MONITORING REPORT

PUTUMAYO REDD+ PROJECT

Document prepared by CARBO Sostenible SAS

Date of issue (*Version 1.0 05/12/2024*)

Monitoring Report Template (Version 3.4)	
Name of project	*Putumayo REDD+*
BCR Project ID	*BCR-CO-665-14-001*
Registration date of the project activity	*09/06/2022*
Project holder	*Fondo FORE – Fondo Mercado Reducción de Emisiones*
Contact	*Juan Andrés López* *jlopezsilva@carbosostenible.com* *Calle 77a 12-60, of 301*
Version number of the Project Document applicable to this monitoring report	*Version 5.0* *(28/03/2023)*
Applied methodology(ies)	*BioCarbon Registry* *AFOLU Sector Methodological Document* *Quantification of Emission Reductions or GHG Removals from REDD+ Projects* *BCR0002* *Version 3.1* *September 2022*

Monitoring Report Template (Version 3.4)	
Project location (Country, Region, City)	***Country:*** *Colombia* ***Department:*** *Putumayo* ***Municipalities:*** *Villagarzón, Puerto Guzmán, Orito, Santiago, San Francisco, Orito, Sibundoy, Mocoa, Colón, Santa Rosa* ***Department:*** *Nariño* ***Municipalities:*** *Pasto*
Project starting date	*10/01/2020*
Quantification period of GHG reductions/removals	*10/01/2020 to 09/01/2050*
Monitoring period number	*Second monitoring period*
Monitoring period	*01/01/2022 to 31/08/2024*
Amount of emission reductions or removals achieved by the project in this monitoring period	*430,403 tCO2e*
Contribution to Sustainable Development Goals	*SDG5, SDG15*
Special category, related to co-benefits	*The project does not apply to special category*

Table of contents

1 General description of project

The project corresponds to a project grouped by instances that aims to reduce deforestation and contribute to the sustainable development of communities and the conservation of existing forests in the territories that are part of the project, through the strengthening of territorial governance by indigenous peoples, the development of sustainable productive activities compatible with nature that contribute to food security and the generation of surpluses, social investments, and the monitoring and protection of forests.

The project instances are defined as follows: (i) the first instance includes the Alto Orito Indigenous Reserve, the Simorna Indigenous Reserve, the Inga Indigenous Reserve of San Andrés and the Nukanchipa Alpa Amukunapa Wasi Indigenous Reserve; (ii) the second instance consists of the Yunguillo Indigenous Reserve and the Villa Catalina Indigenous Reserve of Puerto Rosario; (iii) the third instance comprises the territory of the Kaméntsá Biya Indigenous Reserve of Sibundoy.

The first instance of the project includes the following territories: the Alto Orito Indigenous Reserve comprises a titled area of 9,731 ha in accordance with the provisions of Agreement 019 of 2005 issued by INCODER; the Simorna Indigenous Reserve has an area of 9,070 ha in accordance with Agreement No. 029 of 2006 issued by INCODER; the RI Inga of San Andrés presents an extension of 16,549 ha as defined in Agreement 12 of 2016 issued by the ANT; the Nukanchipa Alpa Amukunapa Wasi Indigenous Reserve has an area of 30,803 ha, as defined in Agreement 113 of 2020 issued by the ANT. In total, the four IRs cover an area of 66,153 ha, of which 63,190 ha corresponded to forest eligible for the REDD+ project at the beginning of the project.

During the monitoring period, the following activities were carried out: recovery of traditional languages, exchange of seeds, strengthening of governance, establishment of traditional production systems (chagras), strengthening of the indigenous guard, path adequation, territorial monitoring, and operation of the REDD+ Committee, as presented in section 13 Implementation of the project.

1.1 Sectoral scope and project type

In accordance with the AFOLU Sector Methodological Document, Quantification of Emission Reductions or GHG Removals from REDD+ Projects, BCR0002, Version 3.1 of September 2022, the project corresponds to:

Sectoral scope: Agriculture, Forestry and Other Land Use (AFOLU).

AFOLU project category: Reduced Emissions from Deforestation and Degradation (REDD).

Activities: Reduction of emissions from deforestation.

In addition, the project does correspond to a grouped project as it is indicated in section 5.1.1. of the Project Document (PD). However, no new instances were included during the monitoring period.

1.2 Project start date

The project start date was 10/01/2020.

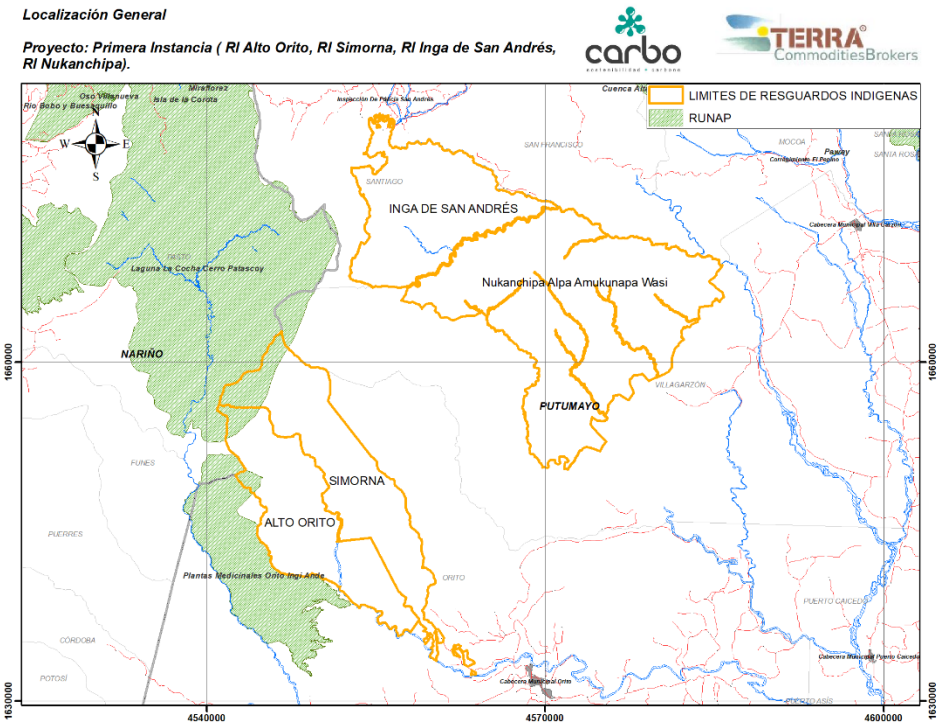
1.3 Project quantification period

The project quantification period started on 10/01/2020 and ends on 09/01/2050, corresponding to a 30-year quantification period.

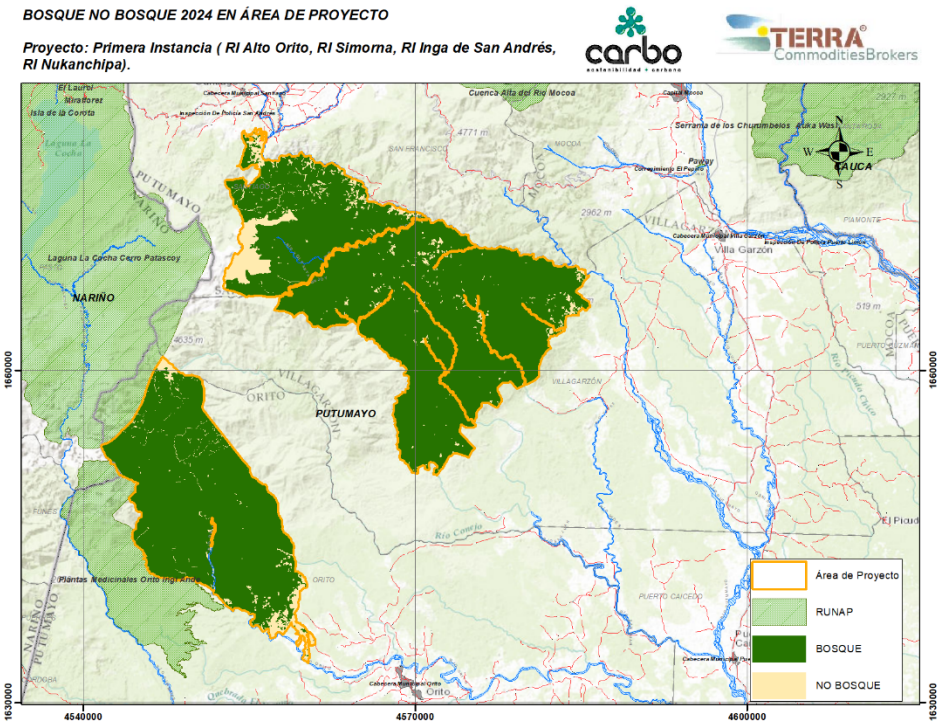
1.4 Project location and project boundaries

The project is in the territories of the Alto Orito Indigenous Reserve, Simorna Indigenous Reserve, Inga de San Andrés Indigenous Reserve, and Nukanchipa Alpa Amukunapa Wasi Indigenous Reserve (project's first instance), which are in the municipalities of Orito, Villagarzón, San Francisco and Santiago (Putumayo), and Pasto (Nariño).

The following maps present the special location of the first instance of the project (Map 1), and the project area at the end of the second monitoring period (Map 2):



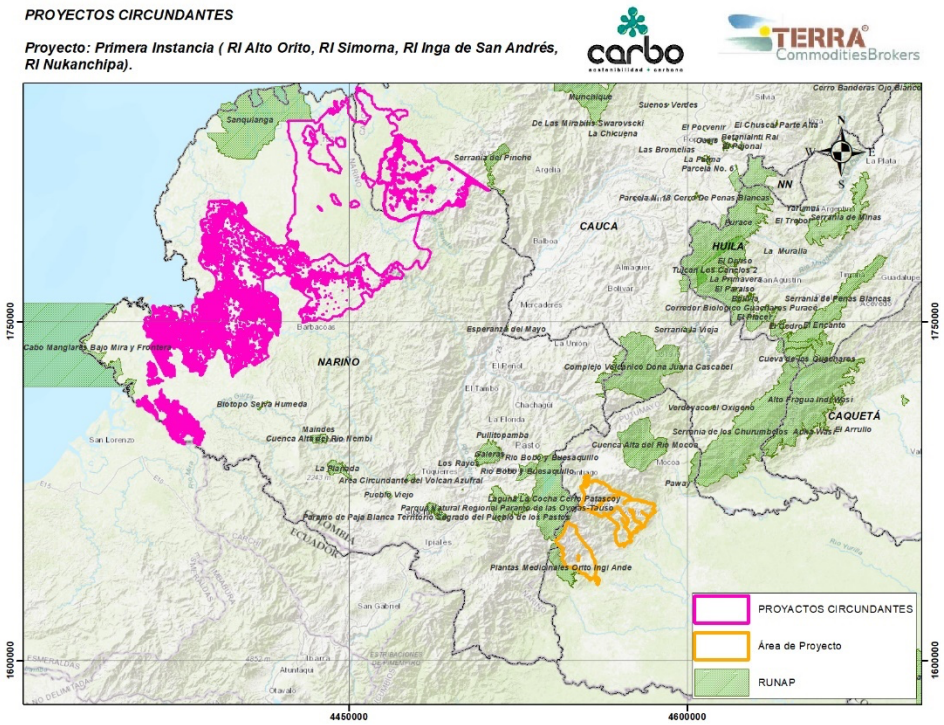
Map 1. Project location - First instance (Indigenous Reserves).



Map 2. Project area at the end of the monitoring period (August-2024).

The coordinates of the project, including the second and third instance are presented as a KML in folder 3. Mapas.

the geographical information of other mitigation initiatives around the geographical area of the project are presented in the following map:



Map 3. Other mitigation initiatives.

1.5 Summary Description of the Implementation Status of the Project

During the monitoring period (01/01/2022 to 31/08/2024), the following activities framed in REDD+ project implementation strategy were executed:

Indigenous Reserve	Activities executed
Alto Orito Indigenous Reserve	• Cultural house • Establishment of traditional production systems (chagras) • Strengthening of the indigenous guard • Territorial monitoring • Operation of the REDD+ Committee
Simorna Indigenous Reserve	• Path adequation • Establishment of production systems • Strengthening of the indigenous guard

Indigenous Reserve	Activities executed
	• Territorial monitoring • Operation of the REDD+ Committee
Nukanchipa Alpa Amukunapa Wasi Indigenous Reserve	• Recovery of traditional languages • Exchange of seeds • Strengthening of governance • Territorial monitoring • Operation of the REDD+ Committee
Inga de San Andrés Indigenous Reserve	• Territorial monitoring • Operation of the REDD+ Committee

A total of 430,403 tCO2e of GHG emissions from deforestation were avoided during the monitoring period.

No new instances were added during the monitoring period.

2 Title, reference and version of the baseline and monitoring methodology(ies) applied to the project

The methodology applied to the project corresponds to BCR0002. AFOLU Sector Methodological Document. Quantification of GHG Emission Reductions or Removals from REDD+ Projects. Version 3.1 (15/09/2022).

The following tools were applied by the project for this monitoring period:

- Safeguards REDD+, Version 1.1 (26/01/2023)
- Monitoring, Reporting and Verification tool, Version 1.0 (13/02/2023)
- Permanence and Risk Management tool, Version 1.1 (19/03/2024)
- Sustainable Development Safeguards, Version 1.1 (04/07/2024)
- Avoiding double counting, Version 2.0 (07/02/2024)
- Sustainable Development Goals tool (26/06/2023)

The Standard applied to this verification of the project corresponds to Standard for the voluntary BCR Carbon Market, version 2.1 of 2022 (21/09/2022).

