**iii.** The Discharger shall collect effluent grab samples during periods of daytime maximum peak flows (or peak flows through secondary treatment units for facilities that recycle effluent).

**iv.** Effluent sampling for conventional pollutants shall occur on at least one day of any multiple-day bioassay the MRP requires. During the course of the bioassay, on at least one day, the Discharger shall collect and retain samples of the discharge. In the event that a bioassay result does not comply with effluent limitations, the Discharger shall analyze the retained samples for pollutants that could be toxic to aquatic life and for which it has effluent limitations.

**(a)** The Discharger shall perform bioassays on final effluent samples; when chlorine is used for disinfection, bioassays shall be performed on effluent after chlorination and dechlorination; and

**(b)** The Discharger shall analyze for total ammonia nitrogen and calculate the amount of un-ionized ammonia whenever test results fail to meet effluent limitations.

**b. Conditions Triggering Accelerated Monitoring**

**i. Average Monthly Effluent Limitation Exceedance.** If the results from two consecutive samples of a constituent monitored in a particular month exceed the average monthly effluent limitation for any parameter (or if the required sampling frequency is once per month or less and the monthly sample exceeds the average monthly effluent limitation), the Discharger shall, within 24 hours after the results are received, increase its sampling frequency to daily until the results from the additional sampling show that the parameter complies with the average monthly effluent limitation.

**ii. Maximum Daily Effluent Limitation Exceedance.** If a sample result exceeds a maximum daily effluent limitation, the Discharger shall, within 24 hours after the result is received, increase its sampling frequency to daily until the results from two samples collected on consecutive days show compliance with the maximum daily effluent limitation.

**iii. Acute Toxicity.** If final or intermediate results of an acute bioassay indicate a violation or threatened violation (e.g., the percentage of surviving test organisms of any single acute bioassay is less than 70 percent), the Discharger shall initiate a new test as soon as practical or as described in applicable State Water Board plan provisions that become effective after adoption of these Regional Standard Provisions. The Discharger shall investigate the cause of the mortalities and report its findings in the next self-monitoring report.

**iv. Chlorine.** The Discharger shall calibrate chlorine residual analyzers against grab samples as frequently as necessary to maintain accurate control and reliable operation. If an effluent violation is detected, the Discharger shall collect grab



ED_002551_00000745-00118

samples at least every 30 minutes until compliance with the limitation is achieved, unless the Discharger monitors chlorine residual continuously. In such cases, the Discharger shall continue to conduct continuous monitoring.

v. **Bypass.** Except as indicated below, if a Discharger bypasses any portion of its treatment facility, it shall monitor flows and collect samples at affected discharge points and analyze samples for all constituents with effluent limitations on a daily basis for the duration of the bypass. The Discharger need not accelerate chronic toxicity monitoring. The Discharger also need not collect and analyze samples for mercury, dioxin-TEQ, and PCBs after the first day of the bypass. The Discharger may satisfy the accelerated acute toxicity monitoring requirement by conducting a flow-through test or static renewal test that captures the duration of the bypass (regardless of the method specified in the MRP). If bypassing disinfection units only, the Discharger shall only monitor bacteria indicators daily.

(a) **Bypass for Essential Maintenance.** If a Discharger bypasses a treatment unit for essential maintenance pursuant to Attachment D section I.G.2, the Executive Officer may reduce the accelerated monitoring requirements above if the Discharger (i) monitors effluent at affected discharge points on the first day of the bypass for all constituents with effluent limitations, except chronic toxicity; and (ii) identifies and implements measures to ensure that the bypass will continue to comply with effluent limitations.

(b) **Approved Wet Weather Bypasses.** If a Discharger bypasses a treatment unit or permitted outfall during wet weather with Executive Officer approval pursuant to Attachment D section I.G.4, the Discharger shall monitor flows and collect and retain samples for affected discharge points on a daily basis for the duration of the bypass. The Discharger shall analyze daily for TSS using 24-hour composites (or more frequent increments) and for bacteria indicators with effluent limitations using grab samples. If TSS exceeds 45 mg/L in any composite sample, the Discharger shall also analyze daily the retained samples for all other constituents with effluent limitations, except oil and grease, mercury, PCBs, dioxin-TEQ, and acute and chronic toxicity. Additionally, at least once each year, the Discharger shall analyze the retained samples for one approved bypass for all other constituents with effluent limitations, except oil and grease, mercury, PCBs, dioxin-TEQ, and acute and chronic toxicity. This monitoring shall be in addition to the minimum monitoring specified in the MRP.

**B. Standard Observations** – Addition to Attachment D

1. **Receiving Water Observations.** The following requirements only apply when the MRP requires standard observations of receiving waters. Standard observations shall include the following:

   a. **Floating and Suspended Materials** (e.g., oil, grease, algae, and other microscopic particulate matter) — presence or absence, source, and size of affected area.



ED_002551_00000745-00119

b. **Discoloration and Turbidity** — color, source, and size of affected area.

c. **Odor** — presence or absence, characterization, source, and distance of travel.

d. **Beneficial Water Use** — estimated number of water-associated waterfowl or wildlife, fisherpeople, and other recreational activities.

e. **Hydrographic Condition** — time and height of high and low tides (corrected to nearest National Oceanic and Atmospheric Administration location for the sampling date and time).

f. **Weather Conditions** — wind direction, air temperature, and total precipitation during five days prior to observation.

2. **Wastewater Effluent Observations.** The following requirements only apply when the MRP requires standard observations of wastewater effluent. Standard observations shall include the following:

   a. **Floating and Suspended Material of Wastewater Origin** (e.g., oil, grease, algae, and other microscopic particulate matter) — presence or absence.

   b. **Odor** — presence or absence, characterization, source, distance of travel, and wind direction.

3. **Beach and Shoreline Observations.** The following requirements only apply when the MRP requires standard observations of beaches or shorelines. Standard observations shall include the following:

   a. **Material of Wastewater Origin** — presence or absence, description of material, estimated size of affected area, and source.

   b. **Beneficial Use** — estimate of number of people participating in recreational water contact, non-water contact, and fishing activities.

4. **Waste Treatment and/or Disposal Facility Periphery Observations.** The following requirements only apply when the MRP requires standard observations of the periphery of waste treatment or disposal facilities. Standard observations shall include the following:

   a. **Odor** — presence or absence, characterization, source, and distance of travel.

   b. **Weather Conditions** — wind direction and estimated velocity.

## IV. STANDARD PROVISIONS – RECORDS

**A. Records to be Maintained** – Supplement to Attachment D, Provision IV.A

The Discharger shall maintain records in a manner and at a location (e.g., the wastewater treatment plant or the Discharger's offices) such that the records are accessible to Regional Water Board staff. The minimum retention period specified in Attachment D, Provision IV, shall



ED_002551_00000745-00120

be extended during the course of any unresolved litigation regarding permit-related discharges, or when requested by Regional Water Board or U.S. EPA, Region IX, staff.

A copy of the permit shall be maintained at the discharge facility and be available at all times to operating personnel.

**B. Records of Monitoring** – Supplement to Attachment D, Provision IV.B

Monitoring records shall include the following:

1. **Analytical Information.** Records shall include analytical method detection limits, minimum levels, reporting levels, and related quantification parameters.

2. **Disinfection Process.** For the disinfection process, records shall include the following:

   **a.** For bacteriological analyses:

   **i.** Wastewater flow rate at the time of sample collection; and

   **ii.** Required statistical parameters for cumulative bacterial values (e.g., moving median or geometric mean for the number of samples or sampling period identified in the MRP).

   **b.** For the chlorination process (when chlorine is used for disinfection), at least daily average values for the following:

   **i.** Chlorine residual of treated wastewater as it enters the chlorine contact basin (mg/L);

   **ii.** Chlorine dosage (kg/day); and

   **iii.** Dechlorination chemical dosage (kg/day).

3. **Wastewater Treatment Process Solids.** For each treatment unit process that involves solids removal from the wastewater stream, records shall include the following:

   **a.** Total volume or mass of solids removed from each collection unit (e.g., grit, skimmings, undigested biosolids, or combination) for each calendar month or other time period as appropriate, but not to exceed annually; and

   **b.** Final disposition of such solids (e.g., landfill, other subsequent treatment unit).

4. **Treatment Process Bypasses.** For all treatment process bypasses, including wet weather blending, records shall include the following:

   **a.** Chronological log of treatment process bypasses;

   **b.** Identification of treatment processes bypassed;

   **c.** Beginning and ending dates and times of bypasses;

   **d.** Bypass durations;



ED_002551_00000745-00121

e. Estimated bypass volumes; and

f. Description of, or reference to other reports describing, the bypasses, their cause, the corrective actions taken (except for wet weather blending explicitly approved within the permit and in compliance with any related permit conditions), and any additional monitoring conducted.

