

JOINT VALIDATION & VERIFICATION REPORT

Treatment of non-hazardous industrial waste to obtain Biocompost

PROJECT ID: BCR-AR-763-13-001

ASOCIACIÓN DE NORMALIZACIÓN Y CERTIFICACIÓN, S.A. DE C.V.





Validation & Verification Report					
Project Title	Treatment of non-hazardous industrial waste to obtain Biocompost.				
Project ID	BCR-AR-763-13-001				
Project holder	WORMS ARGENTINA S.A.				
Project Type/Project activity	Waste Management and Disposal / Use or Replacement of Technology to Eliminate or Reduce GHG Generation in Solid Waste Treatment Systems				
Grouped project	Does not apply				
Version number of the Project Document to which this report applies	Version 2.				
Applied methodology	AMS.III.F, Avoid methane emissions through composting, Version 12.0 - Sectoral scope(s): 13.				
Project location	Country: Argentina Region: Santa Fe City: Arroyo Seco				
Project starting date	01/04/2018				
Quantification period of GHG emissions reductions/removals	01/04/2018 to 31/03/2028				
Estimated total and mean annual amount of GHG emission reductions/removals	Total estimated GHG reductions: 123,314 tCO2e Average annual GHG reductions: 12,331 tCO2e/year				
Monitoring period	01/04/2018 to 31/03/2023				
Total amount of GHG emission reductions/removals	Total reductions: 59,574 tCO2e Annual average: 11,915 tCO2e/year				
Contribution to Sustainable Development Goals	9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.				



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	11. Make cities and human settlements inclusive, safe, resilient and sustainable.					
	12. Ensure sustainable consumption and production patterns.					
	13. Take urgent action to combat climate change and its impacts.					
Special category, related to cobenefits	Does not apply					
Version and date of issue	Version 2.0					
Work carried out by	Chief Verifier: Excalibur Acosta. Verifier: Nancy Adriana Barrera Independent Reviewer: Janai Monserrat Hernández					
Approved by	Joel Miguel Ramirez.					



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1 Executive summary

The project Treatment of non-hazardous industrial waste to obtain Biocompost, proposed by Worms Argentina S.A., belongs to the Waste management and disposal sector, focused on the treatment of non-hazardous organic waste from biodiesel, oil and cellulose plants, dairy industry, breweries and agroindustry that produce GHG in the industrial belt region of Greater Rosario (Rosario - San Lorenzo - Puerto General San Martín - Timbúes), capacity of 2,450.82 tons per month average, applying composting. The accreditation period is contemplated for 10 years. The AMS.III.F methodology, avoid methane emissions through composting, Version 12.0, has been applied to calculate the estimated reduction of GHG emissions.

The scope of the GHG project Validation and Verification is under the BioCarbon Registry includes GHG project boundaries, physical infrastructure, activities, technologies and processes, GHG sources, GHG types and reporting period (01/04/2018 to 31/03/2023). For GHG declarations containing emission reductions it includes the material side effects, baseline (verification) and baseline (validation) scenarios described in the Validation and Verification Plan (FOROVV-P01.26).

ANCE conducted a validation and documentary verification with a duration of seven working days, prior to the site visit of the GHG reduction project prepared by Worms Argentina S.A., under an approach based on the existing risk analysis of incurring errors, omissions or misrepresentations by the organization. The site visit took place on December 5 and 6, 2023.

The activities associated with the documentary verification included: a sampling plan, risk analysis of the sampled sources, verification plan and a reproduction of the emission calculations considering emission factors, global warming potentials, conversion factors and calorific powers; analyzing in turn, the consistency of the energy consumption data collected according to the calculation base and complementary documents provided by the organization, through Worms Argentina S.A.

During the review of the information, ANCE found 8 findings: 3 corrective actions and 5 qualifications. After reviewing the documentation and explanations provided by the project owner, all findings were closed in a clear and transparent manner.

2 Objective, scope and criteria

The main objective of the validation and verification audit was to evaluate the controls associated with the information system and the data related to the Greenhouse Gas (GHG) emission reductions reported by WORMS ARGENTINA S.A. This evaluation was carried out by reviewing the input information during the documentary and on-site phase activities, with the purpose of:



- Confirm that the project, its activities, methods and procedures, as described in the PDD WORMS /I/ document and its corresponding annexes, comply with the criteria established in section 2.1 of this report.
- Verify that the information related to the declaration of the GHG project and the Emission Sources associated to it, are duly supported.
- Ensure that information on reported GHG emission reductions consistently demonstrates the veracity of such reductions.

In summary, the validation and verification audit focused on ensuring the integrity and reliability of the information related to the project and its impacts on GHG emissions, ensuring compliance with the standards established in section 2.1 of the report.

2.1 Criteria of Validation / verification

ANCE developed a validation and verification plan and a sampling plan to ensure that all project information and documentation was reviewed, including procedures and criteria for the project, baseline, quality control and assurance, risk management and verification documents.

Evidence included information on internal management controls, calculation procedures, monitoring, quality assurance procedures, compliance with local laws, as well as methodologies and tools used to calculate reductions, formulas for calculating reductions, monitoring equipment, data management and collection, and qualitative data.

The conformity of the validation and verification criteria was evaluated with respect to the following:

- a) Protocol: Standard BCR, version 3.2, September 23.2023.
- b) Validation and Verification Manual Greenhouse Gas Projects;
- c) Methodology: AMS.III.F, Avoid methane emissions through composting, Version 12.0
- d) ISO Standard:
- e) ISO 14064-2 Greenhouse gases. Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements.
- f) ISO 14064-3 Greenhouse gases. Part 3: Specification with guidance for the verification and validation of greenhouse gas statements.

2.2 Scope of the Project Validation and verification

The scope of the project validation and verification is in accordance with the following documents:



- 1. BCR Standard Version 3.2. September 23, 2023;
- 2. Validation and Verification Manual Greenhouse Gas Projects 8.1 General requirements;
- 3. criteria of ISO 14064-2:2019 and;
- 4. the rules, procedures, methodologies and methodological tools of the Clean Development Mechanism: AMS.III.F, Avoid methane emissions through composting, Version 12.0 Sectoral scope(s): 13.

3 Validation and verification planning

3.1 Validation and verification plan

The Validation and Verification Plan for the Treatment of non-hazardous industrial waste to obtain Biocompost project was executed in accordance with the BCR Version 3.2 scope, September 23, 2023, and those established in the ISO 14064-3 standard. This covers the limits of the project that focuses on the treatment of non-hazardous industrial waste to obtain Biocompost, as well as the physical infrastructure (located in Arroyo Seco, Santa Fe, Argentina), activities, technologies and processes, Greenhouse Gas Emission Sources, types of Greenhouse Gases (GHG) and the monitoring report, the Evidence Collection Plan (sampling), risk analysis, audit team, level of assurance, materiality, validation and verification criteria and activities.

The validation and verification plan were sent before of the on-site visit, this document include the assignment competent personnel to carry out the activities and preparation of validation or verification plan, including objectives and scope, validation or verification team (roles and responsibilities), duration of validation or verification activities, specific requirements, and the level of assurance and materiality, see <u>Annex 4</u>.

Table 1. Project boundary.

PROJECT BOUNDARY							
GHG sources, sinks and reservoirs	Reduction of emission Increase of removal		al				
(SSRs) or project technologies	Direct	Indi	rect	Di	rect		Indirect
Landfill	Χ			N	I.A.		N.A.
Composting site (CH ₄)	Χ			N	I.A.		N.A.
Composting site (N₂O)	Χ			N	I.A.		N.A.
Mobile equipment	Χ			N	I.A.		N.A.
Others for electrical energy consumption		Х		Ν	I.A.		N.A.
Types of GHGs included in the GHG	CO₂	CH₄	N₂O	HFC	PFC	NF ₃	SF ₆
statement:							
Data provenance for baseline scenario	Historical data for one year (X)						
and GHG project baseline:	Historical data for an average of several years ()						



Regarding the duration of the Validation and Verification activities, ANCE provided a schedule of activities with the duration of the activities:

Table 2. Validation / verification activities

Activity	Responsible	Duration (days)
Elaboration of internal No COI Matrix	ANCE	3
Request for GHG declaration and supporting information.	ANCE	1
Submission of supporting information	WORMS	2
Documentary verification	ANCE	7
Development of Risk Analysis/Evidence Gathering Plan (sampling)	ANCE	2
Preparation and Submission of Verification/Verification/Validation Plan	ANCE	2
On-site Verification/Validation and Submission of Findings Report	ANCE – WORMS	2
Delivery of Findings Report	ANCE	1
Client's attention to findings	WORMS	30
Analysis of findings attention by OVV	ANCE	30
Preparation and submission of Consolidated Findings Report	WORMS	5
Validation/Verification of Findings Report	WORMS	3
Elaboration and sending of draft Statement/Opinion and V/V Report	ANCE	7
Review of the draft by the Client	WORMS	3
BioCarbon Registry technical review	BCR	N.D.
Signature and delivery of Verification Statement/Opinion and Verification Report (digital)	ANCE	N.D.

3.2 Audit team

Table 3. Validation / verification team

Validatio verificat	on / ion team	Professional profile	Activities
Lead Validator/ Verifier	Excalibur Ernesto Acosta Miranda	Environmental engineer, Graduated of National Polytechnic Institute, Professional License Number: 9409081. Verifier/Validator In the follow scopes: He has carried out 110 verifications to various companies, mostly in the Industrial and Energy sector; 4 validations and verifications of GHG mitigation projects, 2 in the energy sector and 2 in the waste sector, accredited in the following sectors Power Generation and Electric Power Transactions, General Manufacturing (physical or chemical transformation of materials or substances into new products), Oil and Gas Exploration, Extraction, Production and Refining, and pipeline distribution, including Petrochemicals, Metals Production, Mining and Mineral Production, Chemical Production; Transportation and waste handling and disposal.	Documentary information review Site visit Preparation of Validation and Verification Report Documentary information review



Validatio verificat	on / ion team	Professional profile	Activities
Validator/ verifier: Indepen	Nancy Adriana Barrera Gómez	Environmental engineer, gradated of National Polytechnic Institute, Professional License Number: 13289456 Lead Verifier (GHG Inventories) in sectors associated with IAF MD 14, covering General Manufacturing, Mining and Mineral Production, Metal Production, Chemical Production, and Pulp, Paper, and Printing. I have executed a total of 21 services in accordance with the criteria of ISO 14064-1:2018 and other protocols	Documentary information review
Reviewe			
Independent Reviewer	Janai Monserrat Hernández Contreras	Environmental engineer, graduated of Autonomous University of Mexico City, Professional License Number: 9763033 Verifier/Validator In the follow scopes: Responsible for the Verification Validation Organization (OVV), performed the following activities: administration of commercial and operational staff, administration and coordination of verification and/or validation services, maintenance of management system, development and implementation of new projects, as well as the administration of the Agency's income and expenses. Lead verifier, independent reviewer and technical expert for the verification and validation of greenhouse gas (GHG) emissions reporting and mitigation projects in sectors such as: industrial, energy, transportation, agriculture and livestock, waste and trade and services; for programs such as the General Law on Climate Change in terms of RENE, ISO 14064-1. ISO 14064-2, International Aviation Carbon Offsetting and Reduction Scheme - CORSIA, etc.	Independent technical review
Approver	Joel Miguel Ramirez	Electric engineer, graduated of National Polytechnic Institute, Professional License Number: 2731971. Conformity Quality Manager in Association for Standardization and Certification (ANCE), with more than 25 years of experience in evaluation of norms and standards related to industry, commerce and services, occupying different positions in the areas of product certification, quality assurance, management systems, infrastructure, management systems certification, inspection units and GHG validation / verification body. Currently serves as manager of the Systems Certification Body and Validating / Verifying Body of ANCE.	Final approval

The competencies of the CAB and the VV team members can be found in <u>Annex 1</u>.



ANCE is committed to compliance with the BCR Anti-Corruption Policy described in section 8.2. 4 of the BCR Standard Validation and Verification Manual, with the intention of strengthening compliance with this policy ANCE performed the corresponding risk analysis through the Risk Identification and Mitigation Matrix identified as Internal COI Analysis_WORMS (see Annex 5.1 COI ANALYSIS), with the intention of determining that there are no conflict of interest, impartiality and operational risks that prevent the execution of the verification process in an impartial manner. As a conclusion of the analysis ANCE has applied the following mitigation measures:

- (c) The Agency confirms with each member of the verification team before
 assigning him/her to a verification activity whether he/she is free of conflict of
 interest.
- d) The Agency notifies the prospective client of the details of the designated verification team members and requests the recusal of any team member or independent reviewer if there is COI of interest.
- e) The Agency shall designate a verification team that has no relationship/family relationship with the prospective client.
- The designated verification team shall adhere to ANCE's policies and shall not accept personal benefits during the performance of verification services.
- j) The Agency shall designate a verification team that does not have any kinship, consanguinity or extra-employment relationship with the potential client.

3.3 Level of assurance and materiality

The activities corresponding to the GHG Project Declaration Validation/Verification Body focused on the validation and verification of the PDD of the Project Treatment of non-hazardous industrial waste to obtain Biocompost developed by WORMS ARGENTINA S.A. /I/, under a reasonable assurance level (≥95%) and a materiality of 5%, complying with the requirements of ISO 14064-3:2019 and ISO 14065:2013 standards and the provisions of the BCR Standard Project Validation and Verification Manual version 2.3, point 10.2.5 Assurance level and materiality:

(a) the level of assurance of validation and verification of the GHG Project shall not be less than 95%. Before the on-site verification, information on the activity data supporting the project's emission reductions was requested from the owner, and a sampling plan (included in the Verification Plan in Annex 4) was prepared to determine which are the most representative sources of emissions in the project scenarios. The baseline and project scenario emissions estimates were evaluated and percentages were calculated for each one, so that it was determined that it was necessary to review 99.82% of the project's information (waste shipments, electricity consumption receipts and fuel consumption statements, see Table 5). During the verification on site the main registers of weight wastes were reviewed,



- considering the information of the period 01/04/2018 to 31/03/2028, there were 11,760 data, all these data were reviewed using filtering and matrices in excel, as well as, 922 waste manifests was reviewed.
- (b) the material discrepancy of the data supporting the project baseline and the estimated GHG emission reductions or removals is ± 5%. In this validation and verification, the materiality was less than 5%, specifically 0.01%, considering that the project proponent addressed the findings detected by the CAB.

3.4 Sampling plan

According to the Validation/Verification Plan (Annex 4), once the project limits were defined, a Sampling Plan was established for the years to be verified (01/04/2018 to 31/03/2023) and for the Project accreditation period (01/04/2018 to 31/03/2028). This plan identifies the project's emission sources, the type of fuel used and the activity that generates the greenhouse gas (GHG) emission reductions, including the amount generated and its respective percentage of significance, which must be equal to or greater than 95%. Those identified with blue color are the ones that should be checked mainly, considering a percentage of emissions covered on site of 99.82%, later, after the site visit it was observed that gasoline was not part of the project scope, so those emissions were discarded, so in the end the 100% review was considered.

As part of the Validation and Verification activities for the collection of evidence, the following techniques were considered for application:

- Observation: is the ocular evaluation carried out to make sure how the operations are executed;
- Recalculation: analysis based on the calculation tools applied.

Table 4. Emissions reduction and total emissions contribution

Period	Emission Source, Baseline Scenario	Emission Source, Project Scenario	Reductions t CO₂e	Representative percentage %
	Landfill		_	
//0+-		Composting site (CH ₄)	_	
01/04/2018 to 31/03/2019		Composting site (N2O)	9522	8%
31/03/2019		Mobile equipment	-	
		Others for electricity consumption	-	
	Landfill			
		Composting site (CH ₄)	-	
01/04/2019 to 31/03/2020		Composting site (N2O)	13,051	11%
31/03/2020		Mobile equipment	-	
		Others for electricity consumption	-	
	Landfill			
01/04/2020 to 31/03/2021		Composting site (CH ₄)	10,972	9%
31/03/2021		Composting site (N2O)	-	



Period	Emission Source, Baseline Scenario	Emission Source, Project Scenario	Reductions t CO₂e	Representative percentage %
		Mobile equipment		
		Others for electricity consumption	-	
	Landfill			
		Composting site (CH ₄)	-	
01/04/2021 to		Composting site (N2O)	13,259	11%
31/03/2022		Mobile equipment	-	
		Others for electricity consumption	-	
	Landfill			
		Composting site (CH ₄)	-	
01/04/2022 to		Composting site (N2O)	12,747	10%
31/03/2023		Mobile equipment	-	
		Others for electricity consumption	-	
	Landfill			
		Composting site (CH ₄)	-	
01/04/2023 to	-	Composting site (N2O)	12,747	10%
31/03/2024	-	Mobile equipment		
	-	Others for electricity consumption	-	
	Landfall			
	-	Composting site (CH ₄)	_	10%
01/04/2024 to	-	Composting site (N2O)	12,747	
31/03/2025	-	Mobile equipment	-	
	-	Others for electricity consumption	-	
	Landfill			
	-	Composting site (CH ₄)	-	
01/04/2025 to	-	Composting site (N2O)	12,747	10%
31/03/2026	-	Mobile equipment	-	
	-	Others for electricity consumption	-	
	Landfill	, ,		
	-	Composting site (CH ₄)	-	
01/04/2026 to	-	Composting site (N2O)	12,747	10%
31/03/2027	-	Mobile equipment	717	
		Others for electricity consumption		
	Landfill	, ,		
	·	Composting site (CH ₄)	-	
01/04/2027 to	·	Composting site (N2O)	12,747	10%
31/03/2028	·	Mobile equipment	-	
	·	Others for electricity consumption	-	

Table 5. Sample determination



	Origin of the activity data			
Activity	Documental	On site		
Activity	Source	Total of documents	Revised documents	
	01- Control Camiones Enero	979		
	02- Control Camiones Febrero	789		
	03- Control Camiones Marzo	933		
	04 - Control Camiones Abril	901		
	05 - Control Camiones Mayo	828		
Waste	o6 - Control Camiones - Junio	837		
composting	07 - Control Camiones - Julio	2663	922	
	o8 - Control Camiones - Agosto	824		
	09 - Control Camiones - Septiembre	700		
	10 - Control Camiones - Octubre	756		
	11 - Control Camiones - Noviembre	797		
	12 - Control Camiones - Diciembre	753		
Illumination	Monthly sheepment of Santa FE of Energy	EPE oX-202X.pdf	19	
Combustion	23.03.2023 Emission Reductions_AMS.III.F based_Worms Argentina_AM (1) (2).xlsx	Estimated	1	

The risks to be assessed (see table 6) quantitatively and qualitatively are:

- Inherent risks: risk of errors, misplacements or deviations attributable to the facility's information handling.
- Control risks: risk that the facility's internal control system may fail to prevent, detect and/or correct errors.

Detection risk: risk that the verifier's procedures do not detect errors.

