



# California Regional Water Quality Control Board

## Los Angeles Region

TTW



Winston H. Hickox  
Secretary for  
Environmental  
Protection

Over 50 Years Serving Coastal Los Angeles and Ventura Counties  
Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Gray Davis  
Governor

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>

October 22, 2003

Mr. Kolade Olowu  
Defense Energy Support Center  
8725 John Kingman Road  
Fort Belvoir, VA 22060

Certified Mail  
Return Receipt Requested  
Claim No. 7000 2510 0002 2221 9444

Dear Mr. Olowu:

**COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE REQUIREMENTS – DEFENSE FUEL SUPPORT POINT (DFSP) NORWALK FACILITY, 15306 NORWALK BOULEVARD, CALIFORNIA (NPDES NO. CAG994004, CI-7585)**

Discharge of treated groundwater from the cleanup of contaminated groundwater beneath the above-referenced facility is currently regulated under NPDES General Permit No. CAG834001 (Order No. 97-046) adopted by this Board on May 12, 1997.

We completed our review of your Notice of Intent (NOI) and analytical results of representative groundwater sample that you submitted to continue enrollment under the General NPDES Permit. Based on the information and water quality data you provided, the groundwater at the project site is contaminated with petroleum fuel, chlorinated volatile organic compounds, and heavy metals. Therefore, we have determined that your discharge is more appropriately regulated under Order No. R4-2003-0111, *General National Pollutant Discharge Elimination System and Waste Discharge Requirements for Discharges of Groundwater from Construction and Project Dewatering to Surface Waters in Coastal Watersheds of Los Angeles, and Ventura Counties*, adopted by this Board on August 7, 2003.

The existing enrollment under NPDES Permit No. CAG834001, Order No. 97-046, which was issued to you on December 19, 2001, is superseded by this new permit, and your coverage under Order No. 97-046 will be terminated in a separate letter.

Enclosed are your Waste Discharge Requirements, which also serve as your General NPDES permit, consisting of Order No. R4-2003-0111 and revised Monitoring and Reporting Program No. CI-7585. The discharge limitations in Part E.1.a. and 1.c. of Order No. R4-2003-011 for the specific constituents listed on the table with the enclosed Fact Sheet are applicable to your discharge. The treated groundwater discharge flows into San Gabriel River (between Firestone Boulevard and San Gabriel River Estuary). Therefore, the discharge limitations in Attachment B are not applicable to your discharge.

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 and technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-7585 and NPDES No. CAG994004", which will assure that the reports

**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. Kolade Olowu  
Defense Energy Support Center

October 22, 2003

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 a copy of Board Order No. R4-2003-0111 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 can be furnished to anyone who requests it or can be obtained using our web site at [http://www.swrcb.ca.gov/~rwqcb4/html/permits/general\\_permits.html](http://www.swrcb.ca.gov/~rwqcb4/html/permits/general_permits.html).

If you have any questions, please contact Thizar Tintut-Williams at (213) 576-6752.

Sincerely,



Dennis A. Dickerson  
Executive Officer

Enclosures: Monitoring and Reporting Program No. CI-7585  
Fact Sheet  
Board Order No. R4-2003-0111, General NPDES Permit No. CAG994004

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  
Ana Townsend, California Regional Water Quality Control Board, Los Angeles  
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 of Norwalk, Department of Public Works  
Joseph V. Trani, Defense Energy Support Center, Los Angeles  
Redwan Hassan, Parsons Infrastructure & Technology Group Inc.

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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**  
**DEFENSE ENERGY SUPPORT CENTER**  
**DEFENSE FUEL SUPPORT POINT, NORWALK FACILITY**  
**NPDES NO. CAG994004**  
**CI-7585**

**PROJECT LOCATION**

Defense Fuel Support Point, Norwalk Facility  
15306 Norwalk Boulevard  
Norwalk, CA 90650

**FACILITY MAILING ADDRESS**

Defense Energy Support Center  
8725 John Kingman Road  
Fort Belvoir, VA 22060

**PROJECT DESCRIPTION**

The Defense Fuel Support Point (DFSP) facility operates a soil and groundwater remediation system at 15306 Norwalk Boulevard, Norwalk. The remediation system consists of air sparging and vapor recovery and treatment; free product recovery; and groundwater extraction and treatment. The groundwater treatment system consists of an oil/water separator, surge tank, inline micron particulate filters, an air stripper, and two carbon adsorption canisters. Water quality data reported on April 15, 2003, indicated that groundwater is impacted with petroleum hydrocarbons, volatile organic compounds, and heavy metals, specifically arsenic, copper, and selenium. The DFSP currently is developing mitigation measures to reduce the heavy metals to the required effluent limitations. Therefore, the treatment system is temporarily not operating until full measures/treatments are implemented.