3 Double Counting and Participation under Other GHG Programs.

The project is not registered under other GHG mitigation project certification programs.

Similarly, the project has no geographic or temporal overlap with jurisdictional REDD+ programs or other mitigation initiatives, as shown in Map 3. Finally, the project

corresponds to an AFOLU sector initiative, so the results correspond to GHG-related metrics only.

4 Contribution to Sustainable Development Goals (SGD)

The monitoring of the activities executed within the framework of the project that contributed to compliance with the SDG was carried out based on the guidelines defined in sections 10 and 13.4 of the validated PD. The SDG tool with the contributions report is presented in folder 8. Herramientas BCR (see file ODS_Putumayo REDD+ tool_2nd verification_V1.xlsx).

5 Compliance with Applicable Legislation

5.1 Forest and climate change policy and regulatory framework

The actions implemented within the framework of the project are aligned with the objectives and goals of the national forest policy, especially with regard to sustainable forest management and climate change mitigation and adaptation, as indicated below:

Law 164 of 1994 – ratifies the United Nations Framework Convention on Climate Change (UNFCCC): Decision 1 of COP16 requested that these Parties, in accordance with national circumstances, take action to reduce emissions from deforestation and forest degradation, establish forest reserves and manage forests sustainably. The project corresponds to a mitigation initiative that aims to reduce deforestation through the implementation of a sustainable strategy designed by the project's proponent communities, consolidated in the PDD (folder 2. Documento de diseño de Proyecto – PD).

CONPES Document 2834 of 1996 – Forest Policy: The country's forestry policy was adopted in 1996 and aims to achieve the sustainable use of forests to conserve, consolidate the incorporation of the forestry sector into the national economy and improve the standard of living of the population. The guiding principles of the policy are as follows:

- Forests are one of the country's strategic resources, an integral part and support of biological diversity, so their knowledge and management is a vital responsibility for the State, with the support of civil society.
- Sustainable forestry development is a joint and coordinated task of the State, the local community and the private sector.
- The sustainable exploitation of forest resources is a strategy for forest conservation and requires an enabling environment for investment.

- Most of the country's forest areas are inhabited and the rights of local inhabitants must be respected.
- Planted forests and agroforestry systems play a fundamental role in the production of energy and industrial raw materials, the maintenance of ecological processes and the generation of employment, and also in the socio-economic development of the country, so they should be promoted.
- The national policy will be implemented at the regional level, taking into account the specific characteristics of each region.

The forestry policy establishes the following specific objectives:

- Reducing deforestation through cross-sectoral policy coordination and reorientation.
- Promotion of reforestation and rehabilitation and conservation of forests to restore catchment areas and degraded soils.
- Implementation and streamlining of administrative processes for the sustainable use of forests.
- Address the cultural, social and economic issues that lead to deforestation (FAO 2014).

The Putumayo REDD+ project is aligned with the Forest Policy, as it develops actions aimed at the conservation of the forest located in the indigenous reservations' proponent of the project. Similarly, among the activities carried out during the monitoring period are the strengthening of territorial monitoring, the improvement of livelihoods to reduce pressure on the forests that correspond to the project area, and the implementation of activities aimed at the recovering and strengthening of the indigenous cultural identity (folder 6. Actividades).

National Forestry Development Plan of 2000: Consolidates a comprehensive vision of the conservation and sustainable use of forest ecosystems and resources, which addresses aspects such as the protection and conservation of forest ecosystems, the development of communities and their respect for the knowledge, use and conservation of forest ecosystems.

The project is articulated with the NFDP, particularly with the program for the management, conservation and restoration of forest ecosystems, and the following subprograms: i) subprogram for forest management and zoning, and ii) subprogram for *in situ* conservation of ecosystems and biodiversity, considering that the project seeks to reduce deforestation and contribute to the conservation of the vegetation cover that makes up the project area, and strengthening territorial planning and governance by the indigenous reservations' proponent of the project. During the monitoring period, the

indigenous reservation executed monitoring routes in their territories to contribute to the forest conservation and identify forest loss events (folder 6. Actividades).

Law 1021 of 2006 – General Forestry Law: The Putumayo REDD+ project complies with the general principles and standards defined in the law considering that it promotes the development of activities aimed at the conservation of ecosystems and the improvement of the living conditions of the members of the indigenous reservations that are part of the project, and that guarantees the right of indigenous communities to free decision-making, as defined in the Political Constitution of Colombia. The design and implementation of the project has had the Free, Prior and Informed Consent, in addition, the activities implemented during the monitoring period are framed in the strategy design by the communities to reduce deforestation in their territories and improve living conditions through the strengthening of governance and the implementation of productive activities (folder 6. Actividades).

Decree 926 of 2017: Establishes the procedure for the Non-Causation of the National Carbon Tax. The purpose of this is to stimulate the formulation and implementation of mitigation initiatives that generate reductions in emissions or removals of GHGs in exchange for the non-causation of the tax.

In addition, it indicates the requirements of the projects that allow emission reductions. It also defines the characteristics that must be met by the relevant carbon methodologies and standards to be used for the non-causation of the tax, which must be recognized by the national government to be used in the REDD+ registry, a condition to which the project complies. In this case, the project complies with what is defined in the decree considering that it was developed using approved methodologies and it is registered under the BioCarbon Standard that is recognized by the National Government.

Resolution 1447 of 2018: issued by the Ministry of Environment and Sustainable Development (MADS), regulates the monitoring, reporting and verification system of mitigation actions at the national level referred to in Article 175 of Law 1753 of 2015.

- *Article 39. Use of Methodologies for the formulation and implementation of REDD+ Projects.* The project complies with the provisions of this article since the methodology selected for the development of the project follows the guidelines established by the UNFCCC regarding the REDD+ mechanism, has a mechanism for the management of the risk of leakage of GHG emissions, a mechanism for the management of the risk of non-permanence of GHG reductions, and with a mechanism for managing uncertainty in the quantification of baseline emissions and the mitigation initiative.
- *Article 41. Establishment of baselines for REDD+ projects*. The project meets this criterion considering that the methodological construction of the most recent

Forest Reference Emission Level (FREL) approved applicable to the project was carried out for the definition of the project baseline, which was previously validated.

- *Article 43. Criteria for additionality in REDD+ projects*. The project complies with the additionality criteria set out in this article, considering that it represents a net benefit to the atmosphere. In addition, GHG reductions are not the result of impact compensation activities for projects, or for the development of preservation and restoration activities in strategic areas and ecosystems for which payments for environmental services for GHG reduction and capture are in course, as defined in Decree 1076 of 2015.

National Development Plan 2018-2022 - Pact for Sustainability: Seeks a balance between productive development and environmental conservation. The Putumayo REDD+ project contributes to the theme of Forest, Biodiversity and Ecosystem Services, as it seeks to reduce the trend of growth in deforestation. Additionally, the project is also aligned with the climate change and risk management component, considering that emission reduction is a measure for climate change mitigation.

Proposed baseline of Colombia's forest emissions from deforestation for REDD+ pay-for-results under the 2019 UNFCCC (latest FREL approved for Colombia): presents the benchmarks for assessing Colombia's performance in implementing REDD+ activities. The proposal presents the reference levels by biome (Amazon, Andes, Caribbean, Orinoquía and Pacific). The project carried out the methodological reconstruction and validated that the percentage increase due to national circumstances for the estimation of the baseline in each of the monitoring years; it also used the emission factors defined in the FREL for the estimation of emissions reduction.

CONPES Document 4021 of 2020 – National Policy for the Control of Deforestation and Sustainable Management of Forests: The project is aligned with the objective of the policy, considering that it seeks to control deforestation and contribute to the conservation of forests.

The Putumayo REDD+ project contributed to the fulfillment of the goals and principles of the EICDGB, considering that the actions defined and framed in the *Territorial Governance* component that comprises the intervention were aligned with the line of action of sociocultural management of forests, particularly in governance in ethnic territories, to the extent that it promotes the strengthening of self-government systems for territorial and forest governance. Similarly, the territorial monitoring activities were also articulated with the strategy defined in the EICBD, considering that allowed the development of immediate response actions and promoted the monitoring of compliance with environmental and social safeguards.

The project also complies with the Monitoring, Reporting and Verification System defined in the EICDGB since it uses the same methodological approach and variables defined to stablish the National Forest Reference Emissions Level in Colombia.

National REDD+ Strategy: Defines REDD+ policies and measures that will reduce GHG emissions associated with the forest sector. It draws up the "roadmap" that establishes the activities that can be carried out, how they can be carried out and the economic resources required. It is part of the actions on Climate Change contemplated in the National Development Plan 2018-2022.

Nationally Determined Contributions (NDCs), 2020: Colombia updated the Nationally Determined Contribution (NDC) at the end of 2020, the goal of reducing projected emissions by 51% by 2030. Much of Colombia's forests, particularly in the Amazon and the Pacific, are located in indigenous reservations and Afro-Colombian collective territories and their preservation depends on the defense of ways of life appropriate to the territory (Government of Colombia, 2020). The project promotes the active participation of these focus groups, contributing directly to the country's goal of reducing the annual rate of deforestation and GHG emission.

Law 2169 of 2021 – Climate Action Law: Promotes Colombia's low-carbon development by establishing minimum goals and measures in terms of carbon neutrality and climate resilience. The project was articulated during the monitoring period with this law since in *Article 3. Pillars of the transition to carbon neutrality, climate resilience and low-carbon development* are defined as the development of actions to be taken in the field of climate change that contribute to food security (through the establishment and improvement of traditional productive systems, chagras), and the adoption of measures that promote environmental protection (territorial monitoring). Likewise, it sets emission reduction targets (equivalent to those defined in the NDCs), with which the general objective of the project is aligned.

Law 2294 of 2023 – National Development Plan 2022-2026: The National Development Plan is in the preparatory phase regarding the country's indigenous communities, and the project is aimed at complying with national and international standards in greenhouse gas (GHG) mitigation, advancing communally towards forest management, considering that the NDP contemplates the following objectives: i) overcoming historical injustices and exclusions; ii) preventing the repetition of conflict; iii) changing the relationship with the environment; and iv) achieving a productive transformation based on knowledge and in harmony with nature.

Within this understanding, the project is aligned with the following transformation axes of the NDP:

- Human security and social justice: through the implementation, a process of strengthening traditional territorial management has begun considering that communities started the implementation of their territorial monitoring model (folder 6. Actividades).

- Human right to food: the resources allow maintaining food security and sovereignty, considering that the project has allowed strengthening traditional knowledge and achieving adequate transmission of practices to the new generations of communities, which allows social and territorial organizational strengthening through the implementation of productive activities such as implementation and improvement of traditional productive systems and seeds exchange (folder 6. Activdiades).

Finally, considering what is established in Article 232, paragraph 2 of Law 2294 of 2023, the compliance matrix for the national interpretation of social and environmental safeguards corresponding to the third monitoring period of the project is presented in folder 7. Cumplimiento legal, file Matriz Salvaguardas_Proyecto Putumayo REDD+.xlsx. The project has had Free, Prior and Informed Consent since its formulation and during its implementation, considering that it is the indigenous communities who are the owners of the initiative, and the activities executed were defined and prioritized by them (folder 5. Espacios participativos).

5.2 Ethnically Differentiated Communities

In addition, regarding ethnically differentiated communities (indigenous communities), the analysis of regulatory compliance is presented below:

Constitution of 1991. Article 63: Assets for public use, natural parks, communal lands of ethnic groups, reserve lands, the archaeological heritage of the nation and other assets determined by law are inalienable, imprescriptible and non-seizable.

The Putumayo REDD+ project complies with the provisions of this article, considering that it does not modify the form of tenure of the territory of the indigenous reserve and communities that own the initiative, so that the condition of being inalienable, imprescriptible and non-seizable is maintained, in accordance with the land tenure resolutions (folder 7. Cumplimiento legal).

Act No. 21 of 1993: Approving Convention No. 169 concerning Indigenous and Tribal Peoples in Independent Countries, adopted by the 76th Session of the General Conference of the International Labor Organization, Geneva 1989. Its purpose is to establish mechanisms for the protection of the cultural identity, human rights and other rights of the indigenous communities of Colombia as an ethnic group, and the promotion of their economic and social development that makes it possible to eliminate differences,

in order to ensure that these communities obtain real conditions of equal opportunities. It also seeks to guarantee the right of peoples to decide on their priorities, improve their living conditions, work, health and education, and preserve their own customs and institutions, among other provisions.

The Putumayo REDD+ project complies with the provisions of Law 21 of 1993, considering that it respects the traditional practices of the members of the indigenous communities that make up the project considering that are the communities the one that designed the REDD+ strategy (which was approved by the General Assembly), and defined the activities executed during the monitoring period. In the same way, it does not violate the right to collective property since it does not modify the form of land tenure (folder 7. Cumplimiento legal). Finally, it promotes the strengthening and protection of cultural identity through actions framed in the governance component, and social and economic development through the implementation of the component of productive activities and social investment (folder 6. Actividades).