Table 6. VV Risk evaluation

GHG	Activity	Description of risks		IR	CR	DR	Verification / Validation
sources	Activity	IR	CR	IK	CK	DK	Risk
Landfill	Application of the calculation methodology based on the GHG program	The calculation methodology is applied according to the applicable GHG Program;	The responsible party effectively identifies and prevents errors or omissions at the source.	L	L	Н	Low
Composting site (CH4)	Application of the calculation methodology based on the GHG program.	The calculation methodology is applied according to the applicable GHG Program;	The responsible party effectively identifies and prevents errors or omissions in the source.	L	L	Н	Low
Composting site (N2O)	Application of the calculation	Calculation methodology according to the	The responsible party effectively identifies and prevents errors or	L	L	Н	Low



GHG	Activity	Description of risks		IR	CR	DR	Verification / Validation
sources	TACULATE S	IR	CR		CA		Risk
	methodology based on the GHG program.	applicable GHG Program is applied;	omissions in the source.				
Mobil machine	Review of fuel consumption reports in logs/invoices.	The Emission Source must be within the operational / organizational boundaries of the Organization;	Quality control processes are in place for the information involved.	L	L	Н	Low
Composting site Others for electric power consumption	Review of fuel consumption reports in logs/invoices.	Errors in data processing were detected in the calculation of emissions;	For the calculation of source emissions, are the source data processed in a controlled manner?	L	L	Н	Low

Mitigation measure

- a) / The OC VV GEI team must verify that the source of emissions is directly related to the organization, requesting invoices for fuel consumption, electric power, steam, input, refrigerant gases, legal documents, agreements, etc.
- c) / The OC VV GEI team must verify the total information regarding the source of emissions or, if necessary, review a representative sample of data to look for transcription errors.
- g) / The OC VV-GHG OC team must be strictly guided by the Verification Matrix and Verification Guide.
- k) / The OC VV GEI team ensures that the verified sources of information are adequately documented and substantiated.

L: Low; H: High, M Medium

4 Validation and verification procedures and means

4.1 Preliminary assessment

ANCE conducted a documentary verification with a duration of seven (7) working days, prior to the site visit of the Project Treatment of non-hazardous industrial waste to obtain Biocompost developed by WORMS ARGENTINA S.A. The activities associated with the documentary review included: a sampling plan, risk analysis of the sampled sources, verification plan and a reproduction of the emission calculations considering emission factors, global warming potentials, conversion factors and calorific powers, the application of the AMS methodology. III.F, Avoid methane emissions through composting, Version 12.0; analyzing in turn, the consistency of the data collected in accordance with the calculation base and complementary documents provided by the organization; the documentation presented is listed as follows.



4.2 Document review

- /I/ Project Document Template Treatment of non-hazardous industrial waste to obtain Biocompost version 2 (PDD-Worms-Solid V2 211124.doc);
- /II/ Emission Reduction Spreadsheet (WORMS solid-211124.xlsx);
- /III/ Sealing and verification report (OTN° 307-15719 y 28315) 2019, 2021 y 2022;
- /IV/ Fuel consumption billing records, 2020;
- /V/ Fuel consumption billing records, 2021;
- /VI/ Fuel consumption billing records, 2022;
- /VII/ Electricity consumption invoices, supplier Empresa Provincial de la Energía de Santa Fe (2018 2022);
- /VIII/ Annual revenue control (2018 2022);
 - /IX/ Logbooks of waste as raw material for composting 2018 (April to December);
 - /X/ Logbooks of waste as raw material for composting 2019 (January to December);
 - /XI/ Logbooks of waste as raw material for composting 2020 (January to December);
- /XII/ Logbooks of waste as raw material for composting 2021 (January to December);
- /XIII/ Logbooks of waste as raw material for composting 2022 (January to December);
- /XIV/ Calculation of the CO₂ Emission Factor of the Argentine Electric Power Grid, Energy Data - Calculation of the CO₂ Emission Factor of the Argentine Electric Power Grid (energia.gob.ar);
- /XV/ Records of Emission Factors of the Wholesale Electricity Market of Argentina, Emission Factor | CAMMESA;
- /XVI/ CO2 emissions calculated on the basis of retail sales of liquid fuels in EESS año 2018. Government Secretary of Energy, Argentina;
- /XVII/ Joint Resolution 1/2019, RESFC-2019-1-APN-SECCYMA#SGP;
- /XVIII/ Amendment record compost solids
- /XIX/ PE-8.2 Compost quality control (pdf)
- /XX/ PE-8.2-01 Effluent discharge procedure (.pdf)
- /XXI/ PE-8.2-02 Transport entry control instructions (.pdf)
- /XXII/ PE-8.2-04 Instructions for waste acceptance for composting (.pdf)
- /XXIII/ Billing of electric energy consumption (01/04/2018 to 31/03/2023)
- /XXIV/ Invoicing of diesel consumption (01/04/2018 to 31/03/2028)



- /XXV/ BCR_Monitoring-Report-solid of the Project Treatment of non-hazardous industrial waste to obtain Biocompost (BCR_Monitoring-Report-solid V2 211124.doc)
- /XXVI/ Diesel and Electric Energy Consumption File, Actual Fuel Used (xlsx)
- /XXVII/ SDG Tool: SDG-Tool-2023-WORMS Solid (SDG-WORMS solid 201024.xlsx)
- /XXVIII/ Decree (PEP) 2151/14. From 17/07/2014. B.O.: 05/08/2014. Non-Hazardous Waste.
 - /XXIX/ LAW ON MINIMUM BUDGETS FOR ADAPTATION AND MITIGATION TO GLOBAL CLIMATE CHANGE, Law 27520.
 - /XXX/ Carbon Footprint Certification Services Contract (.pdf)
- /XXXI/ logbooks of waste as raw material for composting 2022 (January to December);
- /XXXII/ File cover EX-2023-107869760- -APN-DGTYA#SENASA
- /XXXIII/ Municipalidad Arroyo Seco Mayo 24.pdf
- /XXXIV/ Minutes of the Board of Directors, N1,N2, N3, N4, N5 (pdf)
- /XXXV/ Resolution N° 024/18.pdf
- /XXXVI/ Renewal of the Board of Directors, 2021 (2-WORMS Renovación directorio 2021.pdf)
- /XXXVII/ Periodic Verification Report No. N° O.T.: 307-28315, Octubre 12, 2022
- /XXXVIII/ Enviromental manual, version 1.0
 - /XXXIX/ Envionmental Management System, version 1.0
 - /XL/ 55-Disp. 287-19 Renov. Reg. RT 0029
 - /XLI/ Municipalidad Arroyo Seco 20 Mayo 24.pdf (notification of complaints and denunciations)
 - /XLII/ Minutes of meeting with neighbors
 - 18/12/2018, signed by Enersto S. (DNI 11969748) and Doña Teresa S.R.L. (345111026)
 - 15/11/2019, signed by Enersto S. (DNI 11969748) and Doña Teresa S.R.L. (345111026)
 - 10/11/2020, signed by Enersto S. (DNI 11969748) and Doña Teresa S.R.L. (345111026)
 - o1/12/2021, signed by Enersto S. (DNI 11969748) and Doña Teresa S.R.L. (345111026)
 - 15/12/2022, signed by Enersto S. (DNI 11969748) and Doña Teresa S.R.L. (345111026)



- 18/12/2023, signed by Enersto S. (DNI 11969748) and Doña Teresa S.R.L. (345111026)
- /XLIII/ Neighbors complaints and claims book (2019 to 2021)
- /XLIV/ Notification of environmental commitment to suppliers (Zofravilla S.A., Santa Fe Aceites, INAGRO)
- /XLV/ Customer complaints and claims book (2019 to 2023)
- /XLVI/ Employee Grievance Book (2019 to 2023)
- /XLVII/ Employee handbook, Worms from 2019 to 2023
- /XLVIII/ Ministerio de Ambiente y Desarrollo Sostenible de la República Argentina. (2022). Plan Nacional de Adaptación y Mitigación al Cambio Climático.
- /XLIX/ COMPLETE WORMS PAYROLL MAY 2020 TO MAY 2021 (NOMINA WORMS MAYO 2020 A MAYO 2021 COMPLETA.xlsx)
 - /L/ Report N°9985 Air quality
 - /LI/ Report N°9986 Groundwater water
 - /LII/ Resolution N° 406/19
 - /LIII/ Customer Satisfaction Procedure Version oi, Worms.
 - /LIV/ GENERAL QA/QC PROCEDURES Version 1, Worms.

Methodologies reviewed;

- /a/ AMS-III.F., Small-scale methodology: Avoidance of methane emissions through composting. Version 12.0;
- /b/ Tool o4 Methodological tool CDM, Emissions from solid waste disposal sites. Version o8.1;
- /c/ Tool 13 Methodological tool CDM, Project and leakage emissions from composting. Version 02.0;
- /d/ Methodological tool, Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation, Version 03.;
- /e/ Methodological tool, Tool to calculate project or leakage CO2 emissions from fossil fuel combustion, Version 03.;
- /f/ TOOLo1 Methodological tool: Tool for the demonstration and assessment of additionality, Version 07.0.0;
- /g/ TOOL23 Methodological tool: Additionality of first-of-its-kind project activities, Version 03.0



4.3 Interviews

The following table shows the people who have been in direct contact with ANCE during the validation and verification process:

Table 7. Interviews

Name	Position and/or area	Process/activity or associated input	Interview in	Results
Marcos Méndez	environmental consultant	Project Description Tour of the project facilities Methodologies Monitoring plan Sustainable development Environmental impact and Baseline and monitoring	Remote	He is the consultant in environmental topics. He provided the collection of project information through a Google-Drive, through which the calculation of estimated emissions, waste shipments (see table 5), electricity receipts, legal, environmental and social information, and project governance information were obtained.
Andres Beltramo	Commercial Manager	Collection and safekeeping of non- hazardous waste manifests and shipments Consultation with local stakeholders Argentine regulatory framework	On-site	He explains the stages of the process, manage the process with suppliers, customers and government. Ensures that Worms complies with applicable laws. Relationships between stakehoders, In the interview we asked about the main stakeholders, which are workers, customers, local community and suppliers, finally we observed the communication media (website https://worms.ar/ and social media), The meeting minutes with the neighboring company, held from 2018 to 2023, were reviewed. These meetings established an agreement to maintain the road in good condition. Letters from some suppliers were also reviewed, where Worms Argentina reaffirms its commitment to the environment and proper waste management. The complaints book, which is open to clients, was examined, showing no significant complaints since 2019 (only one regarding waiting time, which was addressed). Additionally, the employee complaints book was reviewed, revealing only one complaint since 2019 regarding facility improvements, which was verified that so far there are no environmental or social complaints (see 6.9 section). He shown a statement of Enviromental Secretary Arroyo Seco Locality (Secretaria de Medio Ambiente Municipalidad Arroyo Seco) that Worms don't have any complaints or allegations of any kind (until May, 2024).
Berlits López Camargo	Technical laboratory manager	Parameters and quality control of the composting process	On-site	She explained the quality control applied to the processes. She provided the technical procedures of the activity Project /XIX to XXII/.
Víctor Lepera	Commercial Manager	Strategic Process Management	On-site	He explained the relationship he has with customers and suppliers and how composting is immersed in the axes of sustainability. He explained the consequences to the next communities if intend of composting plant there were a landfill.
Fernando Molinari	RRII	Carbon market advisor	On-site	He is the main promoter for the implementation of carbon credits.



4.4 On-site visit

An on-site visit was conducted by the lead evaluator on December 5 and 6, 2023. This visit included a tour of the facilities of the Treatment of non-hazardous industrial waste to obtain Biocompost Project, as well as the visit to obtain solid waste and all the composting processes, so the weighing scale, the waste storage yard, the compost piles, the quality laboratory and the storage yard were visited. The purpose of this visit was to resolve questions and issues identified during the desk review and to obtain additional information on the project's compliance with the relevant criteria applicable to the BCR Standard. The assessment team has conducted interviews between December 5 and 6, 2023 with operational staff, the project owner and the project developer to assess the information included in the project documentation.

4.5 Clarification, corrective and forward actions request

During the documentary review and on-site inspection carried out by ANCE, the information supporting the statements in the Project Document Treatment of non-hazardous industrial waste to obtain Biocompost was reviewed, considering the Methodological tool, Emissions from solid waste disposal sites. Version o8.1 /b/ and the BCR Standard. Derived from the review ANCE found findings categorized as shown below and as specified in <u>Annex 2</u>. Clarification requests, corrective action requests and forward action requests.

4.5.1 Clarification requests (CLs)

<u>Annex 2</u> of this report describes the results and the responses provided by the project owner to the five requests for clarification (5 CL) generated by the evaluation team during the validation and verification of the Document Treatment of non-hazardous industrial waste to obtain Biocompost project, as well as the concluding responses provided by the project owner to these queries.

CLs3.- In compliance with the BCR Standard version 3.2, section 12.1 on Conservative Approach and Uncertainty Management, the Project Owner applied a conservative methodology to estimate energy consumption, focusing on diesel and electricity use. Observations and operational data confirmed that gasoline consumption within the Project is zero. This approach aligns with the guideline's emphasis on ensuring that parameters for GHG reduction estimates are consistent with national GHG inventories and reference scenarios, thus eliminating the need to apply additional uncertainty discount factors.

CLs5.- In accordance with the BCR Standard version 3.2, section 10 on Methodological Documents, the Project Holder applied the eligible methodology for emission reduction in full, as required. This includes the comprehensive evaluation of the proposed methodology, particularly addressing its applicability conditions (3.1.1), ensuring that all



tools, parameters, and data referenced by the methodology are fully incorporated into the project's implementation and validation processes.

CLs6.- In accordance with the BCR Standard version 3.2, section 11.5 on Project Length and Quantification Periods, the Project Owner determined the start date of the GHG project and defined its duration as 10 years, with no option for renewal, as specified for non-AFOLU sectors. The estimated emission reductions for the entire project period were calculated and included in the Project Design Document (PDD), ensuring compliance with the standard's requirements for project length and quantification of GHG reductions.

CLs7.- In alignment with the BCR Standard version 3.2, section 12.1 on Quantification and Monitoring of GHG Emission Reductions and Uncertainty Management, the Project Owner applied a conservative approach to ensure accurate estimation of emission reductions. Verified quantities of waste shipments were used in the calculation, and due to the absence of calibration data for certain baseline years, a 2% reduction was applied to the amount of solid waste to avoid overestimating GHG reductions, following the principle of ISO 14064-2:2019. Additionally, the implementation of the "General QA/QC Procedures" ensures systematic management of uncertainty and enhances the reliability of the GHG reduction estimation.

CLs8.- The project demonstrates compliance with sustainable development goals by aligning with SDGs 9, 11, 12, and 13 through actions such as increasing local employment, promoting waste recycling and reuse, and reducing methane emissions via controlled composting. Stakeholder consultation is evident through regular meetings with local communities and authorities, as well as feedback mechanisms like suggestion books, with no significant complaints reported. National legislation compliance is ensured through updated permits and adherence to local and national environmental regulations. The monitoring plan is robust, covering project boundaries, activity execution, emission quantification, and quality control, with mechanisms for data recording and archiving.

4.5.2 *Corrective actions request (CARs)*

Annex 2 of this report describes the results and the responses provided by the project owner to the three corrective action requests (3 CARs) generated by the evaluation team during the validation and verification of the Document Treatment of non-hazardous industrial waste to obtain Biocompost project, as well as the concluding responses provided by the project owner to these queries.

CAR1.- The project owner considered the verified quantities (based on waste shipments) for the emission reduction estimate calculation, due to the fact that the Project owner did not submit the calibration for the other years in the baseline estimation calculation, the conservative principle of reducing by 2% the amount of solid waste (Wj,x) was applied with the motive of occurring an underestimation that in an overestimation of GHG emission reductions (principle of ISO- 1406464-2:2019). In addition, it has implemented a



procedure "General QA/QC procedures" to reduce uncertainty and improve the quality of the GHG reduction estimation calculation.

CAR2.- In compliance with the BCR Standard version 3.2, section 12.1 on Quantification and Monitoring of GHG Emission Reductions and Uncertainty Management, the Project Owner recalculated the GHG emission reductions using emission factors officially provided by the Ministry of Energy through the Wholesale Electricity Market. This alignment with national data ensures consistency with the parameters used in constructing the national GHG inventory and reference scenario, thus avoiding the need to apply additional discount factors for uncertainty management as outlined in the guidelines.

CAR4.- The compliance with GHG mitigation objectives was corrected by mentioning the proposed activities and the expected mitigation results of the project.

4.5.3 Forward action request (FARs)

Not applicable, during the validation and verification process there was no request for corrective actions.

A total of 8 findings, 5 clarifications and 3 corrective actions were established as a result of the Validation and Verification audit. Annex 2 shows the report on the findings established by ANCE and the resolution carried out by the project proponent.

5 Validation findings

The validation process was carried out considering the BCR Standard Version 3.2, the GHG Project Validation and Verification Manual version 2.3, in addition to the stipulations of ISO 14064-2:2019 and the internal procedures of the ANCE Validation and Verification Body. During the validation and verification process of the Treatment of non-hazardous industrial waste to obtain Biocompost project, a seven-day documentary review was carried out, followed by an on-site inspection visit on December 5 and 6. As a result of the aforementioned reviews, 8 findings were established, of which the following are related to the validation process:

Table 8. Validation findings

No.	Reference to noncompliance	Description of finding	Type of Nonconformity: (CAR, CL, FAR)
3	6.6 Selection of GHG SSRs for monitoring or estimation of GHG emissions and removals, Standard 14064 part 2, 2019.	During the validation and verification of the Project, it was found that diesel and gasoline consumption reported in the invoices (PLANILLA COMBUSTIBLE.xlsx) and energy consumption are overestimated and not adjusted to the project limit, so it is necessary to record the energy consumption	CL



		based on the declaration of the project limit and scope.	
4	2.2 Objective	Correct the wording of the Project Objective in accordance with the BCR Standard: "It is important to note that the project objectives should be consistent with the proposed activities and the expected GHG mitigation results", so it is necessary that the focus is directed to the Project and not to the organization.	CAR
5	3.1.1 Conditions of applicability of the methodology	Clarify the applicability of the methodologies used for the Project's emissions reduction. In the PDD there is a replication of the paragraphs of the methodology without reflecting the application of each one.	CL
6	3.2.3 Time frames and analysis periods	Clarify the specific period covered by the Project considering that it will last 10 years.	CL

5.1 Project description

The project Treatment of non-hazardous industrial waste to obtain Biocompost consists of the treatment of non-hazardous waste from biodiesel, oil and pulp plants, dairy industry, breweries and agro-industries in the area surrounding Worms. ANCE as validating and verifying agency assessed the project according to BCR Standard 10.1.5 Activities related to waste management and disposal, being a project considered with the activity Use or Replacement of technology to eliminate or reduce GHG generation in solid waste treatment systems. F, Avoid methane emissions through composting, Version 12.0 /a/, so these methodology requirements were considered for the estimation of emission reductions.

During the evaluation, it was observed that in the property where the Project is located there are all the operations related to the treatment of solid waste starting with the waste reception area where a review of the shipments and/or manifests of the input is performed. it is worth mentioning that the waste generators have the obligation according to the government regulations of Argentina to manage non-hazardous waste, from its generation to its final disposal (Decree (PEP) 2151/14. From 17/07/2014. B.O.: 05/08/2014. Non-Hazardous Waste.)/XXVIII/. Worms serves as a final disposal company by treating nonhazardous waste with composting and vermicomposting technologies, resulting in a new product and eliminating the waste, giving rise to a circular economy process. Worms weighs the waste to check the weight recorded on the shipment and/or manifest provided by the carrier (procedure PE-8.2-02). Once the cargo transport has been checked, the process input is entered; however, it is not considered suitable for processing until it is subjected to laboratory tests to rule out any hazardous characteristics or that it does not comply with Worms' processes (Procedure PE-8.2-04) /XXII/. The weight data recorded on the consignment and/or manifest is considered a monitorable variable and is entered into the equation of the aforementioned methodology.