**VOLUME AND DESCRIPTION OF DISCHARGE**

The DFSP discharges up to 144,000 gallons per day of groundwater from the treatment system. See Figure 1 for an existing schematic treatment flow diagram. The groundwater is discharged through an existing storm drain located at Outfall No. 1 (Latitude 33° 53' 31", Longitude 118° 04' 15") and flows to San Gabriel River (between Firestone Boulevard and San Gabriel River Estuary), a water of the United States. See Figure 2 for a site location map.

**APPLICABLE EFFLUENT LIMITATIONS**

Based on the information provided in the NPDES Application Supplemental Requirements, and previous monitoring reports, the following constituents listed in the table below have been determined to show reasonable potential to exist in the discharge. The discharge of treated groundwater flows into San Gabriel River (between Firestone Boulevard and San

Gabriel River Estuary). This stream reach of San Gabriel River is designated as MUN (Potential) beneficial use. Therefore, the discharge limitations under the "Other Waters" column apply to your discharge. Based on the hardness value of 610 mg/L, an appropriate discharge limitation for hardness-dependent metals is selected according to Section E.1.b. of the Order No. R4-2003-0111.

This table lists the specific constituents and effluent limitations applicable to your discharge.

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Suspended Solids	mg/L	150	50
Turbidity	NTU	150	50
BOD <sub>5</sub> 20°C	mg/L	30	20
Oil and Grease	mg/L	15	10
Settleable Solids	ml/L	0.3	0.1
Sulfides	mg/L	1.0	---
Phenols	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
Methylene Blue Active Substances (MBAS)	mg/L	0.5	---
<b>Volatile Organic Compounds</b>			
Methyl-tert-Butyl Ether (MTBE)	µg/L	5	---
<b>Miscellaneous</b>			
Tertiary Butyl Alcohol (TBA)	µg/L	12	---
Total Petroleum Hydrocarbons	µg/L	100	---
<b>Hardness-Dependent Metals</b>			
Copper	µg/L	44.4	22.1
<b>Other Metals</b>			
Arsenic	µg/L	50	---
Selenium	µg/L	8	4