Decree 1386 of 1994: Establishes that the internal authorities of the indigenous reserve exercise control over the administration of resources, in accordance with their uses and customs, a condition that has been fulfilled by the project since the full and effective participation of the members of the indigenous communities in decision-making spaces for prioritization of activities, use of resources derived from the commercialization of Verified Carbon Credits, among others has been guaranteed.

Decree 2164 of 1995: Consolidates the land regulations for indigenous communities and establishes that the areas that are constituted as indigenous reserves will be managed and administered by the respective cabildos or traditional authorities of the communities, in accordance with their uses and customs.

Regarding the conditions of management and administration of the territories, the project respects the management and administration of the councils of the indigenous communities, which has participated actively in the framework of the development of the workshops, and in the design and implementation of the REDD+ project.

5.3 Environmental permits

No environmental permits or environmental licensing were required during the monitoring period.

6 Climate change adaptation

In accordance with the section 11.8 of the BCR Standard (Version 3.4 of 2024), the project links mitigation and adaptation to climate change, aiming to reduce GHG

emission reduction and increase resilience to current and future impacts associated to climate change and climate variability. For this, the project has carried out the following actions during the monitoring period:

a) Considered one or more of the strategic lines proposed in the National Climate Change Policies and/or focuses aspects outlined in the regulations of the country where the project is implemented.

- The project considered the National Climate Change Policies, under the following strategic lines:
  i) Territorial Strategies
    - Action line 1: The project of chagras (traditional production systems) and the exchange of seeds promoted the improvement of food security, especially in vulnerable areas (folder 6. Actividades\Proyectos productivos)
    - Action line 2: Promoted comprehensive actions in the chagras that helped the efficient use of the soil, and the conservation of the existing natural covers, reduction of deforestation, and reduced vulnerability to climate change (folders 3. Mapas, and folder 6. Actividades\Proyectos productivos).
    - Action line 4: Promoted the maintenance of forest carbon stocks, and the closure of the agricultural frontier (folder 3. Mapas)
  ii) Management and conservation of ecosystems and their ecosystem services for low-carbon and climate-resilient development
    - Action line 1: During the monitoring period, the project promoted the conservation of terrestrial ecosystems that provided environmental services that strengthen the adaptation of socio-economic systems to climate change (folders 3. Mapas, and 6. Actividades\Proyectos productivos).
    - Action line 3: Incorporated management and conservation actions for ecosystems and their services in territorial planning such as surveillance routes within project area (folder 6. Actividades\Monitoreo).
    - Action line 4: During the monitoring period, the project strengthened the forest governance to prevent deforestation through workshops and surveillance routes (folder 6. Actividades\Monitoreo).

b) The project has improved the conditions for the conservation of biodiversity and its ecosystem services, considering that it has allowed the conservation of natural forest cover and, therefore, of biological corridors in an area of high biodiversity. During monitoring period, the deforestation of 1,030 ha was avoided within the project area due to the implementation of the project activities (folders 3. Mapas, and 4. Cálculos).

e) Designed and implemented adaptation strategies based on an ecosystem approach consistent with preservation of forest covers and included the participation of community members for monitoring of the project area (folders 3. Mapas, 4. Cálculos, and 6. Actividades\Monitoreo).

f) Strengthened the local capacities of communities to take informed decisions to anticipate negative effects derived from climate change in participatory activities such as workshops and participatory spaces (folder 5. Espacios participativos).

In addition, considering that the project corresponds to the AFOLU sector, the project developed actions to adapt to climate change, such as:

b) Integrated actions that assist in the efficient use of soil, including the conservation of existing natural covers and family farming (project of chagras) reducing vulnerability to climate change (folders 3. Mapas, and 6. Actividades\Proyectos productivos).

7 Carbon ownership and rights

The carbon ownership and rights are linked to the land tenure rights considering that the project is implemented in the territories of Alto Orito Indigenous Reserve, Simorna Indigenous Reserve, Inga Indigenous Reservation of San Andrés, and Nukanchipa Alpa Amukunapa Wasi Indigenous Reserve, legally conferred by Agreement No. 019 of September 15, 2005, issued by INCODER (*Instituto Colombiano de Desarrollo Rural*); Agreement No. 029 of September 15, 2006, issued by INCODER; Agreement No. 12 of November 3, 2016, issued by the ANT (*Agencia Nacional de Tierras*); and Agreement No. 113 of January 28, 2020, issued by the ANT, respectively.

Considering that the project proponents are the communities that make up the Indigenous Reserves, CARBO Sostenible SAS, and Fondo FORE, three distribution agreements were signed and ratified by the involved parties (see folder 9. Documentos confidenciales).

8 Environmental Aspects

The project activities did not cause any net-harm to the environment during the monitoring period (folder 8. Herramientas BCR, file BCR_SDS tool_Putumayo REDD+_V1.pdf).

9 Socioeconomic Aspects

The project activities did not cause any net-harm to the local communities and society in general during the monitoring period (folder 8. Herramientas BCR, file BCR_SDS tool_Putumayo REDD+_V1.pdf).

10 Stakeholders' Consultation

The project implementation has been based on continuous exchanges of the strategy of the REDD+ project with the communities' proponent of the project. Participatory spaces have been held in the Indigenous Reserves with representatives and community members. Similarly, during the implementation of the project, budgetary control is foreseen to ensure that investments are made in accordance with the objectives of the project, ensuring transparent processes agreed between project proponents. All fundamental decisions regarding the development and implementation of the REDD+ project have been taken and ratified in General Assemblies and workshops (folder 5. Espacios participativos).

Meeting	Date	Topics addressed
Nukanchipa Alpa Amukunapa Wasi Indigenous Reserve		
Implementation Workshop	06-06-2023	• Implementation of the project • Resources execution • Accountability • Opening a fiduciary account • REDD+ Committee constitution • Project profile elaboration
Socialization meeting	12-12-2023	• Approval of budget by project • Definition of project implementation deadlines
Internal meeting	22-12-2023	• Election of members and representatives of the REDD+ Committee and monitoring team
Socialization meeting	20-02-2024	• Socialization of the project implementation status • Procedures for requests, complaints and claims • Responsibilities of the monitoring team members • Prioritized projects approved
Socialization meeting	12-04-2024	• Socialization of the project implementation status • Planning of activities and budget of the traditional language recovery project
Socialization meeting	13-04-2024	• Socialization of the project implementation status • Planning of activities and budget of the project to strengthen traditional production systems and food security through the

Meeting	Date	Topics addressed
		exchange of native seeds for handicraft, medicinal, fruit and timber uses
Simorna Indigenous Reserve		
Implementation Workshop	07-06-2023	• Implementation of the project • Resources execution • Accountability • Opening a fiduciary account • REDD+ Committee constitution • Project profile elaboration
Project prioritization assembly	17-11-2023	• Identification of potential projects to be executed • Prioritization of projects to be implemented
Socialization meeting	17-11-2023	• Responsibilities of members of the REDD+ Committee • Ratification of the projects prioritized
Socialization meeting	13-12-2023	• REDD+ Committee members responsibilities • Monitoring team responsibilities • Prioritized projects socialization • Procedures for requests, complaints and claims
Internal meeting	22-12-2023	• Approval of budget for project implementation
Socialization meeting	07-01-2024	• Socialization of the project implementation status • Budget of the improvement of the traditional path project
Socialization meeting	08-03-2024	• Socialization of the food security project • Budget of the traditional productive systems (chagras) project
Socialization meeting	03-05-2024	• Approval of the traditional productive systems (chagras) profile project
Alto Orito Indigenous Reserve		
Implementation Workshop	07-06-2023	• Implementation of the project • Resources execution • Accountability • Opening a fiduciary account • REDD+ Committee constitution • Project profile elaboration
Project prioritization assembly	15-11-2023	• Identification of potential projects to be executed

Meeting	Date	Topics addressed
		• Prioritization of projects to be implemented
Socialization meeting	20 & 22-12-2023	• REDD+ Committee members responsibilities • Monitoring team responsibilities • Prioritized projects socialization • Procedures for requests, complaints and claims
San Andrés Indigenous Reserve		
Implementation Workshop	09-06-2023	• Implementation of the project • Resources execution • Accountability • Opening a fiduciary account • REDD+ Committee constitution • Project profile elaboration
Project prioritization assembly	10-11-2023	• Identification of potential projects to be executed

11 REDD+ Safeguards

The safeguards are measures aimed at preventing the harm of fundamental social, economic, or environmental rights and the occurrence of negative impacts from the design and implementation of REDD+ activities. It also includes measures to improve the obtainment and distribution of benefits generated by REDD+ activities.

In the REDD+ project, these safeguards were assessed and monitored under the REDD+ Safeguards Tool, Version 1.1 (26/01/2023), as indicated below.

11.1 Safeguard 1

"That actions complement or are consistent with the objectives of national forest programs and relevant international conventions and agreements."

The actions implemented during the monitoring period complemented and were consistent with the objectives of national forest programs and relevant international conventions and agreements (refer to section 5 Compliance with Applicable Legislation).

11.2 Safeguard 2

"Transparent and effective national forest governance structures, taking into account national legislation and sovereignty.

Provide transparent and consistent information that is accessible by all relevant stakeholders and updated on a regular basis.

Be transparent and flexible to allow for improvements over time."

As part of the development and implementation of the project, workshops and General Assemblies have been held with the participation of community members and representatives. The workshops were developed with simultaneous translation to ensure the understanding of the project information by the participants and didactic materials (translated booklets) were used to facilitate the appropriation of the project information by all members of the community. General assemblies and workshops were also held in the Embera language with the Alto Orito and Simorna Indigenous Reserves. The evidence of the workshops and the didactic material can be found in the folders 5. Espacios participativos and 7. Cumplimiento legal.

Among the topics that have been addressed are the definition of the project's activities, the prioritization of the intervention strategy, among others (folder 5. Espacios participativos). In addition, the corresponding documents were sent to the community leaders. The project design document and the mandate contract were approved and ratified by the highest decision-making body of the indigenous reservations and their representatives (folder 9. Documentos confidenciales).

Finally, the process for the managing Petitions, Complaints and Claims (PQR) is consolidated in the document QC-QA Putumayo REDD+ Procedure V2.pdf, which can be consulted in folder 10. Procedimiento QC-QA. Similarly, the project has a person in charge of the management of PQRs in the REDD+ Committee, this mechanism was socialized during the implementation workshops.

11.3 Safeguard 3

"Respect for the knowledge and rights of indigenous peoples and members of local communities, by taking into account relevant international obligations, national circumstances and laws, and noting that the United Nations General Assembly has adopted the United Nations Declaration on the Rights of Indigenous Peoples"

The project's activities were defined and prioritized by the communities of the indigenous reserves. In this way, respect for governance structures, rights, identified needs and the approach defined by its members was guaranteed. During the participatory exercises, social mapping products were developed that made it possible to identify and locate the settlements that would participate in the development and implementation of the project, and that would benefit from the activities carried out (evidence provided for validation).

Among the activities defined during the implementation workshops and General Assemblies, priority was given to the strengthening of traditional agricultural production practices, traditional language recovery and the consolidation of the monitoring team to support territorial control. These activities are closely linked to the protection and recognition of culture, self-government and traditions (folders 5. Espacios participativos and 6. Actividades).

11.4 Safeguard 4

"The full and effective participation of relevant stakeholders, in particular indigenous peoples and local communities, in the actions referred to in paragraphs 70 and 72 of this decision."

The project, during the pre-feasibility, development and implementation phases, has involved all representatives of the indigenous reserves, community leaders and community members in the participation process for the formulation and implementation of the project, considering the applicable regulations and the organizational and governance structure of each of the indigenous reservations. The design of the intervention responds to the activities prioritized by the indigenous reserves which was framed in four main components, territorial governance, development of sustainable productive activities, social investment and forest monitoring.

The participation of community members in the design of the project was evidenced by the attendance lists of the REDD+ project formulation workshops. Similarly, the final approval of the project took place in General Assemblies of the indigenous reserves, which is the highest decision-making body. During the monitoring period, General Assemblies and implementation workshops for decision-making were held with the participation of members of all communities of the indigenous reserves (folder 5. Espacios participativos).

11.5 Safeguard 5

"That actions are consistent with the conservation of natural forests and biological diversity, ensuring that those referred to in paragraph 70 of this decision are not used for conversion of natural forests, but are instead used to incentivize the protection and conservation of forests and their ecosystem services, and to enhance other social and environmental benefits."

The project aims to conserve forests and reduce greenhouse gas emissions from deforestation. Within the activities of the project, the establishment of productive activities includes the adoption of management measures that allow the conservation and promotion of biological connectivity, it was also agreed that these activities will be

carried out in areas previously intervened in order to guarantee that the execution of the project does not result in changes in the vegetation cover.

The intervention strategy also covers other areas such as the preparation/updating of the Life Plan (A-11), preparation and/or updating of the Land Use Plan and the Environmental Management Plan (A-12), training in deforestation control and consolidation of forest protection families (A-14). These activities are aimed at protecting the forests of the territories and making efficient use of natural resources, as well as avoiding practices that pollute the soil or water sources.

Additionally, as part of the actions that were carried out during the monitoring period, cartographic products and analysis of maps and images were developed that allowed the determination of the area of stable forest in the project area (folder 3. Mapas). Likewise, the community members carried out territorial monitoring activities, such as monitoring routes (folder 6. Actividades).

The project does not require licensing, nor does it require applications for permits or authorizations for its execution.

11.6 Safeguard 6

"Actions to address the risks of reversals."