Subsequently, the technician in charge of the composting process prepares the compost piles, open-pit and vermicompost. The compost manager ensures that the quality of the compost complies with what is necessary for the process to be efficient and comply with Argentina's operating regulations (P-8.2 Quality controls for compost production)/XIX/:

Table 9. Quality controls for compost.

DRY BASE			
MATERIALS	C%	N%	C/N
Sawdust	40	0.1	400
Cereal Plant Sweeps	45	0.3	150
Sludge from liquid effluent capture systems and manure from livestock pens or feedlots.	8/15	0.5/0.7	11/30

For the vermicomposting process, the same principles of input acceptance as described above apply; however, the composting process has the following characteristics:

Income Streams	Percentage
Filter soils	19 %
Livestock sludge and sludge from livestock farming	11 %
Slurry	5 %
Dust and cereals	58 %
Others	7 %

It is important to mention that, during the on-site inspection, neither methane flaring nor any energy recovery from the treatment was ruled out for both processes.

5.2 Project type and eligibility

During the validation and verification process, ANCE evaluated the following criteria based on observation, interviews and review of Project information.

- I. The V/V team identified the methodology applicable to the project as established in the CDM and as stated in the project document.
- II. The BCR Standard V 3.2 was considered to review the adherence to the program requirements.
- III. The project activity was validated as waste management by composting, and also checked against the methodologies described in the CDM (https://cdm.unfccc.int/Registry/index.html).
- IV. Scenarios for emission reductions were reviewed, the crediting time declared by the project owner is 10 years.

Table 10. Project type and eligibility

Eligibility criteria	Evaluation by validation body
Scope of the BCR Standard	Steps:



THE 11 11:	
Eligibility criteria	Evaluation by validation body The limits of the Project are limited to the correcting of
	1) The limits of the Project are limited to the composting of non-hazardous waste from the activities surrounding Worms
	Argentina. During the site visit, the waste shipments that have
	been generated during the existence of the Project were
	requested, and through interviews with the laboratory
	personnel, it was validated that the waste is not hazardous or
	has any characteristic that could damage the food. The physical
	infrastructure of Project was visited to validate the composting
	process. 2) It is worth mentioning that during the site visit to WORMS,
	other activities independent of this project were observed;
	however, they remain independent of the project. We reviewed
	the minutes of the board of directors /XXXIV/ where the
	consolidation of WORMS Argentina S.A. was declared, in
	which the fiscal address of the property was observed, in such
	a way that this Project does not overlap geographically with another Project, which was confirmed during the site visit.
	3) During the site visit, the composting operations of the
	Project were observed, as described in the flow diagrams
	provided by the Owner. It was observed that the main
	machinery operating in a backhoe that is responsible for the
	correct aeration of the compost and the lighting fixtures for
	illumination. 4) Using a spreadsheet /II/ the owner identified and calculated
	the baseline scenario according to the AMS.III.F, Avoid
	methane emissions through composting, Version 12.0
	methodology.
	5) The GHGs evaluated for the baseline were the equivalent
	CO2 that could be generated in an open dump, for the Project
	scenario the GHGs emitted (CO2, CH4 and N2O) by mobile sources and indirect emissions from electricity use were
	considered, in addition to emissions from the composting of
	non-hazardous waste.
	6) The application was reviewed of the Project's additionality
	was reviewed (see section 5.5.5).
	7) The Project duration was evaluated considering that the Owner of the project decided the project duration is of 10 years
	(no opetion of renewal).
	8. The project owner identified the project stakeholders and
	assessed their interaction in the project (see section 6.9).
	9. The project Owner shown the monitorin plan o the
	verificaction period (see section 6.1.2)
	Compliance with the laws to which the project is committed was reviewed /XXXV/.
	During the on-site inspection, it was validated that the project
Project type	corresponds to the Waste Sector, for the treatment of non-
	hazardous waste by composting.



Eligibility criteria	Evaluation by validation body
Project activity(es)	It was validated that the project activity corresponds to the Use or Replacement of technology to eliminate or reduce GHG generation in solid waste treatment systems, an activity that corresponds to CDM Sector 13: Waste Management and Disposal. During the interviews and through observation, it was validated that the project has replaced landfill disposal with composting technology, thus contributing to the reduction of GHG emissions.
Project scale (if applicable)	ANCE validated the scale of the project against the owner's emission estimation calculation sheet, and also reviewed the applicability of the AMS.III.F methodology, Avoid methane emissions through composting, Version 12.0. Small scale, according to the methodology.

5.3 Grouped project (if applicable)

Through ANCE's evaluation of the project, it was noted that the project is not clustered.

5.4 Other GHG program

During the documentary review and on-site inspection interviews, it was validated that the Project has not been registered in any other program.

Table 11. Other GHG programs

Program	Website	Was registered?
BCR	https://globalcarbontrace.io/projects?project_id=& project_name=&holder=§or=3&projectType=& objective=&status=&country=	No.
Cercarbono	https://www.ecoregistry.io/projects- list/cercarbono-co2	No.
CDM	https://cdm.unfccc.int/Projects/projsearch.html	No.
VERRA	https://registry.verra.org/app/search/VCS	No.
Gold Standard	https://marketplace.goldstandard.org/collections/projects/renewable-energy	No.
CSA	https://www.csaregistries.ca/GHG VR Listing/CleanProjectProjects	No.

The evaluation across various GHG project registration platforms confirms that the Worms Solid project is not registered in any other system. Therefore, it complies with the requirement that the project must not be part of another registered project in



BIOCARBON or other GHG programs, meeting condition (b) of the BIOCARBON eligibility criteria.

5.5 Quantification of GHG emission reductions and removals

ANCE performed the evaluation of the GHG emissions reduction calculation according to VVM 10.3.2 Means of verification and the methodology AMS.III.F, Avoid methane emissions through composting, Version 12.0. /a/, in addition, the analysis of the calculation file used by the project proponent (WORMS solid-201024.xlsx) was performed. The analysis begins by considering the following equation:

$$ERy = BEy - (PEy + LEy)$$

Where:

 ER_y : Emission reductions in the year y (tCO_2e)

 BE_y : Baseline emissions in year y (tCO_2e)

Pey: Project emissions in the year y (tCO₂e)

LE_y: Leakage emissions in the year y (tCO₂e)

The following steps were carried out to evaluate the above equation and calculate the estimated emissions in the Project:

Step 1. Identification of baseline variables

For the determination of the baseline, the project proponent used the equation described in the AMS.III.F methodology, Avoid methane emissions through composting, Version 12.0.:

$$BE_y = BE_{CH_4,SWDS,y} + BE_{ww,y} + BE_{CH_4,manure,y} - MD_{y,reg} \times GWP_{CH_4}$$

Where:

Table 12. Baseline variables

Variable	Concept	Assessment
BE_y	Baseline emissions in year y (tCO2e)	The period of the project is of 1/April/2018 to 31/march/2028, in total 10 years with no renewal option. The owner of the project shown all waste manifest from the start of operations /IX to XIII, XXXI/, in addition, it is consistent with the granting of the operating license of Worms Argentina S.A. /XXXV/.
$BE_{CH_4,SWDS,y}$	Annual potential methane generation from solid waste composted by the project activity	The project proponent applied the stipulations of the methodological tool "Emissions from solid waste landfills".



	during years x from the start of the project activity $(x=1)$ to year y (tCO_2e) .	
$BE_{ww,y}$	If applicable, baseline emissions of the co- composted wastewater, calculated according to AMS-III.H procedures. (tCO2e)	ANCE validated that the project scope does not contemplate wastewater treatment.
$BE_{CH_4,manure,y}$	If applicable, baseline emissions of composted manure from project activities, according to AMS-III.D procedures. (tCO2e).	ANCE validated that the project scope does not include manure treatment.
$MD_{y,reg}$	Amount of methane that would have to be captured and flared in the year and to comply with current regulations (ton).	ANCE validated that the project scope does not consider methane flaring.
GWP_{CH_4}	Global warming potential of methane	28

Step 2. Determination of the annual methane generation potential.

The project proponent calculated the annual methane generation potential according to the Methodological Tool, Emissions from solid waste disposal sites V. 8.1 /b/, considering the following constants for the determination of the baseline emissions:

Table 13. Variables of baseline emissions

Variable	Concept	Assessment
Qy, Wx	Quantity of waste composted in year y (wet basis)	During the site visit, ANCE validated that the solid waste entering the process must have acceptance criteria, according to internal procedure PE-8.2-04 /XXII/, including moisture, which must be greater than or equal to 85%. This meets the condition of the parameters of methodologies /b/ and /c/.
<i>x</i>	Years of the time period in which waste is disposed at SWDS, from the first year of the time period $(x = 1)$ to year $y (x = y)$.	ANCE validated what is established in the PDD /I/ of the Project regarding the durability of the
У	Year of the crediting period for which methane missions are calculated (y is a consecutive 12-month period).	project, which is 10 years.
$DOC_{f,y}$	Fraction of degradable organic carbon (DOC) that decomposes under the specific conditions given in the SWDS for year y (fraction by weight).	To obtain the Determination of the fraction of DOC that breaks down in the SWDS, the project proponent used Application B (0.5) non-monitorable value, ANCE agrees with the value.
φ_y	Model correction factor to account for model uncertainties for year y.	The project proponent used option 1 of the calculation options for the Model Correction Factor Determination (o.85), it is considered as a non-monitorable value. ANCE agrees with the value.
OX	Oxidation factor (reflects the amount of methane in SWDS that is oxidized in soil or other material covering the waste).	The project proponent used the default value of the tool (0.1). ANCE agrees with the value.



Variable	Concept	Assessment
$f_{,y}$	Fraction of methane captured in SWDS and flared, flared, or otherwise used in a manner that avoids methane emissions to the atmosphere in year y.	ANCE validated that the Project does not include flaring or any energy use of methane in the scope.
F	Fraction of methane in SWDS gas.	
MCF_y	Methane correction factor for year y	The project proponent used the default value for anaerobically managed solid waste landfills (1), a non-monitorable value. ANCE agrees with the value.
DOC_j	Fraction of degradable organic carbon in waste type j (fraction by weight)	ANCE validated the use of the default value (15%) of DOCj considering that the waste treated is similar to Food, food, beverage and tobacco waste (other than sludge).
k_j	Decomposition rate of waste type j (1/year)	ANCE validates the use of the default value (0.185), the site is in a mostly temperate location.
j	Type of waste or waste types in MSW	The treatment of one type of waste is validated.
GWP_{CH_4}	Global warming potential of methane	28

Step 3. Quantification of solid waste

The project owner keeps track of the amount of non-hazardous solid waste (wet basis) entering the process through manifests and shipments, this activity is part of the Argentine regulation (https://www.argentina.gob.ar/normativa/nacional/ley-25612-76349), so these documents have official validity. The project holder files these documents and the quantities are placed in electronic files on a monthly basis with the following name "XX – Truck control Month 20XX.xlsx" (considering that the accreditation of the project is o1/04/2018 to 31/03/2028). The project proponent uses the monthly summation of the amount of non-hazardous waste from manifests and shipments. This data is subject to constant monitoring.

Step 4. Quantification of the project's emissions from electricity consumption

The owner of the Project does not have direct measurements of electricity consumption; therefore, to determine the Project's emissions, an estimate was made based on the equipment and lighting fixtures that use electricity. To carry out the quantification, the Tool to calculate baseline, project and/or leakage emissions from electricity consumption /d/ was applied.

To calculate emissions from electricity consumption, the project owner used the emission factors published by the Wholesale Electricity Market (Emission Factor | CAMMESA) /XV/. ANCE validated the data used.

Step 5. Quantification of project emissions from fossil fuel consumption



The owner of the Project does not have direct measurements of diesel consumption, so to determine the Project's emissions, an estimate was made according to the equipment and mobile sources that consume the fuel. To carry out the quantification of emissions, the Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion /e/ was applied. ANCE validated the estimate made by the project owner to obtain diesel consumption.

Regarding the use of the emission factor, the emission factor published in the document Emissions of CO₂ calculated based on retail sales of liquid fuels in EESS - year 2018 was used. Government Secretary of Energy, Argentina: 2.61 kgCO₂/l.

Step 6. Quantification of the project's emissions from composting

The project proponent applied the tool "TOOLo4 Methodological tool Emissions from solid waste disposal sites, Version o8.1 /b/ for the estimation of project emissions, considering the variable factors described in step 2, with the variable to be monitored being the amount of non-hazardous waste entering the composting plant.

Step 7. Calculation of GHG emissions reductions

Considering the equation for calculating emission reductions described in methodology /a/:

$$ERy = BEy - (PEy + LEy)$$

The project holder calculated the baseline according to the methodology /a/, where:

$$BEy = BE_{CH4,SWDS,y}$$

The calculation was performed for the years covered by the project accreditation o1/04/2018 to 31/03/2028.

ANCE validated that the Project has not been transferred from another activity nor is the existing equipment being transferred to another activity, furthermore, the compost is not being subjected to anaerobic storage or disposed of in a SWDR. Therefore, for this project there is no leakage.

$$LEv = 0$$

The project holder calculated the project emissions according to the methodology Project and leakage emissions from composting /c/ considering the following equation:

$$PE_{COMP,y} = PE_{EC,y} + PE_{FC,y} + PE_{CH4,y} + PE_{N2O,y} + PE_{RO,y}$$



Table 14. Variable of project emissions

Variable	Concept	Assessment
$BE_{PE_{COMP,y}}$	Project emissions associated with composting in year y (t CO2e/year)	
$PE_{EC,y}$	Projected emissions from electricity consumption associated with composting in year y (t CO ₂ /year)	ANCE validated the calculation of estimated emissions from estimated electricity consumption as described in Step 4.
$PE_{FC,y}$	Project emissions from fossil fuel consumption associated with composting in year y (t CO ₂ /year)	ANCE validated the calculation of estimated emissions from estimated diesel consumption as described in Step 5.
$PE_{CH4,y}$	Projected methane emissions from the composting process in year y (t CO2e/year)	The project owner calculated the project emissions estimate using the amount of waste
$PE_{N2O,y}$	Projected nitrous oxide emissions from the composting process in year y (t CO2e/year)	input and recorded through manifests and shipments. The information described in Step 2, 3 and 6 was used.
$PE_{RO,y}$	Projected methane emissions from wastewater runoff associated with co-composting in year y (t CO2e/year)	The project scope does not include wastewater treatment.

The project proponent performed the emissions estimation calculation considering the steps described above, ANCE proceeded to analyze and replicate the calculation, obtaining the following.

Table 15. Project Emissions Reductions

Period	ANCE	WORMS
	t(CO2e
2018 - 2019	9,525	9,525
2019 - 2020	13,052	13,052
2020 - 2021	10,973	10,974
2021 - 2022	13,261	13,275
2022 - 2023	12,748	12,748
2023 - 2024	12,748	12,748
2024 - 2025	12,748	12,748
2025 - 2026	12,748	12,748



2026 - 2027	12,748	12,748
2027 - 2028	12,748	12,748
Total	123,302	123,314
	% Materiality:	0.01

5.5.1 Start date and quantification period

During the validation and verification of the Project it was observed that the start of operations of the Project was on o1/04/2018, this was observed in the non-hazardous waste registration logs in conjunction with the shipments and manifests on file. In addition, the operating document /XXXV/ of Worms Argentina S.A. was reviewed, where it has been resolved that the activity is in Treatment of non-hazardous liquid and solid organic waste, this document was issued and signed by the Municipality of Arroyo SECO, dated March 16, 2018.

The accreditation period of the Project is from $o_1/o_4/2o_18$ to $3_1/o_3/2o_28$, contemplating 10 years of durability (no option renewal), declaring an emissions reduction of 123,314 tCO₂e. This data was validated by ANCE reporting a materiality of 0.01% and a reasonable assurance level.

5.5.2 Application of the selected methodology and tools

5.5.2.1 Title and Reference

The approved UNFCCC methodology for baseline, project emissions and monitoring are AMS-III.F. " Small-scale methodology Avoidance of methane emissions through composting" (version 12.0) /a/ has been applied by the GHG mitigation project.

In addition, the project activity also uses the following tools:

- Methodological tool CDM, Project and leakage emissions from composting.
 Version 02.0; /c/
- Methodological tool CDM, Emissions from solid waste disposal sites. Version o8.1 /b/;
- Tool to calculate baseline, project and/or leakage emissions from electricity consumption /d/;
- Tool to calculate project or leakage CO2 emissions from fossil fuel combustion /e/;

5.5.2.2 *Applicability*

The project activity meets the applicability criteria of the /a/ methodology as the project consists of controlled aerobic treatment by composting of non-hazardous waste, and the project activity does not recover or flared gas. ANCE validated and verified this assertion as follows:



Table 16. Applicability

No.	Applicability	Evaluation by ANCE
2.	This methodology includes measures to avoid methane emissions to the atmosphere from biomass or other organic matter that would otherwise have been left to decompose anaerobically in a solid waste landfill (SDS), or in an animal waste management system (AWMS), or in a wastewater treatment system (WTS). Controlled aerobic treatment by biomass composting is introduced in the project activity.	Through the on-site inspection and interviews ANCE validated that the project activity is for composting of non-hazardous waste.
3.	The project activity does not recover or flare gas from the disposal site (unlike AMS-III.G "Landfill methane recovery"), and does not carry out controlled combustion of waste that is not biologically treated in a first step (unlike AMS-III.E "Avoidance of methane production from biomass decomposition by controlled combustion, gasification or mechanical/thermal treatment"). Project activities that recover biogas from wastewater treatment will use AMS-III.H "Methane recovery from wastewater treatment" methodology. Project activities involving co-digestion of organic materials will apply the methodology AMS-III.AO "Methane recovery by controlled anaerobic digestion".	Through the on-site inspection and interviews ANCE validated that the project activity does not generate gas (CH ₄).
4.	Activities are limited to those that result in emission reductions of less than or equal to 60 kt CO ₂ equivalent per year.	During the validation and verification, the calculation file II.
5.	This methodology is applicable to the composting of the organic fraction of municipal solid waste and biomass waste from agricultural or agro-industrial activities, including manure.	Through on-site inspection and interviews ANCE validated that the project activity receives non-hazardous waste from surrounding grain processing companies /VIII/, /IX/, /X/, /XI/, /XII/, /XIII/.
6.	This methodology includes the construction and expansion of treatment facilities, as well as activities that increase the capacity utilization of an existing facility. For project activities that increase capacity utilization at existing facilities, project participants shall demonstrate that special efforts have been made to increase capacity utilization, that the existing facility is following all applicable laws and regulations, and that the existing facility is not included in another CDM project activity. The special efforts shall be identified and described.	ANCE validated and verified that during the project period (01/04/2018 to 31/03/2028) there has not been an expansion in the operational limits of the Project, it was validated that the Project activity complies with the environmental regulations of the State /XVII/, /XVIII/.
7.	This methodology is also applicable to co-composting of wastewater and biomass solid waste, where the wastewater would otherwise have been treated in an anaerobic wastewater treatment system without biogas recovery. The wastewater in the project scenario is used as a source of moisture and/or nutrients for the biological treatment process, e.g., empty fruit bunch composting (EFB), a residue from palm oil production, with the addition of palm oil mill effluent (POME), which is the wastewater co-produced from palm oil production.	ANCE validated that during the site visit that the scope of the project does not contemplate wastewater treatment.



