California Regional Water Quality Control Board

Los Angeles Region

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AC

January 25, 2002

Mr. Jim Adams
Tosco Refining Company
P.O. Box 2628
Santa Fe Springs, CA 90670

Dear Mr. Adams:

COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE REQUIREMENTS – TOSCO REFINING COMPANY, 42" PIPELINE RELOCATION PROJECT, TERMINAL ISLAND FREEWAY, WILMINGTON, CALIFORNIA (NPDES NO. CAG994002, CI-8368)

We have completed our review of your application for a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).

Based on the information provided, the proposed discharge of groundwater meets the conditions specified in Order No. 97-043, *General National Pollutant Discharge Elimination System Permit and Waste Discharge Requirements for Discharges of Treated Groundwater Discharges From Construction and Project Dewatering to Surface Waters in the Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by this Board on May 12, 1997.

Enclosed are your Waste Discharge Requirements, which also serve as your General NPDES permit, consisting of Order No. 97-043 and Monitoring and Reporting Program No. CI-8368. The discharge limitations in Part E of Order No. 97-043 are applicable to your discharge. The groundwater discharge from the site drains into the Dominguez Channel, therefore, the discharge limitations in Attachment A are not applicable to your discharge. Prior to beginning discharge, a representative sample of the effluent shall be obtained and analyzed to determine compliance with the discharge limitations.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of coverage under this permit. All monitoring reports should be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-8368 and NPDES No. CAG994002", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

In order to avoid future annual fees, please submit written notification when the project has been completed and the permit is no longer needed.

We are sending Board Order No. 97-043 only to the applicant. For those on the mailing list, please refer to the Board Order previously sent to you. A copy of the Order will be furnished to anyone who requests it.

If you have any questions, please contact Dr. James Tang at (213) 576-6696.

Sincerely,

Dennis A. Dickerson
Executive Officer

Enclosures: Fact Sheet
Monitoring and Reporting Program No. 8368
Order No. 97-043, General NPDES Permit No. CAG994002
Appendix A

cc: Environmental Protection Agency, Region 9, Clean Water Act Standards and Permits Office (WTR-5)
U.S. Army Corps of Engineers
NOAA, National Marine Fisheries Service
Department of Interior, U.S. Fish and Wildlife Service
Jim Kassel, Division of Water Quality, State Water Resources Control Board
Michael Lauffer, Office of the Chief Counsel, State Water Resources Control Board
Department of Fish and Game, Region 5
Los Angeles County Department of Public Works, Flood Control and Drainage
Los Angeles County Department of Environmental Health
Steve Sellinger, Envent Corporation (Signal Hill office)

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State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
320 West 4th Street, Suite 200, Los Angeles

FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
TOSCO REFINING COMPANY
(42" Pipeline Relocation Project, Terminal Island Feeway)

NPDES NO. CAG994002
CI-8368

PROJECT LOCATION
Farragut Avenue at Terminal Island Freeway
Wilmington, CA 90744

FACILITY MAILING ADDRESS
P.O. Box 2628
Santa Fe Springs, CA 90670

PROJECT DESCRIPTION

Tosco Refining Company (Tosco) operates a 42" crude oil pipeline leading from the Port of Long Beach Pier E to Carson. The pipeline crosses under a retaining wall that the Alameda Corridor Transportation Authority (ACTA) is proposing to construct. ACTA is requesting Tosco to relocate the 42" pipeline beyond the footing of the proposed retaining wall. Tosco will relocated the pipeline approximately 48 feet north of the current location. Dewatering is anticipated during the construction activities. Tosco proposes to store the extracted groundwater in a clarifier for settling and for pre-sampling. The tested groundwater will then be passed through particulate filters and a series of two canisters containing granular activated carbon (GAC). Tosco will analyze the treated groundwater prior to discharge into storm drain.

VOLUME AND DESCRIPTION OF DISCHARGE

Tosco will discharge up to 280,000 gallons per day (gpd) of treated groundwater into the storm drain (Latitude 33° 47' 01", Longitude 118°13' 19"). The discharge flows into the Dominguez Channel, a water of the United States. The site location and the schematic of waste flow diagram are shown as Figure 1 and 2.

