

Quantification Protocol for Aerobic Landfill Bioreactor Projects: Summary of Comments & Revisions*January 24th, 2008: Stakeholder Review*

Page Number	Comment	Resolution
4	Under protocol applicability it says that fugitive emissions are measured 4 times per year using a flux chamber. The protocol should specify when measurements must be made so they occur throughout the year and not only at the ideal time for maximizing offset claims. The methodology for the flux chamber should be specified as a definition of the acceptable standard.	Added to the protocol that quarterly measurements must be approximately 3 months apart to capture seasonal changes. Added a comment that the methodology used for flux chamber measurements must ensure accuracy and be robust enough to provide uncertainty ranges in the measurements
4	Following the above comment, are there other methodologies than flux chambers that may be used to measure fugitive emissions?	Waiting for further guidance to be provided on what is required in a methodology (but not explicit technology).
4	Comment that a site standard mechanism should be added under flexibility mechanisms.	The following was added as a flexibility mechanism: "Site specific emission factors may be substituted for the generic emission factors indicated in this protocol document. The methodology for generation of these emission factors must ensure accuracy; and be robust enough to provide uncertainty ranges in the factors".
5	What is the timeframe for the project?	To clarify the timeframe in the protocol the following was added to the Project Period definition: "The crediting cycle is eight years with possible renewable for five years".

N/A	Is the same methodology going to be used as for the LFG protocol?	In the quantification protocol for LFG the denominator is potential methane production in the landfill. In a bioreactor, the potential is smaller.
9	This model does not take into consideration that gas is being collected.	The model does consider that gas is being collected under the Methane Generation Potential SSR, labeled P18. Methane generation potential at T_0 is the amount of methane that can be produced theoretically over 100 years. No change to the protocol was made.
N/A	What is the target of this protocol? How can the protocol be applied to older landfills that would not have some of the environmental controls that newer ones do.	The protocol is intended for new and historic sites. It is unlikely that it will be used on large landfills as a way of calculating offsets, but it is a way of calculating benefits. No change to the protocol was made.
21	If you look at a landfill over its entire lifetime, under the baseline condition it likely wouldn't be possible to get the same amount of mass into the landfill as the bioreactor. The advantage of the bioreactor landfill is a reduction in volume (thus freeing space). If you are able to process more in a landfill bioreactor, perhaps the baseline needs adjusting to say $1 + x$ times the mass.	This protocol is based on the mass received at the landfill and not the theoretical maximum of the landfill. It is conservative not to include the additional mass processed in the bioreactor. So no change to the protocol.