

W01 - WASTEWATER PROCESSING, ENCINA WWTP, HEADWORKS WITH CONTROLS

CALCULATION METHODS

$E_a = U_a \text{ (million gal/year)} \times EF \text{ (lbs/million gal thru put)}$

$E_h = U_h \text{ (million gal/hour)} \times EF \text{ (lbs/million gal thru put)}$

NOTES:

- Emission factors are based on site specific source test data obtained on 1993

- Data from the old source test conducted on 1991 is not used since the facility has been modified significantly after this test. However, the 1993 source test did not sample for methane. Therefore, the old test data was used to determine a methane emission factor.

- Emission factors are determined after controls.

Pollutant	District Emission Factor (lbs/ million gallons)	Reference Document	EPA Factor	Units	Comments
TOG	0.21			lbs/million gal	Sum of all organic emissions below.
VOC	0.18			lbs/million gal	VOC=TOG-exempt compounds.
Ammonia	0.00486			lbs/million gal	Determined by using NH ₄ OH emission factor and fraction of NH ₃ in NH ₄ OH.
Benzene	0.000916			lbs/million gal	
Carbon Disulfide	0.00631			lbs/million gal	
Chloroform	0.00773			lbs/million gal	
Chlorofluoro-carbons	0.000879			lbs/million gal	
P-Dichloro-benzene	0.00397			lbs/million gal	
1,4-Dioxane	0.0169			lbs/million gal	
Ethylene Dichloride	0.0296			lbs/million gal	
Hydrogen Sulfide	0.00485			lbs/million gal	
Methane	0.0738			lbs/million gal	Using 1991 test data (uncontrolled emission) and assume a control efficiency of 80%.
Methylene Chloride	0.0172			lbs/million gal	
Perchloro-Ethylene	0.0076			lbs/million gal	
Toluene	0.0020			lbs/million gal	
1,1,1,-Tri-Chloroethane	0.003			lbs/million gal	
Trichloro-Ethane	0.0179			lbs/million gal	
Xylenes	0.0004			lbs/million gal	