FREQUENCY OF DISCHARGE

The discharge will be intermittent and will begin in February 2002. The construction project will last approximately two months.

REUSE OF WATER

Some of the groundwater will be used during construction for activities such as dust control and compaction. There are no other feasible reuse options for the groundwater. Therefore, majority of the groundwater will be discharged to the storm drain.

FIGURE 1

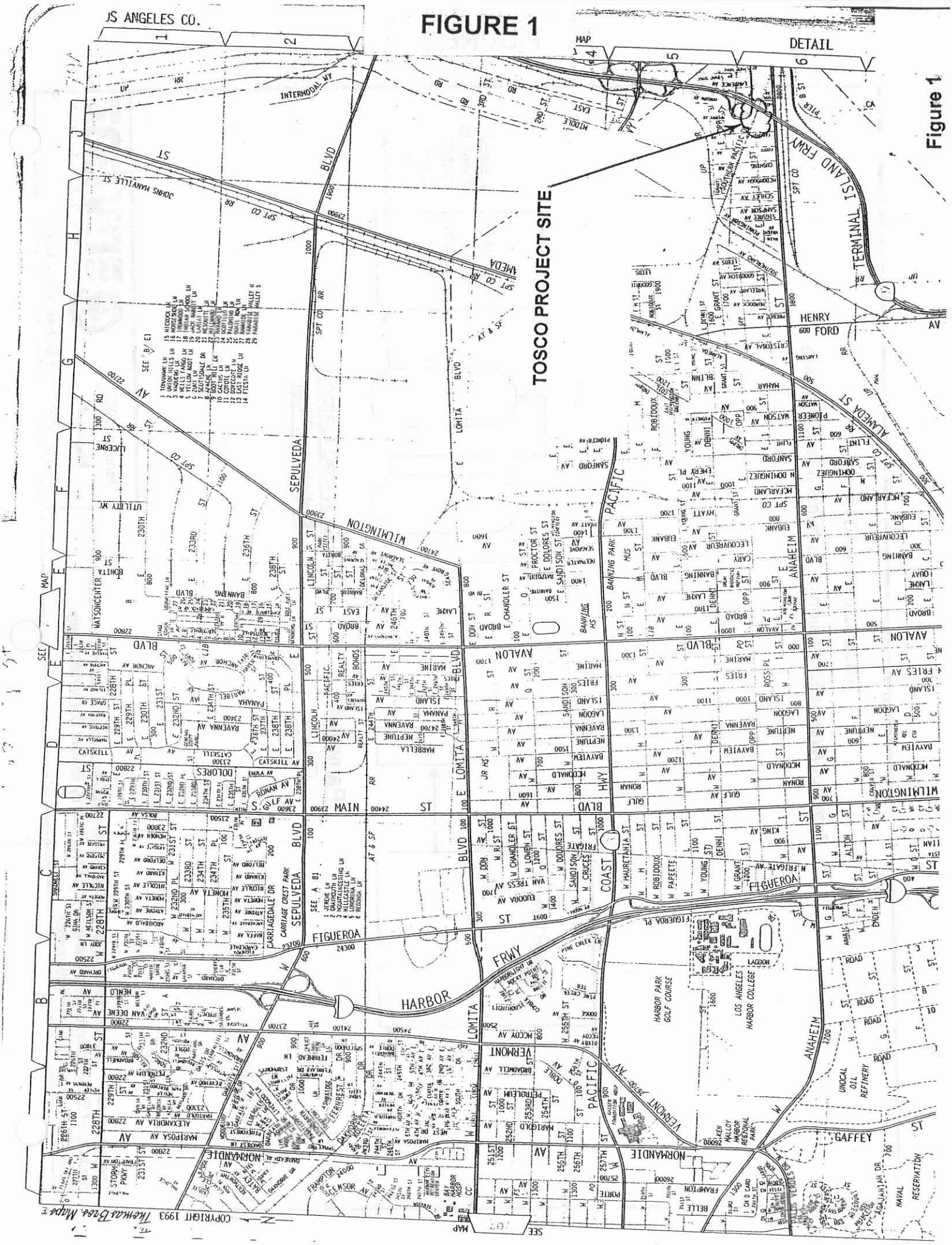

Figure 1

Tosco 42 Inch – ACTA

Farragut Avenue Extension at Terminal Island Freeway

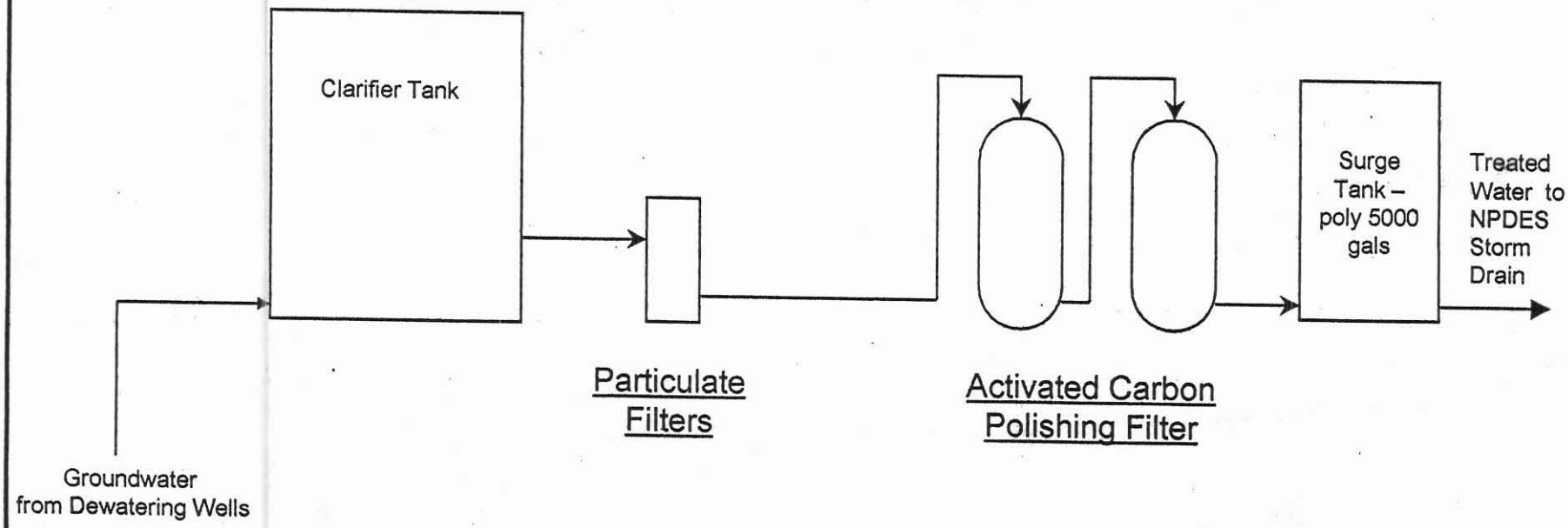

FIGURE 2

January 2002

Figure 4

Water Treatment Schematic - Tosco

ENVENT CORPORATION

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI-8368
for
Tosco Refining Company
(42" Pipeline Relocation Project, Terminal Island Freeway)
NPDES NO. CAG994002

I. REPORTING REQUIREMENTS

A. The discharger shall implement this monitoring program on the effective date of coverage under this permit. The discharger shall submit monitoring reports to this Regional Board by the dates in the following schedule:

Reporting Period	Report Due
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15
Annual Summary Report	March 15

B. The first monitoring report under this Program is due by April 15, 2002. The annual summary report shall contain a discussion of the previous year's effluent monitoring data, as well as graphical and tabular summaries of the data. If there is no discharge during any reporting period, the report shall so state.

C. All monitoring reports shall include discharge limitations in the Order, tabulated analytical data, the chain of custody form, the analytical laboratory report (including, but not limited to: date and time of sampling, date of analyses, method of analysis, and detection limits), and discharge certification statement.

D. Before commencing a new discharge, a representative sample of the effluent shall be collected and analyzed for all the constituents listed in Section III.D., and test results must meet all discharge limitations in Part E of Order No. 97-043.

