

Environmental Protection Agency

§ 98.466

if applicable, moisture content monitors must be calibrated using the procedures and frequencies specified by the manufacturer.

(g) For landfills electing to measure the fraction by volume of CH₄ in landfill gas (F), follow the requirements in paragraphs (g)(1) and (g)(2) of this section.

(1) Use a gas composition monitor capable of measuring the concentration of CH₄ on a dry basis that is properly operated, calibrated, and maintained according to the requirements specified at §98.344(b). You must either use a gas composition monitor that is also capable of measuring the O₂ concentration

correcting for excess (infiltration) air or you must operate, maintain, and calibrate a second monitor capable of measuring the O₂ concentration on a dry basis according to the manufacturer's specifications.

(2) Use Equation TT-9 of this section to correct the measured CH₄ concentration to 0% oxygen. If multiple CH₄ concentration measurements are made during the reporting year, determine F separately for each measurement made during the reporting year, and use the results to determine the arithmetic average value of F for use in Equation TT-1 of this part.

$$F = \left(\frac{C_{CH_4}}{100\%} \right) \times \left[\frac{20.9_c}{(20.9 - \%O_2)} \right] \quad (\text{Eq. TT-9})$$

Where:

F = Fraction by volume of CH₄ in landfill gas (fraction, dry basis, corrected to 0% oxygen).

C_{CH₄} = Measured CH₄ concentration in landfill gas (volume %, dry basis).

20.9_c = Defined O₂ correction basis, (volume %, dry basis).

20.9 = O₂ concentration in air (volume %, dry basis).

%O₂ = Measured O₂ concentration in landfill gas (volume %, dry basis).

(h) The facility shall document the procedures used to ensure the accuracy of the estimates of disposal quantities and, if the industrial waste landfill has a gas collection system, gas flow rate, gas composition, temperature, pressure, and moisture content measurements. These procedures include, but are not limited to, calibration of weighing equipment, fuel flow meters, and other measurement devices. The estimated accuracy of measurements made with these devices shall also be recorded, and the technical basis for these estimates shall be provided.

[75 FR 39773, July 12, 2010, as amended at 76 FR 73908, Nov. 29, 2011; 77 FR 51495, Aug. 24, 2012]

§ 98.465 Procedures for estimating missing data.

(a) A complete record of all measured parameters used in the GHG emissions

calculations is required. Therefore, whenever a quality-assured value of a required parameter is unavailable (*e.g.*, if a meter malfunctions during unit operation or if a required fuel sample is not taken), a substitute data value for the missing parameter shall be used in the calculations, in accordance with paragraph (b) of this section.

(b) For industrial waste landfills with gas collection systems, follow the procedures for estimating missing data specified in §98.345(a) and (b).

§ 98.466 Data reporting requirements.

In addition to the information required by §98.3(c), each annual report must contain the following information for each landfill.

(a) Report the following general landfill information:

(1) A classification of the landfill as "open" (actively received waste in the reporting year) or "closed" (no longer receiving waste).

(2) The year in which the landfill first started accepting waste for disposal.

(3) The last year the landfill accepted waste (for open landfills, enter the estimated year of landfill closure).

(4) The capacity (in metric tons) of the landfill.