5. **Treatment Plant Overflows.** The Discharger shall retain a chronological log of overflows at the treatment plant, including the headworks and all units and appurtenances downstream, and records supporting the information provided in accordance with Provision V.E.2, below.

C. **Claims of Confidentiality** – Not Supplemented

## V. STANDARD PROVISIONS – REPORTING

A. **Duty to Provide Information** – Not Supplemented

B. **Signatory and Certification Requirements** – Not Supplemented

C. **Monitoring Reports** – Supplement to Attachment D, Provision V.C

1. **Self-Monitoring Reports.** For each reporting period established in the MRP, the Discharger shall submit a self-monitoring report to the Regional Water Board in accordance with the requirements listed in the MRP and below:

a. **Transmittal Letter.** Each self-monitoring report shall be submitted with a transmittal letter that includes the following:

i. Identification of all violations of effluent limitations or other waste discharge requirements found during the reporting period;

ii. Details regarding the violations, such as parameters, magnitude, test results, frequency, and dates;

iii. Causes of the violations;

iv. Corrective actions taken or planned to resolve violations and prevent recurrences, and dates or time schedules for implementation (the Discharger may refer to previously submitted reports that address the corrective actions);

v. Explanation for any data invalidation. Data should not be submitted in a self-monitoring report if it does not meet quality assurance/quality control standards. However, if the Discharger wishes to invalidate a measurement after submitting it in a self-monitoring report, the Discharger shall identify the measurement suspected to be invalid and state the Discharger's intent to submit, within 60 days, a formal request to invalidate the measurement. The formal request shall include the original measurement in question, the reason for invalidating the measurement, all relevant documentation that supports invalidation (e.g., laboratory sheet, log entry, test



ED_002551_00000745-00122

results), and a discussion of the corrective actions taken or planned (with a time schedule for completion) to prevent recurrence of the sampling or measurement problem;

**vi.** Description of blending, if any. If the Discharger blends, it shall describe the duration of blending events and certify whether the blending complied with all conditions for blending;

**vii.** Description of other bypasses, if any. If the Discharger bypasses any treatment units (other than blending), it shall describe the duration of the bypasses and effluent quality during those times; and

**viii.** Signature. The transmittal letter shall be signed in accordance with Attachment D, Provision V.B.

**b. Compliance Evaluation Summary.** Each self-monitoring report shall include a compliance evaluation summary that addresses each parameter for which the permit specifies effluent limitations, the number of samples taken during the monitoring period, and the number of samples that exceed the effluent limitations.

**c. More Frequent Monitoring.** If the Discharger monitors any pollutant more frequently than required by the MRP, the Discharger shall include the results of such monitoring in the calculation and reporting of the data submitted in the self-monitoring report.

**d. Analysis Results**

**i. Tabulation.** Each self-monitoring report shall include tabulations of all required analyses and observations, including parameters, dates, times, sample stations, types of samples, test results, method detection limits, method minimum levels, and method reporting levels (if applicable), signed by the laboratory director or other responsible official.

**ii. Multiple Samples.** Unless the MRP specifies otherwise, when determining compliance with effluent limitations (other than instantaneous effluent limitations) and more than one sample result is available, the Discharger shall compute the arithmetic mean. If the data set contains one or more results that are "Detected, but Not Quantified (DNQ) or "Not Detected" (ND), the Discharger shall instead compute the median in accordance with the following procedure:

**(a)** The data set shall be ranked from low to high, reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.

**(b)** The median of the data set shall be determined. If the data set has an odd number of data points, the median is the middle value. If the data set has an even number of data points, the median is the average of the two values around the middle, unless one or both of these values is ND or DNQ, in which case the median shall



ED_002551_00000745-00123

be the lower of the two results (where DNQ is lower than a quantified value and ND is lower than DNQ).

iii. **Duplicate Samples.** The Discharger shall report the average of duplicate sample analyses when reporting for a single sample result (or the median if one or more of the duplicates is DNQ or ND [see Provision V.C.1.c.ii, above]). For bacteria indicators, the Discharger shall report the geometric mean of the duplicate analyses.

iv. **Dioxin-TEQ.** The Discharger shall report for each dioxin and furan congener the analytical results of effluent monitoring, including the reporting level, the method detection limit, and the measured concentration. The Discharger shall report all measured values of individual congeners, including data qualifiers. When calculating dioxin-TEQ, the Discharger shall set congener concentrations below the minimum levels (MLs) to zero. The Discharger shall calculate and report dioxin-TEQ using the following formula, where the MLs, toxicity equivalency factors (TEFs), and bioaccumulation equivalency factors (BEFs) are as provided in Table A:

$$\text{Dioxin-TEQ} = \Sigma\,(C_x \times TEF_x \times BEF_x)$$

where: $C_x$ = measured or estimated concentration of congener $x$
$TEF_x$ = toxicity equivalency factor for congener x
BEFx = bioaccumulation equivalency factor for congener $x$

**Table A**
Minimum Levels, Toxicity Equivalency Factors,
and Bioaccumulation Equivalency Factors

| Dioxin or Furan Congener | Minimum Level (pg/L) | 2005 Toxicity Equivalency Factor (TEF) | Bioaccumulation Equivalency Factor (BEF) |
|---|---|---|---|
| 2,3,7,8-TCDD | 10 | 1.0 | 1.0 |
| 1,2,3,7,8-PeCDD | 50 | 1.0 | 0.9 |
| 1,2,3,4,7,8-HxCDD | 50 | 0.1 | 0.3 |
| 1,2,3,6,7,8-HxCDD | 50 | 0.1 | 0.1 |
| 1,2,3,7,8,9-HxCDD | 50 | 0.1 | 0.1 |
| 1,2,3,4,6,7,8-HpCDD | 50 | 0.01 | 0.05 |
| OCDD | 100 | 0.0003 | 0.01 |
| 2,3,7,8-TCDF | 10 | 0.1 | 0.8 |
| 1,2,3,7,8-PeCDF | 50 | 0.03 | 0.2 |
| 2,3,4,7,8-PeCDF | 50 | 0.3 | 1.6 |
| 1,2,3,4,7,8-HxCDF | 50 | 0.1 | 0.08 |
| 1,2,3,6,7,8-HxCDF | 50 | 0.1 | 0.2 |
| 1,2,3,7,8,9-HxCDF | 50 | 0.1 | 0.6 |
| 2,3,4,6,7,8-HxCDF | 50 | 0.1 | 0.7 |
| 1,2,3,4,6,7,8-HpCDF | 50 | 0.01 | 0.01 |
| 1,2,3,4,7,8,9-HpCDF | 50 | 0.01 | 0.4 |
| OCDF | 100 | 0.0003 | 0.02 |



ED_002551_00000745-00124

e. **Results Not Yet Available.** The Discharger shall make all reasonable efforts to obtain analytical data for required parameter sampling in a timely manner. Certain analyses may require additional time to complete analytical processes and report results. In these cases, the Discharger shall describe the circumstances in the self-monitoring report and include the data for these parameters and relevant discussions of any violations in the next self-monitoring report due after the results are available.

f. **Annual Self-Monitoring Reports.** By the date specified in the MRP, the Discharger shall submit an annual self-monitoring report covering the previous calendar year. The report shall contain the following:

i. Comprehensive discussion of treatment plant performance, including documentation of any blending or other bypass events, and compliance with the permit. This discussion shall include any corrective actions taken or planned, such as changes to facility equipment or operation practices that may be needed to achieve compliance, and any other actions taken or planned that are intended to improve the performance and reliability of wastewater collection, treatment, or disposal practices;

ii. List of approved analyses, including the following:

**(a)** List of analyses for which the Discharger is certified;

**(b)** List of analyses performed for the Discharger by a separate certified laboratory (copies of reports signed by the laboratory director of that laboratory need not be submitted but shall be retained onsite); and

**(c)** List of "waived" analyses, as approved;

iii. Plan view drawing or map showing the Discharger's facility, flow routing, and sampling and observation station locations; and

iv. Results of facility report reviews. The Discharger shall regularly review, revise, and update, as necessary, the Operation and Maintenance Manual, Contingency Plan, Spill Prevention Plan, and Wastewater Facilities Status Report so these documents remain useful and relevant to current practices. At a minimum, reviews shall be conducted annually. The Discharger shall describe or summarize its review and evaluation procedures, recommended or planned actions, and estimated time schedule for implementing these actions. The Discharger shall complete changes to these documents to ensure that they remain up-to-date.