No.	Applicability	Evaluation by ANCE
8.	In case of co-composting, if it cannot be demonstrated that the organic matter would have been left to decompose anaerobically otherwise, the baseline emissions related to such organic matter will be counted as zero, while the project emissions will be calculated according to the procedures presented in this methodology for all co-composted substrates.	ANCE validated during the site visit that the scope of the project does not contemplate co-composting, being non-hazardous waste the only input to the process and these are subject to evaluation prior to incorporation into the composting process /XIX/ and /XXII/.
9.	The location and characteristics of the disposal site of biomass, animal manure and co-composting wastewater in the baseline condition shall be known so that their methane emissions can be estimated, using the provisions of AMS-III.G, AMS-III.E (relating to stockpiles), AMS-III.D "Methane recovery in animal manure management systems" or AMS-III.H, respectively.	ANCE validated during the site visit that the scope of the project does not contemplate co-composting.
10.	In the project scenario, blending materials may be added to increase the efficiency of the composting process (e.g., to achieve a desirable C/N ratio or free air space value); however, only the controlled amount of solid waste or manure or wastewater diverted from the reference treatment system is used for the emission reduction calculation. Project activities for animal manure composting shall also comply with the requirements of paragraphs 3 and 4/c/ of the latest version of AMS-III.D.	ANCE validated and verified that only the amount of non-hazardous solid waste registered in the manifests and shipments that are submitted to composting /VIII/, /IX/, /XI/, /XII/, /XIII/ is used to calculate the estimated reductions.
11.	In the case of solid waste removed from a solid waste landfill, the following requirement shall be verified ex ante at the beginning of each crediting period:	ANCE validated that the solid waste entering the composting plant is not extracted from a landfill but the plant serves as a final destination for the processed waste.
a.	Establish that the identified landfill(s) can be expected to accommodate the wastes to be used for the project activity during the crediting period; or	This scenario is not common for this type of waste (non-hazardous), and maintaining the waste under these conditions involves high costs for the companies.
b.	Establish that it is common practice in the region to dispose of waste in solid waste landfill(s).	ANCE validated this scenario considering that all waste shipments come from an agro-industrial company and not from a waste management and/or storage company, hich is the common practice.
12.	Project participants shall clearly define the geographical boundary of the region referred to in paragraph 11(b) and document it in the DPDD-MDL. When defining the geographical boundary of the region, the project participants shall consider the origin of the waste, i.e. if the waste is transported up to 50 km, the region may cover a 50 km radius around the project activity. In addition, it should also consider the distance to which the final product will be transported after composting. In any case, the region must cover a reasonable radius around the project activity that can be justified with reference to the circumstances of the project, but in no case shall it exceed 200 km. Once defined, the region must not change during the crediting period(s).	The owner of the Project chose to limit the geographical area to the provinces of Santa Fe, Entre Ríos and Buenos Aires, which includes the "Greater Rosario agroindustrial pole" area, which according to the Rosario Stock Exchange is considered the area with the largest number of port terminals with the capacity to load grains, oils and/or byproducts (such as biodiesel). Therefore, the owner's assertion that the main agroindustrial waste generating companies are located in these areas is correct and is confirmed by the addresses of the shipments reviewed during the on-site verification. ANCE validated that in no case does the activity exceed the range of 200 km in the transportation of waste to the composting plant and in the transportation of the product, a measurement was made using Google earth of the main waste generators that send waste to



No.	Applicability	Evaluation by ANCE WORMS based on shipments and manifests, resulting in a distance of ±51km. However, the owner decided to set a project limit of 200 km to maintain a conservative approach.
13.	In case the compost produced is handled aerobically and subjected to land application, appropriate conditions and procedures (not leading to methane emissions) must be ensured.	ANCE validated that during the site visit that the non-hazardous waste is subjected to a proper composting process /XIX/ such that the project owner has complied with the State's environmental regulations /XVII/ and /XVIII/.
14.	In case the compost produced is handled aerobically and subjected to land application, appropriate conditions and procedures (not leading to methane emissions) must be ensured.	ANCE validated that, during the on-site inspection, the process does not contemplate thermal or mechanical treatment.
15	In case the produced compost is stored under anaerobic conditions and/or delivered to a landfill, emissions from residual organic content shall be considered and calculated according to the latest version of the methodological tool "Emissions from solid waste landfills".	During the site visit, ANCE validated and verified that the compost is not stored in anaerobic conditions nor is it delivered to a landfill, but that the compost is marketed to farmers surrounding WORMS /VIII/.

In conclusion, ANCE agrees with the application of the methodology AMS.III.F, Avoid methane emissions through composting, Version 12.0 /a/, considering that the applicability criteria were correctly addressed by the project holder.

5.5.2.3 *Methodology deviations (if applicable)*

The Treatment of non-hazardous industrial waste to obtain Biocompost project is in accordance with the /a/ methodology, so this section does not apply.

5.5.3 *Project boundary, sources and GHGs*

Considering what is mentioned in the methodology /a/ referring to the project limits, ANCE validated, according to the document Technical Report of the product registration "Compost WORMS" to comply with the regulation Joint Resolution of the Government of the Environment and Sustainable Development and SENASA Environment and Sustainable Development and SENASA N $^{\circ}$ 19/2019) /XXXII/:

- 1. The project is located in the city Arroyo Seco, Santa Fe, Argentina. This was validated on site and whit the official documets tha support the property and activity "GRANTING THE AUTHORIZATION TO DEVELOP THE ACTIVITY OF TREATMENT OF LIQUID AND SOLID NON-HAZARDOUS ORGANIC WASTE ON BEHALF OF WORMS ARGENTIN'A SOCIEDAD ANONIMA, Resolution N° 024/18" /XXXIV/.
- 2. The project activity replaces the disposal of waste in sanitary landfills and open dumps where direct methane emissions could be generated.



- 3. During the site inspection it was validated that the project does not consider wastewater co-composting in its scope.
- 4. There is a composting and berm-composting process capable of receiving a maximum of 137.25 tons of non-hazardous waste per day, Data averaged from the accounting of solid waste logbooks /IX to XIII/.
- 5. It was validated that there is a yard where waste is received and a specific area where compost is prepared for sale.
- 6. Due to the nature of the project and according to the methodology /a/ the project emits the following GHGs:

Table 17. GHG evaluated

Source	GHG	Included (Yes/No)	Assessment by ANCE
	CO ₂	No	During organic matter decomposition reactions in landfills, CO_2 emissions are considered zero, ANCE validates this confirmation.
Baseline scenario- landfill site	CH ₄	Yes	Methane is the main GHG produced in the decomposition of organic matter in a landfill, ANCE validates this confirmation. For the estimation, the amount of treated waste /IX/ to /XIII/ was used.
	N ₂ O	No	During organic matter decomposition reactions in landfills, N_2O emissions are considered to be zero, ANCE validates this confirmation.
Project scenario – - Composting site	CO ₂	Yes	Indirect emissions from electricity consumption in lighting and pumping equipment (reported in tCO ₂ e), total energy was counted; however, there are other activities on the owner's property that are outside the scope of this project's activity /XXIII/. Direct emissions from combustion in mobile sources. total diesel fuel was accounted for, however, on the owner's property there are other activities outside the scope of this project's activity /XXIV/.
 Luminarias (indirect emissions) Pumping equipment (indirect emissions) Pumping equipment (mobile 	CH ₄	Yes	Product derived from the composting process. The amount of waste treated from /IX/ to /XIII/ was used for the estimation. Direct emissions from combustion in mobile sources. The total amount of diesel fuel was counted; however, on the owner's property there are other activities outside the scope of this project /XXIV/.
sources)	N ₂ O	Yes	Product derived from the composting process. The quantity of treated waste /IX/ to /XIII/ was used for the estimation. Direct emissions from combustion in mobile sources. the total amount of diesel fuel was counted; however, on the owner's property there are other activities outside the scope of the activity of this project /XXIV/.



ANCE validated the limits of the project according to the activity and established in the methodology /a/, during the on-site visit the sources described in this section were observed.

5.5.3.1 Eligible areas in the GHG project boundaries (for AFOLU projects)

Not applicable.

5.5.4 Baseline or reference scenario

The project activity involves the operation of composting for the treatment of non-hazardous solid waste, therefore, the methodology applied /a/, "the baseline scenario is in the absence of the project activity, biomass and other organic matter (including manure, if applicable) are allowed to decompose within the project boundary and methane is emitted to the atmosphere. Baseline emissions are the amount of methane emitted from the decomposition of degradable organic carbon from biomass solid waste or manure."

The Owner of the project indentfy correctly the baseline scenario and the development of the variables and parameters used is noted in the calculation tool /II/.

Step 1. The evaluation of the baseline scenario was considered as described in the methodology AMS.III.F, Avoid methane emissions through composting, Version 12.0, where the calculation of estimated emissions from waste treatment was based on the Methodological Tool Emissions from solid waste disposal sites (Version 08.1) /b/ and the following parameters were evaluated:

Table 18. Baseline parameters

Parameter	Assessment
$\varphi_{\mathcal{Y}}$	Default value
OX	Default value
F	Default value
DOC_f	Default value
MCF_{y}	Default value
k_y	Default value
W_{j}	Measure
DOC_i	Default value

ANCE validated that the parameters and measurements were properly applied according to the methodology /a//b)/IX to XIII. It was observed that the data obtained, such as emission factors, heating rates and other constants (see Table 18), were obtained from the AMS.III.F methodology, Avoid methane emissions through composting, Version 12.0, and by means of ANCE recalculation, the application was validated.

Step 2. ANCE validated that the baseline equation parameters were obtained from the methodology /a/, /b/, the project proponent evaluated a low uncertainty (see section 5.5.6). During the review of the input activity data (Wj) for the baseline calculation, it was



detected that the measurement equipment did not have all the annual calibrations, so the project owner applied a 2% uncertainty percentage in order to make the information consistent. The other values (table 8) were obtained from the methodology so it was unnecessary to apply he percentages defined for the discount factor provided in the guidelines for managing uncertainty.

Step 3. ANCE validated that the Project activity complies with the due diligence regarding composting described by State:

Table 19. Legal assessed

Legal Requremnet	Resume	
7-Otorgamiento uso	The Municipality of Arroyo Seco authorizes the use of	
conforme de suelo A. Seco	land for the activities of Worms Argentina S.A., among	
29-06-2017	them the treatment of solid organic waste, it is	
	conditioned to not carry out any activity that affects the	
	environment and that is inherent to the authorized	
	activities, signed on June 29, 2017.	
34-Habilitación Munic.	The Municipality of Arroyo Seco grants the permit for	
Planta A. Seco - Resol.Nº	wors to carry out its productive activities, including the	
024-18 - 16.03.2018	treatment of solid organic waste, it is required to comply	
	with municipal regulations, signed on March 16, 2018.	
27-Resol. № 523 WORMS	The Ministry of the Environment approves the	
ARG. S.A. EIA	Environmental Impact Study for the construction of the	
	Worms infrastructure, which is used for the mitigation	
	project activity, Resolved Dicember 12, 2017.	
55-Disp. 287-19 Renov. Reg.	A renewal of the Worms activities was presented, but	
RT 0029	the project activity is maintained.	
Permiso vuelco de efluentes	An extraordinary situation arises for a modification, it	
21-06-19 WORMS	does not affect the Project.	
2-WORMS Renovacion	The current President of Worms is Gustavo Néstor	
directorio 2021	Calamari.	

Step 4. ANCE validated that the baseline and quality scenario identification procedures are in accordance with the methodology /a/, /b/, /c/.

Step 5. The procedures of quality were reviewed under the requirements of ISO 14064- 2, the owner of the project shown and explain the process that use for the management data /XIX/. The project owner has environmental management and operational management procedures. The environmental management procedure establishes the methods for environmental risk assessment and measures to control environmental issues. The operating procedure addresses the standardization of the operation, the assignment of responsibilities and the storage of information. The quality control procedure for the calculation of the project's emission reduction estimate (according to IPCC methodologies) was also reviewed /LIV/. It is worth mentioning that this document



provides for the control of project activity data, thus reducing the uncertainty related to the quantification of emission reductions, which is associated with ISO 14064 part 2 2019.

5.5.5 *Additionality*

ANCE reviewed the materiality analysis applied by the project owner, validated and verified the application of the guidelines for the demonstration of additionality methodologies and tools that the owner has applied:

- /a/ TOOLo1 Methodological tool: Tool for the demonstration and assessment of additionality, Version 07.0.0;
- /b/ TOOL23 Methodological tool: Additionality of first-of-its-kind project activities, Version 03.0

It is worth mentioning that during the validation of additionality, the Argentinean legislation on financing of environmental programs was reviewed, in order to rule out that the Project has not arisen from a financing of this nature. The website of the Ministry of Economy of Argentina¹ was reviewed and a list of environmental and social projects was found in which the participation or registration of Worms Argentina S.A. was ruled out. The legislation on composting was reviewed, which only specifies the operation and quality of the compost², and the Constitution /XXXVI/ was reviewed and ruled out any public governmental investment. In this way, it was validated that the Project's reductions are not attributable to the implementation of legal requirements.

The project owner evaluated additionality in accordance with the BCR guidelines, BASELINE AND ADDITIONALITY, Version 1.3, section 8 Other sectors, the owner used the tool provided by CDM-UNFCCC am-tool-o1-v7.0.0.0 evaluating STEP o: First-of-list-kind Project activities, however, to punctuate the analysis of STEP o the project owner used the methodological tool, 23 Additionality of first-of-its-kind project activities Version 03.0.

ANCE validated the following points of the methodology:

Applicable geographical area: the methodology states "must be the entire host country. If project participants choose to limit the applicable geographical area to a specific geographical area (such as a province, region, etc.) within the host country, they must justify the essential distinction between the specific geographical area identified and the rest of the host country." The owner of the Project chose to limit the geographical area to

¹ Financiamiento sostenible. (2023, 7 diciembre). Argentina.gob.ar. https://www.argentina.gob.ar/economia/bonossostenibles

² Argentina.gob.ar. (2019, 10 enero). Argentina.gob.ar. https://www.argentina.gob.ar/normativa/nacional/resoluci%C3%B3n-1-2019-318692/texto



the provinces of Santa Fe, Entre Ríos and Buenos Aires in which the area "polo agroindustrial del Gran Rosario" is covered, which according to the Rosario Stock Exchange³ is considered the area with the largest number of port terminals that are capable of loading grains, oils and/or by-products (such as biodiesel). Therefore, the owner's statement that the main companies that generate agro-industrial waste are located in these areas is correct and is confirmed by the addresses of the shipments reviewed during the on-site verification. Therefore, the geographic area limit of the provinces of Santa Fe, Entre Ríos and Buenos Aires is also validated, instead of considering the entire area of the host country. This condition shall not be changed during the remaining accreditation periods.

The owner presented three companies in the PDD that generate compost from non-hazardous waste management:

Table 20. Other composting companies located in the area

Bioferty	Hi-soil	Compost Plant Bella vista
Conventional composting, without vermicomposting process	Conventional composting, without vermicomposting process	Conventional composting, without vermicomposting process
Raw material: Mixture of household waste, vegetable waste, leaves and agro-industrial waste.	Manure and organic waste	Solid household waste generated by the population of Rosario.
in its web page published: As processors, we provide all the necessary conditions for the composting process to take place and we control it (according to monitoring parameters), adapting the production to the demand of our clients, obtaining compost in the established time and form. The production system begins with the choice of raw materials (from different parts of the country, such as Buenos Aires, Entre Rios, Corrientes, Cordoba, Santa Fe and Chubut, among others), the right	In its website it published: Our first steps were in the composting of horse bedding waste and green waste; today we have one of the largest composting plants in the region in the area of Exaltación de la Cruz (Buenos Aires), where we are producing about 5000 m ₃ of compost and substrates. The materials used for the production of compost come from the collection of animal bedding, from the chipping of branches together with the collection of green waste, and from some industries, such as coffee.	In its website it published: The treatment process makes it possible to use the organic matter contained in the waste to obtain compost, and to recover selected fractions: glass, plastic, ferrous metals and aluminum, which can be recycled into numerous products. The plant currently processes between 90 and 100 tons of waste per day. The waste comes from household collection, carried out by the service concession companies.

³ The agroindustrial pole of Greater Rosario has the capacity to ship 166 M tons of grains per year (2021, July 10). Rosario Stock Exchange. https://www.bcr.com.ar/es/mercados/investigacion-y-desarrollo/informativo-semanal/noticias-informativo-semanal/el-polo



Bioferty	Hi-soil	Compost Plant Bella vista
choice ensures the quality of the final product.		
Sustratos y enmiendas orgánicas - Biofertyl SRL	Hi Soil	Planta de compostaje Bella Vista

Based on what the Project Owner has stated, the vermicomposting process is an additional process among the other companies located in the area (see Table 20), in addition, the waste received by Worms Argentina S.A. is specific to the activities of the port areas (Agroindustrial), it complies with the feedstock switch (a), Switch of technology without change of energy source improving energy efficiency (b) and different technology.

Finally, the Project Owner has declared that the accreditation period of the Project is 10 years with no option for renewal, which must be maintained in the following accreditation processes.

According to what is mentioned in the Project Document and the analysis performed, ANCE confirms that the Project complies with the requirements of the methodological tool Tool 01: Tool for the demonstration and assessment of additionality Version 07.0.0, point 4.1 and Tool 23: Additionality of first-of-its-kind project activities version 03.0, paragraph 12 (a), (b) and (c).

5.5.6 Conservative approach and uncertainty management

During the validation and verification of the Project, the lead evaluator confirmed the information section for the baseline and scenario calculation of the Project, which was extracted from official sources and/or elaborated by the designated entities for each activity, which contributed to the reduction of uncertainty, although several adjustments have been made during the validation and verification process, the Project managed to provide the necessary justification for the changes made and the methodological tools have been used following the steps described in these.



In the Monitoring Report /XXV/ the uncertainty of the mitigation results was considered and evaluated by reviewing the calibration of the scale serial number P340, authorized by the National Institute of Industrial Technology (I.N.T.I.) /XXXVII/ for the years 2019, 2021, 2022, due to the fact that the Project owner did not submit the calibration for the other years in the baseline estimation calculation, the conservative principle of reducing by 2% the amount of solid waste (*Wj*,x) was applied with the motive of occurring an underestimation that in an overestimation of GHG emission reductions (principle of ISO-1406464-2:2019). The ANCE team verified the data of the waste shipments generated at the entrance to the composting plant at the truck scale, interviewed the process managers and reviewed the internal operating procedures, in order to ensure the accuracy of the procedure. Also, official data issued by the country are considered for the electric power emission factor /XV/ and the diesel combustion emission factor /XVI/, and the owner of the project reviewed the data from the latest versions of the CDM and IPCC methodologies. This validates the correct application of uncertainty in the project.

5.5.7 Leakage and non- permanence

ANCE reviewed the Leakage and non-permanence analysis applied by the owner of the project and validated the application of the guidelines demanded by the BCR tool "PERMANENCE AND RISK MANAGEMENT" Version and the BCR Standard section 12.3.

