

W04- POINT LOMA SEDIMENTATION BASINS - AFTER CONTROLS

CALCULATION METHODS

$E_a = U_a$ (million gal/year) x EF (lbs/million gal thru put)

$E_h = U_h$ (million gal/hour)x EF (lbs/million gal thru put)

NOTES:

- Emission factors are based on site specific source test data obtained on 1996.

- Data from the old source test conducted for the Toxics Emissions Inventory 1989 is not used since the facility has been modified significantly after this test. However, the 1996 source test did not sample for hydrogen sulfide, methanol and perchloroethylene. Therefore, for these three compounds, the old test data was used to determine emission factors.

- Emission factors are after controls.

Pollutant	Emission Factor (lbs/million gallons)	Reference Document	ARB Factor	Units	Comments
TOG	0.0553			lbs/million gal	Sum of all organic emissions below.
VOC	0.011			lbs/million gal	VOC= TOG - exempt compounds below.
Acetone	0.0004			lbs/million gal	
Ammonia	0.00099			lbs/million gal	Determined by using NH ₄ OH emission factor and fraction of NH ₃ in NH ₄ OH.
Benzene	0.000005			lbs/million gal	
Benzyl Chloride	0.000107			lbs/million gal	
Bromodichloro-methane	0.0000333			lbs/million gal	No health data. Not presented in emission printouts. Accounted for in TOG/ROG.
Bromoform	0.0000233			lbs/million gal	No health data. Not presented in emission printouts. Accounted for in VOC/TOG.
Carbon Disulfide	0.0000475			lbs/million gal	
Carbon Tetrachloride	0.0000113			lbs/million gal	
Chlorobenzene	0.00000958			lbs/million gal	
Chloroform	0.000534			lbs/million gal	
Chlorofluorocarbons	0.000145			lbs/million gal	
P-Dichlorobenzene	0.0000138			lbs/million gal	
Dimethyl Sulfide	0.0000229			lbs/million gal	
Ethyl Benzene	0.0000125			lbs/million gal	
4-Ethyl Toluene	0.0000338			lbs/million gal	No health data. Not presented in emission print outs. Accounted for in VOC/TOG.
Formaldehyde	0.0000108			lbs/million gal	
2-Hexanone	0.00000792			lbs/million gal	No health data. Not presented in emission print outs. Accounted for in VOC/TOG.
Hydrogen Sulfide	0.000127			lbs/million gal	Using old test data (uncontrolled emission) and assume a control efficiency of 99%.
Methane	0.0431			lbs/million gal	No health data. Not presented in emission print outs. Accounted for in VOC/TOG.
Methanol	0.00000121			lbs/million gal	Using old test data (uncontrolled emission) and assume a control efficiency of 80%.

Methylene Chloride	0.000386			lbs/million gal	
Methyl Ethyl Ketone	0.0000129			lbs/million gal	
Perchloroethylene	0.000138			lbs/million gal	Using old test data (uncontrolled emission) and assume a control efficiency of 80%.
Styrene	0.0000075			lbs/million gal	
Toluene	0.0000321			lbs/million gal	
1,1,1 - Trichloro-Ethane	0.000104			lbs/million gal	
Trichloroethylene	0.0000104			lbs/million gal	
Trimethylbenzenes	0.0000617			lbs/million gal	No health data. Not presented in emission print outs. Accounted for in TOG/VOC.
Vinyl Chloride	0.000005			lbs/million gal	
Xylenes	0.0000463			lbs/million gal	

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By Mai Abuelazaim