II. SAMPLE COLLECTION REQUIREMENTS

A. Daily samples shall be collected each day.
B. Weekly samples shall be collected on a representative day of each week.
C. Monthly samples shall be collected on a representative day of each month.
D. Quarterly samples shall be collected in February, May, August, and November.
E. Semi-annual samples shall be collected in May and November.
F. Annual samples shall be collected in November.

III. EFFLUENT MONITORING REQUIREMENTS

A. Sampling station(s) shall be established for each point of discharge and shall be located where representative samples of that effluent can be obtained. Provisions shall be made to enable visual inspection before discharge. In the event of presence of oil sheen, debris, and/or other objectionable materials or odors, discharge shall not commence until compliance with the requirements is demonstrated. All visual observations shall be included in the monitoring report.

B. If monitoring results indicate an exceedance of a limit contained in Order No. 97-043, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented and full compliance with the requirements has been ascertained.

C. In addition, as applicable, following an effluent limit exceedance, the discharger shall implement the following accelerated monitoring program:

1. Monthly monitoring shall be increased to weekly monitoring.
2. Quarterly monitoring shall be increased to monthly monitoring, and
3. Semi-annually monitoring shall be increased to quarterly.

If three consecutive accelerated monitoring events demonstrate full compliance with effluent limits, then, the discharger may return to regular monitoring frequency, with the approval of the Executive Officer of the Regional Board.

D. The following shall constitute the discharge monitoring program:

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total Waste Flow	gal/day	totalizer	continuously
Temperature	°F	grab	monthly
pH	pH units	grab	monthly
Total Suspended Solids	mg/L	grab	monthly
Turbidity	mg/L	grab	monthly
BOD_5 @ 20°C	mg/L	grab	monthly
Settleable Solids	ml/L	grab	monthly
Sulfides	mg/L	grab	monthly
Oil and Grease	mg/L	grab	monthly
Detergents as Methylene Blue Active Substances (MBAS)	mg/L	grab	monthly

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total Petroleum Hydrocarbons	µg/L	grab	monthly(1)
Benzene	µg/L	grab	monthly(1)
Toluene	µg/L	grab	monthly(1)
Ethylbenzene	µg/L	grab	monthly(1)
Xylene	µg/L	grab	monthly(1)
Ethylene dibromide	µg/L	grab	monthly(1)
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	monthly(1)
Arsenic	µg/L	grab	monthly
Copper	µg/L	grab	monthly
Cadmium	µg/L	grab	monthly
Chromium	µg/L	grab	monthly
Lead	µg/L	grab	monthly
Mercury	µg/L	grab	monthly
Selenium	µg/L	grab	monthly
Silver	µg/L	grab	monthly
Phenols	mg/L	grab	quarterly
Phenolic Compounds (chlorinated)	µg/L	grab	quarterly
Carbon tetrachloride	µg/L	grab	quarterly
Tetrachloroethylene	µg/L	grab	quarterly
Trichloroethylene	µg/L	grab	quarterly
1,4-dichlorobenzene	µg/L	grab	quarterly
1,1-dichloroethane	µg/L	grab	quarterly
1,2-dichloroethane	µg/L	grab	quarterly
1,1-dichloroethylene	µg/L	grab	quarterly
Vinyl chloride	µg/L	grab	quarterly
Acute Toxicity	%survival	grab	annually
Remaining EPA Priority Pollutants (See Attachment A)	µg/L	grab	annually

IV. EFFLUENT TOXICITY TESTING

A. The discharger shall conduct acute toxicity tests on 100% effluent grab samples by methods specified in 40 CFR Part 136 which cites USEPA's *Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms.* August 1993, (EPA/600/4-90/027F) or a more recent edition. Submission of bioassay results should include the information noted on pages 71-74 of the EPA/600/4-90/027F document.

(1) Weekly for the first month of operation and monthly thereafter if no exceedance is observed.

B. The fathead minnow, *Pimephales promelas*, shall be used as the test species for fresh water discharges and the topsmelt, *Atherinops affinis*, shall be used as the test species for brackish discharges. The method for topsmelt is found in USEPA's *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, First Edition, August 1995 (EPA/600/R-95/136).