The Project owner took into account those described in the Methodological Tool AMS-III-F Vesion 12.0 in its section 5.5 Leakage, para.27 "If the project technology is the equipment transferred from another activity or if the existing one is transferred to another activity, leakage effects (*LEy*) should be taken into account" (analogous to what is described in the Methodological Tool "Project and leakage emissions from composting" Version 01.0.0, point III. LEAKAGE EMISSIONS PROCEDURE) for the determination of leakage risk in the project. ANCE validated that this condition is not present in the operation of the Project, during the site visit it was observed that the composting operation is fixed, located in Industrial Sector 3 Prof. Nucci St. S/N between Buenos Aires highway and San Martin street, Arroyo Seco, Santa Fe, Argentina, WORMS Argentina S.A. has its own equipment for the operation and there is no transfer of equipment from another activity, the owner adheres to the activities of which it has declared in its operating license /XXXV/ and that any deviation would be subject to a fine or suspension.

Regarding para. 28 In case compost is stored under anaerobic conditions or disposed in a SWDS, leakage will be calculated to account for methane emissions from anaerobic decomposition of compost. The relevant procedures in the leakage part of the methodological tool "Compost Leakage Project and Emissions from Composting" shall be followed. This condition is also not applicable because during the site visit it was observed that the solid waste is located in an open composting area, the composting field is assembled, it is subjected to a maturation process and it is decided whether the waste will be treated by composting or vermicomposting, after this it is subjected to a maturation process and tests are made to check the quality of the compost: "This period is considered to be fulfilled when the periodic temperature controls indicate that the values recorded



for a pile have stabilized. At that point the supervisor decides to remove the pile to form a pile that occupies a smaller area and reaches a height of up to 4 meters. At that point the composting period begins. At this point the compost maturation period begins. The maturation of a pile can lasts between 1 and 2 months, a period in which the biological equilibrium of the mass takes place, where a gradual decrease in the temperature of the material should be observed. During this time, the temperature of the material should continue to be monitored, and any increases in temperature that indicate that the fermentation process has not been fully completed should be reported. In these cases, the pile should be removed to favor ventilation and avoid undesired temperature increases⁴. This rule out storage under anaerobic conditions, and the compost obtained by this procedure is stored in big-bags and marketed as a soil improver, so it is not discharged into a SWDS.

5.6 Monitoring plan

The monitoring plan provided by Worms Argentina S.A. meets several of the specified criteria required by the BCR Standard, particularly in the areas of GHG reduction monitoring, quality control, and sustainable development objectives. Here's an analysis of how the provided text aligns with each criterion:

- a) Procedures for Management of GHG Reductions or Removals and Related Quality Control: The monitoring plan outlines detailed procedures for managing GHG reductions, including tracking fossil fuel and electricity consumption, and monitoring compost pile temperature and moisture levels. Quality control is assured through periodic laboratory testing, double verification of field data, and annual audits /XIX/. This aligns with quality assurance and GHG management requirements by ensuring accurate data collection, quality of the compost, and tracking potential GHG emissions from machinery and trucks.
- b) Description of Methods for Periodic Calculation of GHG Reductions or Removals and Leakage: The monitoring plan describes methods to calculate emissions from fuel and electricity use, as well as emissions reductions from composting versus landfill methane emissions /II/. Leakage is considered negligible, as the composting facility is located next to the landfill, thus avoiding transportation emissions. Additionally, the AMS-III.F Version 12.0 methodology is referenced to ensure correct GHG quantification without leakage effects.

⁴ Environmental compliance report, Annex A of IAC Form V.2.10 SD. Report issued by an environmental expert for compliance with the environmental regulations of the Province of Santa Fe "Once the Categorization is received by the Ministry of Environment and when required by the same - Category 2 or 3 - the proponent must submit an Environmental Compliance Report (IAC). This procedure allows obtaining the Environmental Aptitude Certificate, which exclusively certifies compliance with the environmental regulations of the Province".



- c) Assignment of Roles and Responsibilities for Monitoring and Reporting: The plan indicates that monitoring responsibilities are distributed among operators, area managers, and laboratory personnel. Supervisors are responsible for final checks on compost quality, while lab personnel handle double-verification of data, ensuring accuracy in monitoring and reporting.
- d) Procedures for Assessing Project Contribution to Sustainable Development Goals (SDGs): During the on-site verification, compliance with the Sustainable Development Goals (SDGs) was assessed through interviews and document reviews /XXVII/. The Project Holder demonstrated alignment with SDGs 9, 11, 12, and 13:
 - SDG 9 (Industry, Innovation, and Infrastructure): The Project Holder reported a 40% increase in employees during the monitoring period, verified through the payroll document /XLIX/, with a projected 63% increase in local hires by 2028.
 - SDG 11 (Sustainable Cities and Communities): The project focuses on agroindustrial waste treatment, which represents a significant proportion of the local economy. Waste entry logs used for emission reduction calculations were reviewed to validate this contribution.
 - SDG 12 (Responsible Consumption and Production): The composting activity adheres to the principles of reuse and recycling. While Worms does not control waste generation, it plays a key role in transforming the region's most significant agro-industrial residues as outlined in the project scope.
 - SDG 13 (Climate Action): The project contributes to combating climate change by avoiding large methane emissions. Baseline reduction variables and waste quantities for the accreditation period were reviewed, confirming that the indicators registered by the Project Holder are accurate.

This demonstrates that the project has implemented procedures to assess its contributions to the identified SDGs effectively.

- e) Criteria and Indicators for Sustainable Development Objectives: The criteria related to compost quality, environmental protection (via controlled dust and flood mitigation), and operational efficiency support sustainable development. The document further mentions efforts to comply with national composting standards, inclusive, the owner shall declare the characteristics of the compost in order to obtain a Product Suitability Certificate, according to Law N° 20466 /XVIII/, aligning with indicators for improved environmental and agricultural practices.
- f) Community Participation in Project Design and Implementation: does not apply since the project has been operating since 2018. Currently the project is not located near urban areas, so the main stakeholders are workers, government, clintes and suppliers.



- g) Detailed Information for Monitoring Activities, Assessing Mitigation Results, and Quality Control: Detailed parameters for monitoring (e.g., fuel consumption, temperature and moisture control in compost, and lab verification) are provided, ensuring thorough assessment of mitigation outcomes. Additionally, the project owner has a general QA/QC procedures /LIV/ for project ghg emission reductions, which strengthens the accuracy of the estimate considering the uncertainty and review of calculation variables.
- h) Monitoring of Co-Benefits of the Special Category, if Applicable: Not Applicable/No Evidence Provided.
- i) Necessary Data and Information to Estimate GHG Reductions or Removals: The plan includes detailed data collection on fossil fuel and energy consumption, compost pile monitoring, and product quality, providing the necessary information to estimate GHG reductions during the quantification period.
- j) Baseline or Reference Scenario Data and Supplementary Information: The baseline scenario, as inferred from the composting activity replacing landfill disposal, is described. The baseline is effectively addressed through referenced methodology.
- k) Specification of Potential Emissions Occurring Outside the Project Boundaries (Leakage): The plan identifies that compost transport emissions are excluded, as the facility is adjacent to the landfill. The AMS methodology also clarifies that leakage is not applicable due to the technology used.
- Assessment of Environmental and Social Effects: Environmental effects, such as dust control and flood prevention, are monitored, and quality control ensures environmental standards are met. Social effects are not directly mentioned, though the project indirectly benefits the community by reducing waste and improving soil health.

The monitoring plan for Worms Argentina S.A. aligns well with criteria, ensuring comprehensive GHG reduction monitoring, quality control, and sustainable development contributions. Minor improvements could enhance compliance, such as explicitly addressing community involvement and linking project activities to specific SDGs.

Project monitoring was evaluated as follows:

Step 1.- during the site visit, the main energy sources that generate greenhouse gases were validated. For this Project it was the diesel consumed by the mobile equipment and the electrical energy of the luminaire.

Step 2.- All the calculation variables involved in the estimation of emissions from composting were identified. They are shown in the following table.

Step 3.- The scenario in which the composting project did not exist was validated, which would have been the deposit of the waste in an open dump.



Step 4.- The calibration of the scale that receives the waste, which is subject to annual monitoring, was requested. The mitigation results was considered and evaluated by reviewing the calibration of the scale serial number P₃40, authorized by the National Institute of Industrial Technology (I.N.T.I.) /XXXVII/ for the years 2019, 2021, 2022, due to the fact that the Project owner did not submit the calibration for the other years (2018, 2020 an 2023) in the baseline estimation calculation, the conservative principle of reducing by 2% the amount of solid waste (Wj,x) was applied with the motive of occurring an underestimation that in an overestimation of GHG emission reductions (principle of ISO-1406464-2:2019).

Step 5.- the quality procedures related to the measurement and control of waste and composting were reviewed. The information necessary for the estimation of emissions a) according to the methodology /a/, /c/ used for the project activity is the measurement of non-hazardous waste, this data is directly involved in the equations for the estimation of emissions of the baseline scenario and the project scenario.

For the project emissions, the estimation of fuel consumption (diesel) and electricity consumption used in the project activity are also considered important data.

- a) During the validation and verification carried out by ANCE, it was observed that, through the shipments and manifests /IX/, /X/, /XI/, /XII/, XIII) there is a continuous monitoring of the weight reported in the documents, ANCE carried out a sample review of physical documents, reaching a sample of 922 documents. The project holder submitted the calibration of the scale Act of sealing and verification (OTN° 307-15719) 2019 /III/.
 - For electricity and diesel consumption, the project owner made an estimate based on the equipment specifications Actual fuel used.xlsx /XXVI/, ANCE validated the application of the estimate in the Project's emissions calculation.
- b) The baseline estimate calculation was validated using as monitored data the amount of waste that would be destined to a site, the consideration applied is that the amount of waste treated by the project activity is the amount that would be destined to a disposal site.
 - The monitoring for the estimation of emissions is carried out according to the verification periods stipulated by the project and under the guidelines of methodologies /a/, /b/, /c/. In each verification period the activity data must be monitored. The emission factors to be considered correspond to those validated and presented in this section of the report.
- c) To estimate the reductions, the values to be monitored are as follows:



Table 21. Values to be monitored

Data	Concept	Monitoring	Data source	Responsible
$W_{j,x}$	Amount of solid waste (wet basis) of type j disposed of or whose disposal has been avoided in the SWRS in year x (t).	Monitoring in the project / Annual	Shipments and manifests	Andres Beltramo Commercial Manager
$\mathrm{EC}_{PJ,j,\}y}$	Amount of electricity that would be consumed by baseline k in year y	Estimate / Annual	Calibration of INGAPSA receiving platform, model TTH21, serial number P340. /III/, /IX/ to /XIII/.	Andres Beltramo Commercial Manager
$FCi_{i,j,y}$	Amount of fuel type i burned in process j during year y	Estimate / Annual	Diesel and electric energy consumption file "Actual fuel used.xlsx" /XXVI/.	Andres Beltramo Commercial Manager
$DOC_{f,y}$	Fraction of degradable organic carbon (DOC) that decomposes under the specific conditions given in the SWDS for year y (fraction by weight).	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant
$\varphi_{\mathcal{Y}}$	Model correction factor to account for model uncertainties for year y.	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant
OX	Oxidation factor (reflects the amount of methane from SWDS that is oxidized in soil or other material covering the waste).	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant
MCF_y	Methane correction factor for year y.	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant
DOC_j	Fraction of degradable organic carbon in waste type j (fraction by weight)	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant
k_j	Decomposition rate of waste type j (1/year)	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant
j	Type of waste or types of waste in MSW	Not monitorable	Methodology /c/	Marcos Méndez environmental consultant

d) ANCE's verification team reviewed the information regarding the environmental effects that could be caused by the project's activities. A documentary review of the



monitoring plan was conducted, and it was observed that the environmental aspects evaluated by the owner were impacts to soil, aquifers, atmospheric emissions, and wastewater discharges.

As a follow-up action, interviews were conducted on the day of the site visit to find out how these impacts were managed and to ensure that the project did not have a negative impact on the environment. The project manager (Andrés Beltramo) mentioned that WORMS was committed to caring for the environment and had an environmental manual /XXXVIII/ and an environmental management system /XXXIX/ establishing environmental commitments and monitoring environmental indicators in order to track and measure environmental impact. During the verification, compliance with the control of environmental indicators was evaluated based on the results of the environmental studies presented: air monitoring and water monitoring (both with parameters within the permissible limits established by regulations). In addition, the latest renewal of WORMS Argentina S.A.'s operation, by provision No. 0287/19 DGDZS /XL/, requires WORMS to have an environmental insurance policy (in compliance with General Environmental Law No. 25,675). In conclusion, the environmental effects inherent to the Project activity are controlled by the Project owner.

Table 22. Environmental aspect's evaluation

Environmental aspect	Evaluation	Monitoring
SOIL RESOURCE PROTECTION PROGRAM	The project owner implements a subprogram to detect hazardous waste and prevent spills; Performs the necessary operations to prevent overflows or flooding.	Yearly
WATER RESOURCE PROTECTION PROGRAM	The project owner carries out the evaluation of water quality parameters in the extraction well.	Yearly
AIR QUALITY REPORT	The project owner performs the air quality assessment, including ppm (parts per million) and hydrogen sulfide, and subcontracts an authorized third party to carry out this operation.	Yearly
WATER QUALITY ANALYSIS	The project owner carries out the evaluation of wastewater discharge parameters, subcontracts an authorized third party to carry out this operation.	Yearly

e) ANCE validated that the project owner has operational procedures /XIX/ to /XXII/ for the management of solid waste entering the composting plant, which ensure the quality of the compost and the amount of waste treated used for the calculation of estimated GHG reductions. These procedures describe the activities that the project activity personnel must carry out from the arrival of the trucks, registration on the scales, taking quality parameters at reception, waste storage and formation of compost beds (compost and vermicompost) and completion of the process until packaging.



ANCE reviewed that the owner of the project applied the procedures for managing the calculation of GHG reductions /XIV/. The owner uses a spreadsheet to compile information on the weight of non-hazardous waste entering the composting process for each accreditation period, segregating by baseline scenario, project emissions, leakage and reductions obtained. Subsequently, the owner identifies the variables and calculation factors that apply to each period and performs the calculation of estimated emissions for the project and baseline scenario.

- f) The project owner has defined that the calculation of the reduction estimate will be every 3 years, as established in the monitoring report, based on the reduction estimate spreadsheet for Project /XIV/, and that the document review validated that the calculation variables and factors are in accordance with the AMS-III.F. version 12.0 methodology based on the recalculation validation activity in accordance with the BCR's VVM.
- g) During the validation of the project, the assignment of roles and responsibilities for following up on the project activities was reviewed by means of an interview; Table 21 shows those responsible for monitoring follow-up.
- h) The project Treatment of non-hazardous industrial waste to obtain Biocompost correctly applied the "Tool for the determination of contributions to the Sustainable Development Goals (SDGs) of Greenhouse Gas (GHG) mitigation projects" /XXVII/, in accordance with the provisions of the standard.
- i) The Monitoring Plan established by the project establishes a clear mechanism to identify each SDG, associated activities, requirements, responsible party, indicators and monitoring frequency, among others. This is considered by ANCE as adequate in terms of the procedure established for the evaluation of each monitoring.
- j) According to the SDG Tool, it was identified that some SDGs were indicated by default, which implies that they are mandatory. Consequently, the project identified those indicators and targets applicable by SDG, as follows.

Table 23. SDG Evaluation

SDG	Indicator	Goal
SDG 9. Industry, Innovation and Infrastructure.	9.2.2 Manufacturing employment as a proportion of total employment	Proportion of local people employed in total number of employees.
SDG 11. Sustainable Cities and Communities	11.6.1 Proportion of urban solid waste regularly collected and with adequate final discharge out of total urban solid waste generated, by cities.	
SDG 12. Responsible consumption and production	12.5.1 National recycling rate, tons of material recycled	Biocompost production



SDG	Indicator	Goal
SDG 13 - Climate action	13.2.1 Number of countries that have communicated the establishment or operationalization of an integrated policy/strategy/plan which increases their ability to adapt to the adverse impacts of climate change, and foster climate resilience and low greenhouse gas emissions development in a manner that does not threaten food production.	Emissions Reductions of the Project activity.

After the documentary review and the site visit, ANCE considers that the information expressed in the Document Proyect, the Monitoring Plan and the BCR monitoring tools are correct.

5.7 Compliance with applicable legislation

The owner of the Project complies with the legislation that involves the project activity, being the compliance reference the Joint Resolution No. 1/2019 of the NATIONAL AGRICULTURAL HEALTH AND FOOD QUALITY SERVICE (SENASA), for compliance with the described, it was validated that the owner of the project has the procedure PE-8.2 Compost quality control /XIX/.

In addition, the necessary procedures for compliance with the Argentia legislation of the Province of Santa Fe and the Municipality of Arroyo Seco were evaluated (see table 24).

Table 24. Applicable legislation

Authority	Government level	Law	Analysis	Compliance
H. Municipal Council of Arroyo Seco	Municipal	Ordinance 2862/20	During the document review as part of the project validation, the Project Holder presented Decree 0492/17, which grants land use compliance to Worms Argentina S.A. 7-Otorgamiento uso conforme de suelo A. Seco 29-06-2017.pdf	Yes.
H. Municipal Council of Arroyo Seco	Municipal	Ordenance 2862/20	During the document review as part of the project validation, the Project Holder presented Resolution 024/18, which authorizes the activity of treating non-hazardous liquid and solid organic waste under the name of Worms Argentina S.A. The resolution conditions the holder to only carry out registered activities, in this case, the treatment of solid waste (cereals, oilseeds, and cork wood residues). 34-Habilitación Munic. Planta A. Seco - Resol.Nº 024-18 - 16.03.2018.pdf	Yes.



Authority	Government level	Law	Analysis	Compliance
Province of Santa Fe Ministry of the Environment	State	REGULATOR Y DECREE OF LAW N° 11.717 Decree N° 0101	Worms Argentina S.A. is declared a non-hazardous waste treatment company and identified with Registration RT 0029, with permission to treat the following waste: - Cereals and oilseeds - Cork and wood residues The specified methodology/technology involves the production of compost and vermicompost to be marketed as soil improvers.27-Resol. Nº 523 WORMS ARG. S.A. EIA.pdf	Yes.
Province of Santa Fe Ministry of the Environment	State	DECRETO REGLAMENT ARIO DE LA LEY N° 11.717 DECRETO N° 0101	During the document review as part of the project validation, the Restricted Environmental Certificate was presented through Resolution 4o6. This mandatory procedure establishes the requirements for submission and processes for Environmental Impact Studies (EIA). The Project Holder submitted the approved EIA through Ministerial Resolution N° 0536/17. WORMS RES. 4o6.pdf	Yes.

5.8 Carbon ownership and rights

Through interviews during the site visit, ANCE validated that the ownership of the carbon credits belongs to WORMS ARGENTINA S.A.

The contractual agreement /XXX/ between POLARIS NETWORK ESPAÑA SL and Worms to validate the ownership of the carbon credits was reviewed, in the third section it is specified that Worms contracts with Polaris for the purpose of consulting on carbon footprint issues, in the fourth section the Project for solid waste processing is specified and in the the seventh section the payment agreement is specified.