**D. Compliance Schedules** – Not supplemented

**E. Twenty-Four Hour Reporting** – Supplement to Attachment D, Provision V.E

**1. Oil or Other Hazardous Material Spills**

a. Within 24 hours of becoming aware of a spill of oil or other hazardous material not contained onsite and completely cleaned up, the Discharger shall report as follows:



ED_002551_00000745-00125

i. If the spill exceeds reportable quantities for hazardous materials listed in 40 C.F.R. part 302. The Discharger shall call the California Office of Emergency Services (800-852-7550).

ii. If the spill does not exceed reportable quantities for hazardous materials listed in 40 C.F.R., part 302, the Discharger shall call the Regional Water Board (510-622-2369).

b. The Discharger shall submit a written report to the Regional Water Board within five working days following either of the above telephone notifications unless directed otherwise by Regional Water Board staff. A report submitted electronically is acceptable. The written report shall include the following:

i. Date and time of spill, and duration if known;

ii. Location of spill (street address or description of location);

iii. Nature of material spilled;

iv. Quantity of material spilled;

v. Receiving water body affected, if any;

vi. Cause of spill;

vii. Estimated size of affected area;

viii. Observed impacts to receiving waters (e.g., oil sheen, fish kill, water discoloration);

ix. Corrective actions taken to contain, minimize, or clean up the spill;

x. Future corrective actions planned to prevent recurrence, and implementation schedule; and

xi. Persons or agencies notified.

2. **Unauthorized Municipal Wastewater Treatment Plant Discharges**[1]

a. **Two-Hour Notification.** For any unauthorized discharge that enters a drainage channel or surface water, the Discharger shall, as soon as possible, but not later than two hours after becoming aware of the discharge, notify the California Office of Emergency Services (800-852-7550) and the local health officer or director of environmental health with jurisdiction over the affected water body. Notification shall include the following:

[1] California Code of Regulations, Title 23, section 2250(b), defines an unauthorized discharge to be a discharge, not regulated by waste discharge requirements, of treated, partially-treated, or untreated wastewater resulting from the intentional or unintentional diversion of wastewater from a collection, treatment, or disposal system.



ED_002551_00000745-00126

i. Incident description and cause;

ii. Location of threatened or involved waterways or storm drains;

iii. Date and time that the unauthorized discharge started;

iv. Estimated quantity and duration of the unauthorized discharge (to the extent known), and estimated amount recovered;

v. Level of treatment prior to discharge (e.g., raw wastewater, primary-treated wastewater, or undisinfected secondary-treated wastewater); and

vi. Identity of person reporting the unauthorized discharge.

b. **Five-Day Written Report.** Within five business days following the two-hour notification, the Discharger shall submit a written report that includes, in addition to the information listed in Provision V.E.2.a, above, the following:

i. Methods used to delineate the geographical extent of the unauthorized discharge within receiving waters;

ii. Efforts implemented to minimize public exposure to the unauthorized discharge;

iii. Visual observations of the impacts (if any) noted in the receiving waters (e.g., fish kill, discoloration of receiving water) and extent of sampling if conducted;

iv. Corrective measures taken to minimize the impact of the unauthorized discharge;

v. Measures to be taken to minimize the potential for a similar unauthorized discharge in the future;

vi. Summary of Spill Prevention Plan or Operation and Maintenance Manual modifications to be made, if necessary, to minimize the potential for future unauthorized discharges; and

vii. Quantity and duration of the unauthorized discharge, and the amount recovered.

**F. Planned Changes** – Not supplemented

**G. Anticipated Noncompliance** – Not supplemented

**H. Other Noncompliance** – Not supplemented

**I. Other Information** – Not supplemented

**VI. STANDARD PROVISION – ENFORCEMENT** – Not Supplemented

**VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS** – Not Supplemented



ED_002551_00000745-00127

**VIII. DEFINITIONS** – Addition to Attachment D

More definitions can be found in Attachment A of this NPDES Permit.

**A. Arithmetic Calculations** –

1. **Geometric Mean**. The antilog of the log mean or the back-transformed mean of the logarithmically transformed variables, which is equivalent to the multiplication of the antilogarithms. The geometric mean can be calculated with either of the following equations:

$$\text{Geometric Mean} = Anti\log\left(\frac{1}{N}\sum_{i=1}^{N} Log(C_i)\right)$$

or

$$\text{Geometric Mean} = (C_1 \times C_2 \times \ldots \times C_N)^{1/N}$$

Where "N" is the number of data points for the period analyzed and "C" is the concentration for each of the "N" data points.

2. **Mass Emission Rate.** The rate of discharge expressed in mass. The mass emission rate is obtained from the following calculation for any calendar day:

$$\text{Mass emisison rate (lb/day)} = \frac{8.345}{N}\sum_{i=1}^{N} Q_i C_i$$

$$\text{Mass emisison rate (kg/day)} = \frac{3.785}{N}\sum_{i=1}^{N} Q_i C_i$$

In which "N" is the number of samples analyzed in any calendar day and "$Q_i$" and "$C_i$" are the flow rate (MGD) and the constituent concentration (mg/L) associated with each of the "N" grab samples that may be taken in any calendar day. If a composite sample is taken, "$C_i$" is the concentration measured in the composite sample and "$Q_i$" is the average flow rate occurring during the period over which the samples are composited. The daily concentration of a constituent measured over any calendar day shall be determined from the flow-weighted average of the same constituent in the combined waste streams as follows:

$$C_d = \text{Average daily concentration} = \frac{1}{Q_t}\sum_{i=1}^{N} Q_i C_i$$

In which "N" is the number of component waste streams and "Q" and "C" are the flow rate (MGD) and the constituent concentration (mg/L) associated with each of the "N" waste streams. "$Q_t$" is the total flow rate of the combined waste streams.



ED_002551_00000745-00128

3. **Removal Efficiency.** The ratio of pollutants removed by the treatment facilities to pollutants entering the treatment facilities (expressed as a percentage). The Discharger shall determine removal efficiencies using monthly averages (by calendar month unless otherwise specified) of pollutant concentration of influent and effluent samples collected at about the same time and using the following equation (or its equivalent):

   Removal Efficiency (%) = 100 × [1-(Effluent Concentration/Influent Concentration)]

**B. Blending** – the practice of bypassing biological treatment units and recombining the bypass wastewater with biologically-treated wastewater.

**C. Composite Sample** – a sample composed of individual grab samples collected manually or by an automatic sampling device on the basis of time or flow as specified in the MRP. For flow-based composites, the proportion of each grab sample included in the composite sample shall be within plus or minus five percent (+/-5%) of the representative flow of the waste stream being measured at the time of grab sample collection. Alternatively, equal volume grab samples may be individually analyzed with the flow-weighted average calculated by averaging flow-weighted ratios of each grab sample analytical result. Grab samples comprising time-based composite samples shall be collected at intervals not greater than those specified in the MRP. The quantity of each grab sample comprising a time-based composite sample shall be a set of flow proportional volumes as specified in the MRP. If a particular time-based or flow-based composite sampling protocol is not specified in the MRP, the Discharger shall determine and implement the most representative protocol.

**D. Duplicate Sample** – a second sample taken from the same source and at the same time as an initial sample (such samples are typically analyzed identically to measure analytical variability).

**E. Grab Sample** – an individual sample collected during a short period not exceeding 15 minutes. Grab samples represent only the condition that exists at the time the sample is collected.

**F. Overflow** – the intentional or unintentional spilling or forcing out of untreated or partially-treated waste from a transport system (e.g., through manholes, at pump stations, or at collection points) upstream of the treatment plant headworks or from any part of a treatment plant.

**G. Priority Pollutants** – those constituents referred to in 40 C.F.R. part 122 as promulgated in the Federal Register, Vol. 65, No. 97, Thursday, May 18, 2000, also known as the California Toxics Rule.

