$$GHG_i = \sum_{j=1}^{n} \left[N_j \times EF_j \times t_j \right] \times MF_i \times \rho_i \times 0.001$$

Where:

 GHG_i = Annual emissions of greenhouse gas *i*, for each source of fugitive emissions, in metric tons;

n = Total number of types of components, by fugitive emission source;

j = Type of component;

 N_i = Total number of components of type *j*;

 $EF_j = Emission$ factor for leaks from each type of component *j*, determined in accordance with paragraph 1 of QC.33.4.16, in cubic metres per hour at standard conditions;

 t_i = Duration of leakage from component *j*, determined in accordance with paragraph 2 of QC.33.4.16, in hours;

 $MF_i = Molar$ fraction of greenhouse gas *i* in the gas from reciprocating compressor venting, determined in accordance with paragraph 3 of QC.33.4;

 ρ_i = Density of greenhouse gas *i* that is 1.830 kg per cubic metre for CO₂ and 0.668 kg per cubic metre for CH₄ at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;

 $i = CO_2 \text{ or } CH_4.$