

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
1102-A Laurel Lane
San Luis Obispo, California 93401

ORDER NO. 87-103

WASTE DISCHARGE REQUIREMENTS
FOR
STURDY OIL COMPANY & KERRY LUGO
EXXON SERVICE STATION, PRUNEDALE
MONTEREY COUNTY

The California Regional Water Quality Control Board, Central Coast Region, (hereafter Board), finds:

1. Bruce Hageman, President of Hageman-Schank, Inc., filed a report of Waste Discharge on March 23, 1987, in accordance with Section 13260 of the California Water Code. The report was filed on behalf of Sturdy Oil Company for authorization to discharge treated ground water within the Salinas sub-basin.
2. Sturdy Oil Company and Kerry Lugo (hereafter Dischargers) own and operate an Exxon gasoline service station facility at 2347 San Miguel Canyon Road, Prunedale, California 93901, located as shown on Attachment "A" of this Order. Dischargers store gasoline in underground tanks. Free floating product was found underneath a tank that had failed a pressure test. Cleanup or Abatement Order No. 86-329 sets maximum acceptable residual concentrations of dissolved gasoline constituents in the ground water. Contaminated ground water will be extracted, treated, and discharged into the ground on-site.
3. Approximately 200 gallons-per-day (0.76 cubic meters/day) of ground water will be treated through an air stripper. The treated water will be discharged on-site through injection wells to subsurface soil. The injection wells are located about 100 feet north-northwest of the ground water extraction wells.
4. Geology at the injection wells consists of silty sands to a depth of about 20 feet. This is underlain by clayey sand, silty clay, and sandy clay to at least 35 feet. Depth to shallow ground water is approximately 15 to 17 feet. The ground water gradient is south to southeast.
5. Surface drainage is to a tributary of Tembladero Slough, which flows to the west and is located approximately 2 to 3 miles south of the facility.

6. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on March 14, 1975, and approved by the State Water Resources Control Board on March 20, 1975. The Basin Plan designates beneficial uses of state waters, establishes water quality objectives, and sets forth regional and state policies, including a non-degradation policy. The Basin Plan states that whenever the existing water quality is better than what is established by objectives, the existing quality shall be maintained. It prohibits the discharge of any hazardous chemicals to waters of the State except in accordance with waste discharge requirements.
7. Beneficial uses of the shallow ground water in the vicinity of the discharge include agricultural and industrial water supply. Deeper aquifers are used for domestic supply.
8. The project involves extraction and treatment of ground water that has been polluted with gasoline. It is part of a cleanup project for the protection and restoration of the environment. As such, it is exempt from the provisions of the California Environmental Quality Act in accordance with Title 14, California Administration Code, Title 14, Chapter 3, Section 15308.
9. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
10. April 29, 1987, the Board notified the Discharger and interested agencies and persons of its intent to adopt waste discharge requirements for the discharge and provided them with a copy of the proposed order and an opportunity to submit written views and comments.
11. After considering all comments pertaining to this discharge during a public hearing on July 10, 1987, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED THAT, pursuant to authority in Section 13263 of the California Water Code, the Dischargers and its agents, successors, and assigns, may discharge waste at this facility providing compliance is maintained with the following:

(Note: Other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph D.2. of this Order).

A. Prohibitions

1. Bypass of the treatment process is prohibited.

B. Discharge Specifications

1. Daily flow averaged over each month shall not exceed 200 gallons (0.76 cubic meters/day). Total monthly flow shall not exceed 0.006 million gallons.
2. Effluent discharged to the injection wells shall not exceed the following limitations:

Parameter	Units	Maximum
Benzene	mg/l	0.0007
Toluene	mg/l	0.1000
Xylene	mg/l	0.6200
Total Hydrocarbons	mg/l	2.0000

3. Effluent discharged to the subsurface shall not have a pH less than 6.5 or greater than 8.5.

C. Ground Water Limitations

1. Excluding the parameters listed in paragraph C.2, below, the discharge shall not cause the quality of the shallow ground water to be degraded below that which occurs naturally, as determined from water quality data collected prior to discharge.
2. Shallow ground water quality shall be restored to the following limits:

Parameter	Units	Maximum
Benzene	mg/l	0.0007
Toluene	mg/l	0.1000
Xylene	mg/l	0.6200
Total Hydrocarbons	mg/l	2.0000

