

**V09 - SOIL VAPOR EXTRACTION PROCESSES, MISCELLANEOUS CONTAMINATION, OUTLET QUANTIFIED AS METHANE AFTER CONTROLS**

**CALCULATION METHODS**

$E_a = U_a \times \text{PPMV}_a \times \text{MW} \times C_i \times k$

$E_h = U_h \times \text{PPMV}_m \times \text{MW} \times C_i \times k$

**NOTES:**

- A calculation procedure Molecular Weight = 16 lbs/lb mole (Methane) 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.
- No default weight percents can be identified for unspecified contamination. All toxics to be quantified must be specifically entered on each form.

<b>POLLUTANT</b>	<b>District Emission Factor</b>	<b>REFERENCE</b>	<b>AP-42</b>	<b>(UNITS)</b>	<b>COMMENTS</b>
	<b>(weight percent)</b>	<b>DOCUMENT</b>	<b>FACTOR</b>		
NOX					
CO					
SOX					
TOG	100.00%	District Engineering Estimates			Assume all outlet ROG = TOG for unspecified contamination.
ROG	100.00%	District Engineering Estimates			
TSP					
PM10					
ALUMINUM					
ARSENIC					
BENZENE					
BERYLLIUM					
CADMIUM					
CHLORINE					
CHROMIUM HEXAVALENT					
CHROMIUM NONHEXAVALENT					
COPPER					
ETHYL BENZENE					
FORMALDEHYDE					
HEXANE					
HYDROGEN CHLORIDE					
HYDROGEN SULFIDE					
LEAD					
MANGANESE					
METHYL TERT BUTYL ETHER					
NAPHTHALENE					
NICKEL					
PAH'S (UNSPECIFIED)					
- BENZO(A)ANTHRACENE					

- BENZO(B)FLUORANTHENE					
- INDENO(1,2,3-CD)PYRENE					
- DIBENZ(A,H)ANTHRACENE					
SELENIUM					
SILICA, CRYSTALLINE					
TOLUENE					
2,2,4-TRIMETHYLPENTANE					
VINYL CHLORIDE					
VINYLDENE CHLORIDE					
XYLENES					
ZINC					

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