

## **Late Revisions - Item 25.**

City of Dunsmuir, Wastewater Treatment Plant, Shasta County  
6/7 December 2006, Central Valley Water Board meeting

### **Proposed NPDES Permit**

#### Late Revision 1:

Table 6, Page 9.

Correct the units for copper, dichlorobromomethane, and zinc to read "ug/L".

#### Late Revision 2:

Section C.2.a, Page 22.

Add the following text at the end of the paragraph:

"Results from past chronic toxicity monitoring indicate that both the discharge (without dilution) and the upstream receiving water exhibit chronic toxicity to the three test species: fathead minnow, water flea, and algae. Therefore the Discharger shall submit, **by 1 April 2007**, a workplan, including an acceptable time schedule, to conduct a TRE/TIE."

#### Late Revision 3:

Table E-3, Page E-4.

Add a row listing, "Oil & Grease, mg/L, Grab, Quarterly".

Change the monitoring frequency for Ammonia from "Semiannual" to "Monthly".

#### Late Revision 4:

Table E-6b, Page E-9.

Add a row listing, "Nitrate as N, mg/L, Grab, Monthly".

Add a row listing, "Nitrite as N, mg/L, Grab, Monthly".

#### Late Revision 5:

Table of Contents for Fact Sheet.

Renumber Table of Contents and entire Fact Sheet section with "F-xx", where "xx" is the page number. Replace the section identifier "E" with "F".

#### Late Revision 6:

Tables F-2 and F-3.

Change the Chlorine Maximum Daily value from "0.2" to "0.02".

#### Late Revision 7:

Section III.C.1, Page (E)F-7.

Remove the entire second sentence which begins with "In addition, State...", and add the phrase, ", are listed in the table below." at the end of the paragraph.

#### Late Revision 8:

Section IV, Page (E)F-11.

Add a paragraph/section identifier of "(A)" at the beginning of the paragraph.

Late Revision 9:

Section IV.C.2.a, Page (E)F-13.

Replace the entire section with the following text,

**“BOD<sub>5</sub> and TSS.** Federal Regulations, 40 CFR, Part 133, establish the minimum weekly and monthly average level of effluent quality attainable by secondary treatment for BOD<sub>5</sub> and TSS. BOD<sub>5</sub> is a measure of the amount of oxygen used in the biochemical oxidation of organic matter. The secondary treatment requirements for BOD<sub>5</sub> and TSS are indicators of the effectiveness of the treatment processes. The principal design parameter for wastewater treatment plants is the daily BOD<sub>5</sub> and TSS loading rates and the corresponding removal rate of the system. Achieving the level of secondary treatment requires that the 30-day average BOD<sub>5</sub> and TSS concentrations are not greater than 30 mg/L, and the average weekly concentrations are not greater than 45 mg/L. In addition a daily maximum effluent limitation of 60 mg/L for BOD<sub>5</sub> and TSS is included as a technology-based limit in the Order to ensure that the treatment works are not organically overloaded and operate in accordance with design capabilities. In addition, 40 CFR 133.102, in describing the minimum level of effluent quality attainable by secondary treatment, states that the 30-day average percent removal shall not be less than 85 percent. This Order contains a limitation requiring an average of 85 percent removal of BOD<sub>5</sub> and TSS over each calendar month. See Table F-5 for final technology-based effluent limitations required by this Order.”

Table F-5, Page (E)F-15.

Remove the date range in the title of Table F-5.

Table F-6, Page (E)F-15.

Remove Table F-6, entirely.

Late Revision 10:

Table F-7, Page (E)F-17.

Change the conversion factor for cadmium from “0.983” to “0.972”.

Late Revision 11:

Section IV.D.3.d, Page (E)F-19.

Replace the entire section with the following:

“Reasonable potential (RP) was determined by selecting the maximum effluent concentration (MEC) for each constituent and comparing it to applicable water quality criteria; if a criterion was exceeded, the discharge was determined to have reasonable potential to exceed a water quality objective for that constituent. In accordance with the SIP, non-detect results were counted as one-half the detection level when calculating the mean and standard deviation. Reasonable potential evaluation was based on the methods used in the SIP.

Late Revision 12:

Section IV.D.3.f, Page (E)F-19.

In the first sentence, remove “and the TSD”. In the second sentence, change “IV.C.4” to “IV.D.4.d”.

Late Revision 13:

Section IV.D.3.h, Page (E)F-20.

In the second sentence, eighth line of this paragraph, replace “this” with “the monitoring”.

Late Revision 14:

Section IV.D.3.i, Page (E)F-20.

Replace the entire second paragraph with the following:

“Federal Regulations, 40 CFR, Part 133, establish the minimum weekly and monthly average level of effluent quality attainable by secondary treatment for BOD<sub>5</sub> and TSS. However, treatment to levels better than secondary (advanced secondary) is necessary to minimize degradation and protect the beneficial uses of the receiving stream during the peak recreational periods of the year. In this case, advanced secondary means treatment meeting a more stringent limit on BOD<sub>5</sub> and TSS, which generally necessitates the use of sand filters. The final water quality based effluent limitations for BOD<sub>5</sub> and TSS are based on the technical capability of the advanced secondary level of treatment, and the treatment levels necessary to protect the receiving water beneficial uses. Additionally, due to the high quality of the receiving water, a higher level of treatment is appropriate to limit degradation. BOD<sub>5</sub> is a measure of the amount of oxygen used in the biochemical oxidation of organic matter. The secondary and advanced secondary treatment levels for BOD<sub>5</sub> and TSS are indicators of the effectiveness of the treatment processes. The principal design parameter for wastewater treatment plants is the daily BOD<sub>5</sub> and TSS loading rates and the corresponding removal rate of the system. During the peak recreational periods of the year, the 30-day average BOD<sub>5</sub> and TSS limitations have been revised to 10 mg/L, and the total coliform organisms concentration has been revised to 2.2 MPN/100mL as a weekly median, and 23 MPN/100mL as a daily maximum. In addition to the average weekly and average monthly effluent limitations, a daily maximum effluent limitation for BOD<sub>5</sub> and TSS is included in the Order to ensure that the treatment works are not organically overloaded and operate in accordance with design capabilities. See Tables F-9 and F-10 for final technology-based effluent limitations required by this Order.

Late Revision 15:

Section IV.D.3.i, Page (E)F-22.

Remove the entire first sentence of the fifth paragraph that begins with, “Using a multiplier to project...”.

Late Revision 16:

Section IV.D.3.n, Page (E)F-23.

Remove the entire last sentence of the first paragraph that begins with, “The method of treatment...”.

Change the word “tertiary” to the phrase “advanced secondary” in the two occurrences in the section.

Late Revision 17:

Section VIII.D, Page (E)F-49.

Change the date of the Board meeting to 7 and 8 December 2006.