

$$GHG_i = \sum_j (GLR \times F_L \times MF_i \times t)_j \times \rho_i \times 0.001$$

Where:

$GHG_i$  = Annual emissions of greenhouse gas  $i$  vented during well testing, in metric tons;

$j$  = Well tested;

$GLR$  = Gas to liquid ratio for well  $j$ , determined in accordance with paragraph 1 of QC.33.4.11, in cubic metres of natural gas per cubic metre of liquid at standard conditions;

$F_L$  = Liquid flow rate in well  $j$ , in cubic metres per hour;

$MF_i$  = Molar fraction of greenhouse gas  $i$  in gas in well  $j$ , determined in accordance with paragraph 3 of QC.33.4;

$t$  = Duration of testing of well  $j$ , in hours;

$\rho_i$  = Density of greenhouse gas  $i$  that is 1.893 kg per cubic metre for  $CO_2$  and 0.690 kg per cubic metre for  $CH_4$  at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;

$i$  =  $CO_2$  or  $CH_4$ ;