



California Regional Water Quality Control Board

Los Angeles Region



Winston H. Hickox
Secretary for
Environmental
Protection

(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>

Gray Davis
Governor

August 16, 2002

Mr. Tom Peters
CH2M HILL
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707

Certified Mail
Return Receipt Requested
Claim No. 7001 2510 0003 6055 5329

Dear Mr. Peters:

COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE REQUIREMENTS – CH2M HILL, SCLLC PORTA BELLA DEVELOPMENT PROJECT, 22116 W. SOLEDAD CANYON ROAD, SANTA CLARITA, CALIFORNIA (NPDES NO. CAG914001, CI-8455)

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. R4-2002-0107, *Waste Discharge Requirements for Discharges of Treated Groundwater from Investigation and/or Cleanup of Volatile Organic Organic Compounds Contaminated-Sites to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties (General NPDES Permit No. CAG914001)*, adopted by this Board on May 23, 2002.

Enclosed are your Waste Discharge Requirements, which also serve as your General NPDES permit, consisting of Order No. R4-2002-0107 and Monitoring and Reporting Program No. CI-8455. The discharge limitations in Part F of Order No. R4-2002-0107 are applicable to your discharge. Discharge from the project drains to the Santa Clara River Watershed; therefore, the discharge limitations in Attachment B.3.b and B.3.c 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. R4-2002-0107. 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-8455 and NPDES No. CAG914001", 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.

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption
For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.swrcb.ca.gov/news/echallenge.html>



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

Mr. Tom Peters
CH2M HILL

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August 16, 2002

We are sending Board Order No. R4-2002-0107 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,



Dennis A. Dickerson
Executive Officer

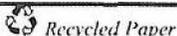
Enclosures: Fact Sheet
Monitoring and Reporting Program No. 8455
General NPDES Permit No. CAG914001, Order No. R4-2002-0107

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 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
California Department of Fish and Game, Region 5
Los Angeles County, Department of Public Works, Environmental Programs Division
Los Angeles County, Department of Health Services
Los Angeles County, Department of Public Works, Flood Control Division
Ventura Department of Environmental Health
Ventura County Air Pollution Control District
Ventura County, Department of Public Works, Flood Control Division
City of Santa Clarita
Friends of Santa Clara River
Yueh Chuang, CH2M Hill

/ttw

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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
CH2M HILL
(SCLLC Porta Bella Development Project)
NPDES NO. CAG914001
CI-8455

PROJECT LOCATION

SCLLC Porta Bella Development Project
22116 W. Soledad Canyon Road
Santa Clarita, California 91350

FACILITY MAILING ADDRESS

3 Hutton Centre Drive., Suite 200
Santa Ana, CA 92707

PROJECT DESCRIPTION

CH2M HILL, contracted by the United States Army Corps of Engineers, proposes to conduct field investigations to evaluate the nature and extent of groundwater contamination in the Eastern Santa Clara Basin. Releases of volatile organic compounds, perchlorate, and other chemicals of concern associated with former operations at the Former Whittaker Corporation Bermite Facility, have impacted groundwater. The site is also known as Santa Clarita, LLC (SCLLC) Porta Bella Development Project. The Site Characterization Phase of the Eastern Santa Clara Basin Groundwater Study will include the drilling and sampling of 30 temporary sample points, 8 shallow monitoring wells, and 9 deep monitoring wells. Wastewater generated during the site investigation includes well development water, purge water from well sampling and pumping tests, phase-separated water from wet soil cuttings and drilling mud, and water from decontamination activities.

VOLUME AND DESCRIPTION OF DISCHARGE

CH2M HILL proposes to discharge up to 65,000 gallons per day of wastewater per discharge event. CH2M HILL proposes to contain all produced wastewater from the project in Baker tanks or 55-gallon drums at the site for sampling prior to discharge. Only wastewater that meets the effluent limitations listed on F.1., Attachment A, and Attachment B of Order No. R4-2002-0107 can be discharged. The wastewater to be discharged will be passed through bag filters or settling tanks to remove suspended solids. Discharge from the project flows to storm drains listed on Table 1 (Location of Potential Discharge Points), thence to the Santa Clara River, waters of the United States. Wastewater not meeting the effluent limitations will be transported offsite for treatment and disposal (see also Figure 2). See Figure 1 for site location map.

FREQUENCY OF DISCHARGE

Intermittent discharges from the Site Characterization Phase of the Eastern Santa Clara Basin Groundwater Study are proposed to commence in August 2002, and will last until April 2003.

REUSE OF WATER

Dust suppression and discharge to the sewer system were considered as alternative reuse/disposal options. However, dust suppression is not a feasible option at the site, and it is costly to discharge to sewer. Therefore, the wastewater will be discharged to a storm drain.