During the validation, it was checked that the project activity is not registered to other emissions trading programs (CDM, Gold Standard, VCS, CERCARBONO, CSA GHG Clean and Climate Action Reserve project registry) or other forms of environmental crediting and is not part of any compliance scheme (binding caps). ANCE reviewed the websites of each of the GHG programs. This project is considered to be a first-time application to any GHG scheme. Below is the analysis that was carried out to validate that the project is the first of its kind, in some schemes there are waste projects but none worked with the CDM - AMS-III.F._Avoidance methodology of methane emissions through composting.



Table 25. Assessment and cross-checking of registries projects.

Registry	Website	No ·	Waste's Projects	Methodology used
BCR	https://globalcarbontrace.io/projec ts?project_id=&project_name=&hol der=§or=3&projectType=&obje ctive=&status=&country=	1	PROCESS OF NON-HAZARDOUS AGROINDUSTRIAL LIQUID ORGANIC WASTE	CDM - AM0057
Cercarbono	https://www.ecoregistry.io/projects -list/cercarbono-co2	0	NA	NA
			Granja Tres Arroyos Methane Avoidance in Slaughterhouse Effluents Project Salta Landfill Gas Capture	AMS-III.I. ver. 4 AMS-I.D. ver. 13
			Project	AMS-III.G. ver. 5
			Methane capture and destruction on Las Heras landfill in Mendoza, Argentina	AMS-III.G. ver. 6 AMS-I.D. ver. 13
	https://cdm.unfccc.int/Projects/projects/html	9	Biogas recovery and Thermal Power production at CITRUSVIL Citric Plant in Tucumán, Argentina	AMS-III.H. ver. 10 AMS-I.C. ver. 13
CDM			Methane Gas Capture and Fuel Switching at Compañía Argentina de Levaduras S.A.I.C. Plant Project	AMS-III.H. ver. 16 AMS-I.C. ver. 18
			Pindó Biomass Energy Generation from Forest Biomass	AMS-III.E. ver. 16 AMS-I.C. ver. 16
			Methane recovery in wastewater treatment in Famailla fruit processing plant, Tucuman, Argentina	AMS-III.H. ver. 16
			Las Camelias Biogas Energy Project from Wastewater Treatment.	AMS-III.H. ver. 16 AMS-I.C. ver. 19
			Anaerobic Digestion and Energy Generation at Semino Starch Plant Project	AMS-III.H. ver. 16
VERRA	https://registry.verra.org/app/searc h/VCS	0	NA	NA
Gold Standard	https://marketplace.goldstandard.o rg/collections/projects/renewable- energy	0	NA	NA
CSA	https://www.csaregistries.ca/GHG_ VR_Listing/CleanProjectProjects	0	NA	NA

5.9 Risk management

The project has taken several actions to ensure its maintenance over time, primarily through a combination of stakeholder engagement, operational stability, and contingency planning. Here's an outline of the actions taken:

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Ex-Post Status and Established Operations: The project has been operational since 2018, demonstrating sustained activity over multiple years. This ex-post status indicates a well-established project that surrounding companies rely on, which reduces the likelihood of premature closure or discontinuation. The continuity of operations is further supported by the established relationships and contracts with local stakeholders, which indicate a long-term commitment.

Stakeholder Contracts and Commitments: The project involves existing contracts with stakeholders, which secures long-term engagement and commitment from the involved parties.

Risk Management and Contingency Planning: A comprehensive risk management plan has been developed, identifying potential environmental, financial, and social risks. Although all risks were rated as low, the project has outlined mitigation measures for each, including emergency response protocols and financial diversification strategies. This plan includes provisions to escalate and monitor risks if they increase in impact, which ensures that the project can adapt to challenges over time.

Expansion and Growth Strategy: The project holder has outlined an expansion plan to increase suppliers and clients, which is expected to strengthen the project's financial foundation. By diversifying income sources and expanding its operations, the project aims to maintain a steady cash flow, reducing financial vulnerability and enhancing its capacity to endure over the long term.

Commitment to Self-Sufficiency: One of the social risk mitigation strategies includes ensuring that the project can operate independently of governmental support, emphasizing self-sufficiency. This approach reduces dependency on external funding or policies that might change over time, which contributes to the project's longevity.

Provisions for Future Risk Mitigation: Although all current risks are rated as low, the project includes measures that can be activated if any risk increases in future monitoring periods. This flexibility within the risk management framework helps ensure the project's resilience over time.

The project holder conducted a thorough identification of risks across environmental, financial, and social dimensions, using the BCR Tool Permanence and Risk Management Version 1.1. This tool provided a structured framework to assess potential risks and assign scores based on their likelihood and potential impact. Here's how each dimension was addressed:

- 1. Environmental Risks: The project holder identified potential environmental risks related to natural phenomena and operational hazards. Each environmental risk was scored as low, with specific mitigation measures outlined:
 - Flooding: Scored as low, with mitigation measures including road and water reservoir maintenance, as well as the suspension of operations in case of flood risk.



Drought: Scored as low, with measures to diversify suppliers, ensuring continuity in production if local suppliers are affected by drought.

Thunderstorms: Scored as low, with mitigation through the installation of lightning rods to reduce the risk of damage from lightning.

Fire Risks: Potential risks from forest or grass fires and composting processes were scored as low, with an emergency response plan and preventive protocol in place.

Transportation and Personnel Safety: Scored as low, with measures such as road maintenance, signage, and first aid training to reduce the risk of accidents.

These measures show that the project holder has considered both natural and operational risks in its environmental planning, with protocols in place to respond to these events.

2. Financial Risks: The project holder assessed potential financial risks that could affect the project's cash flow and cost structure. Each risk was identified as low, with preventive measures in place:

Increase in Costs and Expenses: Scored as low, with a diversification strategy in which the company has multiple revenue-generating activities. This allows profits from one activity to support another if necessary, providing financial flexibility.

Low Cash Flow: Scored as low, with a plan to expand the number of suppliers and clients, thus increasing business volume and cash flow to mitigate cash flow risks.

These financial risk mitigation strategies focus on creating a stable revenue stream and flexibility in operations, helping to safeguard the project's financial health.

3. Social Risks: Social risks were evaluated in terms of community engagement and alignment with local government priorities. Each social risk was scored as low, with actions to maintain positive relationships and manage stakeholder expectations:

Changes in Government Priorities: Scored as low, with measures to ensure the project's independence from government assistance and to maintain operational autonomy. The project holder also engages closely with local governments to align on policy matters.

Communication with Stakeholders: Scored as low, with a communication and consultation plan implemented to ensure alignment with stakeholders and address any concerns proactively. By addressing potential shifts in governmental priorities and ensuring effective stakeholder communication, the project holder demonstrates an awareness of social dynamics and a proactive approach to managing community relationships.

All risks were scored as low, meaning less than a 5% impact on the project's carbon benefits, with mitigation strategies outlined for each category.



These actions collectively demonstrate that the project holder is taking significant steps to ensure the permanence of GHG reduction activities. The project's operational stability, financial resilience, risk management, and stakeholder engagement all contribute to maintaining the benefits over time, in compliance with the terms and conditions of the BCR.

Compliance with mitigation measurements of assessed risks.

a) The assessment of environmental risck shown in the next table:

Table 26. Environmental risk.

N°	Mitigation measurements	Assessment by ANCE
1	Road and water reservoir maintenance. Suspension of operations in case of risk of flooding.	During the on-site verification, it was observed that a water truck was spraying water on the roads to prevent dust particles from spreading. The water reservoir was also observed, where treated water from a process independent of the Project is stored. The risk of flooding is actually low, as the Paraná River is located 5 km from the project site. A review of flood reports showed that the affected areas are primarily residential zones along the riverbanks.
		Regarding rainfall, the project holder mentioned in an interview that part of the facility preservation activities includes maintaining the internal protection channels and external storm drainage channels, ensuring they are kept clear of blockages and vegetation.
	Diversification of suppliers to find those not affected by the drought to maintain the levels of production stable.	The project holder explained that this measure relies on another activity by Worms Argentina S.A., which handles liquid waste treatment, producing treated water as a byproduct. Since it is agro-industrial waste, and as mentioned in the Additionality analysis, the area is prolific, being one of the largest generators of agricultural products. Therefore, ANCE agrees that water scarcity due to drought is a low risk.
3	Lightning rod installation	Based on the Risk Study and as observed during the on-site visit, the project is equipped with lightning rods.



N°	Mitigation measurements	Assessment by ANCE
4	24 hours security with perimeter fencing, cameras and access control.	During the on-site verification, access was gained through a security module where registration as a visitor was required. Additionally, it was observed that a security guard inspected waste transporters, which is also documented in procedure PE-8.2-02 /XXI/.
5	Emergency Response Plan. Alarm and start of preventive protocol to avoid damage to combustible materials in storage.	Plan, and the risk is low because the stacked waste and compost maintain the humidity
6	Demarcation, signaling and maintenance of internal streets and access. Accident prevention and first aid courses.	During the site visit, signage for vehicle traffic was observed, as well as road maintenance through watering.

b) The assessment of finacial risck shown in the table 27.

Table 27. Financial risk

N°	Mitigation measurements	Assessment by ANCE
1	2	Worms Argentina has two additional activities: liquid waste treatment and tire waste treatment, in accordance with
2	Continuation of the expansion plan to increase the number of suppliers and clients increasing the business volume and cash flow.	quality service provided by Worms Argentina S.A. is a way to attract new clients.

c) The assessment of finacial social shown in the table 28.

Table 28. Social risk

N°	Mitigation measurements	Assessment by ANCE
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1	Implementation	of	the	The interaction between the Project's
	communication		and	stakeholders was reviewed, and it was noted
	consultation plan	to aligne	d the	that there is a declaration from the
	different	stakeho	lders'	Municipality of Arroyo Seco stating that
	priorities.			Worms Argentina S.A. has no complaints or
				reports against it /XLI/.

5.10 Environmental aspects

The ANCE validation team evaluated, based on the NNH tool of the BCR Standard, the requirement that the project holder must carry out an environmental assessment to analyze the effects on biodiversity and ecosystems and, in case adverse effects are identified, define corrective measures to prevent or mitigate the environmental impacts of greenhouse gas (GHG) project activities.

During the information review, the Project Holder presented programs for environmental protection:

Soil Resource Protection Program:

Hazardous Waste Management Subprogram: This subprogram focuses on the segregation of hazardous waste at the point of generation and the proper storage of unforeseen hazardous waste. This helps to minimize soil contamination risks and aligns with waste management principles that BCR would likely consider favorable for reducing ecosystem impacts.

Drainage and Flood Control Subprogram: This subprogram ensures that the natural water flow is not altered, which is relevant for soil biodiversity and the preservation of local ecosystems. This type of management respects the natural environment and helps prevent the alteration of local habitats.

Water Resource Protection Program:

Groundwater Monitoring Subprogram: Groundwater sampling is conducted to ensure that extraction activities do not alter the hydrogeological profile of the resource. This program not only monitors water quality but also assesses the long-term impact on aquifers, which is a proactive measure to prevent negative impacts. This approach aligns with BCR requirements, as it allows the identification and mitigation of potential impacts on water resources, a key ecosystem component.

Air Quality Report:

Worms Argentina has implemented monitoring of particulate matter (PM10) and hydrogen sulfide (H2S) in the air. The levels obtained are within the permitted limits, indicating that plant activities do not contribute to air pollution at harmful levels for the



environment. Although the BCR does not specifically mention air quality, monitoring airborne pollutants reduces indirect impacts on biodiversity and supports a healthy environment.

Water Quality Analysis:

The water monitoring conducted ensures there is no negative impact on groundwater quality, and the parameters comply with legislated limits. This analysis is essential to verify that there are no adverse effects on natural resources or local biodiversity, which fulfills the BCR's evaluation requirement regarding the effects of activities on ecosystems.

The ANCE team validated the programs presented by the Project Holder, which must be evaluated during accreditation periods in accordance with the monitoring plan.

5.11 Socioeconomic aspects

To assess how the project holder (Worms S.A.) applied the BCR No Net Harm tool criterion for analyzing the significant socioeconomic effects of the project, several aspects can be highlighted as meeting the standard:

- 1.- Compliance with Socioeconomic Analysis: As a certified B Corporation (BCorp)⁵, Worms S.A. demonstrates a commitment to social and environmental impact. This certification involves an ongoing assessment of social and environmental responsibility that goes beyond mere economic profitability, aligning well with the BCR criterion aimed at analyzing significant socioeconomic effects.
- 2.-Description of the Local Context: ANCE team observed how Worms S.A. evaluated the local demographics and labor conditions, including an analysis of the population and economy in Arroyo Seco⁶. They identified that the local economy relies on agriculture and livestock and that the economic crisis has affected purchasing power and increased unemployment. This context provides a clear understanding of the socioeconomic environment, which is essential for anticipating and contextualizing the project's effects.
- 3.- Evaluation of Proximity and Neighboring Conditions: ANCE verified that the facilities are located more than 2 kilometers (By Googleearth) from any populated center, thus avoiding direct impacts on nearby homes. They also analyzed the property boundary conditions, concluding that its neighbors are agricultural lands and other similar facilities (e.g., a pig farm) and that access roads may cause dust.

⁵ Worms - Certified B Corporation - B Lab Global

⁶ Arroyo Seco en la provincia de Santa Fe - Municipio y gobierno municipal de Argentina

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This indicates that the project's effects on the immediate community are limited due to the location and neighboring conditions.

- 4.- Evaluation of Indigenous Communities or Traditional Territories: Worms S.A. confirmed the absence of indigenous communities or traditional territories⁷ near the project through the National Institute of Indigenous Affairs (INAI), complying with the BCR criterion to ensure that the project does not affect culturally sensitive or protected areas.
- 5.- Identification of Socioeconomic Effects: Worms S.A. concludes that the project has positive effects, such as environmental improvement, an increase in local employment, and the reuse of waste generated by neighboring companies. They declare that there are no significant negative effects, so no corrective actions have been established.

These conditions should be evaluated in the upcoming accreditation periods according to the Monitoring Plan; in the event of a negative impact, a corrective action protocol must be implemented.

6 Verification findings

The verification process executed by ANCE, through its Validation/Verification Body for GHG Emission Declarations and Projects was performed under the approach defined by ISO 14064-3:2019. Specification with guidance for the validation and verification of GHG declarations. The above, to provide a reasonable level of assurance that the GHG reductions reported in tons of CO2 equivalent and the information integrating the Project Treatment of non-hazardous industrial waste to obtain Biocompost, were prepared taking into consideration the requirements of the Biocarbon Registry Standard version 3. 2, the GHG Project Validation and Verification Manual version 2.3 and the corresponding 14064-2:2019 Specification with guidance, at the project level, for the quantification, monitoring and reporting of emission reductions or enhancement of greenhouse gas removals.

In order to ratify the information analyzed during the documentary review, on December 5 and 6, 2023, the on-site inspection of the sources indicated in the sampling plan related to the calculation of estimated emission reductions was carried out, verifying the evidence supporting the information and data documented by the project proponent.

The following processes were considered for the activities associated with this phase:

⁷ https://www.argentina.gob.ar/derechoshumanos/inai/mapa



- Evaluation of the identification of reportable GHGs associated with project activities.
- Applications of AMS-III.F., Small-scale methodology: Avoidance of methane emissions through composting. Version 12.0 /a/ and its references /b/, /c/, /d/, /e/.
- Evaluation of the processes of emission source identification, emission reductions, request, collection, consolidation, transformation and reporting of consumption and production data used for the quantification and reporting of the GHG emission reductions project.
- Evaluation of the evidence supporting the consumption and production data associated with the project activity.
- Evaluation of the controls associated with the information systems used by the project owner.
- Evaluation of the routines for the control of input, transformation and output errors of the data and information used for the project.
- Evaluation of the review processes carried out by the personnel responsible for the project.
- Evaluation of the methods to ensure that the equipment associated with the monitoring and measurement of project data is calibrated and properly maintained, as well as the methodologies implemented for the calculation of estimated values at the facility.

As a complement to the aforementioned activities, ANCE conducted interviews with people directly and indirectly related to the project activity considering the associated process/activity or fuel/inputs.:

Table 29. Interviews

Name	Position Process/activity		Interview
rvaric	and/or area	or associated input	in
Marcos Méndez	Environmental consultant	Project Description Tour of the project facilities Methodologies Monitoring plan Sustainable development Environmental impact and Baseline and monitoring	Remote
Andres Beltramo	Commercial Manager	Collection and safekeeping of non- hazardous waste manifests and shipments Consultation with local stakeholders Argentine regulatory framework	On-site



Name	Position and/or area	Process/activity or associated input	Interview in
Berlits López Camargo	Technical laboratory manager	Parameters and quality control of the composting process	On-site
Víctor Lepera	Commercial Manager	Strategic Process Management	On-site
Fernando Molinari	RRII	Carbon market advisor	On-site

Derived from the verification activities carried out by the lead verifier, the following findings were established (the analysis is shown in <u>Annex 2</u>):

Table 30. Verification findings

No.	Reference to noncompliance	Description of finding	Type of nonconformity: (CAR, CL, FAR)
1	Paragraph 6.3.2.2. of Tool 04. Tool 04, Emissions from solid waste disposal sites, V. 08.0	During the validation and verification carried out in documents and on site, it was found that the quantities of non-hazardous organic waste used for the calculation of estimated reductions differed from those found in the manifests and shipments received by the organization (solid waste records folder), causing a material difference.	CAR
2	6.7 Quantification of GHG emissions and/or GHG removals, Standard 14064 part 2, 2019.	During the validation and verification of the project, it was found that there are emission factors for electricity consumption published by the Secretary of Energy of Argentina, which are more accurate values for the calculation of emissions estimates.	CAR
3	6.6 Selection of GHG SSRs for monitoring or estimation of GHG emissions and removals, Standard 14064 part 2, 2019.	During the validation and verification of the Project, it was found that diesel and gasoline consumption reported in the invoices (PLANILLA COMBUSTIBLE.xlsx) and energy consumption are overestimated and not adjusted to the project limit, so it is necessary to record energy consumption based on the declaration of the project limit and scope.	CL
4	2.2 Objective	Correct the wording of the Project Objective according to the BCR Standard: "It is important to note that the project objectives should be consistent with the proposed activities and the expected GHG mitigation results", so it is necessary that the focus is directed to the Project and not to the organization.	CAR
5	3.1.1 Conditions for the applicability of the methodology	Clarify the applicability of the methodologies used for the Project's emissions reduction. In the PDD there is a replication of the paragraphs of the methodology without reflecting the application of each one.	CL
6	3.2.3 Timelines and periods of analysis 3.3.2.3.3.1.	Clarify the specific period covered by the Project considering that it will last 10 years.	CL



No.	Reference to noncompliance	Description of finding	Type of nonconformity: (CAR, CL, FAR)
7	3.5 Uncertainty Uncertainty	Qualify the uncertainty analysis for the direct measurements of solid waste.	CL
8	3.7 Mitigation Mitigation	Clarify how the mitigation results were achieved as a consequence of the execution of the project activities (application of the methodology).	CL

6.1 Project and monitoring plan implementation

6.1.1 Project activities implementation

The verification of the project Treatment of non-hazardous industrial waste to obtain Biocompost corresponds to the monitoring period 01/04/2018 to 31/03/2023.