The first measure to address the risks of reversion consists of strengthening territorial control and management by indigenous reservations. Considering that the communities are committed to the implementation of the project and intend to maintain the necessary actions to guarantee the protection of their territory and culture over time, it is expected that the intervention will reduce and manage the risk of reversal and guarantee the sustainability of the results over time.

However, in order to mitigate the risk of project reversal and to comply with the requirements of the Permanence and Risk Management BCR Tool, version 1.1 of 2024, considering that the project belongs to the AFOLU sector, the registry platform (Global CarbonTrace) applies a discount of 20% of the total quantified GHG reductions for each verification period (this discount is applied automatically by the registry platform) to ensure that there is a buffer of VCUs that can offset the emissions that may occur if the risk materializes.

11.7 Safeguard 7

"Actions to reduce displacement of emissions."

The project defined a leakage area that recognizes the dynamics of mobilization of deforestation agents and monitoring mechanisms have been established for the permanence of the project, as well as the forest cover associated with the spatial limits defined for the project. In addition, the project includes the development of activities aimed at strengthening capacities to improve forest monitoring and surveillance, which are also complemented by the social control exercised by community members.

The leakage management and control activities involve the full and effective participation of the community in the design and implementation of the project. The leakage management and monitoring defined by the project is based on the following elements:

- Monitor forest cover present in leakage area (activity A-15, indicator A-15.4)
- Involve community members in the productive activities of the project, to reduce the need to participate in deforestation processes inside and outside the territory and contribute to the appropriation of the project (activity A-2, indicators A-2.1, A-2.2; activity A-3, indicators A-3.3 and A-3.4)
- Articulate the exercises of territorial planning, sectoral regulatory framework and carry out control and surveillance actions as appropriate (Activity A-12, indicators A-12.2).

During the monitoring period, no displacement of emissions occurred since the deforestation that occurred in the leakage area was lower than the estimated in the baseline scenario (folders 3. Mapas, and 4. Cálculos).

12 Special categories, related to co-benefits

The project does not apply to special categories.

13 Implementation of the project

13.1 Implementation status of the project

The implementation status presented below corresponds to the period from the project start date to the end of this monitoring period. It is important to note that according to the BCR MRV Tool, Version 1.0 (13/02/2023), the quantification period of the project is 30 years. Furthermore, the monitoring, measurement and reporting of the project activities and emission reductions have been carried out during the quantification period of the project, and the verifications have been carried out with a 1.5-year period difference, considering that the previous verification requested was approved on 28/03/2023 in accordance with the verification statement (available in the project registry).

Date	Milestone(s) in the project's development and implementation
10/01/2020	Start date
10/01/2020-31/12/2021	Beginning of activities implementation First monitoring period
09/06/2022	Project inscription date
2022-2023	Validation and verification
28/03/2023	Validation and verification approval
01/01/2022-31/08/2024	Investment for the development of REDD+ activities Activities implementation Second monitoring period Addition of the second instance of the project
2024	2nd verification

Within the REDD+ activities, forest cover monitoring is one of the main performance indicators of the project. During the monitoring period, changes in forest cover were verified, as well as the implementation of REDD+ activities, which were defined to comprehensively address the problem of deforestation and strengthen the community's initiative to protect their territories.

The conservation activities voluntarily implemented by the communities are an integral part of the project implementation. These activities are the result of the community's expressed interest in accessing the economic benefits of carbon markets and achieving results that demonstrate the community's commitment.

While the REDD+ strategy has shown significant progress in the implementation of activities, some activities remain inactive to date (A-8, A-9, A-12, A-16, and A-17). This delay does not indicate a lack of commitment, but rather reflects the community's decision-making process as outlined in its self-governance structure. The General Assembly, as the highest decision-making body, ensures that project activities are in line with each community's priorities and are implemented at their discretion.

In addition, some of the indicators defined to show progress in the implementation of activities were not reported during the monitoring period because of the nature of the activities carried out, or because it was not necessary to carry out actions that would allow to show progress in an indicator (i.e. update of the Indigenous Life Plan), or because the indicator represents the final product or result expected to be obtained with the implementation of the activity (in the medium and long term). The indicators that showed implementation progress from 01/01/2022 to 31/08/2024 are presented below:

<table>
<tr><td>Activity ID</td><td>A-2</td></tr>
<tr><td>Indicator ID</td><td>A-2.1</td></tr>
<tr><td>Indicator name</td><td># of people involved in the development of productive systems who participate in training or training sessions.</td></tr>
<tr><td>Indicator type</td><td>Result</td></tr>
<tr><td>Goal</td><td>All the people involved in the development of production systems participate in training or training days.</td></tr>
<tr><td>SDG compliance</td><td>SDG1 (productive projects), SDG2 (productive projects), SDG8 (productive projects), SDG13 (emission reduction), SDG15 (protection of forest habitat)</td></tr>
<tr><td>Unit of measurement</td><td>Number</td></tr>
<tr><td>Monitoring methodology</td><td>Number of community members attending training sessions for the management of prioritized production systems and reporting the value obtained.</td></tr>
<tr><td>Monitoring frequency</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>• AATIs Representatives
• Community Representatives
• ARACEA</td></tr>
<tr><td>Indicator result in the reporting period</td><td>
<table>
<tr><th>Date of workshop</th><th>Attendees</th></tr>
<tr><td colspan="2">Alto Orito Indigneous Reserve</td></tr>
<tr><td>20 & 22-12-2023</td><td>68</td></tr>
<tr><td>01-05-2024</td><td>61</td></tr>
<tr><td>06-07-2024</td><td>136</td></tr>
<tr><td colspan="2">Nukanchipa Indigenous Reserve</td></tr>
<tr><td>12-12-2023</td><td>17</td></tr>
<tr><td>20-02-2024</td><td>19</td></tr>
<tr><td>13-04-2024</td><td>15</td></tr>
<tr><td>20-06-2024</td><td>12</td></tr>
<tr><td>27-06-2024</td><td>20</td></tr>
<tr><td colspan="2">Simorna Indigenous Reserve</td></tr>
<tr><td>17-11-2024</td><td>72</td></tr>
<tr><td>22-12-2023</td><td>52</td></tr>
<tr><td>13 & 15-12-2023</td><td>20</td></tr>
<tr><td>08-03-2024</td><td>66</td></tr>
<tr><td>03-05-2024</td><td>40</td></tr>
</table>
</td></tr>
<tr><td>Documents to support information</td><td>• Photo and/or video recording:
Folder 5. Espacios participativos
Folder 6. Actividades/Proyectos productivos
• Lists of attendance at training workshops for the management of prioritized production systems:
Folder 5. Espacios participativos
Folder 6. Actividades/Proyectos productivos
• Meeting minutes:
Folder 5. Espacios participativos</td></tr>
</table>

	Folder 6. Actividades/Proyectos productivos
Observations	

Activity ID	A-2
Indicator ID	A-2.2
Indicator name	# of women involved in the development of productive systems who participate in training or training days.
Indicator type	Result
Goal	All women involved in the development of production systems participate in trainings or training days.
SDG compliance	SDG1 (productive projects), SDG2 (productive projects), SDG5 (women participation), SDG8 (productive projects), SDG13 (emission reduction), SDG15 (protection of forest habitat)
Unit of measurement	Number
Monitoring methodology	Number of women who are part of the community who attend the training sessions for the management of prioritized production systems and the value obtained is reported.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	

Date of workshop	Attendees
Alto Orito Indigneous Reserve	
20 & 22-12-2023	31
01-05-2024	28
06-07-2024	43
Nukanchipa Indigenous Reserve	
12-12-2023	5
20-02-2024	8
13-04-2024	9
27-06-2024	16
Simorna Indigenous Reserve	
17-11-2024	30
22-12-2023	25
13 & 15-12-2023	11
08-03-2024	26
03-05-2024	12

Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos Folder 6. Actividades/Proyectos productivos • Lists of attendance at training workshops for the management of prioritized production systems:

	Folder 5. Espacios participativos Folder 6. Actividades/Proyectos productivos • Meeting minutes: Folder 5. Espacios participativos Folder 6. Actividades/Proyectos productivos
Observations	

Activity ID	A-2
Indicator ID	A-2.3
Indicator name	# of productive activities identified
Indicator type	Product
Goal	The productive activities to be invested in the project are identified.
SDG compliance	SDG1 (productive projects), SDG2 (productive projects), SDG8 (productive projects), SDG13 (emission reduction), SDG15 (protection of forest habitat)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of productive activities identified under investment within the framework of the project is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigneous Reserve:** 1 activity (*chagras*) • **Nukanchipa Indigenous Reserve:** 1 activity (*chagras/seed exchange*) • **Simorna Indigenous Reserve:** 4 activities (*chagras*, minor species, orchards)
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance at training workshops for the management of prioritized production systems: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos
Observations	

Activity ID	A-3
Indicator ID	A-3.3
Indicator name	# of people who improve their income with productive systems
Indicator type	Impact

Goal	Project activities allow community members to improve their income.
SDG compliance	SDG1 (productive projects), SDS2 (productive projects), SDG8 (productive projects), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, two aspects are taken into account: Number of beneficiaries who improve income with prioritized production systems.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigneous Reserve:** 65 people • **Nukanchipa Indigenous Reserve:** 34 people • **Simorna Indigenous Reserve:** 91 people
Documents to support information	• Records of the income: Folder 6. Actividades/Proyectos productivos • Payment receipts: Folder 6. Actividades/Proyectos productivos
Observations	

Activity ID	A-3
Indicator ID	A-3.4
Indicator name	# of women who improve their income with productive systems
Indicator type	Impact
Goal	Project activities enable women community members to improve their income.
SDG compliance	SDG1 (productive projects), SDG2 (productive projects), SDG5 (women's participation), SDG8 (productive projects), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	Number of women who improve income with prioritized production systems.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigneous Reserve:** 7 women • **Nukanchipa Indigenous Reserve:** 18 women

	• **Simorna Indigenous Reserve:** 91 women
Documents to support information	• Records of the income: Folder 6. Actividades/Proyectos productivos • Payment receipts: Folder 6. Actividades/Proyectos productivos
Observations	

Activity ID	A-3
Indicator ID	A-3.5
Indicator name	# of productive activities developed or improved
Indicator type	Product
Goal	At least one productive activity is implemented.
SDG compliance	SDG15 (protection of forest habitat by promoting biodiversity)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the productive activities that are developed or improved during the project are identified and quantified.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigneous Reserve:** 1 activity (*chagras*) • **Nukanchipa Indigenous Reserve:** 1 activity (*chagras/seed exchange*) • **Simorna Indigenous Reserve:** 4 activities (*chagras*, minor species, orchards)
Documents to support information	• Visits report: Folder 6. Actividades/Proyectos productivos • Minutes of meetings and workshops: Folder 6. Actividades/Proyectos productivos • Photographic record: Folder 6. Actividades/Proyectos productivos
Observations	

Activity ID	A-4
Indicator ID	A-4.1
Indicator name	# Records of controls or maintenance carried out/# Expected controls or maintenance
Indicator type	Result
Goal	Production systems receive the required controls or maintenance.

SDG compliance	SDG1 (productive projects), SDG2 (productive projects), SDG8 (productive projects)
Unit of measurement	Percentage (%)
Monitoring methodology	The beneficiaries in charge of the activities of sustaining the productive systems keep records of maintenance activities. For the measurement and reporting of this indicator, the number of controls carried out in the production systems is quantified and divided by the number of controls required or planned.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigneous Reserve:** 100%
Documents to support information	• Visits report: Folder 6. Actividades/Proyectos productivos/RI Alto Orito, file 1. INFORME DE LA CHAGRA.pdf • Photographic record: Folder 6. Actividades/Proyectos productivos/RI Alto Orito, file 1. INFORME DE LA CHAGRA.pdf • Records of maintenance activities to production systems: Folder 6. Actividades/Proyectos productivos/RI Alto Orito, file 1. INFORME DE LA CHAGRA.pdf
Observations	

Activity ID	A-5
Indicator ID	A-5.1
Indicator name	# of people participating in meetings or workshops on social investment issues
Indicator type	Result
Goal	The processes of identification and prioritization of social investment are carried out in a participatory manner.
SDG compliance	SDG1 (social investment), SDG3 (investment in health), SDG4 (investment in education), SDG6 (investment in water and sanitation9), SDG11 (investment in housing), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of participants attending the meetings, workshops or surveys carried out for the identification and prioritization

<table>
<tr><td></td><td>of social investment to be developed or improved with the project is taken into account.</td></tr>
<tr><td>Monitoring frequency</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>• AATIs Representatives
• Community Representatives
• ARACEA</td></tr>
<tr><td>Indicator result in the reporting period</td><td>
<table>
<tr><th>Date of workshop</th><th>Attendees</th></tr>
<tr><td colspan="2">Alto Orito Indigneous Reserve</td></tr>
<tr><td>20 & 22-12-2023</td><td>68</td></tr>
<tr><td colspan="2">San Andrés Indigenous Reserve</td></tr>
<tr><td>10-11-2023</td><td>136</td></tr>
<tr><td colspan="2">Simorna Indigenous Reserve</td></tr>
<tr><td>17-11-2024</td><td>72</td></tr>
<tr><td>22-12-2023</td><td>52</td></tr>
<tr><td>13 & 15-12-2023</td><td>20</td></tr>
</table>
</td></tr>
<tr><td>Documents to support information</td><td>• Photo and/or video recording:
Folder 5. Espacios participativos
• Lists of attendance:
Folder 5. Espacios participativos
• Meeting minutes:
Folder 5. Espacios participativos</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-5
Indicator ID	A-5.2
Indicator name	# of women participating in meetings or workshops on social investment issues.
Indicator type	Result
Goal	The processes of identification and prioritization of social investment are carried out in a participatory manner.
SDG compliance	SDG1 (social investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (female participation), SDG6 (investment in water and sanitation9), SDG11 (investment in housing), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of women who attend the meetings, workshops or surveys carried out for the identification and prioritization of social investment to be developed or improved with the project is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives

<table>
<tr><td></td><td>

- Community Representatives
- ARACEA

</td></tr>
<tr><td>Indicator result in the reporting period</td><td>
<table>
<tr><th>Date of workshop</th><th>Attendees</th></tr>
<tr><td colspan="2">Alto Orito Indigneous Reserve</td></tr>
<tr><td>20 & 22-12-2023</td><td>31</td></tr>
<tr><td colspan="2">San Andrés Indigenous Reserve</td></tr>
<tr><td>10-11-2023</td><td>94</td></tr>
<tr><td colspan="2">Simorna Indigenous Reserve</td></tr>
<tr><td>17-11-2024</td><td>30</td></tr>
<tr><td>22-12-2023</td><td>25</td></tr>
<tr><td>13 & 15-12-2023</td><td>11</td></tr>
</table>
</td></tr>
<tr><td>Documents to support information</td><td>

- Photo and/or video recording:
  Folder 5. Espacios participativos
- Lists of attendance:
  Folder 5. Espacios participativos
- Meeting minutes:
  Folder 5. Espacios participativos

</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-6
Indicator ID	A-6.1
Indicator name	# of people participating in meetings or workshops on transport issues
Indicator type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
SDG compliance	SDG1 (social investment), SDG3 (transport for health), SDG8 (transport to produce products), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of participants attending meetings, workshops or surveys carried out to identify and prioritize investment in transport is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**Date of workshop** / **Attendees** **San Andrés Indigenous Reserve** 10-11-2023 / 136 **Simorna Indigenous Reserve** 17-11-2024 / 72

	22-12-2023	52
	13 & 15-12-2023	20
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos	
Observations		

Activity ID	A-6	
Indicator ID	A-6.2	
Indicator name	# of women participating in meetings or workshops on transport issues	
Indicator type	Result	
Goal	The identification and prioritization processes are carried out in a participatory manner.	
SDG compliance	SDG1 (social investment), SDG3 (transport for health), SDG8 (transport to produce products), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)	
Unit of measurement	Number	
Monitoring methodology	For the measurement and reporting of this indicator, the number of women who attend meetings, workshops or surveys carried out to identify and prioritize investment in transport is taken into account.	
Monitoring frequency	Annually	
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA	
Indicator result in the reporting period	**Date of workshop**	**Attendees**
	San Andrés Indigenous Reserve	
	10-11-2023	94
	Simorna Indigenous Reserve	
	17-11-2024	30
	22-12-2023	25
	13 & 15-12-2023	11
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos	
Observations		

Activity ID	A-6
Indicator ID	A-6.3
Indicator name	# of activities/elements that facilitate the mobilization of people
Indicator type	Product
Goal	Improves the mobilization of community members through the acquisition, construction or improvement of transportation elements or activities
SDG compliance	SDG1 (social investment), SDG3 (transport for health), SDG4 (investment in education in traditional medicine), SDG6 (investment in water and sanitation), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	The execution of project resources and the number of activities or acquisition of elements that favor the mobilization of people are verified.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**Simorna Indigneous Reserve:** 1 activity
Documents to support information	• Visits report: Folder 6. Actividades/Camino ancestral/RI Simorna • Photographic record: Folder 6. Actividades/Camino ancestral/RI Simorna • Records of activity implementation: Folder 6. Actividades/Camino ancestral/RI Simorna
Observations	The intervention consists of the improvement and adaptation of 800 meters of ancestral road, which serves as an access for the inhabitants of the Simorna Indigenous Reserve.

Activity ID	A-7
Indicator ID	A-7.1
Indicator name	# of people participating in meetings or workshops on education issues
Indicator type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.

SDG compliance	SDG1 (social investment), SDG4 (investment in education), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of participants attending the meetings or workshops held for the identification and prioritization of investment in relation to education is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**Date of workshop** / **Attendees** **San Andrés Indigenous Reserve** 10-11-2023 / 136
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos
Observations	

Activity ID	A-7
Indicator ID	A-7.2
Indicator name	# of women participating in meetings or workshops on education issues
Indicator type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
SDG compliance	SDG1 (social investment), SDG4 (investment in education), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of women who attend the meetings or workshops held to identify and prioritize investment in education is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**Date of workshop** / **Attendees** **San Andrés Indigenous Reserve**

	10-11-2023	94
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos	
Observations		

Activity ID	A-7
Indicator ID	A-7.4
Indicator name	# of funded instructors
Indicator type	Product
Goal	Improve the provision of educational services
SDG compliance	SDG1 (social investment), SDG4 (investment in education), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	Instructor Registration
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**San Andrés Indigneous Reserve:** 4 instructors
Documents to support information	• Contracts executed: Folder 6. Actividades/Recuperación lengua materna/RI Nukanchipa • Project investments: Folder 6. Actividades/Recuperación lengua materna/RI Nukanchipa
Observations	A total of 4 instructors were hired during the monitoring period to execute the activities related to the traditional language recovery project (1 etnodevelopment professional, 2 elders, 1 traditional medicine doctor)

Activity ID	A-10
Indicator ID	A-10.1
Indicator name	# of people participating in meetings or workshops on housing, water and sanitation issues
Indicator type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
Unit of measurement	Number

Monitoring methodology	For the measurement and reporting of this indicator, the number of participants attending the meetings or workshops held to identify and prioritize investment in housing, water and sanitation is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**Date of workshop** / **Attendees** **San Andrés Indigenous Reserve** 10-11-2023 / 136
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: • Folder 5. Espacios participativos
Observations	

Activity ID	A-10
Indicator ID	A-10.2
Indicator name	# of women participating in meetings or workshops on housing, water and sanitation issues
Indicator type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of women who attend meetings or workshops held to identify and prioritize investment in housing, water and sanitation is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	**Date of workshop** / **Attendees** **San Andrés Indigenous Reserve** 10-11-2023 / 94
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: • Folder 5. Espacios participativos

Observations	

Activity ID	A-11
Indicator ID	A-11.1
Indicator name	# of people participating in meetings or workshops on governance issues
Type of indicator	Result
Goal	The process of construction/updating of the Life Plan, Safeguards Plan and/or Community Plans is carried out in a participatory manner.
SDG compliance	SDG1 (social and productive investment), SDG2 (social and productive investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (women's participation), SDG6 (investment in water and sanitation9), SDG8 (better jobs and economic growth), SDG11 (investment in housing), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of participants in meetings or workshops related to governance issues is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Workshops:**

Date of workshop	Attendees
Alto Orito Indigneous Reserve	
07-07-2023	42
20 & 22-12-2023	68
Nukanchipa Indigenous Reserve	
12-12-2023	17
22-12-2023	10
20-02-2024	19
12-04-2024	52
Simorna Indigenous Reserve	
07-07-2023	42
17-11-2023	37
22-12-2023	52
13 & 15-12-2023	20

- **Alto Orito Indigenous Reserve:** 58 people

Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos • Activities report: Folder 6. Actividades/Guardia Indígena/RI Alto Orito
Observations	

Activity ID	A-11
Indicator ID	A-11.2
Indicator name	# of women participating in meetings or workshops on governance issues
Type of indicator	Result
Goal	The process of construction/updating of the Life Plan, Safeguards Plan and/or Community Plans is carried out in a participatory manner.
SDG compliance	SDG1 (social and productive investment), SDG2 (social and productive investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (women's participation), SDG6 (investment in water and sanitation9), SDG8 (better jobs and economic growth), SDG11 (investment in housing), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of women in meetings or workshops related to governance issues is taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Workshops:**

Date of workshop	**Attendees**
Alto Orito Indigneous Reserve	
07-07-2023	22
20 & 22-12-2023	31
Nukanchipa Indigenous Reserve	
12-12-2023	5
22-12-2023	5
20-02-2024	8

	12-04-2024	21
	Simorna Indigenous Reserve	
	07-07-2023	18
	17-11-2023	11
	22-12-2023	25
	13 & 15-12-2023	11
	• **Alto Orito Indigenous Reserve:** 23 people	
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos • Activities report: Folder 6. Actividades/Guardia Indígena/RI Alto Orito	
Observations		

Activity ID	A-11
Indicator ID	A-11.4
Indicator name	# Community Plans in implementation
Type of indicator	Result
Goal	Actions are implemented within the framework of compliance with the Community Plans of each reservation.
SDG compliance	SDG1 (social and productive investment), SDG2 (social and productive investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (women's participation), SDG6 (investment in water and sanitation9), SDG8 (better jobs and economic growth), SDG11 (investment in housing), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the reporting of this indicator, the number of Community Plans that are in implementation will be taken into account.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	1 plan under implementation (Simorna IR Organizative Plan, document available in folder 12. Planes y documentos de interés/KIPARA, file Plan Organizativo RI Alto Orito.pdf)
Documents to support information	• Registers of actions for the implementation of Community Plans:

	Folder 6. Actividades/Camino ancestral Folder 6. Actividades/Proyectos productivos/RI Simorna • Photo and/or video recording Folder 6. Actividades/Camino ancestral Folder 6. Actividades/Proyectos productivos/RI Simorna
Observations	During the monitoring period, projects such as the food security and path improvement contrubuted to the fulfillment of basic needs related to cultural identity and social investments prioritized in the indigenous reserve's organizational plan.

Activity ID	A-13
Indicator ID	A-13.1
Indicator name	# of people who participate in trainings, meetings or training sessions related to the management of chagras, language, medicine and ancestral culture
Type of indicator	Result
Goal	Strengthen the capacities of community members to maintain, recover and improve the elements of culture.
SDG compliance	SDG1 (productive investment), SDG2 (productive investment), SDG8 (better jobs and economic growth), SDG13 (reduced emissions), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	The number of community members attending trainings, meetings or training sessions related to language, medicine and ancestral culture is quantified.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Management of chagras:** Alto Orito Indigenous Reserve: 70 families Simorna Indigenous Reserve: 91 families • **Language recovery:** Nukanchipa Indigenous Reserve: 9 people
Documents to support information	• Training workshop attendance lists: Folder 6. Actividades/Proyectos productivos Folder 6. Actividades/Recuperación lengua materna

	• Meeting minutes and photographic record of the training sessions: Folder 6. Actividades/Proyectos productivos Folder 6. Actividades/Recuperación lengua materna • Photo and/or video recording: Folder 6. Actividades/Proyectos productivos Folder 6. Actividades/Recuperación lengua materna
Observations	

Activity ID	A-13
Indicator ID	A-13.4
Indicator name	Malocas constructed or suitable
Type of indicator	Product
Goal	Build or adapt the malocas that are necessary within the framework of territorial governance
SDG compliance	SDG15 (protection of forest habitat as it contributes to the exercise of territorial government)
Unit of measurement	Number
Monitoring methodology	The number of suitable or built malocas is quantified.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	1 traditional facility built
Documents to support information	• Records of adaptation or construction processes: Folder 6. Actividades/Casa cultural/RI Alto Orito • Meeting minutes and photographic record Folder 6. Actividades/Casa cultural/RI Alto Orito • Reports Folder 6. Actividades/Casa cultural/RI Alto Orito
Observations	

Activity ID	A-13
Indicator ID	A-13.6
Indicator name	# of families with established and/or improved chagras
Type of indicator	Result
Goal	Strengthen community members' access to traditional production systems
SDG compliance	SDG1 (productive investment), SDG2 (productive investment), SDG8 (better jobs and economic growth),

	SDG13 (reduced emissions), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	The number of families in the community that have established and/or improved traditional production systems (chagras) is quantified and the value is reported.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigenous Reserve:** 70 families • **Simorna Indigenous Reserve:** 91 families
Documents to support information	• Training workshop attendance lists: Folder 6. Actividades/Proyectos productivos • Meeting minutes and photographic record of the training sessions: Folder 6. Actividades/Proyectos productivos • Photo and/or video recording: Folder 6. Actividades/Proyectos productivos
Observations	

Activity ID	A-14
Indicator ID	A-14.1
Indicator name	# of people who participate in awareness-raising, meetings or training sessions on monitoring issues
Type of indicator	Result
Goal	Strengthen the capacities of community members for biodiversity identification, forest monitoring and deforestation control
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	Number of community members attending sensitizations, meetings or training sessions on forest monitoring and deforestation control.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	

Date of workshop	**Attendees**
Alto Orito Indigneous Reserve	
07-07-2023	42
20 & 22-12-2023	68
Nukanchipa Indigenous Reserve	

	12-12-2023	17
	22-12-2023	10
	20-02-2024	19
	San Andrés Indigenous Reserve	
	10-11-2023	136
	Simorna Indigenous Reserve	
	07-07-2023	42
	17-11-2023	72
	27-11-2023	26
	22-12-2023	52
	13 & 15-12-2023	20
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos	
Observations		

