



## Landfill Project Protocol Version 3.0 ERRATA AND CLARIFICATIONS

The Climate Action Reserve (“Reserve”) published its Landfill Project Reporting Protocol, Version 3.0 (“LPP V3.0”) in December 2009. While the Reserve intends for the LPP V3.0 to be a complete, transparent document, it recognizes that correction of errors and clarifications will be necessary as the protocol is implemented and issues are identified. This document is an official record of all errata and clarifications applicable to the LPP V3.0.<sup>1</sup>

Per the Reserve’s Program Manual, both errata and clarifications are considered effective on the date they are first posted on the Reserve website. The effective date of each erratum or clarification is clearly designated below. All listed and registered LPP projects must incorporate and adhere to these errata and clarifications when they undergo verification. The Reserve will incorporate both errata and clarifications into future versions of the LPP.

All project developers and verification bodies must refer to this document to ensure that the most current guidance is adhered to in project design and verification. Verification bodies shall refer to this document immediately prior to uploading any Verification Opinion to assure all issues are properly addressed and incorporated into verification activities.

If you have any questions about the updates or clarifications in this document, please contact Policy at: [policy@climateactionreserve.org](mailto:policy@climateactionreserve.org) or (213) 891-1444 x4.

---

<sup>1</sup> See Section 4.3.4 of the Climate Action Reserve Program Manual (March 2010) for an explanation of the Reserve’s policies on protocol errata and clarifications. “Errata” are issued to correct typographical errors. “Clarifications” are issued to ensure consistent interpretation and application of the protocol. For document management and program implementation purposes, both errata and clarifications to the LPP are contained in this single document.

## Errata and Clarifications (arranged by protocol section)

Errata.....	3
1. Pilot or Temporary Flares.....	3
2. Equation 5.12.....	3
Clarifications .....	4
1. Pilot or Temporary Flares.....	4
2. Attestations.....	4
3. Determining LFG <sub>pp2</sub> .....	5

## Errata

### 1. Pilot or Temporary Flares

**Effective Date:** June 25, 2010

**Section:** 3.4.1 (The Performance Standard Test)

**Context:** On page 8 of LPP V3.0, the protocol states that “[d]estruction devices that were installed temporarily and utilized only for pilot or testing purposes shall not be considered in determining project eligibility.” By being excluded from eligibility determinations, these devices also are not considered in quantifying emission reductions.

**Correction:** The protocol shall be corrected to read “[d]estruction devices that were installed temporarily and utilized only for pilot or testing purposes shall not be considered in determining project eligibility or quantification.”

### 2. Equation 5.12

**Effective Date:** June 25, 2010

**Section:** 5.2 (Quantifying Project Emissions)

**Context:** On page 27 of LPP V3.0, Equation 5.12 is used to calculate the project emissions associated with the use of supplemental fuels. This includes both the emissions of carbon dioxide of oxidized fuel, as well as the emissions of un-combusted fuel. This equation omits the conversion factors from scf to lbs of methane, and from lbs to tonnes when calculating the quantity of carbon dioxide emissions. As written, Equation 5.12 reads as follows:

$$FF_{CH_4} = \sum_i \left[ FF_i \times \left[ \left( -DE_i \right) \times 0.0423 \times 0.000454 \times 21 \right] + \left( DE_i \times \frac{12}{16} \times \frac{44}{12} \right) \right] \times FFG_{CH_4}$$

**Correction:** Equation 5.12 shall be corrected to read as follows:

$$FF_{CH_4} = \sum_i \left[ FF_i \times FFG_{CH_4} \times 0.0423 \times 0.000454 \times \left[ \left( -DE_i \right) \times 21 \right] + \left( DE_i \times \frac{12}{16} \times \frac{44}{12} \right) \right]$$

## Clarifications

### 1. Pilot or Temporary Flares

**Effective Date:** June 25, 2010

**Section:** 3.4.1 (The Performance Standard Test)

**Context:** On page 8 of LPP V3.0, the protocol states that “[d]estruction devices that were installed temporarily and utilized only for pilot or testing purposes shall not be considered in determining project eligibility.” This provision was added to the protocol to accommodate circumstances where collection and/or destruction were used for a limited duration to explore the feasibility of a landfill gas project. In these instances, there may be equipment installed in a pilot phase to test gas flow and/or quality, and this occurs prior to the project start date. Previous versions of the protocol required that this destruction be deducted as it occurred prior to the project start date, despite the fact that this destruction results as a direct consequence of the landfill project. It has come to the Reserve’s attention that there is confusion as to the rationale behind this added provision in Version 3.0 of the protocol, and confusion about what is meant by “installed temporarily and utilized only for pilot or testing purposes.”

**Clarification:** A pre-project deduction is not necessary when a destruction device was explicitly installed as a direct precursor to the project activity as an information gathering exercise and was installed temporarily, and must be verifiable through appropriate supporting documentation.

### 2. Attestations

**Effective Date:** June 25, 2010

**Section:** 3.4.2 (The Legal Requirement Test); 3.5 (Regulatory Compliance)

**Context:** The LPP V3.0 makes reference to the Regulatory Attestation form. As written, the Regulatory Attestation is used to meet both the Legal Requirement Test and the Regulatory Compliance requirement. However, the Reserve no longer uses the Regulatory Attestation form and instead has developed two separate forms – the Attestation of Voluntary Implementation and the Attestation of Regulatory Compliance – for this purpose. These forms are described in the Reserve Program Manual.

**Clarification:** The Legal Requirement Test and Regulatory Compliance require execution of the Attestation of Voluntary Implementation and the Attestation of Regulatory Compliance, respectively.

### 3. Determining $LFG_{pp2}$

**Effective Date:** June 25, 2010

**Section:** 5.1 (Quantifying Baseline Emissions)

**Context:** Equation 5.7 on page 23 of LPP V3.0 is used to calculate the pre-project adjustment associated with non-qualifying devices in the project baseline. If monitoring data is not available to estimate the term  $LFG_{pp2}$ , the maximum capacity of the pre-project device may be used, per Table 6.1. However, the protocol does not provide explicit guidance in this scenario on the appropriate  $PP_{CH_4}$  value to be applied.

**Clarification:** If the term  $LFG_{pp2}$  in Equation 5.7 is equal to the maximum capacity of the pre-project non-qualifying device(s) because monitoring data is not available, the term  $PP_{CH_4}$  shall be equal to the average monitored methane concentration over the reporting period.