**H. Untreated waste** – raw wastewater.



ED_002551_00000745-00129

# Table B

List of Monitoring Parameters and Analytical Methods

| CTR No. | Pollutant/Parameter | Analytical Method[2] | Minimum Levels[3] (µg/l) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GC | GCMS | LC | Color | FAA | GFAA | ICP | ICP MS | SPGFAA | HYD RIDE | CVAA | DCP |
| 1 | Antimony | 204.2 | | | | | 10 | 5 | 50 | 0.5 | 5 | 0.5 | | 1000 |
| 2 | Arsenic | 206.3 | | | | 20 | | 2 | 10 | 2 | 2 | 1 | | 1000 |
| 3 | Beryllium | | | | | | 20 | 0.5 | 2 | 0.5 | 1 | | | 1000 |
| 4 | Cadmium | 200 or 213 | | | | | 10 | 0.5 | 10 | 0.25 | 0.5 | | | 1000 |
| 5a | Chromium (III) | SM 3500 | | | | | | | | | | | | |
| 5b | Chromium (VI) | SM 3500 | | | | 10 | 5 | | | | | | | 1000 |
| | Chromium (total)[4] | SM 3500 | | | | | 50 | 2 | 10 | 0.5 | 1 | | | 1000 |
| 6 | Copper | 200.9 | | | | | 25 | 5 | 10 | 0.5 | 2 | | | 1000 |
| 7 | Lead | 200.9 | | | | | 20 | 5 | 5 | 0.5 | 2 | | | 10,000 |
| 8 | Mercury | 1631 (note)[5] | | | | | | | | | | | | |
| 9 | Nickel | 249.2 | | | | | 50 | 5 | 20 | 1 | 5 | | | 1000 |
| 10 | Selenium | 200.8 or SM 3114B or C | | | | | | 5 | 10 | 2 | 5 | 1 | | 1000 |
| 11 | Silver | 272.2 | | | | | 10 | 1 | 10 | 0.25 | 2 | | | 1000 |
| 12 | Thallium | 279.2 | | | | | 10 | 2 | 10 | 1 | 5 | | | 1000 |
| 13 | Zinc | 200 or 289 | | | | | 20 | | 20 | 1 | 10 | | | |
| 14 | Cyanide | SM 4500 $CN^-$ C or I | | | | 5 | | | | | | | | |
| 15 | Asbestos (only required for dischargers to MUN waters)[6] | 0100.2 [7] | | | | | | | | | | | | |
| 16 | 2,3,7,8-TCDD and 17 congeners (Dioxin) | 1613 | | | | | | | | | | | | |
| 17 | Acrolein | 603 | 2.0 | 5 | | | | | | | | | | |
| 18 | Acrylonitrile | 603 | 2.0 | 2 | | | | | | | | | | |
| 19 | Benzene | 602 | 0.5 | 2 | | | | | | | | | | |
| 33 | Ethylbenzene | 602 | 0.5 | 2 | | | | | | | | | | |
| 39 | Toluene | 602 | 0.5 | 2 | | | | | | | | | | |
| 20 | Bromoform | 601 | 0.5 | 2 | | | | | | | | | | |
| 21 | Carbon Tetrachloride | 601 | 0.5 | 2 | | | | | | | | | | |
| 22 | Chlorobenzene | 601 | 0.5 | 2 | | | | | | | | | | |
| 23 | Chlorodibromomethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 24 | Chloroethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 25 | 2-Chloroethylvinyl Ether | 601 | 1 | 1 | | | | | | | | | | |

[2] The suggested method is the U.S. EPA Method unless otherwise specified (SM = Standard Methods). The Discharger may use another U.S. EPA-approved or recognized method if that method has a level of quantification below the applicable water quality objective. Where no method is suggested, the Discharger has the discretion to use any standard method.

[3] Minimum levels are from the *State Implementation Policy*. They are the concentration of the lowest calibration standard for that technique based on a survey of contract laboratories. Laboratory techniques are defined as follows: GC = Gas Chromatography; GCMS = Gas Chromatography/Mass Spectrometry; LC = High Pressure Liquid Chromatography; Color = Colorimetric; FAA = Flame Atomic Absorption; GFAA = Graphite Furnace Atomic Absorption; ICP = Inductively Coupled Plasma; ICPMS = Inductively Coupled Plasma/Mass Spectrometry; SPGFAA = Stabilized Platform Graphite Furnace Atomic Absorption (i.e., U.S. EPA 200.9); Hydride = Gaseous Hydride Atomic Absorption; CVAA = Cold Vapor Atomic Absorption; DCP = Direct Current Plasma.

[4] Analysis for total chromium may be substituted for analysis of chromium (III) and chromium (VI) if the concentration measured is below the lowest hexavalent chromium criterion (11 ug/l).

[5] The Discharger shall use ultra-clean sampling (U.S. EPA Method 1669) and ultra-clean analytical methods (U.S. EPA Method 1631) for mercury monitoring. The minimum level for mercury is 2 ng/l (or 0.002 ug/l).

[6] MUN = Municipal and Domestic Supply. This designation, if applicable, is in the Findings of the permit.

[7] Determination of Asbestos Structures over 10 [micrometers] in Length in Drinking Water Using MCE Filters, U.S. EPA 600/R-94-134, June 1994.

| CTR No. | Pollutant/Parameter | Analytical Method[2] | Minimum Levels[5] (µg/l) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GC | GCMS | LC | Color | FAA | GFAA | ICP | ICP MS | SPGFAA | HYD RIDE | CVAA | DCP |
| 26 | Chloroform | 601 | 0.5 | 2 | | | | | | | | | | |
| 75 | 1,2-Dichlorobenzene | 601 | 0.5 | 2 | | | | | | | | | | |
| 76 | 1,3-Dichlorobenzene | 601 | 0.5 | 2 | | | | | | | | | | |
| 77 | 1,4-Dichlorobenzene | 601 | 0.5 | 2 | | | | | | | | | | |
| 27 | Dichlorobromomethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 28 | 1,1-Dichloroethane | 601 | 0.5 | 1 | | | | | | | | | | |
| 29 | 1,2-Dichloroethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 30 | 1,1-Dichloroethylene or 1,1-Dichloroethene | 601 | 0.5 | 2 | | | | | | | | | | |
| 31 | 1,2-Dichloropropane | 601 | 0.5 | 1 | | | | | | | | | | |
| 32 | 1,3-Dichloropropylene or 1,3-Dichloropropene | 601 | 0.5 | 2 | | | | | | | | | | |
| 34 | Methyl Bromide or Bromomethane | 601 | 1.0 | 2 | | | | | | | | | | |
| 35 | Methyl Chloride or Chloromethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 36 | Methylene Chloride or Dichloromethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 37 | 1,1,2,2-Tetrachloroethane | 601 | 0.5 | 1 | | | | | | | | | | |
| 38 | Tetrachloroethylene | 601 | 0.5 | 2 | | | | | | | | | | |
| 40 | 1,2-Trans-Dichloroethylene | 601 | 0.5 | 1 | | | | | | | | | | |
| 41 | 1,1,1-Trichloroethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 42 | 1,1,2-Trichloroethane | 601 | 0.5 | 2 | | | | | | | | | | |
| 43 | Trichloroethene | 601 | 0.5 | 2 | | | | | | | | | | |
| 44 | Vinyl Chloride | 601 | 0.5 | 2 | | | | | | | | | | |
| 45 | 2-Chlorophenol | 604 | 2 | 5 | | | | | | | | | | |
| 46 | 2,4-Dichlorophenol | 604 | 1 | 5 | | | | | | | | | | |
| 47 | 2,4-Dimethylphenol | 604 | 1 | 2 | | | | | | | | | | |
| 48 | 2-Methyl-4,6-Dinitrophenol or Dinitro-2-methylphenol | 604 | 10 | 5 | | | | | | | | | | |
| 49 | 2,4-Dinitrophenol | 604 | 5 | 5 | | | | | | | | | | |
| 50 | 2-Nitrophenol | 604 | | 10 | | | | | | | | | | |
| 51 | 4-Nitrophenol | 604 | 5 | 10 | | | | | | | | | | |
| 52 | 3-Methyl-4-Chlorophenol | 604 | 5 | 1 | | | | | | | | | | |
| 53 | Pentachlorophenol | 604 | 1 | 5 | | | | | | | | | | |
| 54 | Phenol | 604 | 1 | 1 | | 50 | | | | | | | | |
| 55 | 2,4,6-Trichlorophenol | 604 | 10 | 10 | | | | | | | | | | |
| 56 | Acenaphthene | 610 HPLC | 1 | 1 | 0.5 | | | | | | | | | |
| 57 | Acenaphthylene | 610 HPLC | | 10 | 0.2 | | | | | | | | | |
| 58 | Anthracene | 610 HPLC | | 10 | 2 | | | | | | | | | |
| 60 | Benzo(a)Anthracene or 1,2 Benzanthracene | 610 HPLC | 10 | 5 | | | | | | | | | | |
| 61 | Benzo(a)Pyrene | 610 HPLC | | 10 | 2 | | | | | | | | | |
| 62 | Benzo(b)Fluoranthene or 3,4 Benzofluoranthene | 610 HPLC | | 10 | 10 | | | | | | | | | |
| 63 | Benzo(ghi)Perylene | 610 HPLC | | 5 | 0.1 | | | | | | | | | |
| 64 | Benzo(k)Fluoranthene | 610 HPLC | | 10 | 2 | | | | | | | | | |
| 74 | Dibenzo(a,h)Anthracene | 610 HPLC | | 10 | 0.1 | | | | | | | | | |
| 86 | Fluoranthene | 610 HPLC | 10 | 1 | 0.05 | | | | | | | | | |
| 87 | Fluorene | 610 HPLC | | 10 | 0.1 | | | | | | | | | |
| 92 | Indeno(1,2,3-cd) Pyrene | 610 HPLC | | 10 | 0.05 | | | | | | | | | |
| 100 | Pyrene | 610 HPLC | | 10 | 0.05 | | | | | | | | | |
| 68 | Bis(2-Ethylhexyl)Phthalate | 606 or 625 | 10 | 5 | | | | | | | | | | |

