

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 85-71  
NPDES NO. CA0028843

WASTE DISCHARGE REQUIREMENTS FOR:

TEXACO, INCORPORATED, FREMONT AUTOMOTIVE SERVICE STATION  
FREMONT, ALAMEDA COUNTY, CALIFORNIA

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

1. Texaco, Incorporated (hereinafter called the discharger), owns a automotive service station located on the south west corner of the intersection of Fremont Avenue and Mowry Boulevard, in the City of Fremont. By Application dated February 26, 1985, the discharger has applied for issuance of waste discharge requirments and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. Studies by the discharger show that the groundwater beneath the site is contaminated with gasoline and its water soluble fractions such as benzene, toluene, ethyl benzene, xylenes, aliphatic hydrocarbons and miscellaneous aromatics. The apparent contamination was caused by underground pipe leakage. As of February 25, 1985, the plume of gasoline floating on the groundwater surface was about 210 feet wide by 350 feet long and was at a depth of about 48 feet. The greatest apparent thickness of the gasoline layer was 4.26 feet. The plume of dissolved gasoline constituents was about 360 feet wide by 390 feet long.
3. In order to halt the further movement of contaminants and to cleanup the affected groundwater, the discharger has installed ten extraction wells and is treating extracted groundwater in two parallel air strippers. The treated effluent consists of a maximum of 890,000 gallons per day (gpd) is discharged to a storm drain tributary to Mowry Slough and South San Francisco Bay (Waste 001).
4. Recent monitoring data show the effluent is in compliance with the proposed limits of this Order.

5. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for the South San Francisco Bay and discharge prohibitions.
6. The beneficial uses of South San Francisco Bay are:
  - Industrial Service Supply
  - Navigation
  - Water Contact Recreation
  - Non Contact Water Recreation
  - Commercial and Sport Fishing
  - Wildlife Habitat
  - Preservation of Rare and Endangered Species
  - Fish Migration
  - Fish Spawning
  - Shellfish Harvesting
  - Estuarine Habitat
7. The Basin Plan prohibits discharge of wastewater which has "particular characteristics of concern to beneficial uses" (a) "at any point in San Francisco Bay south of the Dumbarton Bridge" and (b) "at any point where the wastewater does not receive a minimum initial dilution of at least 10:1 or into any nontidal water, dead end slough, similar confined water or any immediate tributary thereof".
8. The Basin Plan allows for exemptions to the prohibitions referred to in Finding 7 above when it can be demonstrated that a net environmental benefit can be derived as a result of the discharge.
9. Exemptions to the prohibitions referred to in Finding 7 are warranted because the discharge is an integral part of a program to cleanup contaminated groundwater and thereby produce an environmental benefit, and because receiving water concentrations are expected to be below levels that would effect beneficial uses.
10. The Basin Plan prohibits discharge of "all conservative toxic and deleterious substances, above those levels which can be achieved by a program acceptable to the Board, to waters of the Basin". The discharger's ground water extraction and treatment system and associated operation, maintenance and monitoring plan constitutes an acceptable control program for minimizing the discharge of toxicants to waters of the State.

11. Effluent limitations of this Order are based on the Basin Plan, State plans and policies, and best engineering judgement.
12. The issuance of waste discharge requirements for the discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
13. The Board has notified the discharger and interested agencies and persons of its intent to issue discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
14. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

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

A. Effluent Limitations

1. The discharge of waste 001 containing constituents in excess of the following limits is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>
Total Fuel Hydrocarbons*	mg/l	.100	0.200
Toluene	mg/l		0.002
Phosphate	mg/l	4.0	6.0

\*(Benzene, Toluene, Ethyl Benzene, Total Xylenes, Aliphatic Hydrocarbons and Misc. Aromatics).

