CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 7531 for NORTHROP GRUMMAN SPACE AND MISSION SYSTEMS CORP. (FORMERLY TRW, INC.) (BENCHMARK FACILITY) (CA0064114)

I. Reporting Requirements

A. Northrop Grumman Space and Mission Systems Corp (hereinafter Northrop or Discharger) - Benchmark Facility (Facility) shall implement this monitoring program on the effective date of this Order. All monitoring reports shall be submitted quarterly and must be received by the Regional Board by the dates in the following schedule. All monitoring reports should be addressed to the Regional Board, Attention: <u>Information Technology Unit</u>. The first monitoring report under this Program is due by January 15, 2005.

Reporting Period	Report Due
January – March	April 15
April – June	July 15
July-September	October 15
October-December	January 15
Annual Summary Report	March 1

If there is no discharge during any reporting period, the report shall so state.

- B. The Discharger shall submit an annual summary report (for both dry and wet weather discharges), containing a discussion of the previous year's effluent and receiving water monitoring data, as well as graphical and tabular summaries of the data. The data shall be submitted to the Regional Board on hard copy and on a 3 ½" computer diskette. Submitted data must be IBM compatible, preferably using EXCEL software. This annual report is to be received by the Regional Board by March 1 of each year following the calendar year of data collection.
- 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. The Discharger shall inform the Regional Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements.

II. Effluent Monitoring Requirements

- A. A sampling station shall be established for Discharge Serial No. 001 and shall be located where representative samples of that effluent can be obtained prior to discharge into the receiving water.
- B. This Regional Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.
- C. Pollutants shall be analyzed using the analytical methods described in 40 CFR Sections 136.3, 136.4, and 136.5 (revised May 14, 1999); or, where no methods are specified for a given pollutant, by methods approved by this Regional Board or the State Board. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided each time a new certification and/or renewal of the certification is obtained from ELAP.

The monitoring reports shall specify the analytical method used, the Method Detection Limit (MDL), and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:

- 1. An actual numerical value for sample results greater than or equal to the ML; or,
- 2. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML; or,
- 3. "Not-Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

Current MLs (Attachment B) are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, March 2, 2000.*

D. Where possible, the MLs employed for effluent analyses shall be lower than the permit limitations established for a given parameter. If the ML value is not below the

effluent limitation, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. 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.

The Regional Board, in consultation with the State Board Quality Assurance Program, shall establish an ML that is not contained in Attachment B to be included in the Discharger's permit in any of the following situations:

- 1. When the pollutant under consideration is not included in Attachment B;
- 2. When the Discharger and Regional Board agree to include in the permit a test method that is more sensitive than that specified in 40 CFR Part 136 (revised May 14, 1999);
- 3. When the Discharger agrees to use an ML that is lower than that listed in Attachment B;
- 4. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment B, and proposes an appropriate ML for their matrix; or,
- 5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the U.S. EPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Regional Board, and the State Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.
- E. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR section 136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Regional Board format, when it becomes available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.
- F. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.

G. For parameters for which both monthly average and daily maximum limits are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the monthly average limit, the sampling frequency shall be increased (within one week of receiving the test results) to a minimum of once weekly at equal intervals, until at least four consecutive weekly samples have been obtained, and compliance with the monthly average limit has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the monthly average limit.

III. Effluent Monitoring Program

Constituent	Units	Type of Sample	Sampling Frequency
Flow	gpd	Continuous	Daily
рН	S.U.	Grab	Quarterly
Temperature	°F	Grab	Quarterly
Oil and grease	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
1,4-Dioxane	μg/L	Grab	Quarterly
Hardness (as CaCO ₃)	mg/L	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrate-N plus Nitrite-N	mg/L	Grab	Quarterly
Benzene	μg/L	Grab	Quarterly
Ethylbenzene	μg/L	Grab	Quarterly
Carbon Tetrachloride	μg/L	Grab	Quarterly
1,1,1-Trichloroethane	μg/L	Grab	Quarterly
Trichloroethylene	μg/L	Grab	Quarterly
Tetrachloroethylene	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
Ammonia	mg/L	Grab	Quarterly
Perchlorate	μg/L	Grab	Quarterly
Toluene	μg/L	Grab	Quarterly
Total Xylene	μg/L	Grab	Quarterly
Vinyl Chloride	μg/L	Grab	Quarterly
Bis(2-Ethylhexyl)Phthalate	μg/L	Grab	Quarterly

A. Effluent monitoring shall be for all pollutants at the discharge point (Discharge No. 001) prior to discharge to the receiving water (i.e., storm drain).

