

# Validation-Verification Opinion

## Introduction

EcoEngineers has carried out the validation and verification of the carbon dioxide (CO<sub>2</sub>) emission reduction project for the following company:

## Company Information

### CO<sub>2</sub> Removal Supplier

Lithos Carbon

### Feedstock Supplier and Location:

[REDACTED], Pennsylvania, [REDACTED]

### GHG Removal Method

Enhanced Rock Weathering in Agriculture

### Puro.Earth Project Name / Production Facility ID

Lithos Mid-Atlantic Facility / 782763

### Reporting Period

5/25/2023 – 4/29/2025

EcoEngineers has examined the project's calculations of carbon dioxide removal credits (CORCs) as reported in Lithos Mid-Atlantic Facility life-cycle analysis (LCA) report and CORC Summary Report, for the period of May 25, 2023 to April 29, 2025. EcoEngineers' joint validation and verification (production facility audit and output audit) has been completed in accordance with the Puro.Earth Standards, Requirements, and Enhanced Rock Weathering Methodology 2022 v2.

## Responsibility of Lithos Carbon and EcoEngineers

Lithos Carbon's management is responsible for the preparation of the data collection, compilation, and fair presentation of the LCA model, CORC Summary Report, and related claims for the Mid-Atlantic Facility in accordance with the Puro.earth Enhanced Rock Weathering Methodology 2022 v.2.

EcoEngineers is responsible for expressing an opinion on the Production Facility documents based on the completed validation activities and the Output Audit documents and CORC Report based on the completed verification activities for Lithos Mid-Atlantic Facility.

EcoEngineers is an ANAB-accredited independent validation and verification body, accredited to ISO/IEC 17029:2019, ISO 14065:2020, and ISO 14064-3:2019. EcoEngineers declares that we are an impartial auditor, free from any conflicts of interest, capable, and qualified to complete this audit according to the Puro.earth Standard General Rules and related Validation and Verification Requirements.

## Objective and Criteria

The primary objective of the joint validation/verification was to determine whether the CORCs claimed were within scope, real, quantifiable, additional, verifiable, counted once, and under clear ownership. EcoEngineers conducted the joint validation/verification activities in compliance with ISO 14064-3:2019 to verify the facility, operations, and supporting data collection practices. The joint validation/verification was conducted following the criteria listed in Section 2.1 of EcoEngineers' Validation/Verification Report.

## Validation and Verification Opinion

Based on the verification activities performed, EcoEngineers has issued the following joint validation/verification opinion:

**Qualified Positive** – Production facility documents and reported values contained in Lithos Carbon's LCA model, CORC Summary Report, and related claims for the reporting period, are reasonably assured of being free of material misstatement, but were not in conformance with the requirements of Puro.earth Enhanced Rock Weathering Methodology 2022 v.2. and Stakeholder Engagement Requirements v1.1.

### Joint Validation Verification Statement: QUALIFYING STATEMENT

During the review of the Lithos model simulations and the CORC Summary Report, EcoEngineers noted that the ERW model was missing possible secondary effects on dissolution of grains such as fluid supersaturation, clay formation and surface passivation effects; weather rates being affected by pH; and a respect-to-expected-performance in the field as noted in Section 8.1 of the methodology Lithos stated that they are *"unlikely to have time to upgrade the model in time for this verification but have noted these points for improvement ahead of the next verification. It is our understanding, from discussions with Puro, that the model should develop over time and is not used for crediting."* Despite this, the Lithos model follows one of the cited literatures for modelling approaches as noted in section 8.1 of the Enhanced Rock Weathering Methodology v2 (P. Renforth et al. 2015), and thus fulfil all other requirements for theoretical basis, specificity, parameters, modeled phenomena, uncertainty, and validations.

Additionally, EcoEngineers noted that the Stakeholder Supporting Evidence Folder did not include a mailing address for the CO<sub>2</sub> Removal Supplier and did not include a feedback mechanism that permitted anonymous feedback, contrary to the Stakeholder Engagement Requirements in Sections 2.3.4, and 2.5.2, respectively. Lithos stated they did not have these two options available for stakeholders and *"will develop a course of action to receive stakeholder feedback by physical post/mail.. [and will] take this feedback and improve our stakeholder engagement."*

Due to the missing model information and stakeholder contact specifics, EcoEngineers considered these issues as correctable errors that cannot be fixed within the time constraints of this combined validation and verification and may result in nonconformance but not a material misstatement with the methodology.

Therefore, a qualified positive statement is issued according to Section 2.3.4.1 of the Puro Standard General Rules and Section 6.3.2.3 of ISO 14064-3:2019.



As of November 24, 2025, EcoEngineers has validated the Lithos Mid-Atlantic Facility, signifying that this Facility is eligible for issuance of CO<sub>2</sub> Removal Certificates, per Section 3.1.3 of the Enhanced Rock Weathering Methodology 2022 v.2.

Based on EcoEngineers qualified positive validation/verification opinion, the Lithos Mid-Atlantic Facility project activities are eligible for issuance of 2,146.38 CO<sub>2</sub> Removal Certificates for the reporting period that is specified above.

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Lead Verifier: Zoe Nong  
Date: November 24, 2025

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Independent Reviewer: Jocelyn Stubenthal  
Date: November 24, 2025