| CTR No. | Pollutant/Parameter | Analytical Method[2] | Minimum Levels[2] (µg/l) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GC | GCMS | LC | Color | FAA | GFAA | ICP | ICP MS | SPGFAA | HYD RIDE | CVAA | DCP |
| 70 | Butylbenzyl Phthalate | 606 or 625 | 10 | 10 | | | | | | | | | | |
| 79 | Diethyl Phthalate | 606 or 625 | 10 | 2 | | | | | | | | | | |
| 80 | Dimethyl Phthalate | 606 or 625 | 10 | 2 | | | | | | | | | | |
| 81 | Di-n-Butyl Phthalate | 606 or 625 | | 10 | | | | | | | | | | |
| 84 | Di-n-Octyl Phthalate | 606 or 625 | | 10 | | | | | | | | | | |
| 59 | Benzidine | 625 | | 5 | | | | | | | | | | |
| 65 | Bis(2-Chloroethoxy)Methane | 625 | | 5 | | | | | | | | | | |
| 66 | Bis(2-Chloroethyl)Ether | 625 | 10 | 1 | | | | | | | | | | |
| 67 | Bis(2-Chloroisopropyl)Ether | 625 | 10 | 2 | | | | | | | | | | |
| 69 | 4-Bromophenyl Phenyl Ether | 625 | 10 | 5 | | | | | | | | | | |
| 71 | 2-Chloronaphthalene | 625 | | 10 | | | | | | | | | | |
| 72 | 4-Chlorophenyl Phenyl Ether | 625 | | 5 | | | | | | | | | | |
| 73 | Chrysene | 625 | | 10 | 5 | | | | | | | | | |
| 78 | 3,3'-Dichlorobenzidine | 625 | | 5 | | | | | | | | | | |
| 82 | 2,4-Dinitrotoluene | 625 | 10 | 5 | | | | | | | | | | |
| 83 | 2,6-Dinitrotoluene | 625 | | 5 | | | | | | | | | | |
| 85 | 1,2-Diphenylhydrazine (note)[8] | 625 | | 1 | | | | | | | | | | |
| 88 | Hexachlorobenzene | 625 | 5 | 1 | | | | | | | | | | |
| 89 | Hexachlorobutadiene | 625 | 5 | 1 | | | | | | | | | | |
| 90 | Hexachlorocyclopentadiene | 625 | 5 | 5 | | | | | | | | | | |
| 91 | Hexachloroethane | 625 | 5 | 1 | | | | | | | | | | |
| 93 | Isophorone | 625 | 10 | 1 | | | | | | | | | | |
| 94 | Naphthalene | 625 | 10 | 1 | 0.2 | | | | | | | | | |
| 95 | Nitrobenzene | 625 | 10 | 1 | | | | | | | | | | |
| 96 | N-Nitrosodimethylamine | 625 | 10 | 5 | | | | | | | | | | |
| 97 | N-Nitrosodi-n-Propylamine | 625 | 10 | 5 | | | | | | | | | | |
| 98 | N-Nitrosodiphenylamine | 625 | 10 | 1 | | | | | | | | | | |
| 99 | Phenanthrene | 625 | | 5 | 0.05 | | | | | | | | | |
| 101 | 1,2,4-Trichlorobenzene | 625 | 1 | 5 | | | | | | | | | | |
| 102 | Aldrin | 608 | 0.005 | | | | | | | | | | | |
| 103 | α-BHC | 608 | 0.01 | | | | | | | | | | | |
| 104 | β-BHC | 608 | 0.005 | | | | | | | | | | | |
| 105 | γ-BHC (Lindane) | 608 | 0.02 | | | | | | | | | | | |
| 106 | δ-BHC | 608 | 0.005 | | | | | | | | | | | |
| 107 | Chlordane | 608 | 0.1 | | | | | | | | | | | |
| 108 | 4,4'-DDT | 608 | 0.01 | | | | | | | | | | | |
| 109 | 4,4'-DDE | 608 | 0.05 | | | | | | | | | | | |
| 110 | 4,4'-DDD | 608 | 0.05 | | | | | | | | | | | |
| 111 | Dieldrin | 608 | 0.01 | | | | | | | | | | | |
| 112 | Endosulfan (alpha) | 608 | 0.02 | | | | | | | | | | | |
| 113 | Endosulfan (beta) | 608 | 0.01 | | | | | | | | | | | |
| 114 | Endosulfan Sulfate | 608 | 0.05 | | | | | | | | | | | |
| 115 | Endrin | 608 | 0.01 | | | | | | | | | | | |
| 116 | Endrin Aldehyde | 608 | 0.01 | | | | | | | | | | | |
| 117 | Heptachlor | 608 | 0.01 | | | | | | | | | | | |
| 118 | Heptachlor Epoxide | 608 | 0.01 | | | | | | | | | | | |

[8] Measurement for 1,2-Diphenylhydrazine may use azobenzene as a screen: if azobenzene is measured at >1 ug/l, then the Discharger shall analyze for 1,2-Diphenylhydrazine.

| CTR No. | Pollutant/Parameter | Analytical Method[2] | Minimum Levels[5] (µg/l) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GC | GCMS | LC | Color | FAA | GFAA | ICP | ICP MS | SPGFAA | HYD RIDE | CVAA | DCP |
| 119-125 | PCBs: Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 | 608 | 0.5 | | | | | | | | | | | |
| 126 | Toxaphene | 608 | 0.5 | | | | | | | | | | | |

**ATTACHMENT H – PRETREATMENT REQUIREMENTS**

CALIFORNIA REGIONAL WATER QUALITY CONTROL
BOARD
SAN FRANCISCO BAY REGION

**ATTACHMENT H**
PRETREATMENT PROGRAM PROVISIONS

For

NPDES POTW WASTEWATER DISCHARGE PERMITS

March 2011
*(Corrected May 2011)*



ED_002551_00000745-00134

TABLE OF CONTENTS Page

I. Pretreatment Program Provisions..... H-3

II. APPENDIX H-1..... H-5
REQUIREMENTS FOR PRETREATMENT ANNUAL REPORTS
A. Cover Sheet..... H-5
B. Introduction..... H-5
C. Definitions..... H-6
D. Discussion of Upset, Interference and Pass Through..... H-6
E. Influent, Effluent and Biosolids Monitoring Results..... H-6
F. Inspection, Sampling and Enforcement Programs..... H-6
G. Updated List of Regulated SIUs..... H-7
H. SIU (categorical and non-categorical) Compliance Activities..... H-8
I. Baseline Monitoring Report Update..... H-9
J. Pretreatment Program Changes..... H-10
K. Pretreatment Program Budget..... H-10
L. Public Participation Summary..... H-10
M. Biosolids Storage and Disposal Practice..... H-11
N. Other Pollutant Reduction Activities..... H-11
O. Other Subjects..... H-11
P. Permit Compliance System (PCS) Data Entry Form..... H-11

III. APPENDIX H-2..... H-12
REQUIREMENTS FOR JANUARY-JUNE PRETREATMENT SEMIANNUAL REPORT
A. Influent, Effluent and Biosolids Monitoring..... H-12
B. Industrial User Compliance Status..... H-12
C. Discharger's Compliance with Pretreatment Program Requirements..... H-13

IV. APPENDIX H-3..... H-14
SIGNATURE REQUIREMENTS FOR PRETREATMENT ANNUAL AND SEMIANNUAL REPORTS

V. APPENDIX H-4..... H-15
REQUIREMENTS FOR INFLUENT, EFFLUENT AND BIOSOLIDS MONITORING
A. Reduction of Monitoring Frequency..... H-15
B. Influent and Effluent Monitoring..... H-15
C. Biosolids Monitoring..... H-16



ED_002551_00000745-00135

**Attachment H: Pretreatment Program Provisions**

**A.** The Discharger shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in 40 C.F.R. 403, including any regulatory revisions to Part 403. Where a Part 403 revision is promulgated after the effective date of the Discharger's permit and places mandatory actions upon the Discharger as Control Authority but does not specify a timetable for completion of the actions, the Discharger shall complete the required actions within six months from the issuance date of this permit or six months from the effective date of the Part 403 revisions, whichever comes later.