Constituent	Units	Type of Sample	Sampling Frequency
Arsenic ¹	μg/L	Grab	Quarterly
Cadmium ¹	μg/L	Grab	Quarterly
Chromium VI ^{1,2}	μg/L	Grab	Quarterly
Copper ¹	μg/L	Grab	Quarterly
Lead ¹	μg/L	Grab	Quarterly
Mercury	μg/L	Grab	Quarterly
Selenium ¹	μg/L	Grab	Quarterly
Silver ¹	μg/L	Grab	Quarterly
Zinc ¹	μg/L,	Grab	Quarterly
Turbidity	NTU	Grab	Semiannually
Settleable solids	ml/L	Grab	Semiannually
Suspended solids	mg/L	Grab	Semiannually
BOD ₅ @ 20 °C	mg/L	Grab	Semiannually
Total Petroleum Hydrocarbons (TPH) ³	μg/L	Grab	Semiannually
Methyl Tertiary Butyl Ether (MTBE)	μg/L	Grab	Semiannually
Tertiary butyl alcohol	μg/L	Grab	Semiannually
Sulfides	mg/L	Grab	Annually
Phenols ⁴	mg/L	Grab	Annually
Remaining Priority Pollutants (see Page T-16)	μg/L	Grab	Annually
Toxicity-acute	% survival	Grab	Annually

- 1. Expressed as total recoverable.
- 2. For purposes of determining compliance with the interim limitations established in the Order, hexavalent chromium chromium (Cr VI) shall be measured and reported.
- 3. TPH measured by U.S. EPA Methods 418.1 or 8015 for both the gas and diesel ranges.
- 4. Total phenols measured by EPA Method 420.1 or 420.2 (using the 4AAP method).

IV. Toxicity Monitoring Requirements

- A. Acute Toxicity Effluent Monitoring Program
 - The Discharger shall conduct acute toxicity tests on effluent grab samples by methods specified in 40 CFR Part 136 which cites U.S. EPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, October 2002, U.S. EPA, Office of Water, Washington D.C. (EPA/821-R-02-012) or a more recent edition to ensure compliance in 100 % effluent.

- 2. 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 effluent. The method for topsmelt is found in U.S. EPA's *Short-term Method for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, Third Edition, October 2002 (EPA/821-R-02-014).
- 3. In lieu of conducting the standard acute toxicity testing with the fathead minnow, the Discharger may elect to report the results or endpoint from the first 48 hours of the chronic toxicity test as the results of the acute toxicity test.
- 4. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.
- B. Quality Assurance
 - 1. Concurrent testing with a reference toxicant shall be conducted. Reference toxicant tests shall be conducted using the same test conditions as the effluent toxicity tests (e.g., same test duration, etc).
 - If either the reference toxicant test or effluent test does not meet all test acceptability criteria (TAC) as specified in the test methods manuals (EPA/821-R-02-013 and EPA/821-R-02-014), then the Discharger must re-sample and retest at the earliest time possible.
 - 3. Control and dilution water should be receiving water or laboratory water, as appropriate, as described in the manual. If the dilution water used is different from the culture water, a second control using culture water shall be used.
- C. Accelerated Monitoring
 - If toxicity exceeds the limitations (as defined in Order No. R4-2004-0169, Sections I.B.3.a.i.), then the Discharger shall immediately implement accelerated testing as specified in Sections I.B.3.a.ii. The Discharger shall ensure that they receive results of a failing acute toxicity test within 24 hours of the close of the test and the additional tests shall begin within three business days of the receipt of the result. If the accelerated testing shows consistent toxicity, the Discharger shall immediately implement the Initial Investigation of the Toxicity Reduction Evaluation (TRE) Workplan.
 - 2. If implementation of the initial investigation TRE Workplan indicates the source of toxicity (e.g., a temporary plant upset, etc.), then the Discharger may discontinue the Toxicity Identification Evaluation (TIE).