Table 1 Location of Potential Discharge Points NPDES Permit Application for Discharge of Investigation-Derived Wastewater Porta Bella Development Project and Vicinity Santa Clarita, California			
Discharge Point	Identifier	Latitude	Longitude
1	AL-1	-118.53984	34.42339
2	AL-4	-118.54444	34.42220
3	AL-5	-118.54303	34.41734
4	AL-6	-118.53952	34.41031
5	AL-2	-118.53510	34.40128
6	AL-7	-118.53986	34.39971
7	AL-3	-118.53746	34.39758
8	AL-8	-118.49977	34.41618
9	DS-1	-118.51270	34.40766
10	DS-2	-118.51671	34.39457
11	DS-3	-118.53296	34.41171
12	DS-4	-118.51068	34.41677
13	DS-5	-118.55939	34.41717
14	MP-1	-118.53634	34.40885
15	MP-2	-118.51992	34.40100
16	SS-1	-118.50526	34.40237
17	PBH-1	-118.54081	34.40198
18	STAGING AREA	-118.52397	34.41039
19	STAGING AREA	-118.49591	34.42559

See also Figure 1.

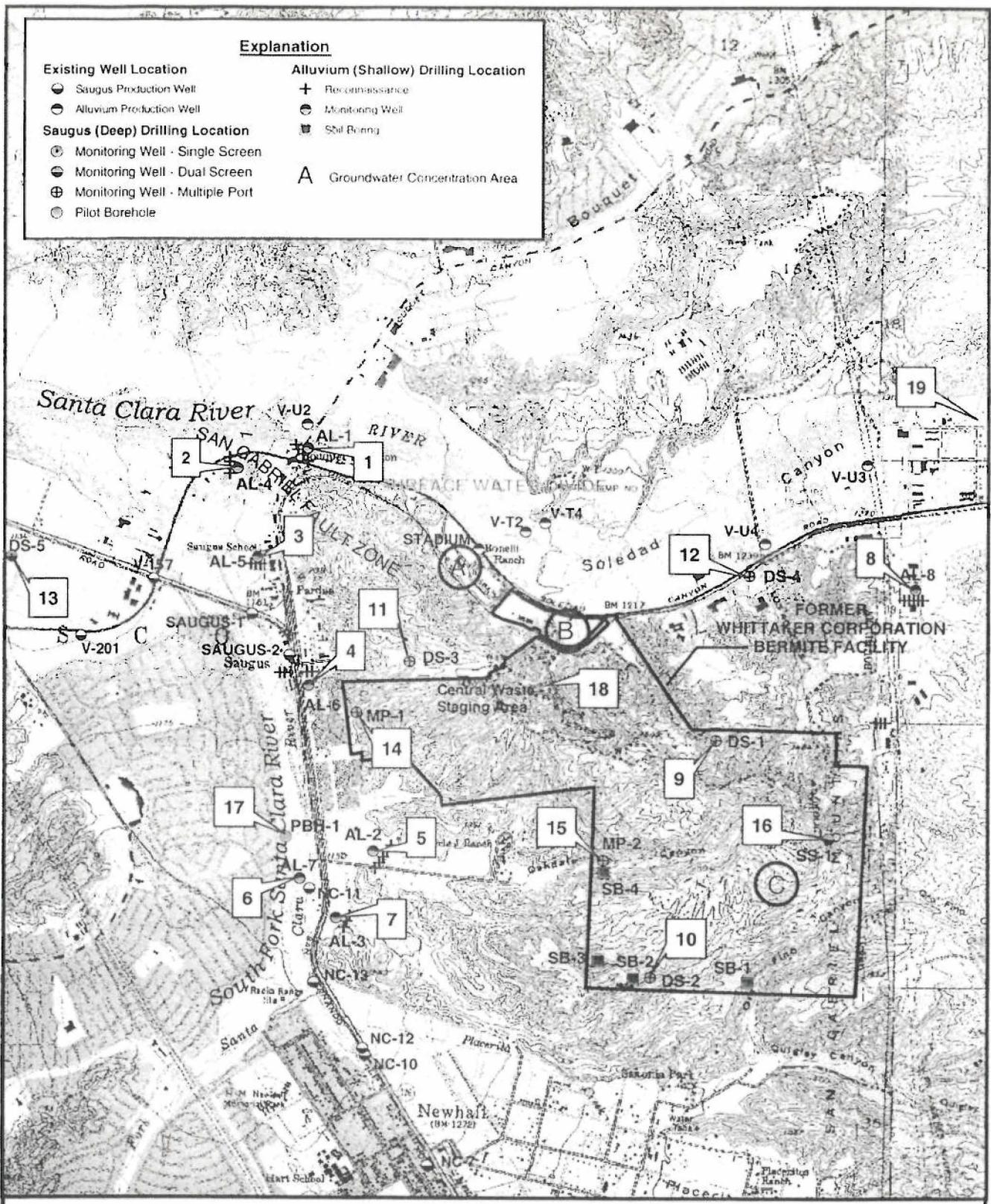
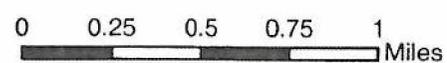
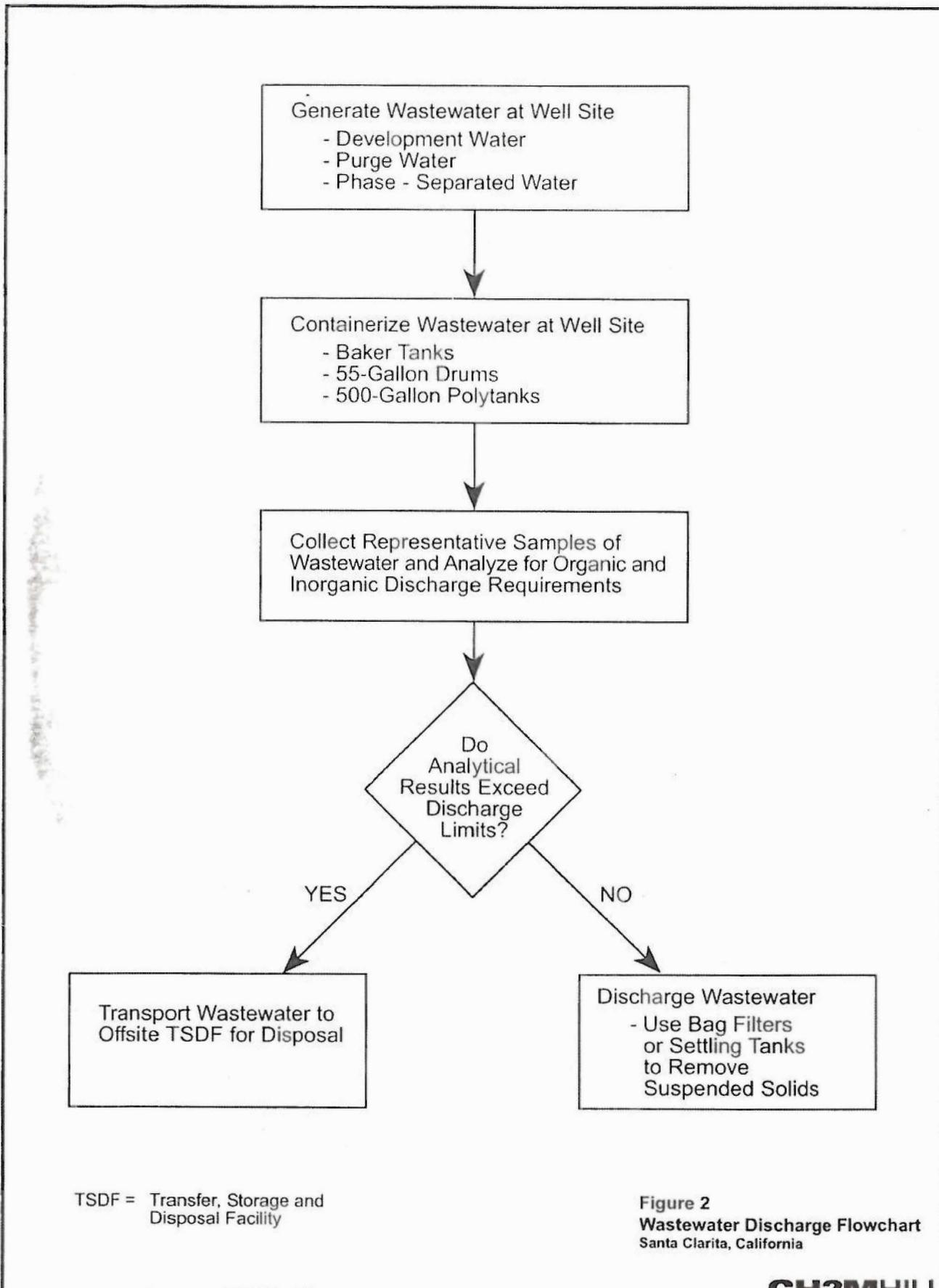


FIGURE 1

STUDY AREA AND
POTENTIAL DISCHARGE POINTS
Santa Clarita, California





Generate Wastewater at Well Site

- Development Water
- Purge Water
- Phase - Separated Water

Containerize Wastewater at Well Site

- Baker Tanks
- 55-Gallon Drums
- 500-Gallon Poly tanks

Collect Representative Samples of Wastewater and Analyze for Organic and Inorganic Discharge Requirements

Do Analytical Results Exceed Discharge Limits?

