8. **SMP Revisions:** Revisions to the Self-Monitoring Program may be ordered by the Executive Officer, either on his/her own initiative or at the request of the discharger. Prior to making SMP revisions, the Executive Officer will consider the burden, including costs, of associated self-monitoring reports relative to the benefits to be obtained from these reports.

I, Loretta K. Barsamian, Executive Officer, hereby certify that this Self-Monitoring Program was adopted by the Board on March 21, 2001.



Loretta K. Barsamian
Executive Officer