Activity ID	A-14	
Indicator ID	A-14.2	
Indicator name	# of women who participate in awareness-raising, meetings or training sessions on monitoring issues	
Type of indicator	Result	
Goal	Strengthen the capacities of women in communities for forest monitoring and deforestation control	
SDG compliance	SDG5 (female participation), SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)	
Unit of measurement	Number	
Monitoring methodology	Strengthen the capacities of women in communities for biodiversity identification, forest monitoring and deforestation control	
Monitoring frequency	Annually	
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA	
Indicator result in the reporting period	**Date of workshop**	**Attendees**
	Alto Orito Indigneous Reserve	
	07-07-2023	22
	20 & 22-12-2023	31
	Nukanchipa Indigenous Reserve	
	12-12-2023	5
	22-12-2023	5

	20-02-2024	8
	San Andrés Indigenous Reserve	
	10-11-2023	94
	Simorna Indigenous Reserve	
	07-07-2023	18
	17-11-2023	30
	27-11-2023	11
	22-12-2023	25
	13 & 15-12-2023	11
Documents to support information	• Photo and/or video recording: Folder 5. Espacios participativos • Lists of attendance: Folder 5. Espacios participativos • Meeting minutes: Folder 5. Espacios participativos	
Observations		

Activity ID	A-14
Indicator ID	A-14.3
Indicator name	Document of constitution or formalization of the Group of Ranger Families or the Indigenous Guard
Type of indicator	Product
Goal	Formalize the group of rangers or the indigenous guard.
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	The number of documents of constitution and formalization of the Group of Forest Ranger Families and / or Indigenous Guard is quantified.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	4 documents
Documents to support information	• Documents of formalization and constitution of the Group of Forest Ranger Families and / or Indigenous Guard: Folder 6. Actividades/Monitoreo
Observations	

Activity ID	A-14
Indicator ID	A-14.4

Indicator name	# of members belonging to the Ranger Family Group or the Indigenous Guard
Type of indicator	Product
Goal	Link community members in the ranger group or indigenous guard
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	For the measurement and reporting of this indicator, the list of the members of the Group of Forest Ranger Families and/or Indigenous Guard is taken.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	4 people (1 delegate per indigenous reserve)
Documents to support information	• List of members of the Group of Ranger Families and/or Indigenous Guard: Folder 6. Actividades/Monitoreo
Observations	

Activity ID	A-14
Indicator ID	A-14.6
Indicator name	Tours or expeditions
Type of indicator	Product
Goal	Carry out tours or expeditions to identify biodiversity and monitor the state of forest cover
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Number
Monitoring methodology	The development of tours or expeditions in the area of the indigenous reservation is verified in order to identify biodiversity and monitor the state of the forest cover present in the territory.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	• **Alto Orito Indigenous Reserve:** 4 surveillance routes • **Simorna Indigenous Reserve:** 11 surveillance routes

Documents to support information	• Evidence of the development of tours or expeditions in the territory: Folder 6. Actividades/Monitoreo/RI Alto Orito Folder 6. Actividades/Monitoreo/RI Simorna • Meeting minutes to define the schedule of tours or expeditions: Folder 6. Actividades/Monitoreo/RI Alto Orito Folder 6. Actividades/Monitoreo/RI Simorna • Programming of activities of the Group of families protecting the forest: Folder 6. Actividades/Monitoreo/RI Alto Orito Folder 6. Actividades/Monitoreo/RI Simorna
Observations	

Activity ID	A-15
Indicator ID	A-15.1
Indicator name	# hectares of standing forest in the project area
Type of indicator	Impact
Goal	Conserve forests present in indigenous reserves
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Area (ha)
Monitoring methodology	Evaluation of forest and non-forest maps according to BCR methodology
Monitoring frequency	Annually
Responsible for measurement	CARBO Sostenible
Indicator result in the reporting period	Jan-2022: 63,084.0 ha Aug-2024: 62,960.9 ha
Documents to support information	• Analysis of deforestation from maps: Folder 3. Mapas Folder 4. Cálculos
Observations	

Activity ID	A-15
Indicator ID	A-15.2
Indicator name	# of tons of CO2e not emitted
Type of indicator	Impact
Goal	Reduce GHG emissions
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Tons (tCO2e)
Monitoring methodology	For the measurement and reporting of this indicator, the area of standing forest present in the territory of the indigenous reservations is identified and estimated using

	Geographic Information Systems and satellite images of remote sensors. The applicable emission factor is then applied
Monitoring frequency	Annually
Responsible for measurement	CARBO Sostenible
Indicator result in the reporting period	430,403 tCO2e
Documents to support information	• Calculation media: Folder 4. Cálculos
Observations	

Activity ID	A-15
Indicator ID	A-15.5
Indicator name	# of hectares of standing forest in leakage area
Type of indicator	Impact
Goal	Monitor the progress of deforestation and its changes in cover in the leakage area
SDG compliance	SDG13 (emission reduction), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measurement	Area (ha)
Monitoring methodology	Evaluation of forest and non-forest maps according to BCR methodology
Monitoring frequency	Annually
Responsible for measurement	CARBO Sostenible
Indicator result in the reporting period	Jan-2022: 11,465.8 ha Aug-2024: 11,265.4 ha
Documents to support information	• Analysis of deforestation from maps: Folder 3. Mapas Folder 4. Cálculos
Observations	

Activity ID	A-15
Indicator ID	A-15.6
Indicator name	Meetings with public or private entities to review deforestation trends at project boundaries
Type of indicator	Result
Goal	Strengthen the processes of regional articulation of the reservation and identify opportunities to improve the exercise of governance based on joint management with private and public entities.
SDG compliance	SDG15 (protection of forest habitat), SDG17 (synergies for the achievement of objectives)
Unit of measurement	Number

Monitoring methodology	Number of meetings held with the aim of reviewing the problem of deforestation inside and outside the project boundaries, either with public or private entities.
Monitoring frequency	Annually
Responsible for measurement	• AATIs Representatives • Community Representatives • ARACEA
Indicator result in the reporting period	2 meetings
Documents to support information	• Meeting minutes: Folder 11. Gestión interinstitucional
Observations	

13.2 Changes after the GHG project registration

13.2.1 Temporary deviations

No temporary changes were made during the monitoring period.

13.2.2 Permanent Changes

13.2.2.1 Corrections

The following corrections were made to the project information and parameters were made during the monitoring period, which modified the ex-ante emission reduction estimate:

- Incorporation of the national circumstances values in the GHG reduction estimate corresponding to this monitoring period, according to the values reported in the latest approved FREL (MinAmbiente e IDEAM, 2024).
- The annual deforestation area in the project area and in the leakage area was fixed for the baseline scenario.
- Inclusion of the constant carbon emissions associated with the Soil Organic Carbon (COS) of the previously deforested area, so that SOC emissions were included in the baseline and with-project scenarios.

Emission reductions updated:

Year	Baseline Emissions (tCO2e)	Project emissions (tCO2e)	Leakage (tCO2e)	Total ER (tCO2e)
2020	158,954	47,686	2,850	108,417
2021	174,959	52,488	2,850	119,621
2022	190,119	57,036	3,226	129,857

Year	Baseline Emissions (tCO2e)	Project emissions (tCO2e)	Leakage (tCO2e)	Total ER (tCO2e)
2023	170,847	51,254	3,414	116,179
2024	184,366	55,310	3,602	125,454
2025	197,845	59,353	3,790	134,701
2026	211,262	63,378	3,978	143,906
2027	224,595	67,379	4,165	153,051
2028	190,662	57,199	4,353	129,110
2029	197,907	59,372	4,541	133,993
2030	199,672	59,901	4,529	135,241
2031	206,555	61,967	4,685	139,904
2032	213,439	64,032	4,840	144,568
2033	220,323	66,097	4,994	149,232
2034	227,207	68,162	5,146	153,898
2035	234,090	70,227	5,298	158,565
2036	240,974	72,292	5,449	163,233
2037	247,858	74,357	5,598	167,902
2038	254,742	76,423	5,747	172,573
2039	261,626	78,488	5,894	177,244
2040	252,827	75,848	5,853	171,126
2041	248,528	74,558	5,810	168,159
2042	243,944	73,183	5,767	164,994
2043	241,363	72,409	5,722	163,232
2044	238,493	71,548	5,677	161,268
2045	235,354	70,606	5,630	159,117
2046	231,969	69,591	5,583	156,795
2047	228,360	68,508	5,534	154,317
2048	227,655	68,297	5,485	153,874
2049	226,951	68,085	5,435	153,431
Reduction of annual average GHG emissions (tCO2e/year)	6,583,444	1,975,033	145,446	4,462,965
Total reductions in accounting period	219,448	65,834	4,848	148,766

See folder 4. Cálculos, file PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx

13.2.2.2 Permanent changes to the monitoring plan, BCR program methodologies in use, or other regulatory documents related to BCR program methodologies.

No permanent changes to the registered monitoring plan or any permanent deviations were applied during the monitoring period.

13.2.2.3 Changes to GHG project design

No changes to the project design of the project activity occurred during the monitoring period.

14 Grouped Projects

The project corresponds to a grouped project as it is indicated in section 5.1.1. of the Project Document (PD). However, no new instances were added during the monitoring period.

15 Monitoring system

15.1 Description of the monitoring plan

In accordance with BCR MRV Tool, V1.0 of 2023, monitoring activities were conducted following BCR REDD+ methodology approach and requirements as well as the monitoring plan of the project presented in the PD. The following table presents how the project covers each element regarding MRV aspects:

Section in BCR MRV Tool	Compliance	Evidence
Section 6) Principles	The Project has two guidelines to ensure application of these principles: the Quality Control and Quality Assurance procedure and the Administrative Mechanism.	- file *Procedimiento QC-QA Putumayo REDD+ v1.pdf* - file *Esquema Administración Putumayo REDD+_v1.pdf*
Section 7) Quantification and monitoring periods	The projections of the project cover 30 years. The quantification periods are less than five years (the monitoring period subject to verification was 2,67 years and the previous verification was carried out in 2022).	file *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx*
Section 8) Conservative approach and uncertainty management	The project uses national emission factor values and forest data. Uncertainty management is addressed according to BCR rules. The project uncertainty is presented in section 16.4 of this document and the reserve of carbon credits is applied in each verification process. Further details on data and parameter uncertainty management are provided in the	- file *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx* - file *Procedimiento QC-QA Putumayo REDD+ v1.pdf*

Section in BCR MRV Tool	Compliance	Evidence
	Quality Control and Quality Assurance procedure.	
Section 9) Monitoring Process: a) Methodology applicability conditions b) description of the monitoring system, data collection, procedures. c) information about data generation, aggregation, recording, calculation and reporting d) organizational structure, roles and responsibilities or personnel, and emergency procedures for the monitoring procedure e) parameters used for baseline, project reductions, leakage and other relevant required by the methodology. f) processes related to models and methods used to sampling and quality control. g) specific information on how data and parameters will be monitored	a) The conditions for the application of the REDD+ methodology and its compliance are described in section 2 of the PD. There were no changes during the monitoring period. b) The complete monitoring system is presented in section 13 of the PD (including monitoring methodology, frequency, responsible, among others), and includes the Quality Control and Quality Assurance procedure, and the Administrative Mechanism for the project. c) Data generation is described in project document; Calculations, aggregation, recording and reporting follow each equation defined in the REDD+ methodology (see file *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx)* and each variable required and applied by the methodology is described in section 16.2 of this document. d) The Quality Control and Quality Assurance procedures and the Administrative Mechanism describe the organizational structure, roles, responsibilities, and procedures for dealing with special situations. e) Each variable required and used to define the baseline, project reductions, leakage and other specific variables are described in section 13 of the PD and section 16.2.1 of the Monitoring report. f) All models and methods considered in the project follow the methodological equations and principles and are described in section 13.7 of the PD, *and* reductions estimations in file *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx* g) The data monitoring plan is described in Section 13 of the PD and Section 16.2.2 of this document. Each indicator defined to report the project results includes the methodology for measurement.	- file *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx* - file *PDD Putumayo REDD+_BioCarbon_V5_28032023.pdf* - file *Procedimiento QC-QA Putumayo REDD+ v1.pdf*

Section in BCR MRV Tool	Compliance	Evidence
Section 10) Monitoring plan	The monitoring plan is presented in section 13 of the PD and has already been validated by a Conformity Assessment Body. The monitoring of the parameters used to quantify the baseline, the project and the leakage is presented in sections 16.2.1 and 16.2.2.	

