KF

California Regional Water Quality Control Board

Los Angeles Region

(50 Years Serving Coastal Los Angeles and Ventura Counties)

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640
Internet Address: http://www.swrcb.ca.gov/rwqcb4

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

October 25, 2002

Mr. Glenn Smith
ARCO Service Station
P.O. Box 189
Millville, CA 96062

Certified Mail
Return Receipt Requested
Claim No. 7001 2510 0003 6055 5312

Dear Mr. Smith:

COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE REQUIREMENT – ARCO SERVICE STATION, 6580 PARAMOUNT BOULEVARD, LONG BEACH, CALIFORNIA (NPDES NO. CAG834001, CI-8486)

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. R4-2002-0125, *Waste Discharge Requirements for Treated Groundwater and Other Wastewaters from Investigation and/or Cleanup of Petroleum Fuel-Contaminated Sites to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties (General NPDES Permit No. CAG834001)*, adopted by this Board on July 11, 2002.

Enclosed are your Waste Discharge Requirements, which also serve as your General NPDES permit, consisting of Order No. R4-2002-0125 and Monitoring and Reporting Program No. CI-8486. The discharge limitations in Part F of Order No. R4-2002-0125 are applicable to your discharge. Discharge from the project drains to the Los Angeles River (between Figueroa Street and the Los Angeles River Estuary (Willow Street), including the Rio Hondo below Santa Ana Freeway); therefore, the discharge limitations in Attachment B.7.d are applicable to your discharge. Prior to 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 Order No. R4-2002-0125. All monitoring reports should be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring and technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-8486 and NPDES No. CAG834001", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine your discharge monitoring reports with other 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. R4-2002-0125 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 Thizar Tintut-Williams at (213) 576-6752.

Sincerely,

for

Dennis A. Dickerson
Executive Officer

Enclosures: Fact Sheet
Monitoring and Reporting Program No. 8486
General NPDES Permit No. CAG834001, Order No. R4-2002-0125

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
James Maughan, Division of Water Quality, State Water Resources Control Board
Michael Lauffer, Office of the Chief Counsel, State Water Resources Control Board
California Department of Health Services, Drinking Water and Field Operations Branch
Los Angeles County, Department of Public Works, Flood Control and Drainage
Los Angeles County, Department of Environmental Health
City Manager, City of Long Beach
James B. Reed, Vapor Extraction Technology, Inc.

/ttw

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
ARCO SERVICE STATION

NPDES NO. CAG834001
CI-8486

PROJECT LOCATION
ARCO Service Station
6580 E. Paramount Boulevard
Long Beach, CA 90805

FACILITY MAILING ADDRESS
Glenn Smith
P.O. Box 189
Millville, CA 96062

PROJECT DESCRIPTION

Mr. Glenn Smith proposes to extract and treat petroleum fuel impacted groundwater and then discharge the treated groundwater to a local storm drain. The treatment system consists of a sand filter (50 microns and 25 microns filters) and two activated carbon vessels in series.