(If the Discharger cannot complete the required actions within the above six-month period due to the need to process local adoption of sewer use ordinance modifications or other substantial pretreatment program modifications, the Discharger shall notify the Executive Officer in writing at least 60 days prior to the six-month deadline. The written notification shall include a summary of completed required actions, an explanation for why the six month deadline cannot be met, and a proposed timeframe to complete the rest of the required actions as soon as practical but not later than within twelve months of the issuance date of this permit or twelve months of the effective date of the Part 403 revisions, whichever comes later. The Executive Officer will notify the Discharger in writing within 30 days of receiving the request if the extension is not approved.)

The United States Environmental Protection Agency (U.S. EPA), the State and/or other appropriate parties may initiate enforcement action against a nondomestic user for noncompliance with applicable standards and requirements as provided in the Clean Water Act (Act).

**B.** The Discharger shall enforce the requirements promulgated under Sections 307(b), 307(c), 307(d) and 402(b) of the Act with timely, appropriate and effective enforcement actions. The Discharger shall cause nondomestic users subject to Federal Categorical Standards to achieve compliance no later than the date specified in those requirements or, in the case of a new nondomestic user, upon commencement of the discharge.

**C.** The Discharger shall perform the pretreatment functions as required in 40 C.F.R. 403 and amendments or modifications thereto including, but not limited to:

1. Implement the necessary legal authorities to fully implement the pretreatment regulations as provided in 40 C.F.R. 403.8(f)(1);

2. Implement the programmatic functions as provided in 40 C.F.R. 403.8(f)(2);

3. Publish an annual list of nondomestic users in significant noncompliance as provided per 40 C.F.R. 403.8(f)(2)(viii);

4. Provide for the requisite funding and personnel to implement the pretreatment program as provided in 40 C.F.R. 403.8(f)(3); and

5. Enforce the national pretreatment standards for prohibited discharges and categorical standards as provided in 40 C.F.R. 403.5 and 403.6, respectively.



ED_002551_00000745-00136

**D.** The Discharger shall submit annually a report to U.S. EPA Region 9, the State Water Board and the Regional Water Board describing its pretreatment program activities over the previous calendar year. In the event that the Discharger is not in compliance with any conditions or requirements of the Pretreatment Program, the Discharger shall also include the reasons for noncompliance and a plan and schedule for achieving compliance. The report shall contain, but is not limited to, the information specified in Appendix H-1 entitled, "Requirements for Pretreatment Annual Reports." The annual report is due each year on February 28.

**E.** The Discharger shall submit a pretreatment semiannual report to U.S. EPA Region 9, the State Water Board and the Regional Water Board describing the status of its significant industrial users (SIUs). The report shall contain, but is not limited to, information specified in Appendix H-2 entitled, "Requirements for Pretreatment Semiannual Reports." The semiannual report is due July 31 for the period January through June. The information for the period July through December of each year shall be included in the Annual Report identified in Appendix H-1. The Executive Officer may exempt the Discharger from the semiannual reporting requirements on a case by case basis subject to State Water Board and U.S. EPA's comment and approval.

**F.** The Discharger shall conduct the monitoring of its treatment plant's influent, effluent, and sludge (biosolids) as described in Appendix H-4 entitled, "Requirements for Influent, Effluent and Sludge (Biosolids) Monitoring." (The term "biosolids," as used in this Attachment, shall have the same meaning as wastewater treatment plant "sludge" and will be used from this point forward.) The Discharger shall evaluate the results of the sampling and analysis during the preparation of the semiannual and annual reports to identify any trends. Signing the certification statement used to transmit the reports shall be deemed to certify the Discharger has completed this data evaluation. A tabulation of the data shall be included in the pretreatment annual report as specified in Appendix H-4. The Executive Officer may require more or less frequent monitoring on a case by case basis.



ED_002551_00000745-00137

## APPENDIX H-1

## REQUIREMENTS FOR PRETREATMENT ANNUAL REPORTS

The Pretreatment Annual Report is due each year on February 28 and shall contain activities conducted during the previous calendar year. The purpose of the Annual Report is to:

- Describe the status of the Discharger's pretreatment program; and
- Report on the effectiveness of the program, as determined by comparing the results of the preceding year's program implementation.

The report shall contain, at a minimum, the following information:

### A. Cover Sheet

The cover sheet shall include:

1. The name(s) and National Pollutant Discharge Elimination Discharge System (NPDES) permit number(s) of the Discharger(s) that is part of the Pretreatment Program;

2. The name, address and telephone number of a pretreatment contact person;

3. The period covered in the report;

4. A statement of truthfulness; and

5. The dated signature of a principal executive officer, ranking elected official, or other duly authorized employee who is responsible for overall operation of the Publicly Owned Treatment Works (POTW) (40 C.F.R. 403.12(m)).

### B. Introduction

This section shall include:

1. Any pertinent background information related to the Discharger and/or the nondomestic user base of the area;

2. List of applicable interagency agreements used to implement the Discharger's pretreatment program (e.g., Memoranda of Understanding (MOU) with satellite sanitary sewer collection systems); and

3. A status summary of the tasks required by a Pretreatment Compliance Inspection (PCI), Pretreatment Compliance Audit (PCA), Cleanup and Abatement Order (CAO), or other pretreatment-related enforcement actions required by the Regional Water Board or the U.S. EPA. A more detailed discussion can be referenced and included in the section entitled, "Program Changes," if needed.



ED_002551_00000745-00138

**C. Definitions**

This section shall include a list of key terms and their definitions that the Discharger uses to describe or characterize elements of its pretreatment program, or the Discharger may provide a reference to its website if the applicable definitions are available on-line.

**D. Discussion of Upset, Interference and Pass Through**

This section shall include a discussion of Upset, Interference or Pass Through incidents, if any, at the Discharger's treatment plant(s) that the Discharger knows of or suspects were caused by nondomestic user discharges. Each incident shall be described, at a minimum, consisting of the following information:

1. A description of what occurred;
2. A description of what was done to identify the source;
3. The name and address of the nondomestic user responsible;
4. The reason(s) why the incident occurred;
5. A description of the corrective actions taken; and
6. An examination of the local and federal discharge limits and requirements for the purposes of determining whether any additional limits or changes to existing requirements may be necessary to prevent other Upset, Interference or Pass Through incidents.

**E. Influent, Effluent and Biosolids Monitoring Results**

The Discharger shall evaluate the influent, effluent and biosolids monitoring results as specified in Appendix H-4 in preparation of this report. The Discharger shall retain the analytical laboratory reports with the Quality Assurance and Quality Control (QA/QC) data validation and make these reports available upon request.

This section shall include:

1. Description of the sampling procedures and an analysis of the results (see Appendix H-4 for specific requirements);
2. Tabular summary of the compounds detected (compounds measured above the detection limit for the analytical method used) for the monitoring data generated during the reporting year as specified in Appendix H-4;
3. Discussion of the investigation findings into any contributing sources of the compounds that exceed NPDES limits; and
4. Graphical representation of the influent and effluent metal monitoring data for the past five years with a discussion of any trends.



ED_002551_00000745-00139

**F. Inspection, Sampling and Enforcement Programs**

This section shall include at a minimum the following information:

1. Inspections: Summary of the inspection program (e.g., criteria for determining the frequency of inspections and inspection procedures);

2. Sampling Events: Summary of the sampling program (e.g., criteria for determining the frequency of sampling and chain of custody procedures); and

3. Enforcement: Summary of Enforcement Response Plan (ERP) implementation including dates for adoption, last revision and submission to the Regional Water Board.