3. The discharge shall not adversely impact the quality of water in deeper aquifers.

D. Provisions

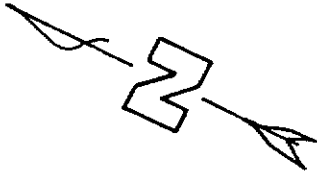
1. Discharger shall comply with "Monitoring and Reporting Program No. 87-103" as specified by the Executive Officer.
2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984; except A.8., A.11., A.13., A.15-A.17; and C.8., C.16., C.16.-C.18.
3. The treatment system shall be operated and maintained in a manner consistent with the manufacturer's recommendations and engineering design.
4. The system shall be operated in accordance with an operation plan that specifies operational procedures, including monitoring of the effectiveness of the system and recommended adjustments to maintain effectiveness and efficiency. In addition, the plan will describe contingency measures in event of breakdown. The plan is subject to the approval of the Executive Officer. The written operation plan must be submitted to the Executive Officer for approval before July 20, 1987.

I, WILLIAM R. LEONARD, Executive Officer of the California Regional Water Quality Control Board, Central Coast Region, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the Regional Water Quality Control Board on July 10, 1987.

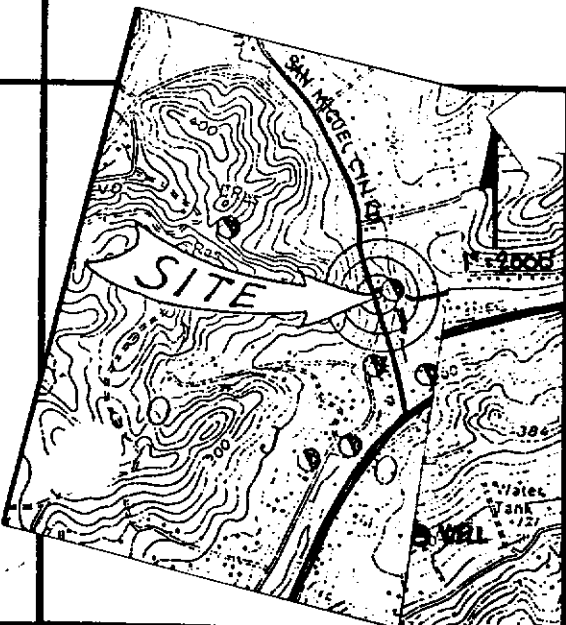
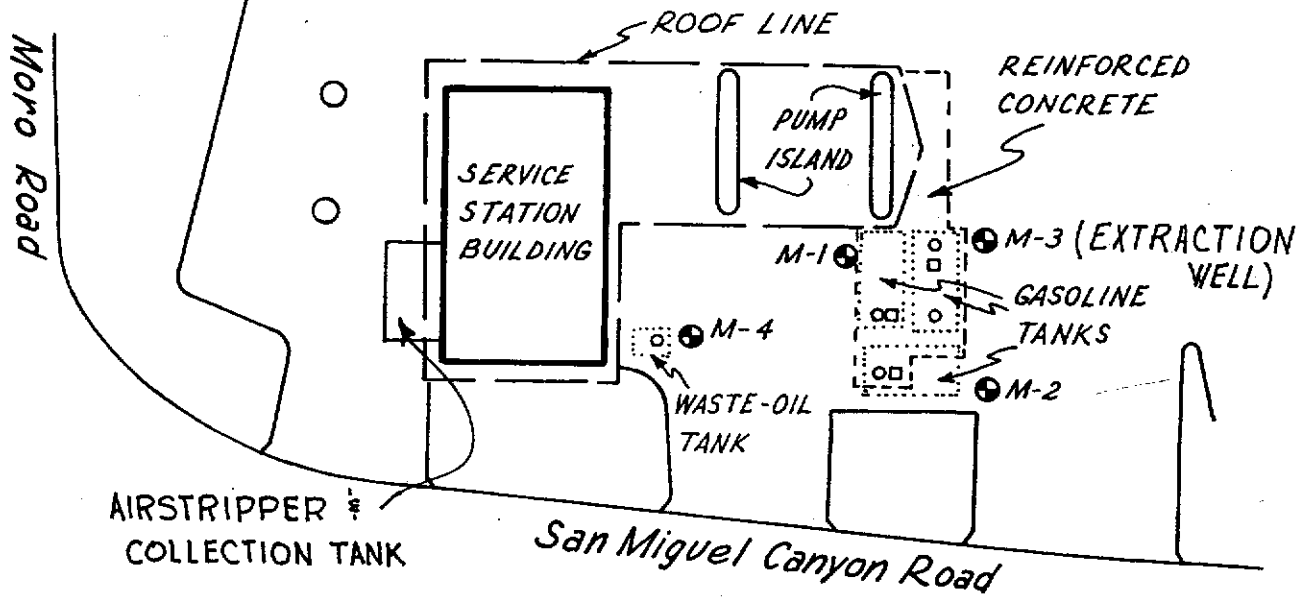