VOLUME AND DESCRIPTION OF DISCHARGE

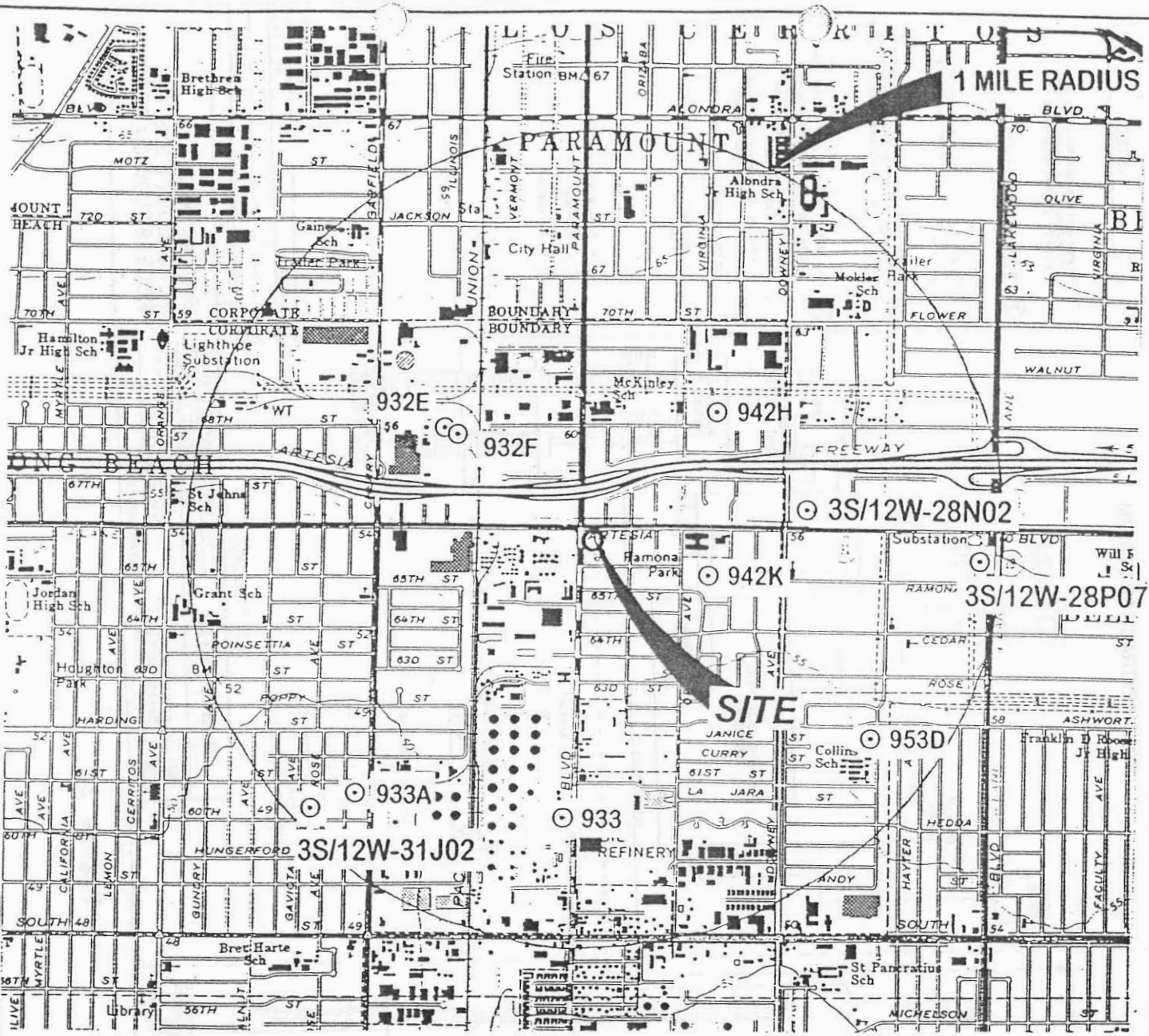
Up to 30,000 gallons per day of treated groundwater will be discharged to a storm drain located at Outfall No. 1 (Latitude 33° 52' 30", Longitude 118° 11' 15"). The discharge will flow to the Los Angeles River (between Figueroa Street and the Los Angeles River Estuary (Willow Street), including the Rio Hondo below Santa Ana Freeway), a water of the United States. See Figures 1 and 2 for the site location and schematic of treatment flow diagram, respectively.

FREQUENCY OF DISCHARGE

The discharge will be continuous and is projected to last three years beginning in January 2003.

REUSE OF WATER

Alternative reuse and/or method of disposal were considered. The site is located on an active gasoline station in a commercial business area. Discharge to the sanitary sewer is not permitted and water reclamation is not viable at the site. Therefore, reuse is not feasible, and the wastewater will be discharged to the storm drain.



⊙ WELL

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

FROM SOUTH GATE AND LONG BEACH, CA
USGS 7.5 MINUTE QUADRANGLE MAPS,
1964, PHOTOREVISED 1981

VAPOR EXTRACTION TECHNOLOGY, INC.
San Clemente, CA 949/492-7732

PROJECT: REMEDIATION SYSTEM	TITLE: Figure 1 SITE LOCATION MAP
FACILITY: ARCO SERVICE STATION	
6580 PARAMOUNT BLVD.	
LONG BEACH, CA	
DATE: 9/25/02	DRAWING No. 2