2. The pH of the discharged waste shall not exceed 8.5, nor be less than 6.5.
3. In any representative set of samples, the discharge of Waste 001 shall meet the following limit of quality:



- |    |                              |   |
|----|------------------------------|---|
| b. | pH                           | The pH shall not be depressed below 6.5 nor caused to vary from normal ambient pH by levels more than 0.5 pH units. |
| c. | Un-ionized Ammonia<br>(as N) | 0.025 mg/l Annual Median<br>0.4 mg/l Maximum at any time  |
3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board of the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. The discharger shall comply with all sections of this Order immediately upon adoption
2. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
3. This Order includes all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977 except A.5, A.12, B.2, B.5, C.2 and C.4.
4. This Order expires June 19, 1990 and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

5. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect 10 days from date of hearing provided the Regional Administrator, U.S Environmental Protection Agency, has no objections.

I, Roger B. James, Executive Officer do hereby certify 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 June 19, 1985.



ROGER B. JAMES  
Executive Officer

Attachments:

Standard Provisions and Reporting  
Requirements and Definition dated April 1977  
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

TEXACO, INCORPORATED

FREMONT, ALAMEDA COUNTY

NPDES NO. CA0028843

ORDER NO. 85-71

CONSISTS OF

GENERAL INFORMATION

AND

PART B

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

GENERAL INFORMATION

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent of other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, EPA "Test Methods" for organic chemical analysis, or other methods approved and specified by the Executive Officer of this Regional Board.

C. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board and the U.S. Coast Guard by telephone immediately after occurrence. A written report shall be filed with the Regional Board within five (5) days and shall contain information relative to:

- a. nature of waste or pollutant,
- b. quantity involved,
- c. cause of spilling,
- d. estimated size of affected area,
- e. nature of effects (i.e., fishkill, discoloration of receiving water, etc.),
- f. corrective measures that have been taken, or planned, and a schedule of these activities, and
- g. persons notified.

2. Bypass Reports

Bypassing reporting shall be an intergral part of regular monitoring program reporting, and a report on bypassing of untreated waste or bypassing of any treatment unit(s) shall be made which will include cause, time and date, duration and estimated volume of waste bypassed, method used in estimating volume, and persons notified, for planned and/or unplanned bypasses.

The discharger shall file a written report at least 15 days prior to advertising for bid on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said report shall describe the nature, costs, and scheduling of all action necessary to preclude such discharge. In no case should any discharge of sewage-bearing wastes be permitted without at least primary treatment and chlorination.

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) maintenance work, power failures, or breakdown of waste treatment equipment, or
- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

the discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, if the noncompliance caused by items (a), (b), or (c) above is with respect to any of the effluent limits, the waste discharger shall promptly accelerate this monitoring program to analyze the discharge at least once every day for those constituents which have been violated. Such daily analysis shall continue until such time as the effluent limits have been attained, or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

### 3. Self-Monitoring Reports

Written reports shall be filed regularly within 30 days of the end of the month. The reports shall be comprised of the following:

#### a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed:

- (1) In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates, or
- (2) In the case of a partnership, by a general partner, or
- (3) In the case of a sole proprietorship, by the proprietor, or
- (4) In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared using the example shown in Appendix A. The discharger will prepare the format using those parameters requirement limits for receiving water and effluent constituents specified in his permit.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Part B by date, time, type of sample, and station, signed by the laboratory director. The report format will be prepared using the examples shown in Appendix B or equivalent.

e. Identification of Analytical Methods

The report shall include a table identifying by method number the analytical methods used for organic chemical analysis. Any special methods should be identified with a descriptive name and the date of submittal to or approval by the Board.

f. Flow Rate Changes

The report shall include a description of any significant changes in well flow rates including the cause and date and time of such changes.

4. Annual Reporting

By February 15 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year or equivalent.

Attachments:  
Appendix A  
Appendix B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

<u>Station</u>	<u>Description</u>
A-1	At a point in the groundwater collection system immediately prior to treatment.

B. EFFLUENT

<u>Station</u>	<u>Description</u>
E-1	At any point in the discharge line from the groundwater treatment system where the treated groundwater is present and prior to mixing with storm drain water.

C. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
C-1	At a point in the Alameda County Flood Control and Water Conservation District's storm drain system on Argonaut Way about 1/4 mile westerly from the point of discharge on the west side of the street.
C-2	At a point in the Alameda County Flood Control & Water Conservation District's storm drain system on Farwell Drive on the west side of the street.

II. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis shall be that given as Table I.

III. MISCELLANEOUS REPORTING

If for any reason the treatment system is shut down, supplementary monitoring for those parameters as outlined in Table 1 will be required upon resumption of pumping. Specifically, testing will be required for the first two days after startup and then weekly for four weeks.

A written report will be submitted within two weeks of startup describing the duration and cause of any equipment shutdowns.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 85-71.
2. Is effective on the date shown below.

  
ROGER B. JAMES  
Executive Officer

Effective Date July 1, 1985



TABLE 1 (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	A-1	E-1	C-1	C-2										
TYPE OF SAMPLE	G	G	G	G										
Mercury (mg/l & kg/day)														
Nickel (mg/l & kg/day)														
Zinc (mg/l & kg/day)														
Phenolic Compounds (mg/l & kg/day)														
All Applicable Standard Observations														
Total Dissolved Solids (mg/l and kg/d)		Y	Y											
Toluene (ug/l and kg/d)	(4) M	(3,4) M	M	(4)										
Benzene (ug/l and kg/d)	M	(3,4) M	M											
Ethyl Benzene (ug/l and kg/d)	M	(3,4) M	M											
Total Xylenes (ug/l and kg/d)	M	(3,4) M	M											
Total Aliphatics (ug/l and kg/d)	M	M	M											
Misc. Aromatics (ug/l and kg/d)	M	M	M											
Unionized Ammonia (mg/l)			Y											

LEGEND FOR TABLE

TYPES OF SAMPLES

- G = grab sample
- C-24 = composite sample - 24-hour
- C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
- Cont = continuous sampling
- DI = depth-intergrated sample
- BS = bottom sediment sample
- O = observation