C. If the results of the toxicity test yields a survival of less than 90%, then the frequency of analyses shall increase to monthly until at least three test results have been obtained and full compliance with effluent limitations has been demonstrated, after which the frequency of analyses shall revert to annually. Results of toxicity tests shall be included in the first monitoring report following sampling.

V. GENERAL PROVISIONS FOR REPORTING

A. The discharger shall inform this Regional Board 24 hours before the start of the discharge.

B. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be provided with the first monitoring report and each time a new and/or renewal is obtained from ELAP.

C. Samples must be analyzed within allowable holding times as specified in 40 CFR Part 136.3. All Quality Assurance/Quality Control (QA/QC) analyses should be performed on the same dates when samples are actually analyzed and documentation shall accompany the laboratory reports.

D. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL) and the Minimum Level[(2)] (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported with one of the following methods, as the case may be:

1. An actual laboratory measured value for sample results greater than or equal to the ML; or

(2) The minimum levels are those published by the State water Quality Control Board in the Policy for the implementation of Toxic Standards for Inland Surface Water, Enclosed Bays, and Estuaries of California, March 2, 2000. See attached Appendix A.

2. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML. The estimated chemical concentration[3] of the sample shall also be reported; or

3. "Not-Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

The ML employed for an effluent analysis shall be lower than the permit limit established for a given parameter, unless the discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. At least once a year, the discharger shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.

VI. NOTIFICATION

A. The discharger shall notify the Executive Officer in writing prior to discharge of any chemical that may be toxic to aquatic life. Such notification shall include:

1. Name and general composition of the chemical,
2. Frequency of use,
3. Quantities to be used,
4. Proposed discharge concentrations, and
5. EPA registration number, if applicable.

No discharge of such chemical shall be made prior to obtaining the Executive Officer's approval.

B. The discharger shall notify the Regional Board via telephone and/or fax within 24 hours of noticing an exceedance above the effluent limits in Order No. 97-043. The discharger shall provide to the Regional Board within 14 days of observing the exceedance a detailed statement of the actions undertaken or proposed that will bring the discharge into full compliance with the requirements and submit a timetable for correction.

(3) Estimated chemical concentration is the estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

VII. MONITORING FREQUENCIES

Monitoring frequencies may be adjusted by the Executive Officer to a less frequent basis if the Discharger requests same and the request is backed by statistical trends of monitoring data submitted.

Ordered by: _____
Dennis A. Dickerson
Executive Officer

Date: January 25, 2002

Jt/

PRIORITY POLLUTANTS

Metals

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

Miscellaneous

Cyanide
Asbestos (only if specifically required)

Pesticides & PCBs

Aldrin
Chlordane
Dieldrin
4,4'-DDT
4,4'-DDE
4,4'-DDD
Alpha-endosulfan
Beta-endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC
Toxaphene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260

Base/Neutral Extractibles

Acenaphthene
Benzidine
1,2,4-trichlorobenzene
Hexachlorobenzene
Hexachloroethane
Bis(2-chloroethyl) ether
2-chloronaphthalene
1,2-dichlorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
3,3'-dichlorobenzidine
2,4-dinitrotoluene
2,6-dinitrotoluene
1,2-diphenylhydrazine
Fluoranthene
4-chlorophenyl phenyl ether
4-bromophenyl phenyl ether
Bis(2-chloroisopropyl) ether
Bis(2-chloroethoxy) methane
Hexachlorobutadiene
Hexachlorocyclopentadiene
Isophorone
Naphthalene
Nitrobenzene
N-nitrosodimethylamine
N-nitrosodi-n-propylamine
N-nitrosodiphenylamine
Bis (2-ethylhexyl) phthalate
Butyl benzyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
Benzo(a) anthracene
Benzo(a) pyrene
Benzo(b) fluoranthene
Benzo(k) fluoranthene
Chrysene
Acenaphthylene
Anthracene
1,12-benzoperylene
Fluorene
Phenanthrene
1,2,5,6-dibenzanthracene
Indeno (1,2,3-cd) pyrene
Pyrene
TCDD

