

**Landfill Protocol**

**Project Data Report**

The Project Data Report (PDR) Template must be completed for each verification period. This template is only intended as a guide and provides the minimum required information to be reported. This template is designed for use for landfill projects implemented in Latin America and the Caribbean (LAC) and the United States. The project developer has the option to include additional information at their discretion.

*Please note that this document will be made publicly available once the project has registered credits the verification cycle. If there is proprietary information, please provide a redacted version for publication and a non-redacted version for internal review. Please contact the Reserve to discuss what information may be allowed to be redacted.*

|  |  |
| --- | --- |
| **Account Holder** |  |
| **Project ID and Name** |  |
| **Cooperative/Aggregate ID (if applicable)** |  |
| **Current Reporting Period Dates** |  |
| **Protocol Name and Version** | Mexico Landfill V  U.S. Landfill V  Argentina Landfill V |
| **Claimed CRTs by Vintage** |  |
| **Date Submitted** |  |

# Introduction

*Provide a general description of the project, including location, baseline scenario, project activity, etc.*

# Project Definition

## Project Definition

*Provide information on whether the project is an expansion of an existing landfill project or is being submitted as a new project, the type of destruction device (e.g. utility flares, enclosed flares, engines, turbines, microturbines, boilers, pipelines, leachate evaporators, kilns, sludge dryers, burners, furnaces, or fuel cells), default or site-specific destruction efficiency values, and whether landfill gas is destroyed onsite or transported for offsite use. Supporting documentation must be provided to the verifier during each verification cycle, which may include project diagrams, LFG flow data, methane flow data, facility records, etc.*

## Project Developer

*List the entities which have any amount of legal control over the project boundary and identify the mechanism through which the Account Holder has legal authority to implement the project. In addition, please state which entity will be designated as the project developer and will sign the Attestation of Title. If the Account Holder is not the entity listed on the facility’s operating permit, explain how they obtain the right to operate the project on the facility’s behalf.*

# Project Eligibility

## Project Location

*Provide the project location.*

## Project Start Date

*Briefly describe the documentation used to demonstrate the date at which the landfill gas collection system became operational, i.e., the date landfill gas was first destroyed in a project destruction device. Provide a description of the start-up testing period (destruction device, timeline, etc.), if applicable. Include what documentation will be provided to the verification body to demonstrate the commencement of methane destruction.*

## Project Crediting Period

*State the project’s crediting period as defined in Section 3.2 of the Protocol.*

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## Additionality

### Performance Standard Test

*Check the box below and provide a brief description of how the landfill gas destruction project meets the performance standard test as outlined in Section 3.4.1 of the protocol.*

Installation of a landfill gas collection and a new qualifying destruction device at an eligible landfill where landfill gas has never been collected and destroyed prior to the start date.

Installation of a new qualifying destruction device at an eligible landfill where landfill gas is currently collected and vented but has never been destroyed in any manner prior to the start date.

Installation of a new qualifying destruction device at an eligible landfill where landfill gas was collected and destroyed at any time prior to the project start date using:

A non-qualifying destruction device (e.g., passive flare)

A destruction device that is not otherwise eligible under the protocol

Installation of a new gas collection system on a physically-distinct cell (or cells) where neither gas collection nor destruction has previously occurred.

Description:

### Limits on Credit Stacking

*Disclose if the project participates in carbon or other types of mitigation project types outside of the Reserve. If so, include a brief description of the project activity, the Registry in which the project is listed, and how the two projects do not result in double counting. Confirm that the Reserve and the other registry are aware of and provided approval for credit stacking. If no project stacking / credit stacking is occurring, state, “Not applicable.”*

### Legal Requirement Test

*Attest that the project activities are not legally required. Identify any federal, provincial, or local regulations or legally binding mandates that are relevant to the project. State whether the project is subject to the Mexican Official Standard NOM-083 and if the adjustment is applied.*

## Social and Environmental Safeguards

### Social Safeguards – U.S. and Mexico

*Confirm below that the project is in material compliance with all labor and safety laws for the verification period.*

### Free, Prior, and Informed Consent (FPIC) – Argentina Only

*Briefly describe the information presented and how it was presented (e.g., power point presentation, report(s) to the landfill operator prior to project approval. Information should include, at a minimum, concepts of climate change and carbon markets, requirements associated with the project (including monitoring, reporting, and verification), the estimated costs and benefits associated with the project, division of costs and distribution of benefits, and the carbon pricing estimates. Provide the name of the individual(s) and their roles that participated in the process. The documentation presented to the landfill operator when receiving approval for listing must be provided to the Reserve and the verifier during the verification of the reporting period.*

### Ongoing Notification, Participation, and Documentation – Argentina Only

*Briefly describe how the ongoing notification, participation, and documentation requirements will be met. Project developers must review ongoing project activities, credits issued, and financial information (purchase agreements, project finances, and ongoing benefit sharing) on an annual basis. Please include dates or potential dates of when the information will be reviewed with the farm operator, as well as the format (e.g., presentation or report), language, and signature of the landfill operator.*

### Environmental Safeguards

*Confirm below that the project was in material compliance with all environmental regulations during the reporting period, and how the project is designed and implemented in such a way to mitigate potential releases of pollutants that may cause degradation of the quality of soil, air, and surface and groundwater. Provide a brief description of any environmental benefits or harms that have resulted from the project.*