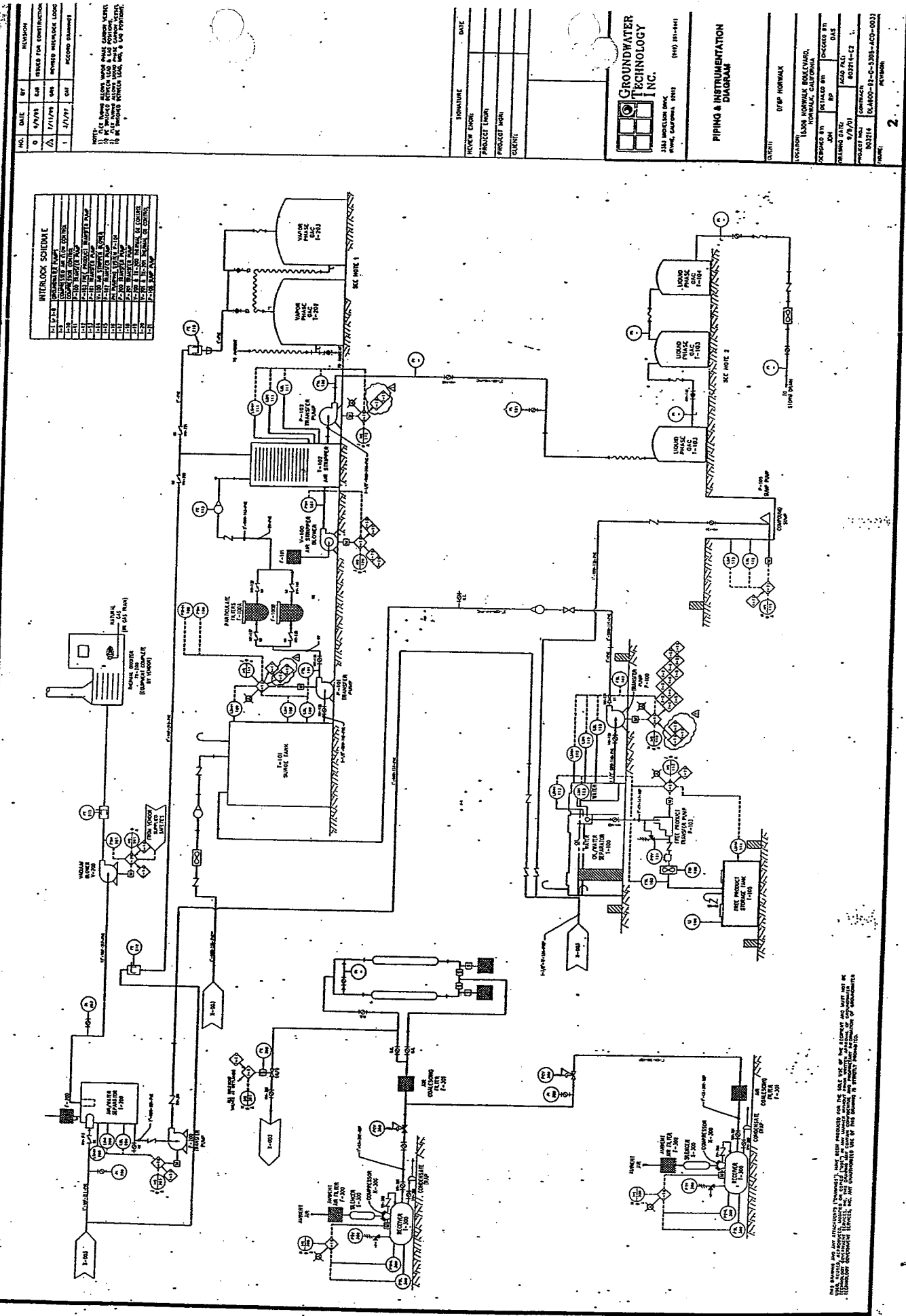
#### FREQUENCY OF DISCHARGE

The discharge will be continuous for the duration of the soil and groundwater remediation.

#### REUSE OF WATER

The DFSP considered discharging treated groundwater to a sanitary sewer, or use on-site for irrigation. The facility is a fuel tank farm with no use for large quantities of irrigation or recycled water. Discharge to the sewer is not practicable and will be cost prohibitive. Therefore, the treated groundwater is being discharged to the storm drain.

Figure 1



**GROUNDWATER TECHNOLOGY INC.**  
 1343 WASHINGTON BLVD  
 RIVERSIDE, CALIFORNIA 92507  
 (951) 514-1441

**PIPING & INSTRUMENTATION DIAGRAM**

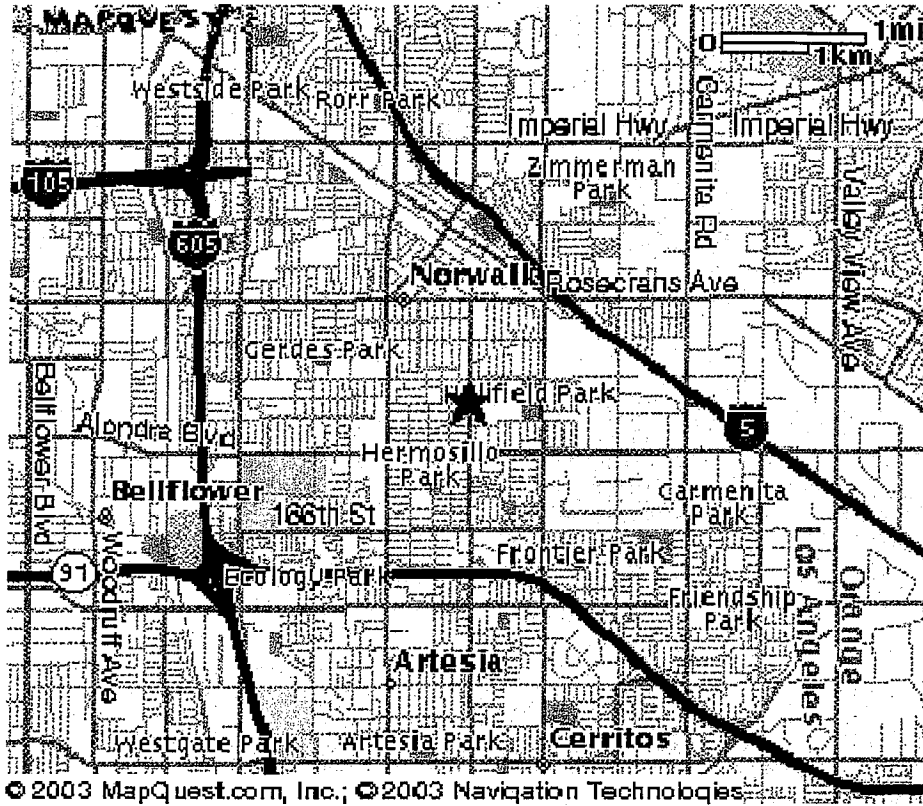
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**PARSONS**  
INFRASTRUCTURE AND  
TECHNOLOGY

**DEFENSE FUEL SUPPORT POINT**

**NORWALK, CALIFORNIA**

**FIGURE 2**

**SITE LOCATION**

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

**MONITORING AND REPORTING PROGRAM NO. 7585  
for  
DEFENSE ENERGY SUPPORT CENTER  
DEFENSE FUEL SUPPORT POINT, NORWALK FACILITY  
(NPDES NO. CAG994004)**

**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 February 15, 2004. 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. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.
- D. 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.
- E. Before commencing a new discharge, a representative sample of the effluent shall be obtained and analyzed for toxicity, and all the constituents listed in the Fact Sheet. The test results must meet all applicable discharge limitations. [This requirement does not apply to existing discharge.]

