

APPENDIX A-6.7

Predicting Maximum and Minimum Flows Based on 2010 Flow Projections

Minimum and maximum wastewater flows tributary to JOS WRPs were calculated as follows:

■ **Minimum Flow Tributary to JWPCP**

Drainage Areas 6, 11, 12, and 13 (see Figure 5.2-2) and the Chino Basin waste line are directly tributary to the JWPCP. According to the JOS flow projections, Drainage Areas 6, 11, 12, and 13 are expected to generate 1.0, 338, 1.0, and 1.0 mgd respectively in 2010, and the Chino Basin contract allows 7.6 mgd to be discharged to the JWPCP. Since none of this wastewater flow (except for Chino Basin flow which may be diverted to the LCWRP if necessary) may be diverted to another JOS treatment facility, the minimum flow tributary to the JWPCP is 349 mgd.

■ **Maximum Flow Tributary to the PWRP**

Only Drainage Area 1 (see Figure 4.2-2) is tributary to the PWRP. The projected year 2010 wastewater flow from Drainage Area 1 is 22 mgd, hence the maximum flow tributary to the PWRP is also 22 mgd.

■ **Maximum Flow Tributary to the LBWRP**

Drainage Areas 9 and 10 (see Figure 4.2-2) are tributary to the LBWRP. Projected 2010 wastewater flows for these Drainage Areas are 6 and 21 mgd respectively. If all flow from both areas is routed to the LBWRP, the maximum wastewater flow tributary to this plant is 27 mgd.

■ **Maximum Flow Tributary to the SJCWRP**

Drainage Areas 1, 2, and 3 (see Figure 4.2-2) are tributary to the SJCWRP. The SJCWRP may receive all flow generated in area 1 which cannot be treated at the PWRP and can receive an average flow of up to 32 mgd which is generated in area 3 via the SJCWRP Interceptor. Since the 2010 projected flow for area 2 is 86 mgd and since up to 9 mgd will bypass the PWRP (if the plant is not expanded), the maximum flow tributary to the SJCWRP in 2010 is 127 mgd.

■ **Maximum Flow Tributary to the WNWRP**

Drainage Areas 3 and 5 (see Figure 4.2-2) are tributary to the WNWRP. The 2010 projected wastewater flows for these areas are 42 and 49 mgd respectively. At least 5 mgd from area 3 must be diverted to the SJCWRP to provide the minimum 100 mgd of flow to this plant. The maximum flow tributary to the WNWRP is, therefore, 86 mgd.

■ **Maximum Flow Tributary to the LCWRP**

Drainage Areas 3, 5, 7, and 8 (see Figure 4.2-2) are tributary to the LCWRP. The LCWRP may receive all flow which bypasses the WNWRP via the JO "B" Trunk Sewer and the LCWRP Interceptor, all flow which bypasses the SJCWRP via the JO "H" Trunk Sewer and the LCWRP Interceptor, and all flow generated in areas 7 and 8. Year 2010 projected wastewater flows for areas 7 and 8 are 31 and 22 mgd respectively, and if the WNWRP is not expanded, 71 mgd will bypass this plant. No flow will bypass the SJCWRP. The maximum flow tributary to the LCWRP is, therefore, 124 mgd.