

Wastewater Scenario Input Definition

Scenario		2010 No Action	Previous Modified E3	Draft E3
Definition		No management action. Secondary Treatment at the same level everywhere with TS flows	LOT Everywhere Tier 4 Level	LOT Everywhere
Concentration	Sig Municipal Plants	TN=18 mg/l and TP =3 mg/l BOD=30 mg/l, DO=4.5 mg/l and TSS=15 mg/l	TN=3 mg/l and TP=0.1 mg/l BOD=3 mg/l, DO=6 mg/l and TSS=5 mg/l	TN=3 mg/l and TP=0.1 mg/l BOD=3 mg/l, DO=6 mg/l and TSS=5 mg/l
	Sig Industrial Plants	Highest Loads on record, or TS loads if greater BOD=30 mg/l, DO=4.5 mg/l and TSS=15 mg/l	TS sig industrial loads adjusted by the percentage of equivalent sig municipal average load reduction from TS to E3 level by state BOD=3 mg/l, DO=6 mg/l and TSS=5 mg/l	WIP loads adjusted by the percentage of equivalent sig municipal average load reduction from WIP to E3 level by state. BOD=3 mg/l, DO=6 mg/l and TSS=5 mg/l
	Non-sig Municipal Plants	TN=18 mg/l and TP =3 mg/l BOD=30 mg/l, DO=4.5 mg/l and TSS=15 mg/l	TN=8 and TP=2 or TS values if less BOD =5 mg/l, DO=5 mg/l and TSS= 8 mg/l	TN=8 and TP=2 or the same level as sig plants if ENR is required BOD =5 mg/l, DO=5 mg/l and TSS= 8 mg/l
	Non-sig Industrial Plants	Tetra Tech estimated non-sig industrial data. BOD=30 mg/l, DO=4.5 mg/l and TSS=25 or 45 mg/l	Tetra Tech estimated non-sig industrial data adusted by the percentage of equivalent reduction from No-Action (18 mg/l TN, 3mg/l TP) to E3 (3 mg/l TN, 0.1 mg/l TP) BOD =5 mg/l, DO=5 mg/l and TSS= 8 mg/l	State estimated non-sig industrial data adusted by the percentage of equivalent reduction from No-Action (18 mg/l TN, 3mg/l TP) to E3 (3 mg/l TN, 0.1 mg/l TP) BOD =5 mg/l, DO=5 mg/l and TSS= 8 mg/l
	Flow	TS flows for sig plants 2006 data or newly submitted non-sig data for non-sig plants	TS flows for sig plants 2006 data or newly submitted non-sig data for non-sig plants	WIP flows for sig plants 2006 data or newly submitted non-sig data for non-sig plants
CSO		2003 Estimates	100% CSO overflow reduction	100% CSO overflow reduction
Septic Systems		No any septic BMP	10% of septic systems connected to WWTP Remaining septic system applied 55% TN reduction for denitrification and pumping BMP	10% of septic systems connected to WWTP Remaining septic system applied 69% TN reduction for the most efficient combined ex situ and in situ BMPs.

Note: The proposed changes are highlighted in **red**. The previous version definitions was modified in June 2010. Both TS (tributary strategy) and WIP used design flow for significant plants. 100% CSO overflow reduction is assumed through 100% storage and treatment.