**G. Updated List of Regulated SIUs**

This section shall contain a list of all of the federal categories that apply to SIUs regulated by the Discharger. The specific categories shall be listed including the applicable 40 C.F.R. subpart and section, and pretreatment standards (both maximum and average limits). Local limits developed by the Discharger shall be presented in a table including the applicability of the local limits to SIUs. If local limits do not apply uniformly to SIUs, specify the applicability in the tables listing the categorical industrial users (CIUs) and non-categorical SIUs. Tables developed in Sections 7A and 7B can be used to present or reference this information.

1. CIUs - Include a table that alphabetically lists the CIUs regulated by the Discharger as of the end of the reporting period. This list shall include:

   a. Name;

   b. Address;

   c. Applicable federal category(ies);

   d. Reference to the location where the applicable Federal Categorical Standards are presented in the report;

   e. Identify all deletions and additions keyed to the list submitted in the previous annual report. All deletions shall be briefly explained (e.g., closure, name change, ownership change, reclassification, declassification); and

   f. Information, calculations and data used to determine the limits for those CIUs for which a combined waste stream formula is applied.

2. Non-categorical SIUs - Include a table that alphabetically lists the SIUs not subject to any federal categorical standards that were regulated by the Discharger as of the end of the reporting period. This list shall include:

   a. Name;

b. Address;

c. A brief description of the type of business;

d. Identify all deletions and additions keyed to the list submitted in the previous annual report. All deletions shall be briefly explained (e.g., closure, name change, ownership change, reclassification, declassification); and

e. Indicate the applicable discharge limits (e.g., different from local limits) to which the SIUs are subject and reference to the location where the applicable limits (e.g., local discharge limits) are presented in the report.

**H. SIU (categorical and non-categorical) Compliance Activities**

The information required in this section may be combined in the table developed in Section 7 above.

1. **Inspection and Sampling Summary:** This section shall contain a summary of all the SIU inspections and sampling activities conducted by the Discharger and sampling activities conducted by the SIU over the reporting year to gather information and data regarding SIU compliance. The summary shall include:

   a. The number of inspections and sampling events conducted for each SIU by the Discharger;

   b. The number of sampling events conducted by the SIU. Identify SIUs that are operating under an approved Total Toxic Organic Management Plan;

   c. The quarters in which the above activities were conducted; and

   d. The compliance status of each SIU, delineated by quarter, and characterized using all applicable descriptions as given below:

      (1) Consistent compliance;

      (2) Inconsistent compliance;

      (3) Significant noncompliance;

      (4) On a compliance schedule to achieve compliance (include the date final compliance is required);

      (5) Not in compliance and not on a compliance schedule; and

      (6) Compliance status unknown, and why not.

2. **Enforcement Summary:** This section shall contain a summary of SIU compliance and enforcement activities during the reporting year. The summary may be included in the summary

table developed in section 8A and shall include the names and addresses of all SIUs affected by the actions identified below. For each notice specified in enforcement action "i" through "iv," indicate whether it was for an infraction of a federal or local standard/limit or requirement.

a. Warning letters or notices of violations regarding SIUs' apparent noncompliance with or violation of any federal pretreatment categorical standards and/or requirements, or local limits and/or requirements;

b. Administrative Orders regarding the SIUs' apparent noncompliance with or violation of any federal pretreatment categorical standards and/or requirements, or local limits and/or requirements;

c. Civil actions regarding the SIUs' apparent noncompliance with or violation of any federal pretreatment categorical standards and/or requirements, or local limits and/or requirements;

d. Criminal actions regarding the SIUs' apparent noncompliance with or violation of any federal pretreatment categorical standards and/or requirements, or local limits and/or requirements;

e. Assessment of monetary penalties. Identify the amount of penalty in each case and reason for assessing the penalty;

f. Order to restrict/suspend discharge to the Discharger; and

g. Order to disconnect the discharge from entering the Discharger.

3. **July-December Semiannual Data:** For SIU violations/noncompliance during the semiannual reporting period from July 1 through December 31, provide the following information:

a. Name and facility address of the SIU;

b. Indicate if the SIU is subject to Federal Categorical Standards; if so, specify the category including the subpart that applies;

c. For SIUs subject to Federal Categorical Standards, indicate if the violation is of a categorical or local standard;

d. Indicate the compliance status of the SIU for the two quarters of the reporting period; and

e. For violations/noncompliance identified in the reporting period, provide:

(1) The date(s) of violation(s);

(2) The parameters and corresponding concentrations exceeding the limits and the discharge limits for these parameters; and



ED_002551_00000745-00142

(3) A brief summary of the noncompliant event(s) and the steps that are being taken to achieve compliance.

**I. Baseline Monitoring Report Update**

This section shall provide a list of CIUs added to the pretreatment program since the last annual report. This list of new CIUs shall summarize the status of the respective Baseline Monitoring Reports (BMR). The BMR must contain the information specified in 40 C.F.R. 403.12(b). For each new CIU, the summary shall indicate when the BMR was due; when the CIU was notified by the Discharger of this requirement; when the CIU submitted the report; and/or when the report is due.

**J. Pretreatment Program Changes**

This section shall contain a description of any significant changes in the Pretreatment Program during the past year including, but not limited to:

1. Legal authority;
2. Local limits;
3. Monitoring/ inspection program and frequency;
4. Enforcement protocol;
5. Program's administrative structure;
6. Staffing level;
7. Resource requirements;
8. Funding mechanism;
9. If the manager of the Discharger's pretreatment program changed, a revised organizational chart shall be included; and
10. If any element(s) of the program is in the process of being modified, this intention shall also be indicated.

**K. Pretreatment Program Budget**

This section shall present the budget spent on the Pretreatment Program. The budget, either by the calendar or fiscal year, shall show the total expenses required to implement the pretreatment program. A brief discussion of the source(s) of funding shall be provided. In addition, the Discharger shall make available upon request specific details on its pretreatment program expense amounts such as for personnel, equipment, and chemical analyses.

**L. Public Participation Summary**

This section shall include a copy of the public notice as required in 40 C.F.R. 403.8(f)(2)(viii). If a notice was not published, the reason shall be stated.

**M. Biosolids Storage and Disposal Practice**

This section shall describe how treated biosolids are stored and ultimately disposed. If a biosolids storage area is used, it shall be described in detail including its location, containment features and biosolids handling procedures.

**N. Other Pollutant Reduction Activities**

This section shall include a brief description of any programs the Discharger implements to reduce pollutants from nondomestic users that are not classified as SIUs. If the Discharger submits any of this program information in an Annual Pollution Prevention Report, reference to this other report shall satisfy this reporting requirement.

**O. Other Subjects**

Other information related to the Pretreatment Program that does not fit into any of the above categories should be included in this section.

**P. Permit Compliance System (PCS) Data Entry Form**

The annual report shall include the PCS Data Entry Form. This form shall summarize the enforcement actions taken against SIUs in the past year. This form shall include the following information:

1. Discharger's name,
2. NPDES Permit number,
3. Period covered by the report,
4. Number of SIUs in significant noncompliance (SNC) that are on a pretreatment compliance schedule,
5. Number of notices of violation and administrative Orders issued against SIUs,
6. Number of civil and criminal judicial actions against SIUs,
7. Number of SIUs that have been published as a result of being in SNC, and
8. Number of SIUs from which penalties have been collected.



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## APPENDIX H-2

## REQUIREMENTS FOR JANUARY-JUNE PRETREATMENT SEMIANNUAL REPORT

The pretreatment semiannual report is due on July 31 for pretreatment program activities conducted from January through June unless an exception has been granted by the Regional Water Board's Executive Officer (e.g., pretreatment programs without any SIUs may qualify for an exception to the pretreatment semiannual report). Pretreatment activities conducted from July through December of each year shall be included in the Pretreatment Annual Report as specified in Appendix H-1. The pretreatment semiannual report shall contain, at a minimum the following information:

### A. Influent, Effluent and Biosolids Monitoring

The influent, effluent and biosolids monitoring results shall be evaluated in preparation of this report. The Discharger shall retain analytical laboratory reports with the QA/QC data validation and make these reports available upon request. The Discharger shall also make available upon request a description of its influent, effluent and biosolids sampling procedures. Violations of any parameter that exceed NPDES limits shall be identified and reported. The contributing source(s) of the parameters that exceed NPDES limits shall be investigated and discussed.