ANCE evaluated the implementation of the project activities according to those described in the PDD /I/ as described in the Monitoring Plan /XXV/. The project holder has a specific area of 70,000 square meters to carry out the composting activities. The first project activity related to monitoring is the entry control process /XXI/, in which the scale operator reviews the consignment or manifest to ensure that the waste does not have any hazardous characteristics and weighs the truck (entry and exit) and records the weight /IX/ to /XIII/ to compare it with the amount declared on the consignment. During the onsite inspection, it was validated that the laboratory manager performs a visual inspection of the unloaded waste and measures the temperature (unloading of the waste is discarded if it exceeds 55°C) /XXII/. The weighing scale was subject to calibrations for the years 2019, 2021 and 2022 /III/.

The project proponent also included in the monitoring the consumption of diesel and electricity used in the project, however, these values were obtained by estimation /XXVI/.

ANCE was able to verify the progress in meeting the objectives with the documents presented in the monitoring matrix of the project activities and its reference documents.

The main activities that support compliance with the emission reduction targets for the period o1/04/2018-31/03/2023 in the project Treatment of non-hazardous industrial waste to obtain Biocompost were demonstrated with different supporting documents (4.2), there were some deviations in the measurement of the amount of waste, however, in the calculation of the estimated reductions of the project the project proponent applied conservative measures in order not to overestimate the declared reductions.

6.1.2 Monitoring plan implementation and monitoring report

ANCE reviewed and was able to confirm that the PDD monitoring report was performed in consistency with the Monitoring Plan submitted by the project proponent. The



monitoring plan is intended to facilitate the monitoring, recording, reporting and verification activities necessary to evaluate the project performance and determine the emission reductions with the applied methodology /a/.

The verification team has verified all parameters presented in the monitoring plan with the requirements of methodologies /a/, /b/, /c/. In this regard, the Monitoring Plan contains all required parameters, with appropriate descriptions regarding: Data source, measurement procedures, monitoring frequency and procedures to be applied.

6.1.2.1 Data and parameters

The values monitored annually and verified during the site visit are as follows:

Table 31. Monitored data parameters

Responsible for	monitoring	Andres Beltramo				
W,y / Qy		Amount of solid waste (wet basis) of type j disposed of or prevented in the SDRS in year x				
Measureme	nt units:	Tons (wet bas	sis)			
Quality pro	cedures:	PE-8.2; PE-8.2	2-01; PE-8.2-02;	PE-8.2-04		
		Model: 768 N	°7-1716			
		Calibration fr	ecuence: annua	al		
Measuring ed	quipment	Registrer of ca	alibration: 2019), 2021, 2022		
		Compliance v	vith the verifica	ation requirem	ents requested by	
		the National 1	Institute of Ind	ustrial Techno	logy	
Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	
$W_{,y}(t)$	12,046.71	16,520.30	13,893.60	16,800.88	16,182.50	
Calibration	It was not done.	Minutes of sealing OT N°307- 15719	It was not done.	Minutes of sealing OT N°307- 15719 - 62325	Minutes of sealing OT N°307-15719 - 68603	
Responsible for	monitoring	Andres Beltra	mo			
$FC_{,i,}$		Fossil fuel consumption in the project				
Measureme	nt units:	Litters				
Quality pro	cedures:	Diesel and electric power consumption file "Actual fuel used.xlsx" /XXVI/				
Measuring equipment		The conservative principle of 2% reduction was applied on the grounds of underestimation rather than overestimation of GHG emission reductions (principle of ISO-14064-2:2019).				
Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	
L	12,174.80	20,528.73	17,923.14	19,959.50	34,699.79	
Calibration	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	



Responsible for monitoring		Andres Beltramo				
$EC_{PJ,j}$,	Amount of electrical energy in the project				
Measureme	nt units:	MWh/yr				
Quality procedures:				nsumption file	"Actual fuel	
Quanty procedures.		used.xlsx" /XX				
					was applied on the	
Measuring ed	luipment				erestimation of	
					-14064-2:2019).	
Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	
MWh/yr	16.75	19.5	21.25	22.5	20	
Calibration	Not	Not	Not	Not	Not applicable	
	applicable	applicable	applicable	applicable		
Responsible for	monitoring	Andres Beltrai				
SDG	9			ements inclusi	ve, safe, resilient	
		and sustainab	le			
		Annual.	1.1 1	. 1 .	· .1 1 C	
Monito	nod.	· /			e in the number of	
Monito	rea:			verified through	1 1	
		document /XLIX/ of Worms Argentina S.A., representing a 40% increase for the monitoring period.				
Quality pro	redures.	15 Monitoring system, Monitoring report version 3				
Responsible for		Andres Beltra		toring report ve	2131011 5	
SDG		Build resilient infrastructure, promote inclusive and				
				and foster inn	I	
		Annual				
		It is inherent to the project's activity, as it focuses on the				
Monitor	in a.	treatment of agro-industrial waste, which represents a high				
Monitor	ing:	proportion in the locality. For the indicator review, waste				
		entry logs were examined /IX/ to /XIII/, which were used to				
		-		sion reduction		
Quality pro		15 Monitoring system, Monitoring report version 3				
Responsible for		Andres Beltramo				
SDG ₁	2	Ensure sustainable consumption and production patterns.				
		Annual				
		The owner of the project explained that the composting				
		activity falls within the principles of reuse and recycling,				
			although the reduction of waste generation does not depend on Worms, Worms represents an important actor for the			
Monitor	ing:			epresentative v		
				1	of the Project. For	
				_	· · · · · · · · · · · · · · · · · · ·	
		the indicator review, waste entry logs were examined /IX/ to /XIII/, which were used to calculate the estimated emission				
		reductions.				



Quality procedures:	15 Monitoring system, Monitoring report version 3
Responsible for monitoring	Andres Beltramo
SDG13	Take urgent action to combat climate change and its impacts
monitoring:	Annual
	ANCE agrees that the Project contributes to combating
	climate change by preventing large amounts of methane
	emissions. The calculation variables used for baseline
	reduction were reviewed /II/, and the waste quantities for the
	accreditation period were verified, confirming that the
	indicators recorded by the Project Holder in the tool are
	correct.
Quality procedures:	15 Monitoring system, Monitoring report version 3

The monitoring plan includes the monitoring of project implementation, the description of the monitoring plan in the PDD includes the following for each of these monitoring tasks:

- Data and parameters used for emission reduction estimation;
- Technical description of monitoring activities;
- Description of data collection;
- Data quality control;
- Data storage; and
- Responsibilities

During monitoring, data will be collected related to the variables/parameters listed in the PDD and Monitoring Report.

The ANCE validation and verification team performed a review of all input data, parameters, formulas, calculations, conversions, resulting uncertainties and output data to ensure consistency with the criteria set out in the calculation methodologies /a/, /b/, /c/ used and the Monitoring Report.

The verification team reproduced the calculations to ensure the accuracy of the results. Where appropriate, references to analysis methods or default values were verified with the corresponding source.

6.1.2.2 Environmental and social effects of the project activities

The project holder, Worms Argentina S.A., has implemented specific environmental protection programs focused on the management of air, soil, and water. During the onsite verification, the environmental management system manual was reviewed, which describes the identification of environmental aspects, risk categorization, and impact mitigation measures. Additionally, compliance with current environmental legislation was verified, primarily with the requirements of the Municipality of Arroyo Seco (Resolution



No. 523), which grants the permit for activity authorization (Resolution No. 024/18). This data indicates adequate monitoring of the project's environmental effects (Reference: Resolution No. 523 and No. 024/18). However, the report does not specifically detail monitoring of social effects, possibly due to the absence of nearby affected communities. Environmental effects monitoring is adequately documented, although it could be complemented with an analysis of social effects.

The review included cross-verification of documents, such as the environmental management manual, legislative compliance evaluations, and studies of contaminants in soil, air, and water. It was confirmed that contaminant levels remain within the permissible limits established by legislation (Reference: General Environmental Law No. 25,675 and Decree No. 1879/13). This demonstrates a comprehensive verification of the project's environmental effects.

The project holder has taken measures to mitigate environmental risks, as required by local legislation. Worms S.A. has an approved environmental risk assessment and an environmental insurance policy in accordance with General Environmental Law No. 25,675. Additionally, the project does not generate significant social impacts, as there are no nearby populations, verified through geographic coordinates and on-site visits (Reference: Environmental Risk Assessment, Resolution No. 523). Environmental risks have been mitigated, and no social risks have been identified due to the project's isolated location; however, the evaluation of potential social risks should be included in subsequent monitoring reports for the accreditation periods.

The verification team reviewed the mitigation actions taken by the project holder and verified compliance with local regulations. This includes adherence to the maximum permissible limits for contaminants in soil, air, and water, according to municipal standards. The approval of the environmental risk assessment and the authorization permit reflect the effectiveness of the mitigation actions and regulatory compliance (Reference: Resolution No. 024/18).

The project has generated a positive impact on local employment, with a 40% increase in the number of employees during the monitoring period, verified through the payroll document /XLIX/ of Worms Argentina S.A. (Reference: Payroll Document /XLIX/). A 63% increase in local hires is projected by 2028, contributing to the socioeconomic development of the community. Since the project is located far from populated areas, there is no direct interaction with local communities; however, local employment is a relevant socioeconomic benefit.

6.1.2.3 Procedures for the management of GHG reductions or removals and related quality control for monitoring activities

ANCE confirms that all values involved in the Project emission reductions, measurement results and estimates have been incorporated into the monitoring plan, the frequency, responsibility and authority for recording, tracking, measuring and reporting of project



activities have been clearly developed with procedures and ongoing communication between the licensee and the Project proponent.

6.1.2.4 Description of the methods defined for the periodic calculation of GHG reductions or removals, and leakage

ANCE confirms that the methods applied for the calculation of GHG emission reductions of the Project Treatment of non-hazardous industrial waste to obtain Biocompost are in accordance with the /a/, /b/, /c/ methodology in its Monitoring methodology and the evaluation required by the BCR Standard.

6.1.2.5 Assignment of roles and responsibilities for monitoring and reporting the variables relevant to the calculation of reductions or removals

Section 15.2 of the monitoring report shows the workstations responsible for monitoring the variables and parameters for the calculation of the GHG reduction station. During the site visit the ANCE verification team met with the personnel in charge.

6.1.2.6 Procedures related whit the assessment of the project contribution whit the Sustainable Development Goals (SDGs)

The proponent of the project has evaluated compliance with the Sustainable Development Goals for the monitoring period o1/04/2018 to 31/03/2023, following up with the methodological tool of the BCR program, SDG Tool /XXVII/.

For SDG 9 the project aims to achieve target 9.2.2 "Manufacturing employment as a proportion of total employment", ANCE confirms, through interviews and review of the /XXVII/ tool, that the number of jobs held by local people has increased from 40% to 59%.

Regarding SDGs 11 and 12, for target 11.6.1 "Proportion of urban solid waste regularly collected and with adequate final discharge out of total urban solid waste generated, by cities" and 12.5.1 "National recycling rate, tons of material recycled", respectively, the project holder is mainly dedicated to the treatment of non-hazardous waste, its processes contribute to the circular economy where the waste becomes a raw material in another process, This process has been validated and verified by ANCE.

Sustainable Development Goal 13 focuses on achieving a specific indicator that seeks to reduce total greenhouse gas emissions per year. From the monitoring of GHG emissions carried out for the period of analysis, a value of 15,195 tCO2e (on average) released into the atmosphere each year was recorded; of which 100% were the result of the transformation of solid waste into compost.

6.1.2.7 Procedures associated with the monitoring of co-benefits of the special category, as applicable

No applicable.



Considering that for the year 2018 and 2021 the Project holder did not submit the calibrations of the weighing scale, according to the calibration frequency established in the monitoring plan /XXV/, the project holder has decided to apply to the emission reduction estimation equation a conservative uncertainty percentage (2%) considering the error that could be generated by the absence of this certification.

The monitoring of variables described in the monitoring report has been carried out in accordance with the monitoring plan contained in the PDD/I/ in a correct and sufficient manner. ANCE has verified the monitored data for the required parameters and has considered them complete, reliable and consistent.

For the remaining accreditation period, the project owner intends to strengthen the measurements of all project variables.

6.2 Quantification of GHG emission reductions and removals

ANCE has evaluated the emission reductions reported for the project Treatment of non-hazardous industrial waste to obtain Biocompost according to the methodology AMS.III.F, Avoid methane emissions through composting, Version 12.0 and the criteria of the BCR Validation and Verification Manual, the application was verified for the crediting period established in the monitoring report (01/04/2018 to 31/03/2023), in addition, of all the variables involved in said methodology /a/ and the applicable references /b/, /c/, /d/ and /e/.

6.2.1 *Methodology deviations (if applicable)*

No deviations were found for the application of the methodology /a/.

6.2.2 Baseline or reference scenario

The calculation procedure used by the Project proponent to quantify the GHG reductions in the baseline scenario as a result of the implementation of the project activity during the monitoring period is summarized below and its results are summarized below.

According to the formulas presented in Section 5.5 of this report, the Project proponent calculated the baseline as follows:

The methodological tool Emissions from solid waste disposal sites Version o8.1 /b/, describes the steps required for the calculation of the baseline for the project activity, the project proponent carried out the quantification of the records of solid waste entering the composting process for the monitored crediting period (o1/04/2018 to 31/03/2023), this project does not consider flaring or energy use of waste gases, parameters established in the methodology /b/ and cited by the IPCC were used.

The audit team verified all calculations of greenhouse gases emitted during the monitoring period for baseline emissions. No errors were found that materially affected the emissions



reported by the project during the monitoring period. The spreadsheet formulas (WORMS solid V2.xls), conversions, estimates and consistent use of data and parameters have been carefully reviewed by the ANCE audit team.

6.2.3 Mitigation results

ANCE verified the calculation of emission reductions of the Treatment of non-hazardous industrial waste to obtain Biocompost Project, for the project period established in the monitoring report (01/04/2018 to 31/03/2023), the audit team performed the analysis according to the methodology AMS.III.F, Avoid methane emissions through composting, Version 12.0, the BCR Standard and the MVV, for the evaluation a reasonable assurance level and a materiality percentage of 5% were contemplated. The verification team performed a comparison of the parameters and calculation variables mentioned in the PDD monitoring plan and the monitoring report.

During the documentary review, the audit team reviewed the calculation tool prepared by the project proponent /II/; during the on-site inspection visit, the quantities of waste stated in the shipments and manifests were reviewed; the audit team reviewed a sample of 922 shipments without finding any errors during the review; the operation of the compost plant was validated and verified. The emissions of the baseline scenario and the preceding emissions of the project and the estimated emissions reduction of the project were calculated, in each calculation the verification team calculated the materiality, obtaining as a result 0.00%.

ANCE concludes that the project presented by WORMS ARGENTINA S.A. as project owner is correct and complies with the methodology /a/.

6.2.3.1 GHG emissions reduction/removal in the baseline scenario

The ANCE verification team reviewed the Project baseline calculation for the accreditation period according to the following steps:

Step 1. Identification of baseline variables

For the determination of the baseline, the project proponent used the equation described in the AMS.III.F methodology, Avoid methane emissions through composting, Version 12.0.:

$$BE_y = BE_{CH_4,SWDS,y} + BE_{ww,y} + BE_{CH_4,manure,y} - MD_{y,reg} \times GWP_{CH_4}$$

In the following table descrive all variables:

Table 32. Baseline variables for the acreditaon period

Variable	Concept	Assessment
BE_{y}	Baseline emissions in year y (tCO2e)	The period of the project is of 1/April/2018 to 31/march/2023.



		The owner of the project shown all waste manifest from the start of operations /IX to XIII, XXXI/.
$BE_{CH_4,SWDS,y}$	Annual potential methane generation from solid waste composted by the project activity during years x from the start of the project activity ($x=1$) to year y (tCO_2e).	The project owner applied the stipulations of the methodological tool "Emissions from solid waste landfills".
$BE_{ww,y}$	If applicable, baseline emissions of the co- composted wastewater, calculated according to AMS-III.H procedures. (tCO2e)	ANCE verify that the project scope does not contemplate wastewater treatment.
$BE_{CH_4,manure,y}$	If applicable, baseline emissions of composted manure from project activities, according to AMS-III.D procedures. (tCO2e).	ANCE verify that the project scope does not include manure treatment.
$MD_{y,reg}$	Amount of methane that would have to be captured and flared in the year and to comply with current regulations (ton).	ANCE verify that the project scope does not consider methane flaring.
GWP_{CH_4}	Global warming potential of methane	28

Step 2. Determination of the annual methane generation potential.

The project proponent calculated the annual methane generation potential according to the Methodological Tool, Emissions from solid waste disposal sites V. 8.1 /b/, considering the following constants for the determination of the baseline emissions:

$$BE_{CH4,SWDS,y} = \varphi_y * (1 - f_y) * GWP_{CH4} * (1 - OX) * \frac{16}{12} * F * DOC_{f,y} * MCF_y$$

$$* \sum_{x=1}^{y} \sum_{y} (W_{j,x} * DOC_j * e^{-kj*(y-x)} * (1 - e^{-kj})$$

Table 33. Variables of baseline emissions for the acreditaon period

Variable	Concept	Assessment
Qy, Wx	Quantity of waste composted in year y (wet basis)	During the site visit, ANCE verified that the solid waste entering the process must have acceptance criteria, according to internal procedure PE-8.2-04 /XXII/, including moisture, which must be greater than or equal to 85% /XXII/. This meets the condition of the parameters of methodologies /b/ and /c/.
X	Years of the time period in which waste is disposed at SWDS, from the first year of the time period $(x = 1)$ to year $y (x = y)$.	ANCE verified the accretion period is from 1/April/2018 to 31/march/2023 acording to
у	Year of the crediting period for which methane missions are calculated (y is a consecutive 12-month period).	monitoring plan and the estimation file of reduction GHG emissions.



Variable	Concept	Assessment
$DOC_{f,y}$	Fraction of degradable organic carbon (DOC) that decomposes under the specific conditions given in the SWDS for year y (fraction by weight).	To obtain the Determination of the fraction of DOC that breaks down in the SWDS, the project proponent used Application B (0.5) nonmonitorable value, ANCE agrees with the value.
$\varphi_{\mathcal{Y}}$	Model correction factor to account for model uncertainties for year y.	The project proponent used option 1 of the calculation options for the Model Correction Factor Determination (o.85), it is considered as a non-monitorable value. ANCE agrees with the value.
OX	Oxidation factor (reflects the amount of methane in SWDS that is oxidized in soil or other material covering the waste).	The project proponent used the default value of the tool (0.1). ANCE agrees with the value.
$f_{,y}$	Fraction of methane captured in SWDS and flared, flared, or otherwise used in a manner that avoids methane emissions to the atmosphere in year y.	ANCE verified that the Project does not include flaring or any energy use of methane in the scope.
F	Fraction of methane in SWDS gas.	
MCF_y	Methane correction factor for year y	The project proponent used the default value for anaerobically managed solid waste landfills (1), a non-monitorable value. ANCE agrees with the value.
DOC_j	Fraction of degradable organic carbon in waste type j (fraction by weight)	ANCE verified the use of the default value (15%) of DOCj considering that the waste treated is similar to Food, food, beverage and tobacco waste (other than sludge).
k_j	Decomposition rate of waste type j (1/year)	ANCE verified the use of the default value (0.185), the site is in a mostly temperate location.
j	Type of waste or waste types in MSW	The treatment of one type of waste is verified.
GWP_{CH_4}	Global warming potential of methane	28

Step 3. Quantification of solid waste

The project owner keeps track of the amount of non-hazardous solid waste (wet basis) entering the process through manifests and shipments, this activity is part of the Argentine regulation (https://www.argentina.gob.ar/normativa/nacional/ley-25612-76349), so these documents have official validity. The project holder files these documents and the quantities are placed in electronic files on a monthly basis with the following name XX - Control Camiones Month 20XX.xlsx (considering that the verified accreditation of the project of is 01/04/2018 to 31/03/2028). The project owner uses the monthly summation of the amount of non-hazardous waste from manifests and shipments. This data is subject to constant monitoring.