TYPES OF STATIONS

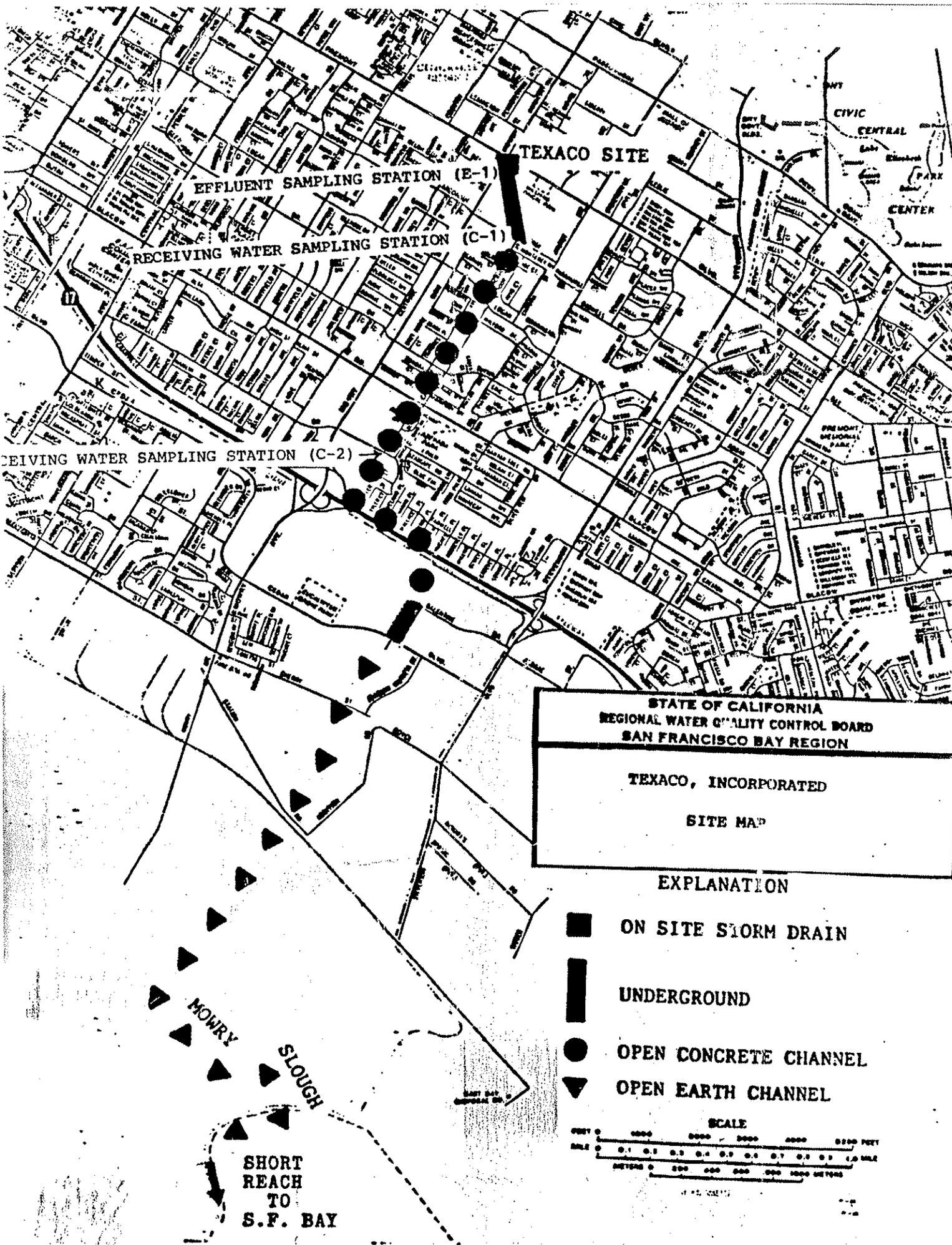
- I = intake and/or water supply stations
- A = treatment facility influent stations
- E = waste effluent stations
- C = receiving water stations
- P = treatment facilities perimeter stations
- L = basin and/or pond levee stations
- B = bottom sediment stations
- G = groundwaters stations

FREQUENCY OF SAMPLING

- E = each occurrence
- H = once each hour
- D = once each day
- W = once each week
- M = once each month
- Y = once each year
- F = once within three months of startup
- Q = Quarterly
- 2/H = twice per hour
- 2/W = 2 days per week
- 5/W = 5 days per week
- 2/M = 2 days per month
- 2/y = once in March and once in September
- Q = quarterly, once in March, June, Sept. and December
- 2H = every 2 hours
- 2D = every 2 days
- 2W = every 2 weeks
- 3M = every 3 months
- Cont = continuous

FOOTNOTES

- (1) Monthly for 3 months and quarterly thereafter
- (2) Total Fuel Hydrocarbons = sum of benzene, toluene, ethyl benzene, total xylenes, aliphatic hydrocarbons, and misc. aromatics.
- (3) An additional sample shall be taken on any day that an air stripper is removed from service, until such time as the discharger can document the ability of the system to meet requirements under such operating conditions.
- (4) Upon pump startup after a shutdown of a majority of extraction pumps, additional samples shall be taken one and two days after startup.

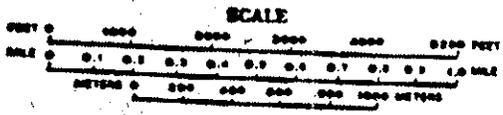


STATE OF CALIFORNIA  
 REGIONAL WATER QUALITY CONTROL BOARD  
 SAN FRANCISCO BAY REGION

TEXACO, INCORPORATED  
 SITE MAP

EXPLANATION

- ON SITE STORM DRAIN
- ▬ UNDERGROUND
- OPEN CONCRETE CHANNEL
- ▼ OPEN EARTH CHANNEL



SHORT REACH TO S.F. BAY