## Regulatory Compliance

*Provide the national, provincial, and/or local regulatory agencies with jurisdiction over the project boundary. Disclose any instances of non-compliance during the reporting period. Describe how the project will monitor for compliance during future reporting periods.*

# GHG Assessment Boundary

## GHG Assessment Boundary

*The table below includes only the SSRs that are included in the project quantification. For all SSRs considered in the GHG Assessment Boundary (included and excluded GHGs and their justification) refer to Table 4.1 in the Protocol.*

|  |  |  |  |
| --- | --- | --- | --- |
| **SSR** | **Source Description** | **Gas** | **Baseline (B) or Project (P)** |
| 4 | Emissions from  Waste Breakdown in  Landfill | CH4 | B, P |
| 5 | Emissions from Gas  Collection System | CO2 | P |
| 6 | Emissions from  Supplemental Fuel | CO2, CH4 | P |
| 7 | Emissions from Project LFG Boiler Destruction | CH4 | P |
| Emissions from Baseline LFG Boiler Destruction | CH4 | B |
| 8 | Emissions from  Project LFG  Electricity Generation | CH4 | P |
| Emissions from  Baseline LFG  Electricity Generation | CH4 | B |
| 9 | Emissions from  Project LFG Flare  Destruction | CH4 | P |
| Emissions from  Baseline LFG Flare  Destruction | CH4 | B |
| 10 | Emissions from  Upgrade of LFG | CO2 | B,P |
| 11 | Emissions from Project LFG Pipeline or other NG end-use | CH4 | P |
| Emissions from  Baseline LFG  Pipeline or other NG  end-use | CH4 | B |

# Quantifying GHG Emission Reductions

## Quantifying Baseline Emissions

### Summary of Baseline Quantification

*Provide the total methane destroyed by the GCCS, factor for the oxidation of methane by soil bacteria, discount factor to account for modeling uncertainties (if applicable), NOM-083 discount (Mexico only), and adjustment factor to account for baseline LFG destruction device in the verification period, as calculated in the Protocol.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| Total methane destroyed:       tCH4 | Total methane destroyed:       tCH4 |
| Oxidation factor by soil bacteria: | Oxidation factor by soil bacteria: |
| Monitoring uncertainties discount factor: | Monitoring uncertainties discount factor: |
| Adjustment factor for baseline LFG destruction device: | Adjustment factor for baseline LFG destruction device: |
| NOM discount factor: | NOM discount factor: |
| Baseline Emissions:       tCO2e | Baseline Emissions:       tCO2e |

## Quantifying Project Emissions

### Site-Specific Destruction Efficiency

*Provide the name of the agency accredited service provider utilized to conduct the site-specific destruction efficiency testing, as well as the date the test was conducted and the destruction efficiency used for quantification.*

### Summary of Project Emissions

*Provide the total carbon dioxide emissions from the destruction of fossil fuel, total carbon dioxide emissions from the consumption of electricity from the grid, and the total quantity of emissions from supplemental natural gas in the verification period, as calculated in the Protocol.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| Emissions from fossil fuel use:       tCO2 | Emissions from fossil fuel use:       tCO2 |
| Emissions from electricity use:       tCO2 | Emissions from electricity use:       tCO2 |
| Emissions from supplemental natural gas:       tCO2 | Emissions from supplemental natural gas:       tCO2 |
| Project Emissions:       tCO2e | Project Emissions:       tCO2e |

## 

## Final CRT Summary

*Summarize the final result for determining the net GHG Reductions by vintage.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| Baseline Emissions:       tCO2e | Baseline Emissions:       tCO2e |
| Project Emissions:       tCO2e | Project Emissions:       tCO2e |
| Total GHG Emission Reductions:       tCO2e | Total GHG Emission Reductions:       tCO2e |

# *The Climate Action Reserve’s Landfill Protocol addresses and quantifies GHG emission reductions associated with the installation of a landfill gas (CH₄ and CO₂) collection and destruction system. The Project Developer must disclose whether the project is also registering carbon credits in the current Reporting Period derived from biogas production under another standard or program.*

# Is the project applying for carbon credits under any other standard, registry, or certification program (national or international)? Yes No

# If yes, please specify the name of the program, the components of the project involved, the applicable reporting period, and the type of credits issued:

# Project Monitoring

*Check the boxes below and attest that project monitoring has occurred according to the Protocol. If requirements were not met, please list the date of variance request and fill out Section 7.*

Have all monitoring and QA/QC requirements been met?  Yes  No

Have all field checks and calibrations been performed by a trained individual?  Yes  No

Date of Variance Request, if applicable:

# Variance Request

*If a variance was requested during the reporting period, provide a brief description of the rule/requirement in the protocol in question, the conditions of the determination, and the date of the variance request and determination.*

Date of Variance Request:

Protocol Section and Rule/Requirement:

Description of how the project did not meet the protocol requirement above:

Date Reserve Issued Determination:

Variance Conditions:

# Project Documentation

*The following documents are required to be submitted for project registration. In cases where there is proprietary information, please provide unredacted and redacted versions. If additional documents were submitted, please include the document title and its associated file name.*

|  |  |
| --- | --- |
| **Document** | **File Name** |
| Project Diagram |  |
| Attestation of Title |  |
| Attestation of Voluntary Implementation |  |
| Attestation of Regulatory Compliance |  |
| Monitoring Plan |  |
| Project Contributions to the U.N. Sustainable Development Goals Report Tool (if applicable) |  |
| Project Data Report (this document) |  |
| List of Findings |  |
| Variance Request (if applicable) |  |
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