- 3. The first step in the initial Investigation TRE Workplan for downstream receiving water toxicity can be a toxicity test protocol designed to determine if the effluent from Discharge Serial No. 001 causes or contributes to the measured downstream acute toxicity. If this first step TRE testing shows that the Discharge Serial No. 001 effluent does not cause or contribute to downstream acute toxicity, using U.S. EPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, October 2002, U.S. EPA, Office of Water, Washington D.C. (EPA/821-R-02-012), then a report on this testing shall be submitted to the Board and the TRE will be considered to be completed. Routine testing in accordance with MRP No.1558 shall be continued thereafter.
- D. Steps in TRE and TIE procedures:
 - Following a TRE trigger, the Discharger shall initiate a TRE in accordance with the facility's initial investigation TRE workplan. The Discharger shall use EPA manuals EPA/600/2-88/070 (industrial) or EPA/833B-99/002 (municipal) as guidance or current versions. At a minimum, the TRE workplan must contain the provision in Attachment C. The Discharger shall expeditiously develop a more detailed TRE workplan for submittal to the Executive Officer within 30 days of the trigger, which will include, but not be limited to:
 - a. Further actions to investigate and identify the cause of toxicity;
 - b. Actions the Discharger will take to mitigate the impact of the discharge and prevent the recurrence of toxicity;
 - c. Standards the Discharger will apply to consider the TRE complete and to return to normal sampling frequency; and,
 - d. A schedule for these actions.
 - 2. The following is a stepwise approach in conducting the TRE:
 - a. Step 1 Basic data collection. Data collected for the accelerated monitoring requirements may be used to conduct the TRE:
 - b. Step 2 Evaluates optimization of the treatment system operation, facility housekeeping, and the selection and use of in-plant process chemicals;
 - c. If Steps 1 and 2 are unsuccessful, Step 3 implements a TIE and employment of all reasonable efforts and using currently available TIE methodologies. The objective of the TIE is to identify the substance or

combination of substances causing the observed toxicity;

- d. Assuming successful identification or characterization of the toxicant(s), Step 4 evaluates final effluent treatment options;
- e. Step 5 evaluates in-plant treatment options; and,
- f. Step 6 consists of confirmation once a toxicity control method has been implemented.

Many recommended TRE elements parallel source control, pollution prevention, and storm water control program best management practices (BMPs). To prevent duplication of efforts, evidence of implementation of these control measures may be sufficient to comply with TRE requirements. By requiring the first steps of a TRE to be accelerated testing and review of the facility's TRE workplan, a TRE may be ended in its early stages. All reasonable steps shall be taken to reduce toxicity to the required level. The TRE may be ended at any stage if monitoring indicates there is no longer toxicity (or six consecutive chronic toxicity results are less than or equal to 1.0 TU_c).

- The Discharger may initiate a TIE as part of the TRE process to identify the cause(s) of toxicity. The Discharger shall use the EPA acute and chronic manuals, EPA/600/6-91/005F (Phase I)/EPA/600/R-96-054 (for marine), EPA/600/R-92/080 (Phase II), and EPA-600/R-92/081 (Phase III) as guidance.
- 4. If a TRE/TIE is initiated prior to completion of the accelerated testing schedule required by Part I.B.3.a.ii of this permit, then the accelerated testing schedule may be terminated, or used as necessary in performing the TRE/TIE, as determined by the Executive Officer.
- 5. Toxicity tests conducted as part of a TRE/TIE may also be used for compliance, if appropriate.
- 6. The Board recognizes that toxicity may be episodic and identification of causes of and reduction of sources of toxicity may not be successful in all cases. Consideration of enforcement action by the Board will be based in part on the Discharger's actions and efforts to identify and control or reduce sources of consistent toxicity.