Transport Wastewater to Offsite TSDF for Disposal

Discharge Wastewater

- Use Bag Filters or Settling Tanks to Remove Suspended Solids

TSDF = Transfer, Storage and Disposal Facility

Figure 2
Wastewater Discharge Flowchart
Santa Clarita, California

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

MONITORING AND REPORTING PROGRAM NO. 8455
for
CH2M HILL
(SCLLC PORTA BELLA DEVELOPMENT PROJECT)
(NPDES NO. CAG914001)

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:

<u>Reporting Period</u>	<u>Report Due</u>
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 November 15, 2002. 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 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.(3.b and 3.c) of Order No. R4-2002-0107. 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 R4-2002-0107, 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:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total Waste Flow	gal/day	recorder	continuously
Temperature	°F	grab	once per discharge event
pH	pH units	grab	once per discharge event
Total Dissolved Solids	mg/L	grab	once per discharge event
Sulfate	mg/L	grab	once per discharge event
Chloride	mg/L	grab	once per discharge event
Boron	mg/L	grab	once per discharge event
Nitrogen	mg/L	grab	once per discharge event
Total Suspended Solids	mg/L	grab	once per discharge event
Turbidity	mg/L	grab	once per discharge event
BOD ₅ 20°C	mg/L	grab	once per discharge event
Oil and Grease	mg/L	grab	once per discharge event

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Settleable Solids	ml/L	grab	once per discharge event
Sulfides	mg/L	grab	once per discharge event
Phenols	mg/L	grab	once per discharge event
Residual Chlorine	mg/L	grab	once per discharge event
Lead	µg/L	grab	once per discharge event
Acetone	µg/L	grab	once per discharge event
Acrolein	µg/L	grab	once per discharge event
Acrylonitrile	µg/L	grab	once per discharge event
Benzene	µg/L	grab	once per discharge event
Bromoform	µg/L	grab	once per discharge event
Carbon Tetrachloride	µg/L	grab	once per discharge event
Chlorobenzene	µg/L	grab	once per discharge event
Chlorodibromomethane	µg/L	grab	once per discharge event
Chloroethane	µg/L	grab	once per discharge event
Chloroform	µg/L	grab	once per discharge event
Dichlorobromomethane	µg/L	grab	once per discharge event
1,1-Dichloroethane	µg/L	grab	once per discharge event
1,2-dichloroethane	µg/L	grab	once per discharge event
1,1-dichloroethylene	µg/L	grab	once per discharge event
1,2-Dichloropropane	µg/L	grab	once per discharge event
1,3-Dichloropropylene	µg/L	grab	once per discharge event
Ethylbenzene	µg/L	grab	once per discharge event
Ethylene Dibromide	µg/L	grab	once per discharge event
Methyl bromide	µg/L	grab	once per discharge event
Methyl chloride	µg/L	grab	once per discharge event
Methylene chloride	µg/L	grab	once per discharge event
Methyl ethyl ketone (MEK)	µg/L	grab	once per discharge event
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	once per discharge event
1,1,2,2-Tetrachloroethane	µg/L	grab	once per discharge event
Tetrachloroethylene	µg/L	grab	once per discharge event
Toluene	µg/L	grab	once per discharge event
1,2-Trans-dichloroethylene	µg/L	grab	once per discharge event
1,1,1-Trichloroethane	µg/L	grab	once per discharge event
1,1,2-Trichloroethane	µg/L	grab	once per discharge event
Trichloroethylene	µg/L	grab	once per discharge event
Vinyl Chloride	µg/L	grab	once per discharge event
Xylenes	µg/L	grab	once per discharge event
Di-isopropyl ether (DIPE)	µg/L	grab	once per discharge event
1,4-Dioxane	µg/L	grab	once per discharge event
Naphthalene	µg/L	grab	once per discharge event
N-Nitrosodimethyl amine (NDMA)	µg/L	grab	once per discharge event
Perchlorate	µg/L	grab	once per discharge event
Tertiary butyl alcohol (TBA)	µg/L	grab	once per discharge event

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total Petroleum Hydrocarbons	µg/L	grab	once per discharge event
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.

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. R4-2002-0107, 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.

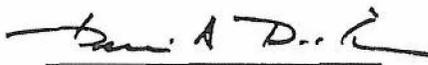
No discharge of such chemical shall be made prior to obtaining the Executive Officer's approval.

- 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. R4-2002-0107. 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:



Dennis A. Dickerson
Executive Officer

Date: August 16, 2002