

**Uncertainty Analysis for EEM 2: Thermal Desorption
Emission Rate for Benzene from Gasoline-Contaminated Soil**

Variable parameters are in bold:

Assumptions:	C=	10.00 ppm	soil concentration of benzene
	F=	27200 kg/hr	mass rate of soil treated
	V=	99.50 %	percentage of benzene volatilized
	CE=	99.50 %	percent efficiency of control devices

Equations used:

$$ER \text{ (g/hr)} = (C/1000)(F)(V/100)(1-(CE/100))$$

Point Estimate Using the Above Parameters/Equation:

$$\mathbf{ER = 1.353 \text{ g/sec}} \quad \text{total emission rate}$$