E. Reporting

- 1. The Discharger shall submit a full report of the toxicity test results, including any accelerated testing conducted during the month as required by this permit. Test results shall be reported as % survival with the discharge monitoring reports (DMR) for the month in which the test is conducted.
- 2. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, then those results also shall be submitted with the DMR for the period in which the investigation occurred.
 - a. The full report shall be submitted on or before the end of the month in which the DMR is submitted.
 - b. The full report shall consist of (1) the results; (2) the dates of sample collection and initiation of each toxicity test; (3) the acute toxicity average limit or chronic toxicity limit or trigger.
- 3. Test results for toxicity tests also shall be reported according to the appropriate manual chapter on Report Preparation and shall be attached to the DMR. Routine reporting shall include, at a minimum, as applicable, for each test:
 - a. Sample date(s);
 - b. Test initiation date;
 - c. Test species;
 - d. End point values for each dilution (e.g., number of young, growth rate, percent survival);
 - e. NOEC value(s) in percent effluent;
 - f. IC₁₅, IC₂₅, IC₄₀ and IC₅₀ values in percent effluent;

g.
$$TU_c$$
 values $\left(TU_c = \frac{100}{NOEC}\right)$

- h. Mean percent mortality (<u>+</u>standard deviation) after 96 hours in 100% effluent (if applicable);
- i. NOEC and LOEC values for reference toxicant test(s);
- j. C₂₅ value for reference toxicant test(s);
- k. Any applicable charts; and
- I. Available water quality measurements for each test (e.g., pH, D.O., temperature, conductivity, hardness, salinity, ammonia).
- 4. The Discharger shall provide a compliance summary, which includes a summary table of toxicity data from all samples collected during that year.

The Discharger shall notify by telephone or electronically, this Regional Board of any toxicity exceedance of the limit or trigger within 24 hours of receipt of the results followed by a written report within 14 calendar days of receipt of the results. The verbal or electronic notification shall include the exceedance and the plan the Discharger has taken or will take to investigate and correct the cause(s) of toxicity. It may also include a status report on any actions required by the permit, with a schedule for actions not yet completed. If no actions have been taken, the reasons shall be given.

V. Receiving Water Monitoring Requirements

A. To conduct reasonable potential analysis (RPA) receiving water monitoring data is required. RPA will determine: (1) if water quality-based effluent limitations for priority pollutants are required, and (2) to calculate effluent limitations, if required.

Receiving monitoring station shall be within 50 feet upstream from or near the discharge point (of storm drain) into Receiving Water (San Jose Creek). The receiving water monitoring shall be conducted for the first two years on an annual basis. The two time annual monitoring of the receiving water shall be conducted at the same time as annual effluent monitoring of priority pollutants.

Constituent	Units	Type of Sample	Monitoring Frequency
PH	Std units	grab	Annually
Hardness (as CaCO ₃)	mg/L	grab	Annually
PAHs	μg/L	grab	Annually
Antimony	μg/L	grab	Annually
Arsenic	μg/L	grab	Annually
Beryllium	μg/L	grab	Annually
Cadmium	μg/L	grab	Annually
Chromium (III)	μg/L	grab	Annually
Chromium (VI)	μg/L	grab	Annually
Lead	μg/L	grab	Annually
Mercury	μg/L	grab	Annually
Nickel	μg/L	grab	Annually
Selenium	μg/L	grab	Annually
Silver	μg/L	grab	Annually
Thallium	μg/L	grab	Annually
Zinc	μg/L	grab	Annually
Cyanide	μg/L	grab	Annually

The receiving water monitoring for toxic pollutants are listed below:

Constituent	Units	Type of Sample	Monitoring Frequency
Asbestos	μg/L	grab	Annually
Acrolein	μg/L	grab	Annually
Acrylonitrile	μg/L	grab	Annually
Benzene	μg/L	grab	Annually
Bromoform	μg/L	grab	Annually
Carbon tetrachloride	μg/L	grab	Annually
Chlorobenzene	μg/L	grab	Annually
Chlorodibromomethane	μg/L	grab	Annually
Chloroethane	μg/L	grab	Annually
2-Chloroethylvinyl ether	μg/L	grab	Annually
Chloroform	μg/L	grab	Annually
Dichlorobromomethane	μg/L	grab	Annually
1,1-Dichloroethane	μg/L	grab	Annually
1,2-Dichloroethane	μg/L	grab	Annually
1,1-Dichloroethylene	μg/L	grab	Annually
1,2-Dichloropropane	μg/L	grab	Annually
1,3-Dichloropropylene	μg/L	grab	Annually
Ethylbenzene	μg/L	grab	Annually
Methyl bromide	μg/L	grab	Annually
Methyl chloride	μg/L	grab	Annually
Methylene chloride	μg/L	grab	Annually
1,1,2,2-Tetrachloroethane	μg/L	grab	Annually
Tetrachloroethylene	μg/L	grab	Annually
Toluene	μg/L	grab	Annually
1,2-Trans-dichloroethylene	μg/L	grab	Annually
1,1,1-Trichloroethane	μg/L	grab	Annually
1,1,2-Trichloroethane	μg/L	grab	Annually
Trichloroethylene	μg/L	grab	Annually
Vinyl chloride	μg/L	grab	Annually
2-Chlorophenol	μg/L	grab	Annually
2,4-Dichlorophenol	μg/L	grab	Annually
2,4-Dimethylphenol	μg/L	grab	Annually
2-Methyl-4,6-Dinitrophenol	μg/L	grab	Annually
2,4-Dinitrophenol	μg/L	grab	Annually
2-Nitrophenol	μg/L	grab	Annually
4-Nitrophenol	μg/L	grab	Annually
3-Methyl-4-Chlorophenol	μg/L	grab	Annually
Pentachlorophenol	μg/L	grab	Annually

Constituent	Units	Type of Sample	Monitoring Frequency
Phenol	μg/L	grab	Annually
2,4,6-Trichlorophenol	μg/L	grab	Annually
Acenaphthene	μg/L	grab	Annually
Acenaphthylene	μg/L	grab	Annually
Anthracene	μg/L	grab	Annually
Benzidine	μg/L	grab	Annually
Benzo (a) Anthracene	μg/L	grab	Annually
Benzo (a) Pyrene	μg/L	grab	Annually
Benzo (b) Fluoranthene	μg/L	grab	Annually
Benzo (g,h,I) Perylene	μg/L	grab	Annually
Benzo (k) Fluoranthene	μg/L	grab	Annually
Bis (2-Chloroethoxy) Methane	μg/L	grab	Annually
Bis (2-Chloroethyl) Ether	μg/L	grab	Annually
Bis (2-Chloroisopropyl) Ether	μg/L	grab	Annually
Bis (2-Ethylhexyl) Phthalate	μg/L	grab	Annually
4-Bromophenyl Phenyl Ether	μg/L	grab	Annually
Butylbenzyl Phthalate	μg/L	grab	Annually
2-Chloronapthalene	μg/L	grab	Annually
4-Chlorophenyl Phenyl Ether	μg/L	grab	Annually
Chrysene	μg/L	grab	Annually
Dibenzo (a,h) Anthracene	μg/L	grab	Annually
1,2-Dichlorobenzene	μg/L	grab	Annually
1,3-Dichlorobenzene	μg/L	grab	Annually
1,4-Dichlorobenzene	μg/L	grab	Annually
3,3'-Dichlorobenzidine	μg/L	grab	Annually
Diethyl Phthalate	μg/L	grab	Annually
Dimethyl Phthalate	μg/L	grab	Annually
Di-n-Butyl Phthalate	μg/L	grab	Annually
2,4-Dinitrotoluene	μg/L	grab	Annually
2,6-Dinitrotoluene	μg/L	grab	Annually
Di-n-Octyl Phthalate	μg/L	grab	Annually
1,2-Diphenylhydrazine	μg/L	grab	Annually
Fluoranthene	μg/L	grab	Annually
Fluorene	μg/L	grab	Annually
Hexachlorobenzene	μg/L	grab	Annually
Hexachlorobutadiene	μg/L	grab	Annually
Hexachlorocyclopentadiene	μg/L	grab	Annually
Hexachloroethane	μg/L	grab	Annually
Indeno (1,2,3-cd) Pyrene	μg/L	grab	Annually
Isophorone	μg/L	grab	Annually

