

Wastewater Scenario Input Definition – Phase 7 Draft

Category	Phase 6 E3	Draft Phase 7 E3	Justification
Definition	LOT Everywhere	LOT Everywhere	
Concentration Sig Municipal Plants	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	No change in reliable, widely achievable performance for major facilities.
Concentration Sig Industrial Plants	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	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	
Concentration Non-sig Municipal Plants	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	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	No change in reliable, widely achievable performance for minor facilities. Minor facilities more prone to upset related to weather or variation in influent flow.
Concentration Non-sig Industrial Plants	State estimated non-sig industrial data adjusted 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 adjusted 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	WIP 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	100% CSO overflow reduction	100% CSO overflow reduction	No need to modify (already 100%)
Septic Systems	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	10% of septic systems connected to WWTP; Remaining septic system applied 75% TN reduction for the most efficient combined ex situ and in situ BMPs	75% reduction reflected in 2018 OWTS report which considered additional BMPs.
Exfiltration	NA	Not recommending to include for Phase 7	New load source for Phase 7 model. Spotty data available on collection system rehab. Unclear at this time what widely achievable reduction would represent.

The proposed changes are highlighted in red.

Key E3 Questions: Are these still the recommendations of the group for E3? What additional language can we develop for our justification?

Scenario Baseline year: Feedback on whether we should remain with 2010 or update to 2022 is mixed. What is everyone thinking now? What further information do you need to help inform your decision? We will need to make a decision at our July meeting so that we can present our recommendations at the August CWGT meeting, August 24.