15.2 Data and parameters to quantify the reduction of emissions

15.2.1 Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors

Data / Parameter	CTeq
Data unit	t CO2e/ha
Description	Net greenhouse gas emissions in the baseline from unplanned deforestation
Source of data	Forest Reference Emissions Level (FREL) for Andean forests. Minambiente e IDEAM, 2019.
Value applied	349
Justification of choice of data or description of measurement methods and procedures applied	Carbon emissions are estimated according to carbon stock content after deforestation. Aboveground and belowground biomass are assumed to be released in the year of deforestation, and soil organic carbon is assumed to be progressively released at an annual rate of 1/20.
Purpose of data	Calculation of baseline and project emissions within project and leakage area.
Comments	

Data / Parameter	Forest Cover in Reference Region in 2009
Data unit	Ha
Description	Geographic identification of forest cover in the reference region at the beginning of the reference period
Source of data	Remote sensing data
Value applied	15,645.1
Justification of choice of data or description of	Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.

measurement methods and procedures applied	
Purpose of data	Determination of baseline scenario Calculation of project emissions
Comments	

Data / Parameter	Forest Cover in Reference Region in 2019
Data unit	Ha
Description	Geographic identification of forest cover in the reference region at the end of the reference period
Source of data	Remote sensing data
Value applied	14,865.2
Justification of choice of data or description of measurement methods and procedures applied	Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.
Purpose of data	Determination of baseline scenario Calculation of project emissions
Comments	

Data / Parameter	CSBaño
Data unit	Ha/year
Description	Total average area deforested per year during historical reference period in the reference region.
Source of data	Remote sensing data
Value applied	77.99
Justification of choice of data or description of measurement methods and procedures applied	Mean deforestation in the reference region across the historical reference period.
Purpose of data	Determination of baseline scenario in project area Calculation of baseline emissions in project area Calculation of project emissions in project area
Comments	

Data / Parameter	Project area at start date
Data unit	ha

Description	Map showing the location and cover of forest land within the project zone at the beginning of the crediting period.
Source of data	Satellite imagery used is adequate in terms of spatial resolution (less than 30 meters) and an appropriate scale (Landsat and Planet Scope).
Value applied	63,190.5
Justification of choice of data or description of measurement methods and procedures applied	Satellite imagery used is adequate in terms of spatial resolution (less than 30 meters) and an appropriate scale. Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.
Purpose of data	Calculate baseline emissions Calculate ex ante project emissions
Comments	

Data / Parameter	DAlb
Data unit	Ha/year
Description	Baseline deforestation in project area
Source of data	The parameter is based on the historical annual deforestation rate observed in the reference region.
Value applied	315
Justification of choice of data or description of measurement methods and procedures applied	According to equations proposed on the reference methodology of the BCR, the project baseline deforestation is based on the annual historical deforestation rate observed in the reference region during the reference period.
Purpose of data	Calculate baseline emissions Calculate ex ante project emissions
Comments	

Data / Parameter	National circumstances deforestation increase
Data unit	%
Description	Baseline deforestation in project area during project implementation is expected to increase due to local circumstances that accelerate forest conversion to other land uses and that are directly related to post-conflict agreements between national government and the guerrilla group FARC.
Source of data	2020 to 2022: Minambiente e IDEAM, 2019
Value applied	YEAR % of increase 2020 0,4459

	2021 0,4962 2022 0,5355
Justification of choice of data or description of measurement methods and procedures applied	BCR methodology determines that projects may adjust the baseline deforestation rates according to national circumstances related with post-conflict local dynamics. According to the national reference level of forest emissions (Minambiente e IDEAM, 2019; Minambiente e DIEAM, 2024), it was necessary to consider that during the following years after the peace agreements were signed between the national government and the armed group, deforestation rates increase respect historical trends. The project is within a territory where armed groups have historically operated and it is subject to all expected dynamics related with post-conflict dynamics, thus, deforestation is expected to increase above historical trends during the following years after peace agreements were signed. The percentage of adjustment is based on the lowest national and regional trend that deforestation is expected to increase after 2020.
Purpose of data	Calculate baseline emissions Calculate ex ante project emissions
Comments	

Data / Parameter	Forest Cover in the leakage area in 2009
Data unit	Ha
Description	Geographic identification of forest cover in the leakage area at the beginning of the reference period.
Source of data	Remote sensing data
Value applied	12,501.7
Justification of choice of data or description of measurement methods and procedures applied	Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.
Purpose of data	Determination of baseline scenario Calculation of project emissions
Comments	

Data / Parameter	Forest Cover in the leakage area in 2019
Data unit	Ha
Description	Geographic identification of forest cover in the leakage area at the beginning of the reference period.
Source of data	Remote sensing data

Value applied	11,623.2
Justification of choice of data or description of measurement methods and procedures applied	Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.
Purpose of data	Determination of baseline scenario Calculation of project emissions
Comments	

Data / Parameter	CSBf,año
Data unit	Ha/year
Description	Total average area deforested per year during historical reference period in the leakage area.
Source of data	Remote sensing data
Value applied	87.85
Justification of choice of data or description of measurement methods and procedures applied	Mean deforestation in the leakage area across the historical reference period.
Purpose of data	Determination of baseline scenario in project area Calculation of baseline emissions in project area Calculation of project emissions in project area
Comments	

Data / Parameter	DAf
Data unit	Ha/year
Description	Baseline deforestation in leakage area during project implementation.
Source of data	The parameter is based on the historical annual deforestation rate observed in the leakage area.
Value applied	89.84
Justification of choice of data or description of measurement methods and procedures applied	According to equations proposed on the reference methodology of the BCR, the leakage baseline deforestation is based on the annual historical deforestation rate observed in the leakage area during the reference period.
Purpose of data	Calculate baseline emissions Calculate ex ante project emissions
Comments	

Data / Parameter	Cab, tree
Data unit	tCO2/ha
Description	Carbon stock in aboveground biomass in trees in Andean forests
Source of data	Minambiente e IDEAM, 2019.
Value applied	265.6
Justification of choice of data or description of measurement methods and procedures applied	Regional biome data reported in the FREL is encouraged to be used to align with the national carbon accounting and attend the climate change mitigation guidelines.
Purpose of data	Emissions within Project boundaries
Comments	

Data / Parameter	Cbb, tree
Data unit	tCO2/ha
Description	Description Carbon stock in belowground biomass in trees
Source of data	Minambiente e IDEAM, 2019.
Value applied	60.3
Justification of choice of data or description of measurement methods and procedures applied	Regional biome data reported in the FREL is encouraged to be used to align with the national carbon accounting and attend the climate change mitigation guidelines.
Purpose of data	Emissions within Project boundaries
Comments	

Data / Parameter	$Csoc_{20años}$
Data unit	tCO2/ha
Description	Description Carbon stock in soil organic carbon in Andean forests
Source of data	Minambiente e IDEAM, 2019.
Value applied	23
Justification of choice of data or description of measurement methods and procedures applied	Regional biome data reported in the FREL is encouraged to be used to align with the national carbon accounting and attend the climate change mitigation guidelines.
Purpose of data	Emissions within Project boundaries
Comments	

15.2.2 Data and parameters monitored

Data / Parameter	National circumstances deforestation increase
Data unit	%
Description	Baseline deforestation in project area during project implementation is expected to increase due to local circumstances that accelerate forest conversion to other land uses and that are directly related to post-conflict agreements between national government and the guerrilla group FARC and the El Niño phenomenon (dry season).
Source of data	Minambiente e IDEAM, 2024.
Value applied	YEAR: % of increase 2023: 0.259 2024: 0.299 2025: 0.336 2026: 0.37 2027: 0.401
Justification of choice of data or description of measurement methods and procedures applied	BCR methodology determines that projects may adjust the baseline deforestation rates according to national circumstances related with post-conflict local dynamics. According to the national reference level of forest emissions (Minambiente e IDEAM, 2024), it was necessary to consider that during the following years after the peace agreements were signed between the national government and the armed group, deforestation rates increase respect historical trends. The project is within a territory where armed groups have historically operated and it is subject to all expected dynamics related with post-conflict dynamics, thus, deforestation is expected to increase above historical trends during the following years after peace agreements were signed. The percentage of adjustment is based on the lowest national and regional trend that deforestation is expected to increase after 2022.
Purpose of data	Calculate baseline emissions Calculate ex ante project emissions
Comments	

Data / Parameter	Project Forest Cover at the beginning and end of the monitoring period in the project area
Data unit	Ha

Data / Parameter	Project Forest Cover at the beginning and end of the monitoring period in the project area
Description	Map showing the location of forest land within the project area at the beginning and end of the monitoring period. If within the Project Area some forest land is cleared, the benchmark map shows the deforested areas at each monitoring event.
Source of data	Satellite images (Landsat and Planet Scope)
Value of monitored parameter	January 2022: 63,084 ha August 2024: 62,960.9 ha
Indicate what the data are used for	Calculation of project area emissions
Monitoring equipment	Computers and SIG software. By using satellite images and remote sensing to map forest and non-forest covering the Project Area it is determined if there are any variations in the forest cover in the project area. Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.
Frequency of monitoring/recording	Every 1 or 2 years with satellite images.
Calculation method	Following the methodology of FREL Colombia (Minambiente and IDEAM, 2019)
QA/QC procedures to be applied	Following the methodology of FREL Colombia (2019) the procedures are accurate and precise.

Data / Parameter	Project Forest Cover at the beginning and end of the monitoring period in the leakage area
Data unit	Ha
Description	Map showing the location of forest land within the leakage area at the beginning and end of the monitoring period. If within the leakage area some forest land is cleared, the benchmark map shows the deforested areas at each monitoring event.
Source of data	Satellite images (Landsat and Planet Scope)
Value of monitored parameter	January 2021: 11,465.8 ha August 2024: 11,265.4 ha
Indicate what the data are used for	Calculation of leakage area emissions
Monitoring equipment	Computers and SIG software. By using satellite images and remote sensing to map forest and non-forest covering the Project Area it is determined if there are any variations in the

Data / Parameter	Project Forest Cover at the beginning and end of the monitoring period in the leakage area
	forest cover in the project area. Calculated according to satellite images interpretation to identified forest cover using the FREL methodology to manage remote sensed imagery and process data.
Frequency of monitoring/recording	Every 1 to 3 years with satellite images.
Calculation method	Following the methodology of FREL Colombia (Minambiente and IDEAM, 2019)
QA/QC procedures to be applied	Following the methodology of FREL Colombia (Minambiente and IDEAM, 2019) the procedures are accurate and precise.

Data / Parameter	Project Forest Cover impacted by natural disturbance in the project area
Data unit	Ha
Description	Map showing the location of forest land impacted by natural disturbance in the project area during the monitoring period. If within the project area some forest has been loss due to natural disturbance, a benchmark map shows the impacted areas at each monitoring event.
Source of data	Satellite images (Landsat and Planet Scope)
Value of monitored parameter	0
Indicate what the data are used for	Calculation of project emissions
Monitoring equipment	Computers and SIG software. By using satellite images and remote sensing to map forest and non-forest covering the Project Area it is determined if there are any disturbances like fires or mass remotion on forest cover in the project area.
Frequency of monitoring/recording	Every 1 or 2 years with satellite images.
Calculation method	Calculated according to direct observation of phenomena in satellite images.
QA/QC procedures to be applied	Following direct observation of forest loss and post-deforestation land characteristics, the procedures are accurate and precise.

16 Quantification of GHG emission reduction / removals

16.1 Baseline emissions

- **Uncertainty of emissions estimations**

The uncertainty values of the 2019 FREL are used to complete and report the uncertainty assessment. The uncertainty in the estimates of project reductions is related to the activity data and emission factors. The BCR methodology stipulates that for the FREL values that are used, uncertainty estimation is not required, hence is already calculated and disclosed in the FREL report. The activity data for the project (deforestation and forest degradation) was calculated using the SMByC information, following the methodological approach described in the Digital Image Processing Protocol for the Quantification of Deforestation in Colombia V.2 of IDEAM (Galindo *et al* 2014). The emission factors (carbon contents per deposit) are the same used in the FREL report. The uncertainty values reported in this project are the same disclosed by IDEAM in the FREL document, which corresponds to 9% activity data, aboveground biomass at 2.1%, belowground biomass (2%) and soil organic carbon 2% (Minambiente and IDEAM, 2019). Using the equation for combining the uncertainties of various emission sources proposed by the IPCC (2006), the uncertainty of the emission factor was calculated. Using the equation for combining uncertainties of a single emission source, also proposed by IPCC (2006), the approximate error of the Project reductions was calculated.

i) Equation for combining the uncertainties of various emission sources.

$$t = \frac{\sqrt{(A \times a)^2 + (B \times b)^2 + (C \times c)^2}}{T}$$

where,

t: Total uncertainty; T: Total GHG emissions. A= emissions of category A, a= uncertainty of category A emissions, B= emissions of category B, b= uncertainty of category B emissions, …N= emissions of category N, n= uncertainty of category N emissions

a. Emission factor uncertainty:

Aboveground Biomass Andean biome: = 265 tCO2/ha/year

Below ground biomass: 60 tCO2/ha/year

Soil organic carbon: 23 tCO2/ha/year

Emission factor uncertainty = Root ((265 tCO2/ha/year * 2.1%) + (60 tCO2/ha/year * 2%) +(23 tCO2/ha/year * 2%))

Emission factor uncertainty = 2,1%

b. Activity data uncertainty:

The activity data was taken from the official information and methodology applied in the Forest and Carbon Monitoring System of Colombia (SMBYC). According to the FREL (IDEAM, 2019), the evaluation of the accuracy of the coverage changes maps included three aspects: i) estimates of the accuracy of the change, ii) estimates of the exchange area adjusted to eliminate the risk produced by classification errors and iii) confidence intervals associated with the estimation of accuracy parameters and coverage change area. The uncertainty results presented after applying this procedure correspond to:

Activity data uncertainty: 9%

ii) Equation for combining uncertainties of a single emission source.

$$U_{total} = \sqrt{U_1^2 + U_2^2 + \ldots + U_n^2}$$

where,

U total: Total uncertainty; U1 = percentage of uncertainty of each emissions source variable.

a. Uncertainty of Project reductions estimations:

Uncertainty of Project reductions estimations = Root $((2,1)^2+(9)^2$

Uncertainty of Project reductions estimations = 9.3%

Combining the uncertainties of the activity data and emission factors, the estimates of emission reductions were evaluated to have an uncertainty of 9.3%.