Constituent	Units	Type of Sample	Monitoring Frequency
Napthalene	μg/L	grab	Annually
Nitrobenzene	μg/L	grab	Annually
N-Nitrosodimethylamine	μg/L	grab	Annually
N-Nitrosodi-n-Propylamine	μg/L	grab	Annually
N-Nitrosodiphenylamine	μg/L	grab	Annually
Phenanthrene	μg/L	grab	Annually
Pyrene	μg/L	grab	Annually
1,2,4-Trichlorobenzene	μg/L	grab	Annually
Aldrin	μg/L	grab	Annually
Alpha-BHC	μg/L	grab	Annually
Beta-BHC	μg/L	grab	Annually
Gamma-BHC	μg/L	grab	Annually
Delta-BHC	μg/L	grab	Annually
Chlordane	μg/L	grab	Annually
4,4'-DDT	μg/L	grab	Annually
4,4'-DDE	μg/L	grab	Annually
4,4'-DDD	μg/L	grab	Annually
Dieldrin	μg/L	grab	Annually
Alpha-Endosulfan	μg/L	grab	Annually
Beta-Endosulfan	μg/L	grab	Annually
Endosulfan Sulfate	μg/L	grab	Annually
Endrin	μg/L	grab	Annually
Endrin Aldehyde	μg/L	grab	Annually
Heptachlor	μg/L	grab	Annually
Heptachlor Epoxide	μg/L	grab	Annually
Polychlorinated Biphenyls ^{1/}	μg/L	grab	Annually
Perchlorate	μg/L	grab	Annually
Total Petroleum Hydrocarbons (TPH) ³	μg/L	grab	Annually
Methyl Tertiary Butyl Ether (MTBE)	μg/L	grab	Annually
Tertiary butyl alcohol	μg/L	grab	Annually
Toxaphene	μg/L	Grab	Annually

<u>1</u>/. The sum of Aroclors 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

B. Please note that the report for this required monitoring must be submitted with the self-monitoring reports in accordance with the schedule provided in Section I.A of this *MRP* No. CI-7531.

- C. SWRCB-approved laboratory methods and the corresponding MLs for the examination of each priority pollutant are listed in <u>Attachment B-1</u>. Reporting requirements for the data to be submitted are listed in <u>Attachment B</u>. We recommend that you select the analytical method from Attachment B-1 capable of achieving the lowest ML for each pollutant as listed on Attachment B. ML is necessary for determining compliance for a priority pollutant when an effluent limit is below the MDL.
- D. The laboratory analytical data shall include applicable MLs, MDL, quality assurance/quality control data, and shall comply with the reporting requirements contained in the Attachments B and B-1.

VI. Interim TCDD Monitoring of Effluent and Receiving Water

A. The Discharger must monitor the effluent and receiving water for the presence of the 16 congeners of 2,3,7,8-TCDD listed below, semi-annually during the first year only. Receiving monitoring station shall be within 50 feet upstream from or near the discharge point (of storm drain) into Receiving Water (San Jose Creek). If there is no discharge in a semi-annual period, then it should be made-up by sampling in the following semi-annual period. Discharger must report for each congener the analytical results of the effluent monitoring, including the quantifiable limit and the Method Detection Limit (MDL), and the measured or estimated concentration. The Discharger must multiply each measured or estimated congener concentration by its respective Toxicity Equivalent Factors (TEFs) and report the sum of these values.

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Congeners	TEF
2,3,7,8-Tetra CDD	1.0
1,2,3,7,8-penta CDD	1.0
1,2,3,4,7,8-hexa CDD	0.1
1,2,3,6,7,8-hexa CDD	0.1
1,2,3,7,8,9-hexa CDD	0.1
1,2,3,4,6,7,8-hepta CDD	0.01
Octa CDD	0.0001
2,3,7,8-tetra CDF	0.1
1,2,3,7,8 penta CDF	0.05
2,3,4,7,8-penta CDF	0.5
1,2,3,4,7,8-hexa CDF	0.1
1,2,3,6,7,8-hexa CDF	0.1
1,2,3,7,8,9-hexa CDF	0.1
2,3,4,6,7,8-hexa CDF	0.1
1,2,3,4,6,7,8-hepta CDF	0.01
1,2,3,4,7,8,9-hepta CDF	0.01
Octa CDF	0.0001

Ordered by: ___

Jonathan S. Bishop Executive Officer Date: December 13, 2004