

Credible Carbon (Pty) Ltd
Cape Town
South Africa

Verification Statement for the ReCarbon Ground Trading Uitenhage Composting emission reduction project

ReCarbon's GHG assertion for the period 2020 - 2021 contained in the 1st and 2nd Monitoring Reports and spreadsheets has been independently verified. The preparation of the GHG reports is the responsibility of ReCarbon Ground Trading (Pty) Ltd and it is the verifier's responsibility to express an opinion on the GHG assertion based on the verification, considering the needs of the intended user.

Credible Carbon commissioned Carbon Calculated to perform a verification of the emission reduction project for the period 1 January 2020 to 31 December 2021 with the view to express an opinion on whether the project's GHG assertions meet the requirements of the Credible Carbon Registry and that the project has delivered verifiable emission reduction savings.

This verification is performed at a limited level of assurance according to the ISO 14064-3 International Standard for Greenhouse Gas verifications.

Objectives

The Credible Carbon Registry requirements verified are whether:

1. The project is real;
2. The project's described technology is in place and functioning according to its design specifications;
3. The estimates of greenhouse gas emission reductions are reasonable in terms of accepted international standards and unbiased towards buyer or seller;
4. The project has a discernible impact on poverty.

Scope

The following verification activities were conducted:

1. A site visit to the composting site situated at Aalwynhoek Abattoir, Uitenhage, Nelson Mandela Bay.
2. Desktop review of documentation, including the 1st and 2nd Monitoring Reports, The Green House report with emission factors and activity data spreadsheets.
3. Assessment of risks and documentation.
4. Documentation of verification findings and outstanding issues in verification report.
5. Assessment and documentation of resolutions to outstanding issues in verification report.
6. Issuance of verification statement and completion of verification.

Methodology

Greenhouse gas emissions reduced by the ReCarbon Ground Trading Uitenhage Composting project is estimated to be the difference between the base case emissions and the project case emissions and leakage. Leakage accounts for methane and nitrous oxide emissions from possible anaerobic decay during the composting process.

Base case emissions or the historical treatment pathway are calculated taking into account the amount of solid waste products that would have been disposed of in a solid waste disposal site (SWDS) and liquid waste sent for treatment in a wastewater treatment (WWT) plant.

Project case emissions or composting treatment pathway are generated from the fuel and electricity consumption and leakage.

The GHG emissions savings per mass of waste is calculated as the difference between the GHG emissions from the historical treatment pathway and composting treatment pathway.

Emissions were calculated using the 2006 IPCC guidelines for Small-Scale Clean Development Mechanism (CDM) methodologies relating to waste treatment and diversion. The following methodologies were applied in calculations for this project:

- Emissions from SWDS: AMS III.F. v.12: “Avoidance of methane production from biomass decay through composting” - Tool 4. v.8: Methodological tool: Emissions from solid waste disposal sites.
- Emissions from WWT: AMS-III.H. v.19: “Methane recovery in wastewater treatment”
- Emissions from composting: AMS III.F. v.12: “Avoidance of methane production from biomass decay through composting” - Tool 13. v.2: Methodological tool: Project and leakage emissions from composting.

Total Emissions Reduction

| Emissions | GHG emissions reduced Tonnes CO ₂ e | | Total emissions reduced Tonnes CO ₂ e |
|----------------------------|---|----------------------------|---|
| | January – December 2020 | January – December 2021 | January 2020 – December 2021 |
| Baseline emissions | 4 680 | 6 303 | 10 983 |
| Project emissions | -1 291 | -1 666 | -2 957 |
| Total net emission savings | 3 389 | 4 637 | 8 026 |

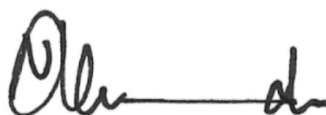
Verifier Opinion

| Credible Carbon Registry Requirement | Verifier Finding |
|--|---|
| 1. The project is real. | The site visit on 11 August 2021 confirmed that the ReCarbon Ground Trading Uitenhage Composting project is in existence. |
| 2. The project’s described technology is in place and functioning according to its design specifications. | The site visit confirmed that composting activities are in existence at the Uitenhage composting site with mechanical turners turning the windrows periodically to ensure on-going aerobic decomposition and the production of high-quality compost that can be used as organic fertiliser. |
| 3. The estimates of greenhouse gas emission reductions are reasonable in terms of accepted international standards and unbiased towards buyer or seller. | Based on the process and procedures conducted, the GHG assertion, incorporating stipulated corrective action requests, is materially correct and is a fair representation of the GHG data and information. |
| 4. The project has a discernible impact on poverty. | The project contributes to the alleviation of poverty or livelihood risk by creating job opportunities for 12 unskilled labourers from the disadvantaged areas surrounding Uitenhage. |

This verification statement is dated 28 February 2022.



Karen van der Wath
Lead Verifier
Carbon Calculated



Nici Palmer
Founding Member
Carbon Calculated