### B. Significant Industrial User Compliance Status

This section shall contain a list of all SIUs that were not in consistent compliance with all pretreatment standards/limits or requirements for the reporting period. For the reported SIUs, the compliance status for the previous semiannual reporting period shall be included. Once the SIU has determined to be out of compliance, the SIU shall be included in subsequent reports until consistent compliance has been achieved. A brief description detailing the actions that the SIU undertook to come back into compliance shall be provided.

For each SIU on the list, the following information shall be provided:

1. Name and facility address of the SIU;

2. Indicate if the SIU is subject to Federal Categorical Standards; if so, specify the category including the subpart that applies;

3. For SIUs subject to Federal Categorical Standards, indicate if the violation is of a categorical or local standard;

4. Indicate the compliance status of the SIU for the two quarters of the reporting period; and

5. For violations/noncompliance identified in the reporting period, provide:

    a. The date(s) of violation(s);

    b. The parameters and corresponding concentrations exceeding the limits and the discharge limits for these parameters; and



ED_002551_00000745-00145

c. A brief summary of the noncompliant event(s) and the steps that are being taken to achieve compliance.

**C. Discharger's Compliance with Pretreatment Program Requirements**

This section shall contain a discussion of the Discharger's compliance status with the Pretreatment Program Requirements as indicated in the latest Pretreatment Compliance Audit (PCA) Report or Pretreatment Compliance Inspection (PCI) Report. It shall contain a summary of the following information:

1. Date of latest PCA or PCI report;
2. Date of the Discharger's response;
3. List of unresolved issues; and
4. Plan(s) and schedule for resolving the remaining issues.



ED_002551_00000745-00146

## APPENDIX H-3

## SIGNATURE REQUIREMENTS FOR PRETREATMENT ANNUAL AND SEMIANNUAL REPORTS

The pretreatment annual and semiannual reports shall be signed by a principal executive officer, ranking elected official, or other duly authorized employee who is responsible for the overall operation of the Discharger [POTW - 40 C.F.R. 403.12(m)]. Signed copies of the reports shall be submitted to the State Water Board and the Regional Water Board through the electronic self-monitoring report (eSMR) module of the California Integrated Water Quality System (CIWQS). Signed copies of the reports shall also be submitted electronically to U.S. EPA at R9Pretreatment@epa.gov or as instructed otherwise.



ED_002551_00000745-00147

## APPENDIX H-4

## REQUIREMENTS FOR INFLUENT, EFFLUENT AND BIOSOLIDS MONITORING

The Discharger shall conduct sampling of its treatment plant's influent, effluent and biosolids at the frequency shown in **the pretreatment requirements table** of the Monitoring and Reporting Program (MRP, Attachment E). When sampling periods coincide, one set of test results, reported separately, may be used for those parameters that are required to be monitored by both the influent and effluent monitoring requirements of the MRP and the Pretreatment Program. The Pretreatment Program monitoring reports as required in Appendices H-1 and H-2 shall be transmitted to the Pretreatment Program Coordinator.

### A. Reduction of Monitoring Frequency

The minimum frequency of Pretreatment Program influent, effluent, and biosolids monitoring shall be dependent on the number of SIUs identified in the Discharger's Pretreatment Program as indicated in Table H-1.

| **Table H-1: Minimum Frequency of Pretreatment Program Monitoring** | |
|---|---|
| Number of SIUs | Minimum Frequency |
| < 5 | Once every five years |
| > 5 and < 50 | Once every year |
| > 50 | Twice per year |

If the Discharger's required monitoring frequency is greater than the minimum specified in Table H-1, the Discharger may request a reduced monitoring frequency for that constituent(s) as part of its application for permit reissuance if it meets the following criteria:

The monitoring data for the constituent(s) consistently show non-detect (ND) levels for the effluent monitoring and very low (i.e., near ND) levels for influent and biosolids monitoring for a minimum of eight previous years' worth of data.

The Discharger's request shall include tabular summaries of the data and a description of the trends in the industrial, commercial, and residential customers in the Discharger's service area that demonstrate control over the sources of the constituent(s). The Regional Water Board may grant a reduced monitoring frequency in the reissued permit after considering the information provided by the Discharger and any other relevant information.

### B. Influent and Effluent Monitoring

The Discharger shall monitor for the parameters using the required sampling and test methods listed in **the pretreatment table** of the MRP. Any test method substitutions must have received prior written Executive Officer approval. Influent and effluent sampling locations shall be the same as those sites specified in the MRP.



ED_002551_00000745-00148

The influent and effluent samples should be taken at staggered times to account for treatment plant detention time. Appropriately staggered sampling is considered consistent with the requirement for collection of effluent samples coincident with influent samples in Section III.A.3.a(2) of Attachment G. All samples must be representative of daily operations. Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 C.F.R. 136 and amendments thereto. For effluent monitoring, the reporting limits for the individual parameters shall be at or below the minimum levels (MLs) as stated in the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (2000) [also known as the State Implementation Policy (SIP)]; any revisions to the MLs shall be adhered to. If a parameter does not have a stated ML, then the Discharger shall conduct the analysis using the lowest commercially available and reasonably achievable detection levels.

The following report elements should be used to submit the influent and effluent monitoring results. A similarly structured format may be used but will be subject to Regional Water Board approval. The monitoring reports shall be submitted with the Pretreatment Annual Report identified in Appendix H-1.

1. Sampling Procedures, Sample Dechlorination, Sample Compositing, and Data Validation (applicable quality assurance/quality control) shall be performed in accordance with the techniques prescribed in 40 C.F.R. 136 and amendments thereto. The Discharger shall make available upon request its sampling procedures including methods of dechlorination, compositing, and data validation.

2. A tabulation of the test results for the detected parameters shall be provided.

3. Discussion of Results – The report shall include a complete discussion of the test results for the detected parameters. If any pollutants are detected in sufficient concentration to upset, interfere or pass through plant operations, the type of pollutant(s) and potential source(s) shall be noted, along with a plan of action to control, eliminate, and/or monitor the pollutant(s). Any apparent generation and/or destruction of pollutants attributable to chlorination/dechlorination sampling and analysis practices shall be noted.

**C. Biosolids Monitoring**

Biosolids should be sampled in a manner that will be representative of the biosolids generated from the influent and effluent monitoring events except as noted in (3. below. The same parameters required for influent and effluent analysis shall be included in the biosolids analysis. The biosolids analyzed shall be a composite sample of the biosolids for final disposal consisting of:

1. Biosolids lagoons – 20 grab samples collected at representative equidistant intervals (grid pattern) and composited as a single grab, or

2. Dried stockpile – 20 grab samples collected at various representative locations and depths and composited as a single grab, or

3. Dewatered biosolids - daily composite of 4 representative grab samples each day for 5 days taken at equal intervals during the daily operating shift taken from a) the dewatering units or b) each truckload, and shall be combined into a single 5- day composite.

The U.S. EPA manual, POTW Sludge Sampling and Analysis Guidance Document, August 1989, containing detailed sampling protocols specific to biosolids is recommended as a guidance for sampling procedures. The U.S. EPA manual Analytical Methods of the National Sewage Sludge Survey, September 1990, containing detailed analytical protocols specific to biosolids, is recommended as a guidance for analytical methods.

In determining if the biosolids are a hazardous waste, the Discharger shall adhere to Article 2, "Criteria for Identifying the Characteristics of Hazardous Waste," and Article 3, "Characteristics of Hazardous Waste," of Title 22, California Code of Regulations, sections 66261.10 to 66261.24 and all amendments thereto.

The following report elements should be used to submit the biosolids monitoring results. A similarly structured form may be used but will be subject to Regional Water Board approval. The results shall be submitted with the Pretreatment Annual Report identified in Appendix H-1.

- Sampling Procedures and Data Validation (applicable quality assurance/quality control) shall be performed in accordance with the techniques prescribed in 40 C.F.R. 136 and amendments thereto. The Discharger shall make available upon request its biosolids sampling procedures and data validation methods.

- Test Results – Tabulate the test results for the detected parameters and include the percent solids.

- Discussion of Results – Include a complete discussion of test results for the detected parameters. If the detected pollutant(s) is reasonably deemed to have an adverse effect on biosolids disposal, a plan of action to control, eliminate, and/or monitor the pollutant(s) and the known or potential source(s) shall be included. Any apparent generation and/or destruction of pollutants attributable to chlorination/dechlorination sampling and analysis practices shall be noted.

The Discharger shall also provide a summary table presenting any influent, effluent or biosolids monitoring data for non-priority pollutants that the Discharger believes may be causing or contributing to interference, pass through or adversely impacting biosolids quality.



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