Acid Extractibles

2,4,6-trichlorophenol
P-chloro-m-cresol
2-chlorophenol
2,4-dichlorophenol
2,4-dimethylphenol
2-nitrophenol
4-nitrophenol
2,4-dinitrophenol
4,6-dinitro-o-cresol
Pentachlorophenol
Phenol

Volatile Organics

Acrolein
Acrylonitrile
Benzene
Carbon tetrachloride
Chlorobenzene
1,2-dichloroethane
1,1,1-trichloroethane
1,1-dichloroethane
1,1,2-trichloroethane
1,1,2,2-tetrachloroethane
Chloroethane
Chloroform
1,1-dichloroethylene
1,2-trans-dichloroethylene
1,2-dichloropropane
1,3-dichloropropylene
Ethylbenzene
Methylene chloride
Methyl chloride
Methyl bromide
Bromoform
Dichlorobromomethane
Chlorodibromomethane
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride
2-chloroethyl vinyl ether
Xylene

vbc 6/6/00

SWRCB Minimum Levels in ppb (µg/L)

The Minimum Levels (MLs) in this appendix are for use in reporting and compliance determination purposes in accordance with section 2.4 of the State Implementation Policy. These MLs were derived from data for priority pollutants provided by State certified analytical laboratories in 1997 and 1998. These MLs shall be used until new values are adopted by the SWRCB and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides and PCBs.

Table 2a - VOLATILE SUBSTANCES*	GC	GCMS
1,1 Dichloroethane	0.5	1
1,1 Dichloroethene	0.5	2
1,1,1 Trichloroethane	0.5	2
1,1,2 Trichloroethane	0.5	2
1,1,2,2 Tetrachloroethane	0.5	1
1,2 Dichlorobenzene (volatile)	0.5	2
1,2 Dichloroethane	0.5	2
1,2 Dichloropropane	0.5	1
1,3 Dichlorobenzene (volatile)	0.5	2
1,3 Dichloropropene (volatile)	0.5	2
1,4 Dichlorobenzene (volatile)	0.5	2
Acrolein	2.0	5
Acrylonitrile	2.0	2
Benzene	0.5	2
Bromoform	0.5	2
Bromomethane	1.0	2
Carbon Tetrachloride	0.5	2
Chlorobenzene	0.5	2
Chlorodibromo-methane	0.5	2
Chloroethane	0.5	2
Chloroform	0.5	2
Chloromethane	0.5	2
Dichlorobromo-methane	0.5	2
Dichloromethane	0.5	2
Ethylbenzene	0.5	2
Tetrachloroethene	0.5	2
Toluene	0.5	2
Trans-1,2 Dichloroethylene	0.5	1
Trichloroethene	0.5	2
Vinyl Chloride	0.5	2

*The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Hexachloro-cyclopentadiene	5	5		
Hexachlorobenzene	5	1		
Hexachlorobutadiene	5	1		
Hexachloroethane	5	1		
Indeno(1,2,3,cd)-pyrene		10	0.05	
Isophorone	10	1		
N-Nitroso diphenyl amine	10	1		
N-Nitroso-dimethyl amine	10	5		
N-Nitroso -di n-propyl amine	10	5		
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		
Pentachlorophenol	1	5		
Phenanthrene		5	0.05	
Phenol **	1	1		50
Pyrene		10	0.05	

* With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1,000; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1,000.

** Phenol by colorimetric technique has a factor of 1.

Table 2c INORGANICS*	FAA	GFAA	ICP	ICPMS	SPGFAA	HYDRIDE	CVAA	COLOR	DCP
Antimony	10	5	50	0.5	5	0.5			1,000
Arsenic		2	10	2	2	1		20	1,000
Beryllium	20	0.5	2	0.5	1				1,000
Cadmium	10	0.5	10	0.25	0.5				1,000
Chromium (total)	50	2	10	0.5	1				1,000
Chromium VI	5							10	
Copper	25	5	10	0.5	2				1,000
Cyanide								5	
Lead	20	5	5	0.5	2				10,000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1,000
Selenium		5	10	2	5	1			1,000
Silver	10	1	10	0.25	2				1,000
Thallium	10	2	10	1	5				1,000
Zinc	20		20	1	10				1,000

* The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.