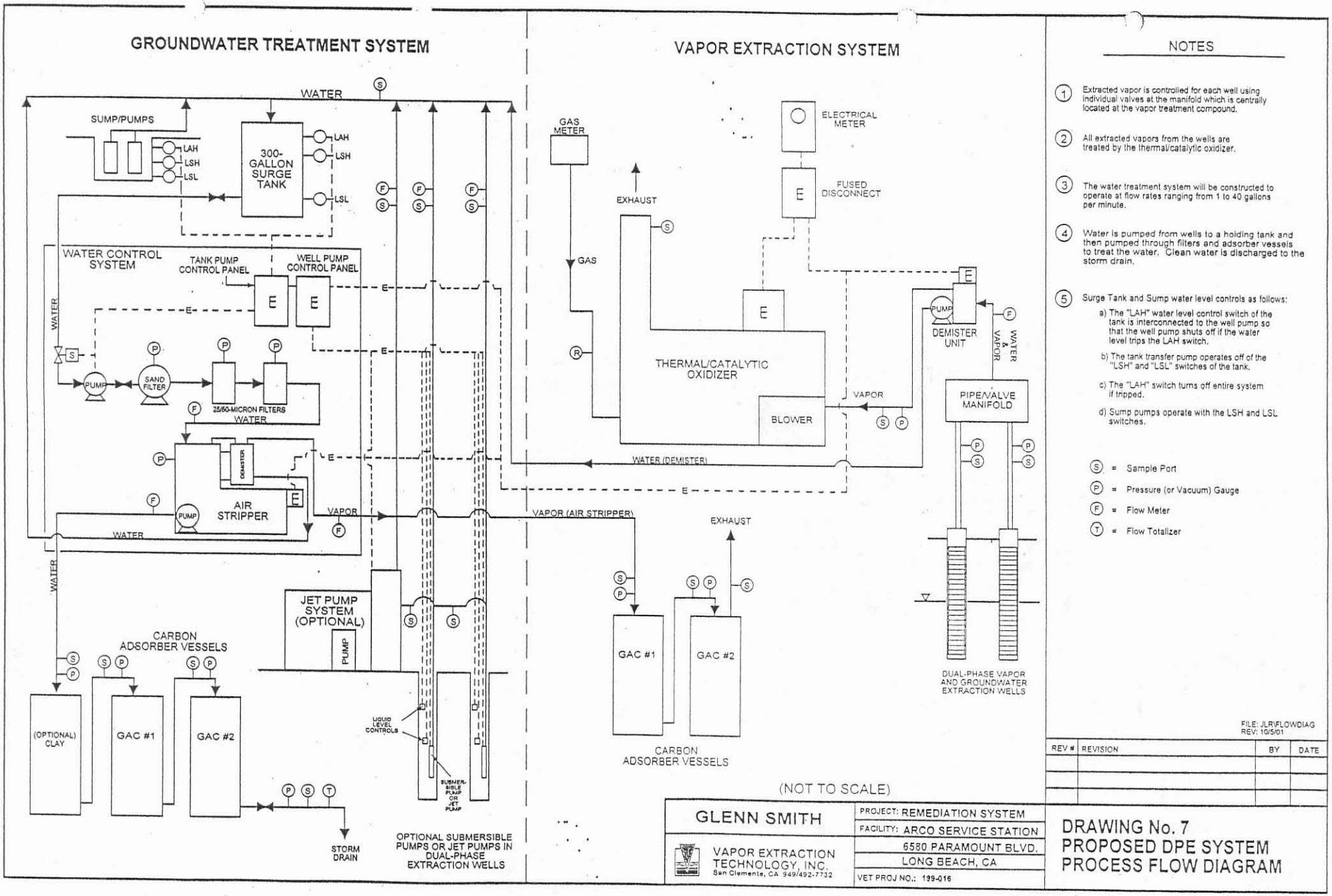

GROUNDWATER TREATMENT SYSTEM
VAPOR EXTRACTION SYSTEM
WATER
SUMP/PUMPS
LAH
LSH
LSL
300-GALLON SURGE TANK
WATER CONTROL SYSTEM
TANK PUMP CONTROL PANEL
WELL PUMP CONTROL PANEL
PUMP
SAND FILTER
25/50-MICRON FILTERS
DEGASTER
AIR STRIPPER
VAPOR
JET PUMP SYSTEM (OPTIONAL)
CARBON ADSORBER VESSELS
(OPTIONAL) CLAY
GAC #1
GAC #2
LIQUID LEVEL CONTROLS
SUBMERSIBLE PUMP OR JET PUMP
STORM DRAIN
OPTIONAL SUBMERSIBLE PUMPS OR JET PUMPS IN DUAL-PHASE EXTRACTION WELLS
GAS METER
EXHAUST
ELECTRICAL METER
FUSED DISCONNECT
GAS
THERMAL/CATALYTIC OXIDIZER
BLOWER
DEMISTER UNIT
WATER & VAPOR
PIPE/VALVE MANIFOLD
WATER (DEMISTER)
VAPOR (AIR STRIPPER)
DUAL-PHASE VAPOR AND GROUNDWATER EXTRACTION WELLS
(NOT TO SCALE)
NOTES
1 Extracted vapor is controlled for each well using individual valves at the manifold which is centrally located at the vapor treatment compound.
2 All extracted vapors from the wells are treated by the thermal/catalytic oxidizer.
3 The water treatment system will be constructed to operate at flow rates ranging from 1 to 40 gallons per minute.
4 Water is pumped from wells to a holding tank and then pumped through filters and adsorber vessels to treat the water. Clean water is discharged to the storm drain.
5 Surge Tank and Sump water level controls as follows:
a) The "LAH" water level control switch of the tank is interconnected to the well pump so that the well pump shuts off if the water level trips the LAH switch.
b) The tank transfer pump operates off of the "LSH" and "LSL" switches of the tank.
c) The "LAH" switch turns off entire system if tripped.
d) Sump pumps operate with the LSH and LSL switches.
S = Sample Port
P = Pressure (or Vacuum) Gauge
F = Flow Meter
T = Flow Totalizer
FILE: JLR\FLOWDIAG
REV: 10/5/01
REV # | REVISION | BY | DATE
GLENN SMITH
VAPOR EXTRACTION TECHNOLOGY, INC.
San Clemente, CA 949/492-7732
PROJECT: REMEDIATION SYSTEM
FACILITY: ARCO SERVICE STATION
6580 PARAMOUNT BLVD.
LONG BEACH, CA
VET PROJ NO.: 199-016
DRAWING No. 7
PROPOSED DPE SYSTEM
PROCESS FLOW DIAGRAM

Figure 2

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

MONITORING AND REPORTING PROGRAM NO. 8486
for
ARCO SERVICE STATION

(NPDES NO. CAG834001)

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	May 15
April – June	August 15
July – September	November 15
October – December	February 15
Annual Summary Report	March 15

B. The first monitoring report under this Program is due by May 15, 2003. If there is no discharge during any reporting period, the report shall so state. 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, and must be received by March 15, of each year.

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 obtained and analyzed for toxicity, and all the constituents listed on F.1. and Attachment B.7.d of Order No. R4-2002-0125. The test results must meet all applicable discharge limitations.