II. SAMPLE COLLECTION REQUIREMENTS (AS APPROPRIATE)

- 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 R4-2003-0111, 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
pH	pH units	grab	monthly
Temperature	°F	grab	monthly
Turbidity	NTU	grab	monthly
Oil and Grease	mg/L	grab	monthly
Methyl tert-Butyl Ether	µg/L	grab	monthly
Tertiary Butyl Alcohol	µg/L	grab	monthly
Total Petroleum Hydrocarbons	µg/L	grab	monthly
Arsenic	µg/L	grab	monthly <sup>1</sup>
Copper	µg/L	grab	monthly <sup>1</sup>
Selenium	µg/L	grab	monthly <sup>1</sup>
Total Suspended Solids	mg/L	grab	quarterly
Settleable Solids	ml/L	grab	quarterly
Sulfides	mg/L	grab	quarterly
Phenols	mg/L	grab	quarterly
Residual Chlorine	mg/L	grab	quarterly
MBAS	mg/L	grab	quarterly
BOD <sub>5</sub> 20°C	mg/L	grab	annually
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, October 2002, (EPA/821-R-02-012) or a more recent edition. Submission of bioassay results should include the information noted on pages 109-113 of the EPA/821-R-02-012 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 Marine and Estuarine Organisms, Third Edition, October 2002, (EPA/821-R-02-014).

<sup>1</sup> Weekly for the first month, and monthly thereafter, if no exceedance is observed.

- 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 H.5 of Order No. R4-2003-0111, the monitoring report shall specify the USEPA analytical method used, the method detection limit, and the minimum level for each pollutant as applicable.

VI. COMPLIANCE DETERMINATION (AS APPLICABLE)

- A. Compliance with single constituent effluent limitation – If the concentration of the pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (see Monitoring and Reporting Requirement Section H.5 of Order No. R4-2003-0111), then the Discharger is out of compliance.
- B. Compliance with monthly average limitations - In determining compliance with monthly average limitations, the following provisions shall apply to all constituents:
  - 1. If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the monthly average limit for that constituent, the Discharger has demonstrated compliance with the monthly average limit for that month.

2. If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, exceeds the monthly average limit for any constituent, the Discharger shall collect four additional samples at approximately equal intervals during the month. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, , whichever is later.

When all sample results are greater than or equal to the reported Minimum Level (see Monitoring and Reporting Requirement Section H.5 of Order No. R4-2003-0111), the numerical average of the analytical results of these five samples will be used for compliance determination.

When one or more sample results are reported as "Not-Detected (ND)" or "Detected, but Not Quantified (DNQ see Monitoring and Reporting Requirement Section H.5 of Order No. R4-2003-0111), the median value of these four samples shall be used for compliance determination. If one or both of the middle values is ND or DNQ, the median shall be the lower of the two middle values.

3. In the event of noncompliance with a monthly average effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the monthly average effluent limitation has been demonstrated.
  4. If only one sample was obtained for the month or more than a monthly period and the result exceed the monthly average, then the Discharger is in violation of the monthly average limit.
- C. Compliance with effluent limitations expressed as a sum of several constituents – If the sum of the individual pollutant concentrations is greater than the effluent limitation, then the Discharger is out of compliance. In calculating the sum of the concentrations of a group of pollutants, consider constituents reported as ND or DNQ to have concentrations equal to zero, provided that the applicable ML is used.
- D. Compliance with effluent limitations expressed as a median – in determining compliance with a median limitation, the analytical results in a set of data will be arranged in order of magnitude (either increasing or decreasing order); and
1. If the number of measurements (n) is odd, then the median will be calculated as  $X_{(n+1)/2}$ , or

2. If the number of measurements ( $n$ ) is even, then the median will be calculated as  $= [X_{n/2} + X_{(n/2)+1}]$ , i.e. the midpoint between the  $n/2$  and  $n/2+1$  data points.
- E. In calculating mass emission rates from the monthly average concentrations, use one half of the method detection limit for "Not Detected" (ND) and the estimated concentration for "Detected, but Not Quantified" (DNQ) for the calculation of the monthly average concentration. To be consistent with section VI.B.3., if all pollutants belonging to the same group are reported as ND or DNQ, the sum of the individual pollutant concentrations should be considered as zero for the calculation of the monthly average concentration.

## VII. 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. R4-2003-0111. 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.

Defense Energy Support Center  
(Defense Fuel Support Point, Norwalk Facility)  
Monitoring and Reporting Program

CI-7585

VIII. 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: October 22, 2003

/ttw