- **Annual historical deforestation in the reference region**

For the estimation of the deforestation rate, an analysis was made of the change in forest cover to non-forest between 2009 and 2019. The following equation was used to estimate the historical annual deforestation in the no-project scenario:

$$CSB_{lb} = \left(\frac{1}{t_2 - t_1}\right) \times (A_1 - A_2)$$

$$CSB_{lb} = \left(\frac{1}{2019 - 2009}\right) \times (15{,}645.1\ ha - 14{,}865.2\ ha)$$

$$CSB_{año} = 77.9\ ha$$

Donde:

CSB_{lb}	=	Annual change in forest area under scenario without project (ha) in reference region
t_2	=	End year of reference period
t_1	=	Starting year of the reference period
A_1	=	Forest area at initial time (ha)
A_2	=	Forest area at end time (ha)

- **Deforestation and baseline emissions in project area**

The baseline for deforestation in the project area was projected and defined based on the historical deforestation rate observed in the reference region. In addition, considering the national circumstances associated with the signing of peace agreements in Colombia and their potential effects on deforestation processes in areas such as where the project is located, in which the armed conflict has historically manifested, an additional parameter was included in the baseline equation to recognize that deforestation has increased in this area compared to the historical average observed.

The value of the increase of the annual change in the forest area for the years 2018 to 2022 in the project area is based on the lower value of the interval range of increase defined as a reference parameter for the national context and reported in the Reference Level of Forest Emissions - FREL (Minambiente and IDEAM, 2019). The values of the expected increase in the annual change in forest area by 2023 and 2024 are based on the reconstruction of the national circumstances' adjustment model used for the FREL. The values used are describe above and can be consulted in the file *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx.* The estimated projected deforestation in the scenario without project was made using the following equation:

$$CSB_{im} = CSB_{lb} \times \%\ national\ circumstances\ increase$$

$$CSB_{im} = 315\ ha \times \%\ national\ circumstances\ increase$$

Where:

CSB_{im}	=	Annual change in area covered by forest in project area (ha)
CSB_{lb}	=	Annual change in forest area on stage without project (ha)
% national circumstances increase	=	Percentage of increasing expected in year

The annual emission from deforestation in the baseline scenario is calculated from the following equation:

$$EA_{lb} = DA_{lb} \times CT_{eq} \times \%\ national\ circumstances\ increase$$

$$EA_{lb} = 315\ ha \times 349\ \frac{tCO2e}{ha} \times\ \%\ national\ circumstances\ increase$$

$$EA_{lb} = 109{,}934\ tCO2e\ \times \%\ increase$$

Where:

EA_{lb}	=	Annual issue in baseline scenario (tCO2/ha)
DA_{lb}	=	Annual historical deforestation in the baseline scenario (ha)
CT_{eq}	=	Carbon dioxide equivalent (tCO2e/ha)

During the monitoring period, the percentage of increase due to national circumstances corresponds to the following values: 1) 53.5% (year 2022) (Minambiente e IDEAM, 2019), 2) 25.9% (year 2023) and 29.9% (year 2024) (Minambiente e IDEAM, 2024).

- **Deforestation and baseline emissions in the leakage area**

To estimate deforestation in the leakage area, the following equation is used:

$$CSB_{lb,f} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{1lb,f} - A_{2lb,f}\right)$$

$$CSB_{lb,f} = \left(\frac{1}{2019 - 2009}\right) \times (12{,}501.7\ ha - 11.623\ ha)$$

$$CSB_{f,año} = 87.8\ ha$$

Where:

$CSB_{lb,f}$	=	Annual change in the forest cover in the leakage area, in without project scenario (ha)
t_2	=	End year of reference period
t_1	=	Starting year of the reference period
$A_{1lb,f}$	=	Forest area of the leakage area at the beginning of the reference period (ha)
$A_{2lb,f}$	=	Forest area of the leakage area at the end of the reference period (ha)

Based on the historical deforestation rate observed in the leakage area, the baseline for deforestation in the leakage area was projected and defined during project

implementation. The annual baseline deforestation was calculated and corresponds to the following:

$$CSB_{im,f} = CSB_{lb,f}$$

$$CSB_{im,f} = 81.68\ ha$$

Where:

$CSB_{im,f}$ = Annual change in the area covered by forest in the leakage area, on the stage with project (ha)

$CSB_{lb,f}$ = Annual change in the area covered by forest in the leakage area, on stage without project (ha)

The annual emission from deforestation in the leakage area in the baseline scenario is estimated from the following equation:

$$EA_{f,año} = DA_f \times CT_{eq}$$

Where:

$EA_{f,año}$ = Annual emission in the leak area (tCO2/ha)

DA_f = Historical annual deforestation in the leakage area (ha)

CT_{eq} = Total carbon dioxide equivalent (tCO2e/ha)

Year	***DAf***	***CTeq***	***$EA_{f,año}$***
2022	*81.68*	*349*	*28,505*
2023	*81.68*	*349*	*28,505*
August 2024	*54.45*	*349*	*19,003*

However, considering the emissions of carbon organic soil of previous years, the annual emission from deforestation in the leakage area in the baseline scenario is:

Year	***$EA_{f,año}$***
2022	*32,262*

2023	*34,140*
August 2024	*24,013*

- **Baseline emissions for the monitoring period**

The following table shows baseline emissions in the project area (PA) and leakage area (AF) during the monitoring period. Total emissions include soil organic carbon emissions ($Csoc_{20años}$) according to cumulative deforestation that occurred in previous years (see *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx*):

Year	***AP: Emissions Deforestation Baseline (tCO2e)***	***AF: Emissions Deforestation Baseline (tCO2e)***
2022	*190,119*	*32,262*
2023	*170,847*	*34,140*
August 2024	*122,911*	*24,013*

16.2 Project emissions/removals

- **Deforestation and emissions in the Project area**

Deforestation observed in the project area during the monitoring period was estimated using the following equation:

$$CSB_{proy,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{REDD+proy,1} - A_{REDD+proy,2}\right)$$

$$CSB_{proy,año} = \left(\frac{1}{2024.67 - 2022}\right) \times (63{,}084\ ha - 62{,}960.9\ ha)$$

$$CSB_{proy,año} = 46.14\ ha$$

Where:

$CSB_{proy,año}$	=	Annual change in forest area in project area (ha)
t_2	=	End year of monitoring period

t_1	=	Initial year of monitoring period
$A_{REDD+proy,1}$	=	Forest area in the project area at the start of the monitoring period (ha)
$A_{REDD+proy,2}$	=	Forest area in the project area at the end of the monitoring period (ha)

The annual emission from deforestation observed in the project area was calculated from the following equation:

$$EA_{REDD+proy,año} = DEF_{REDD+proy,año} \times tCO_{2e}$$

Where:

$EA_{REDD+proy,año}$	=	Annual issue in the project area (tCO2/ha)
$DEF_{REDD+proy,año}$	=	Annual deforestation in the project area (ha)
tCO_{2eq}	=	Total carbon dioxide equivalent (tCO2e/ha)

Year	***$DEF_{REDD+proy,año}$***	***tCO_{2e}***	***$EA_{REDD+proy,año}$***
2022	*46.14*	*349*	*16,102*
2023	*46.14*	*349*	*16,102*
August 2024	*30.76*	*349*	*10,734*

The summary of emissions in the project area during the monitoring period corresponds to the following table. Total emissions include soil organic carbon emissions ($Csoc_{20años}$) according to cumulative deforestation that occurred in previous years (see *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx*):

Year	***Deforestation emissions (tCO2e)***
2022	*18,552*
2023	*19,614*
August 2024	*15,308*

16.3 Leakages

- **Deforestation and emissions in the leakage area**

Deforestation observed in the leakage area during the monitoring period was estimated using the following equation:

$$CSB_{f,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{f,1} - A_{f,2}\right)$$

$$CSB_{f,año} = \left(\frac{1}{2024{,}67 - 2022}\right) \times (11{,}465.8\ ha - 11{,}265.4\ ha)$$

$$CSB_{f,año} = 75.13\ ha$$

Where:

$CSB_{f,año}$	=	Annual change in the area covered by forest in the leakage area (ha)
t_2	=	End year of monitoring period
t_1	=	Initial year of monitoring period
$A_{f,1}$	=	Forest area in the area of leakage at the start of the monitoring period (ha)
$A_{f,2}$	=	Forest area in the leakage area at the end of the monitoring period (ha)

The annual emission from deforestation observed in the leakage area is calculated from the following equation:

$$EA_{f,año} = \left(DEF_{f,año} \times tCO_{2eq}\right) - EA_{lb,f,año}$$

Where:

$EA_{f,año}$	=	Annual emission in the leak area (tCO2/ha)
$DEF_{f,año}$	=	Annual deforestation in the leak area (ha)
tCO_{2eq}	=	Total carbon dioxide equivalent (tCO2e/ha)
$EA_{lb,f,año}$	=	Annual emission of deforestation in the leakage area in the baseline scenario (tCO2e)

Year	***$DEF_{f,año}$***	***tCO_{2eq}***	***$EA_{lb,f,año}$***	***$EA_{f,año}$***

2022	*75.13*	*349*	*32,262*	*29,842*
2023	*75.13*	*349*	*34,140*	*31,570*
August 2024	*50.09*	*349*	*24,013*	*24,558*

The summary of emissions in the leakage area during the monitoring period corresponds to the following table. Subtracting the emissions generated in the monitoring period from baseline emissions, a negative value is obtained, indicating that emissions are lower than baseline emissions. Total emissions include soil organic carbon emissions ($Csoc_{20años}$) according to cumulative deforestation that occurred in previous years (see *PUTUMAYO REDD+_cálculos monitoreo_02122024.xlsx*):

Year	***Deforestation emissions in leakage area (tCO2e)***
2022	*-2,420*
2023	*-2,570*
August 2024	*545*

16.4 Net GHG Emission Reductions / Removals

Given that emissions in the leakage area during the monitoring period were lower than baseline emissions, no net leakage emissions are subtracted from the project area reductions.

Year	***Baseline emissions (tCO_2e)***	***Project emissions (tCO_2e)***	***Leakage emissions (tCO_2e)***	***Net GHG emission reductions (tCO_2e)***
01-01-2022 – 31-12-2022	*190,119*	*18,552*	*0*	*171,567*
01-01-2023 – 31-12-2023	*170,847*	*19,614*	*0*	*151,233*
01-01-2024 – 31-08-2024	*122,911*	*15,308*	*0*	*107,603*

Total	***483,877***	***53,474***	***0***	***430,403***

16.5 Comparison of actual emission reductions with estimates in the project document

When comparing the net GHG emission reductions achieved during the monitoring period (ex-post) with the estimated ex-ante reductions, the variation ranges from 19.5% to 21.9% in the implementation years. Part of this variation is because there are no leakage emissions attributable to project implementation and therefore no leakage discounts have been applied to the total project emissions reductions.

It is also important to note the increased commitment of the community to protect the forests present in their territories and reduce land use change. The results are close to what was initially expected but have gone further because the community has increased their effort to reduce pressure on forests and has continued with conservation activities. The trend of deforestation has remained low since the beginning of the project, indicating a slower process of forest loss compared to historical trends and a greater impact of the project's strategy to control it. The results are positive in terms of natural forest cover maintenance over time, which is an incentive to continue and strengthen the efforts and activities of the local communities to protect their territory.

Year	***Baseline emissions (tCO2e)***	***% reduction estimated ex-ante***	***% reduction observed ex-post***	***Observed variation***
01-01-2022 – 31-12-2022	*190,119*	*68.3%*	*90.2%*	*21.9%*
01-01-2023 – 31-12-2023	*170,847*	*68%*	*88.5%*	*20.5%*
01-01-2024 – 31-08-2024	*122,911*	*68%*	*87.5%*	*19.5%*

16.6 Remarks on difference from estimated value in the registered project document

There were no increases in GHG emission reductions during the monitoring period due to changes in information or parameters of the project scenario described in the project document. The initial reduction estimates for 2023 and 2024 did not include the national circumstances in the baseline estimation, as in the first years, so the national circumstances values were included in the GHG reduction estimation corresponding to this monitoring period according to the values reported in the last FREL (MinAmbiente e IDEAM, 2024).

In addition, the area of forest loss was not fixed for the estimation of the baseline in the project area and in the leakage area, so that the baseline deforestation showed a progressive decrease over time, proportional to the decrease in the forest cover in the project area and in the leakage area, respectively, which was also adjusted in the current monitoring period. The annual deforestation area was fixed in both areas, this allowed the proper estimation of the baseline deforestation in the project and leakage areas to determine project performance.

Finally, the ex-ante emissions were modified to reflect the progressive release of Soil Organic Carbon (SOC) from the deforested areas. The ex-ante estimates did not include the constant carbon emissions associated with the SOC of the previously deforested area, so in this monitoring period they have been properly updated and the SOC emissions were included in the baseline and with-project scenarios.

The parameters and baseline information correspond to the same elements recorded in the project design, but the updating of the variables mentioned above led to changes in the ex-ante emission estimates compared to the registered project document.

NOTE: This Monitoring Report (MR) shall be completed following the instructions included. However, it is important to highlight that these instructions are complementary to the BCR STANDARD, and the Methodology applied by the project holder, in which more information on each section can be found.