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 stations shall be established for each point of discharge and shall be located where representative samples of that effluent can be obtained. The discharger shall notify this Regional Board in writing of the location(s) of the sampling stations once established. Provisions shall be made to enable visual inspection before discharge. If oil sheen, debris, and/or other objectionable materials or odors are present, discharge shall not be commenced before compliance with the requirements is demonstrated. All visual observations shall be included in the monitoring report.

B. If monitoring result indicates an exceedance of a limit contained in Order R4-2002-0125, 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 the 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.
4. Annually monitoring shall be increased to semi-annually.

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

D. The following shall constitute the discharge monitoring program for each Outfall location:

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total Waste Flow	gal/day	recorder	continuously
Temperature	°F	grab	monthly
pH	pH units	grab	monthly
Total Dissolved Solids	mg/L	grab	monthly
Sulfate	mg/L	grab	monthly
Chloride	mg/L	grab	monthly
Boron	mg/L	grab	monthly
Nitrogen	mg/L	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

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Sulfides	mg/L	grab	monthly
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]
Xylenes	µg/L	grab	monthly[1]
Ethylene Dibromide	µg/L	grab	monthly[1]
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	monthly[1]
Lead	µg/L	grab	monthly[1]
Tertiary butyl alcohol (TBA)	µg/L	grab	monthly[1]
Naphthalene	µg/L	grab	monthly[1]
Di-isopropyl ether (DIPE)	µg/L	grab	monthly[1]
Acute Toxicity	%survival	grab	annually

IV. EFFLUENT TOXICITY TESTING

A. The discharger shall conduct acute toxicity testing 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 and Receiving Water 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.

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.

[1] Weekly for the first month, monthly thereafter, if no exceedance is observed.

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 time as specified in 40 CFR Part 136.3. Proper chain of custody procedures must be followed and a copy shall be submitted with the report.

D. As required in part I.4 of Order No. R4-2002-0125, the monitoring report shall specify the USEPA analytical method used, the method detection limit, and the minimum level for each pollutant.

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. R4-2002-0125. 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.

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: AED for

Dennis A. Dickerson
Executive Officer

Date: October 25, 2002