V06 - SOIL VAPOR EXTRACTION PROCESSES, METHYLENE CHLORIDE MITIGATION, OUTLET QUANTIFIED AS METHYLENE CHLORIDE AFTER CONTROLS

CALCULATION METHODS

Ea = Ua x PPMVa x MW x Ci x k

Eh = Uh x PPMVm x MW x Ci x k

NOTES:

- A calculation procedure Molecular Weight = 85 lbs/lb mole (Methylene Chloride) is used in the for quantifying total organic outlet emissions.

- Must match calculation procedure reference compound to outlet concentration reference compound to correctly estimate emissions.

- Material composition is used as outlet speciation profile. Adjust the weight % of each compound for changes due to the control device if necessary.

- Use site specific outlet speciation information where available. Outlet ppmv measurements must reference the same compound (molecular weight) as the calculation method selected.

- Annual and maximum hourly outlet concentrations may decrease over time with mitigation of the contaminant source.

- The following emission factors are for the Ci portion of the above equation where Ci speciates the exhaust concentration by weight percent.

POLLUTANT	District Emission Factor	REFERENCE	AP-42	(UNITS)	COMMENTS
	(weight percent)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG	100.00%	District Engineering Estimates			Assumes all Methylene Chloride and no ROG as default contamination profile.
ROG	0.00%	District Engineering Estimates			
TSP					
PM10					
BENZENE					
CHLORINE					
ETHYL BENZENE					
ETHYLENE DIBROMIDE					
ETHYLENE DICHLORIDE					
FORMALDEHYDE					
HYDROGEN CHLORIDE					
METHYLENE CHLORIDE	100.00%				Assumes only Methylene Chloride as contaminant.
VINYL CHLORIDE					
VINYLIDENE CHLORIDE					

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