



PRODUCTION FACILITY & OUTPUT AUDIT STATEMENT

350Solutions, Inc. has verified the CO₂ removal capability and eligibility for CO₂ Removal Credits (CORCs) under the Puro.earth Puro Standard General Rules v4.1 and the associated Enhanced Rock Weathering Methodology (Edition 2022 v2) for the following company:

Technology & Company Information		
CO ₂ Removal Supplier	Production Facility Name and Location	CO ₂ Removal Method
Eion Corp.	Twinterstellar 3021 (Facility ID: 387867) 122 Application Sites in Mississippi and Louisiana, USA	Enhanced Rock Weathering

350Solutions affirms that the organization has the appropriate equipment, procedures, and protocols in place and documentation to quantify CO₂ removal through the application of a weathering material (olivine) on farmland, via measurement of additional rock weathering and appropriate lifecycle analysis in accordance with the requirements of the Puro.Earth General Rules and Enhanced Rock Weathering Methodology. Eligibility criteria are verified as follows:

Eligibility Criteria		
Criteria	Eligibility Status	Rationale
Baseline Characterization	Eligible	The weathering material would not have been exposed to the atmosphere without the project. Business-as-usual farming practices use agricultural lime (limestone) as needed.
Net Negative LCA	Eligible	Calculated according to Enhanced Rock Weathering Methodology. Olivine is considered a waste product.
Application Site Grouping	Eligible	All application sites have broadly consistent geographic location, climatic conditions, type of applied weathering material, soil type, and risk profile.
Environmental & Social Safeguards	Eligible	Potentially Toxic Element (PTE) concentrations are below local regulatory limits. Appropriate safety measures are in place for olivine handling. Stakeholder engagement satisfies Puro requirements.
Stakeholder Consultation	Eligible	Evidence of sufficient stakeholder consultation was provided. Primary stakeholder group is farmers.
Additionality	Eligible	CO ₂ removal from weathering material sources would not occur naturally, is not required by any regulation, and requires carbon finance.
CORC Quantification	Eligible	C _{stored} calculated from aqua regia digests of soil samples. Default loss terms used for plant cation uptake, riverine losses, and marine losses. Strong acid weathering calculated from lysimeter data.
Production Facility Data	Eligible	Production facility data matches Puro.earth Registry
OVERALL ELIGIBILITY	ELIGIBLE	
Total Verified CORCs	748.31	

350Solutions has audited and verified eligible CO₂ removals for the monitoring period May 10, 2023 – December 3, 2024. Additional details regarding the Production Facility and Output Audit can be found in the Production Facility & Output Audit Report – Eion Twinterstellar 3021 (Doc. ID 350-PU2505-PFAOA).

Auditor Information		
Verification Body	Lead Auditor	Verification ID No.
350Solutions, Inc.	Lily Schacht	PU2505

Signed: Lily Schacht (Lead Auditor)

Zoe Sandwith (Peer Reviewer)



Issue Date:
September 18th, 2025
Valid for 5 years
from date of issue

PRODUCTION FACILITY & OUTPUT AUDIT STATEMENT: EION

TECHNOLOGY DESCRIPTION

Eion spreads finely-ground olivine rock on farmland to remove carbon dioxide (CO₂) from the atmosphere in a process called Enhanced Rock Weathering (ERW). The olivine used for this project came from two quarries, Milbank Materials' Twin Sisters Olivine in Washington, USA (TS) and Sibelco Olivine from Åheim, Norway (3021). The TS weathering material was sitting unused in a warehouse due to lack of demand while the 3021 weathering material may have been sold as a low-value filler for construction.

Olivine is primarily magnesium silicate (Mg₂SiO₄), which is weathered by carbonic acid to form dissolved magnesium (Mg²⁺), bicarbonate (HCO₃⁻), and silica (SiO₂). More information about the chemistry of enhanced rock weathering and the nuances in quantifying the resulting carbon dioxide removal (CDR) can be found in Cascade Climate's Foundations for CDR Quantification in ERW Deployments [1].

In the Spring of 2023, Eion spread approximately 15,000 tonnes of olivine on 3,640 ha of farmland. For this monitoring period, Eion is only claiming CORCs on the observed weathering on the fields where the TS material was spread, approximately 4,250 tonnes on 1,277 hectares.

VERIFICATION DESCRIPTION

Audit activities were conducted by 350Solutions to independently verify the production facility, operations, data, and CORC claims for the Eion's Twinterstellar 3021 Project. The verification was conducted following the specifications of Puro General Rules 4.1 and Enhanced Rock Weathering Methodology (Edition 2022 v2). The Production Facility Audit was completed via an in-person site visit to a subset of field sites on July 22, 2025. Facility standing and production output data was reviewed and verified remotely and during on-site activities during the site visit.

DATA QUALITY & LEVEL OF ASSURANCE

350Solutions is an ANAB-accredited ISO/IEC 17020:2012 independent inspection body for ISO 14034:2016 Environmental Technology Verification. 350Solutions Quality Management Plan and Quality Systems Procedures generally apply to activities associated with the Production Facility Audit and Output Audit performed in accordance with the Puro Standard. 350Solutions utilized a reasonable level of assurance in performance of the Production Facility & Output Audits. The data quality assessment includes, but is not limited to:

- Data quality assessment for the specified performance and CORC claims;
- Assessment of ancillary data quality (operations, relevance, and representativeness);
- Performer competence (testing and analytical providers);
- Sampling and analytical procedures (repeatability, accuracy, measurement equipment calibration and quality checks); and,
- Data management and processing.

In broad terms, the data provided by Eion to verify the Production Facility and its output in accordance with the Puro Standard was found to be acceptable for verification of initial CORC claims. Requirements and recommendations for improvement of data quality are provided in the Verification Report. All findings of the data quality review support verification of the performance claims and conform to the requirements of the standards.

Notice: 350Solutions, Inc. declares that we are an impartial auditor, free from any conflicts of interest, capable, and qualified to complete this audit according to Puro Standard and related Validation and Verification Body Requirements. Verifications and audits conducted by 350Solutions are based on an evaluation of technology performance and CO₂ removal claims via site visit observations and review of data submitted by the audited company. Audits are completed in accordance with rules and methodologies specified by Puro and utilizing the appropriate quality assurance procedures. 350Solutions makes no expressed or implied warranties as to the performance of the technology and does not certify that a technology will always operate at the levels verified, nor that it meets all state, local, or federal legal requirements.

[1] Cascade Climate, "Foundations for CDR Quantification in ERW Deployments." Oct. 2024 [Online].

https://cascadecclimate.org/CC_Foundations%20for%20CDR%20Quantification%20in%20ERW%20Deployments.pdf