Executive Officer

RHH:lh

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Scale: 1"=30'



Legend

- Exploratory Boring/Monitoring Well
- Underground Storage Tank
- Injection Well

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

(REVISED February, 1991)

**MONITORING AND REPORTING PROGRAM NO. 87-103
FOR
STURDY OIL COMPANY & KERRY LUGO
EXXON SERVICE STATION,
2347 SAN MIGUEL CANYON ROAD,
PRUNEDALE, MONTEREY COUNTY**

TREATMENT SYSTEM INFLUENT MONITORING

Representative samples of the influent to the treatment system shall be collected and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Minimum Frequency of Analysis</u>
Total Daily Flow	gallons	Metered	Daily
Benzene	ug/l	Grab	Monthly
Toluene	ug/l	Grab	"
Ethylbenzene	ug/l	Grab	"
Xylene	ug/l	Grab	"
Total Hydrocarbons	mg/l	Grab	"
pH	-	Grab	"

TREATMENT SYSTEM EFFLUENT MONITORING

Representative samples of effluent from the treatment system shall be collected and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Minimum Frequency of Analysis</u>
Benzene	ug/l	Grab	Monthly
Toluene	ug/l	Grab	"
Ethylbenzene	ug/l	Grab	"
Xylene	ug/l	Grab	"
Total Hydrocarbons	mg/l	Grab	"
pH	-	Grab	"

RECEIVING GROUND WATER MONITORING

Representative samples of the groundwater from each of the monitoring wells shall be analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Minimum Frequency of Analysis</u>
Free Product Thickness	Inches	-	Weekly
Free Product Removed	Gallons	Hand Bailed	"
Water Elevation	Feet	Measured	Monthly
Benzene*	ug/l	Grab	Quarterly
Toluene*	ug/l	Grab	"
Ethylbenzene*	ug/l	Grab	"
Xylene*	ug/l	Grab	"
Total Petroleum Hydrocarbons*	mg/l	Grab	"

*Monitoring of this constituent not required if free product is present.

REPORTING

Monitoring reports shall be submitted by the 20th day of the month following each calendar quarter. The reports shall include all data required by this monitoring program for the quarter. In addition, an operational summary shall be included. This summary shall discuss shut-downs, any non-routine operational changes made to the treatment or discharge system during the reporting period, and an explanation of any violation. The monitoring reports shall also include: a summary of the remediation project including the status of any work in progress; all previous groundwater data in tabular form to allow comparison with historical data; an evaluation and interpretation of all available data; and shall discuss in detail the remediation system performance and projected ability and length of time to comply with cleanup levels, and any recommended modifications.

The first report shall include the months of December, January, February, and March. Thereafter, reports shall be in calendar quarter increments. The reports are due the 20th day of January, April, July, and October, with the next report due April 20th.

ORDERED BY

William R. Leonard

WILLIAM R. LEONARD
Executive Officer

February 21, 1991

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

(Revised August, 1987)

MONITORING AND REPORTING PROGRAM NO. 87-103

FOR

STURDY OIL COMPANY & KERRY LUGO
EXXON SERVICE STATION, PRUNEDALE
MONTEREY COUNTY

TREATMENT SYSTEM INFLUENT MONITORING

Representative samples of influent to the treatment system shall be collected and analyzed for the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency</u>
Total Daily Flow Volume	gallons	Metered	Daily
Benzene	mg/l	Grab	Monthly
Toluene	mg/l	Grab	Monthly
Xylene	mg/l	Grab	Monthly
Total Hydrocarbons	mg/l	Grab	Monthly
pH	-	Grab	Monthly

TREATMENT SYSTEM EFFLUENT MONITORING

Representative samples of effluent from the treatment system to the injection wells shall be collected and analyzed for the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Benzene	mg/l	Grab	Monthly
Toluene	mg/l	Grab	Monthly
Xylene	mg/l	Grab	Monthly
Total Hydrocarbons	mg/l	Grab	Monthly
pH	-	Grab	Monthly

RECEIVING GROUND WATER MONITORING

Representative samples of the receiving ground water shall be collected and analyzed pursuant to existing Cleanup and Abatement Order No. 86-230.

REPORTING

Monitoring reports shall be submitted by the 20th day of the month following the month of sample collection. The reports shall include all data required by this monitoring program for the preceding month. The monitoring reports shall include evaluation and interpretation of all available data and shall discuss in detail the performance of the entire system, including any recommended modification

ORDERED BY



Executive Officer

August 11, 1987

Date

RHH:lh

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