Table 34. Quantification on base line emissions for the acredition period.

Period	Baseline (ton CO2e)		
renou	ANCE	WORMS	
1/april/2018-31/march/2019	10,873	10,873	
1/april/2019-31/march/2020	14,911	14,911	
1/april/2020-31/march/2021	12,540	12,540	
1/april/2021-31/march/2022	15,148	15,164	
1/april/2022-31/march/2023	14,606	14,606	
Total	68,079.00	68,095.00	
%Materiality	0.02		

6.2.3.2 *GHG* emissions reduction/removal in the project scenario

Considering what is described in sections 6.2.3 of this report, the GHG emissions for the project is:

Table 35. GHG emissions in the project

	Emission	Emission (tCO2e)	
Year	ANCE	WOMRS	
1/April/2018-31/march/2019	1,348	1,348	
1/April/2019-31/march/2020	1,859	1,859	
1/April/2020-31/march/2021	1,567	1,566	
1/April/2021-31/march/2022	1,887	1,889	
1/April/2022-31/march/2023	1,858	1,858	
Total	8,519	8,520	
%Materiality	0,0	1	

Finally, the reduction GHG emissions was calculated by the projet owner (table 33), according to equation 2 of the AMS. III.F, Avoid methane emissions through composting, Version 12.0 and the assessment is described in the next points:

Step 1. Quantification of the project's emissions from electricity consumption

The owner of the Project does not have direct measurements of electricity consumption; therefore, to determine the Project's emissions, an estimate was made based on the equipment and lighting fixtures that use electricity. To carry out the quantification, the Tool to calculate baseline, project and/or leakage emissions from electricity consumption /d/ was applied.

To calculate emissions from electricity consumption, the project owner used the emission factors published by the Wholesale Electricity Market (Emission Factor | CAMMESA) /XV/.



Step 2. Quantification of project emissions from fossil fuel consumption

The owner of the Project does not have direct measurements of diesel consumption, so to determine the Project's emissions, an estimate was made according to the equipment and mobile sources that consume the fuel. To carry out the quantification of emissions, the Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion /e/ was applied.

Regarding the use of the emission factor, the emission factor published in the document Emissions of CO₂ calculated based on retail sales of liquid fuels in EESS - year 2018 was used. Government Secretary of Energy, Argentina: 2.61 kgCO₂/l.

Step 3. Quantification of the project's emissions from composting

The project proponent applied the tool "TOOLo4 Methodological tool Emissions from solid waste disposal sites, Version o8.1 /b/ for the estimation of project emissions, considering the variable factors described in step 2, with the variable to be monitored being the amount of non-hazardous waste entering the composting plant.

Step 4. Calculation of GHG emissions reductions

Considering the equation for calculating emission reductions described in methodology /a/:

$$ERy = BEy - (PEy + LEy)$$

The project holder calculated the baseline according to the methodology /a/, where:

$$BEy = BE_{CH4,SWDS,y}$$

The calculation was performed for the years covered by the project accreditation o1/04/2018 to 31/03/2023.

ANCE validated that the Project has not been transferred from another activity nor is the existing equipment being transferred to another activity, furthermore, the compost is not being subjected to anaerobic storage or disposed of in a SWDR. Therefore, for this project there is no leakage.

$$LEv = 0$$

Table 36. GHG emissions reductions of the Project Treatment of non-hazardous industrial waste to obtain Biocompost.

Period	BE	PE	LE	ER
reriou	tCO2e			
1/April/2018-31/march/2019	10,873	1,348	0	9,525



1/April/2019-31/march/2020	14,911	1,859	0	13,052
1/April/2020-31/march/2021	12,540	1,566	0	10,974
1/April/2021-31/march/2022	15,164	1,889	0	13,275
1/April/2022-31/march/2023	14,606	1,858	0	12,748
Total	68,094	8,520	0	59,574

6.3 Environmental and social effects of the project activities and no net harm

The following is an analysis of the application of the above criteria to the actions and measures adopted by Worms Argentina S.A. in its project, based on the description of its environmental management programs and socioeconomic aspects:

Clear description of the environmental and social impact assessment: Worms Argentina S.A. describes in detail its efforts to ensure that project activities generate no net harm to the community or the environment. Periodic soil, water, and air monitoring, in addition to hazardous waste management follow-up, demonstrate a commitment to monitoring potential negative environmental effects. Soil, groundwater, and air quality monitoring reports comply with concentration limits established by local regulations /L/,/LI/, demonstrating adherence to safe levels and environmental regulations.

Environmental and social management plan evaluation and verification process: Worms Argentina S.A. implements a quality management system /XXXIX/ that incorporates subprograms for the protection of natural resources, such as hazardous waste management and flood control. Verification of the quality of water extracted from aquifers and analysis of air samples at various points in the plant demonstrate a systematic evaluation and monitoring process, in accordance with the standards of Resolution 201/04 of the Province of Santa Fe and Law 11,220, ensuring compliance with regulations.

Environmental and social impact assessment:

Impact on biodiversity and ecosystems: The soil resource monitoring program and waste management contribute to ecosystem protection by reducing the risk of contamination and properly managing waste that could have negative effects on flora and fauna.

Socioeconomic Effects: The initial analysis of the socioeconomic situation of the surrounding area (Arroyo Seco) includes demographic and economic factors, such as the flow of labor to Rosario and the agricultural situation of the area. This initial assessment allows Worms Argentina S.A. to better understand the social and economic context in which it operates, ensuring that the project generates positive effects on employment (SDG 9 Indicator) and the immediate environment.

Actions and corrective measures to prevent and reduce negative effects: Worms Argentina S.A. states that no significant negative effects on the local communities were identified, highlighting that no housing areas were identified around the project area. According to the socioeconomic analysis, the project does not generate adverse impacts to the



population or the environment; therefore, no specific corrective measures have been established. This analysis is supported by compliance with local legislation (Province of Santa Fe Ministry of the Environment), such as the Environmental Suitability Certificate (Resolution No. 406/19) and the notification from the Municipality of Arrollo Seco /XLI/ that there have been no complaints or denunciations from the community, indicating compliance with the BCR's No Net Harm tool standards, which confirms that the project activities do not cause net harm.

During the visit on site, questioned if there were ethnics communities near of the project, the owner project answered that there weren't even though in INAI (National Institute of Indigenous Affairs) weren't identified, the map was reviewed (https://www.argentina.gob.ar/derechoshumanos/inai/mapa).

Conclusion and use of BCR's No Net Harm tool: After reviewing the environmental monitoring and management programs and socioeconomic aspects, Worms Argentina S.A. concludes that the project causes no net harm to the environment or local communities, according to BCR's No Net Harm tool. This is based on the evidence of regulatory compliance and the absence of relevant negative impacts on the natural and social environment, supported by an efficient implementation of monitoring plans and continuous improvement programs.

This analysis shows that the project is following the evaluation criteria and with the required "No Net Harm" approach, in addition to sustaining a strategy of positive impact on the environment and on the social development of the local community.

6.4 Sustainable Development Goals (SDGs)

During the on-site verification, information regarding compliance with Sustainable Development Goals /XXVII/ was evaluated through interviews and document review, the Project Owner was identified for compliance with SDGs 9, 11, 12 and 13.

Industry, Innovation and Infrastructure the Project Owner has presented an increase in the number of employees, which has been verified through the payroll document /XLIX/ of Worms Argentina S.A., which represented 40% for the monitoring period. The Owner expects a projected 63% increase in the number of local people hired by 2028.

The project owner explained during the verification that compliance with SDG 11 is inherent to the project's activity since it focuses on the treatment of agro-industrial waste, which in the locality represents a high proportion (as explained in section 5.5.5 Additionality), for the review of the indicator, the waste intake logs used for the calculation of estimated emission reductions were reviewed.

For compliance with SDG 12, the project owner has explained that the composting activity falls within the principles of reuse and recycle, although the reduction of waste generation



does not depend on Worms, Worms represents an important actor for the transformation of the most representative waste of the Agroindustrial zone described in the project scope.

Finally, ANCE agrees that the Project contributes to the fight against climate change, avoiding large amounts of methane emissions. The calculation variables used for the baseline reduction were reviewed and the amounts of waste from the accreditation period were verified, so the indicators that the Owner records in the tool are correct.

6.5 Climate change adaptation

ANCE assessed climate change adaptation according to the BCR Standard section 11.8 Climate change adaptation with respect to criteria and indicators to demonstrate contribution to climate change:

- a) Consideration of strategic lines in national climate change policies: Worms Argentina S.A. is aligned with Argentina's National Climate Change Adaptation and Mitigation Plan 2030 /XLVIII/, specifically in its "Productive Transition" strategic line⁸. This approach seeks to reduce greenhouse gas emissions and improve the resilience of the country's productive system, objectives that Worms Argentina S.A. supports through a circular economy model and sustainable production processes that help mitigate the environmental impact of industrial waste. As the most significant indicator /VIII/, worms keeps track of the waste treated by means of composting and vermicomposting according to the accreditation periods.
- b) Creation of sustainable and low-carbon productive landscapes: Worms Argentina S.A. applies circular economy practices by transforming waste into reusable raw material, which reduces GHG generation compared to conventional waste processes. Its focus on the efficient use of resources and waste reduction makes it a project that supports sustainable, low-carbon productive landscapes.
- c) Ecosystem-based adaptation strategies: The waste management that Worms Argentina S.A. has implemented conforms to an adaptive approach that reduces the risks associated with water and soil contamination. In addition, its rainwater harvesting system and energy efficiency policy minimize the extraction of natural resources, thus helping to protect local ecosystems.

⁸ This strategic line involves structural changes in the modes of consumption and production in a context of national and global economic recovery. In this sense, it aims to integrate the macroeconomic, social and environmental components, implementing policies and improvements in the competitiveness of national productive development that are focused on sustainable production, accompanied by active financing policies and oriented to industry 4.0 (interconnectivity, automation and availability of data in real time). All of this is aim ed at promoting production chains that are resilient to climate variations and changes in market conditions. Ministry of Environment and Sustainable Development of Argentina (2022). National Climate Change Adaptation and Mitigation Plan. Pag. 52



d) Strengthening local capacities for decision-making in the face of climate change effects: Worms Argentina S.A., with its BCorp certification⁹ and its environmental management systems /XXXIX/, fosters a corporate commitment that can inspire other institutions and communities in the region. This environmental management system and the manuals implemented to conserve resources also act as educational tools that encourage informed decisions to minimize environmental impact.

In conclusion, Worms Argentina S.A. manages to incorporate multiple sustainability and climate change mitigation strategies in its operations, aligning itself with several of the aforementioned points and actively contributing to the reduction of GHG emissions and the preservation of the natural environment in its areas of operation. This reinforces its consideration as an additional and valid project under the BCR criteria.

6.6 Co-benefits (if applicable)

This point is not applicable to the project.

6.7 REDD+ safeguards (if applicable)

This point is not applicable to the project.

6.8 Double counting avoidance

According to the BCR Standard, the Avoid Double Counting tool is defined as accounting for GHG mitigation results in tCO₂e, in the following scenarios.:

- a) A ton CO2e is counted more than once to demonstrate compliance with the same GHG mitigation goal.
- b) One-ton CO2e is counted to demonstrate compliance with the GHG mitigation goals.
- c) A ton CO2e is counted more than once to obtain remuneration, benefits or incentives.
- d) A ton CO2e is verified, certified or credited and assigned more than one serial for a single mitigation outcome.

To avoid double counting, the project holder submitted the following evidence in compliance with numeral No 8.1 of the double counting avoidance tool:

⁹ https://www.bcorporation.net/en-us/find-a-b-corp/company/worms/



- Project and project holder information, this information is clear in the PDD.
- GHG registration authorization Evidence is presented on the page with the project registration at the following Link: htthttps://globalcarbontrace.io/projects/58.
- Project Description Document (PDD), version 2.0 of the PDD is presented.
- Monitoring Report (MR) the MR version 2.0 is presented.
- Additional information is the result of the validation and verification process of the project.

The audit team verified 100% of the legal information provided by the project proponent, confirming that the sources of information used were the official ones. Therefore, it considers that the information provided allows concluding that the project complies with the legal requirements.

6.9 Stakeholders' Consultation

During the validation and verification of the Project, ANCE reviewed the information regarding the stakeholder consultation analysis in accordance with the BCR Standard, section 16.1. However, it is important to note that this project is not implemented in an area where a local population is established nor does it have an environmental, social or economic impact on local populations or society in general; it is not mandatory to conduct a public consultation with stakeholders. This could be verified with the geographic coordinates of the Project, observing that in the georeferencing the nearest town (Arroyo Seco) is 2 kilometers to the southeast, to the north the next town (Gral. Lagos) is 4 kilometers away, and in the other directions no residential areas are observed, during the site visit this condition was also observed.

However, the owner of the Project, in order to comply with an international corporate certification (Worms - Certified B Corporation - B Lab Global) has mapped as interaction with its stakeholders: local communities, local authorities, regional and national authorities, workers, suppliers and clients, with whom regular meetings are held in order to improve relations and development.

In order to verify the application of what is described in BCR Standard section 16.1, ANCE reviewed the evidence /XLI to XLV/ submitted by the Project owner to demonstrate the invitations and responses from stakeholders, which will be summarized in the following section.

It is worth mentioning that Worms Argentina S.A. has a physical mailbox for complaints and suggestions at its facilities, however, there has been no physical notification, ANCE also validated that WORMS uses social networks and its website for the purpose of disseminating information and addressing complaints or suggestions.



6.9.1 Public Consultation

- a) Local communities. A book of Suggestions and Complaints /XLIII/ that is in physical form in the owner's facilities was reviewed, from May 4, 2019 to November 25, 2021 there are no complaints or suggestions. Minutes of meetings /XLII/ were presented with neighbors (individuals and SMEs) that have been taking place since December 2018 on an annual basis until 2023, in these minutes it has been agreed that WORMS is committed to constantly water the roads in order to mitigate the dust generated by the trucks that unload in the owner's yard.
- b) Authorities. It was observed that during the operation of the Project several authorities have attended the facilities of Worms Argentina S.A. with the purpose of knowing and recognizing the operation of the Project. As a municipal visit, in June 2020, the then Deputy of Santa Fe, Maximiliano Pullaro attended the facilities, giving an acknowledgement through the social network X. In the same way the then Minister Matias Kulfas (October 2021) and Daniel Schteingart, as owner of the Center of Studies for Production (CEP XXI) recognize the work of Worms Argentina S.A. as an innovative and pro-development company. The owner of the project presented a document issued by the Environmental Secretary of the Municipality of Arrollo Seco /XLI/ stating that Worms Argentina S.A. has no complaints or denunciations of any kind, this registration was processed in 2024, so the environmental entity confirms that throughout the owner's operation there have been no external impacts on the population.
- c) Workers. During the on-site visit it was observed that the administrative office has a complaints box, however, it was empty, the complaint history books /XLVI/ were observed, but there was no record of complaints or suggestions. During the on-site interview it was explained that this is not due to the Project's activity, but to social factors that the company tries to mitigate through its internal processes (employee manual) /XLVII/.
- d) Suppliers. During the on-site verification, the Project owner showed environmental responsibility letters /XLIV/ signed by the clients, giving responsibility to Worms Argentina S.A. for the treatment of the waste used for the Project.
- e) Clients. We reviewed the complaints and claims books /XLV/ that Worms Argentina S.A. makes available to customers at its facilities and through its website. In 2019 there were 2 complaints regarding the loading time and the weighing process, for the other years there were no complaints or suggestions. The complaints were not related to the compost or social or environmental impacts, so it is not relevant for the project.

The project has gained recognition from the principal stakeholders for its success in minimizing environmental impact. In operation since 2018, it has exhibited no production of unpleasant odors, noise, waste, or air and water emissions. As confirmed by ANCE during their visit to the site, the project unquestionably brings benefits to society and environment.



7 Internal quality control

ANCE reviewed the monitoring documentation, described in the PDD, considered that they conform to the procedures described in the validated monitoring plan and monitoring report and checked for differences that could cause an increase in GHG emission reduction estimates in the actual monitoring periods.

ANCE has confirmed that there are no significant material discrepancies between the actual monitoring system and the monitoring plan established in the PDD and the applied methodologies /a/, so there is no overestimation of the requested reductions. The project owner monitors the parameters required to determine the project reductions in accordance with the monitoring plan and the applicable methodology. It is worth mentioning that the project proponent applied an uncertainty percentage (2%) to the treated waste due to the lack of accuracy of the measured data.

The reported parameters, including their source, monitoring frequency and review criteria, indicated in the PDD, were verified to be correct. The required management system procedures /LIV/, including responsibility and authority for monitoring activities, were verified to be consistent with the monitoring report. The knowledge of the personnel associated with the project activities was considered satisfactory by the ANCE verification team.

Finally, in ANCE's quality management process, there is an independent internal review of the validation and verification process, which ensures the scope, program standards and how the validation and verification report manages to gather this evidence and its proper management to present the final statement.

8 Validation and verification opinion

As the ANCE Conformity Assessment Body, contracted by WORMS ARGENTINA S.A., we have reviewed and verified the design of mitigation measures for the project "Treatment of non-hazardous industrial waste to obtain Biocompost." We confirm that it fully complies with the BCR Standard, addressing various aspects:

- The project meets all criteria of the BioCarbon Registry standard version 3.2, September 23, 2023;
- The project is in accordance with AMS.III.F, Avoid methane emissions through composting, Version 12.0;
- The Monitoring Plan is transparent and adequate;
- The additionality of the project is justified in the PDD;
- Verification has reached a reasonable level of assurance: 95%;



- The project has been evaluated with a Materiality of less than 5%;
- Based on the processes and procedures performed, the GHG statement is materially correct and a true representation of the GHG data and information and is prepared per the applicable standard;
- The project was assessed on the basis of its contribution to the Sustainable Development Goals (SDG9, SDG11, SDG12 and SDG13).

Based on the risk-based validation approach and the evidence obtained as a result of the activities associated with the validation process and the attention to findings, the OVV GEI ANCE has reached the following conclusion:

The Greenhouse Gas Emissions reductions of the Treatment of non-hazardous industrial waste to obtain Biocompost prepared by WORMS ARGENTINA S.A. for the crediting period 01/04/2018 to 31/03/2028, and the monitoring period 01/04/2018 to 31/03/2023 are substantially correct and the validated and verified emissions reductions are a faithful representation of the information and emissions data referenced below:

Estimated total and average annual GHG emission reduction amount: 123,314 t CO2e

Total of GHG reduction or removals in this monitoring period: 59,574 tCO₂e

This Validation and Verification Report is issued, based on the stipulated in the BCR Standard Version 3.2. September 23, 2023, the Validation and Verification Manual and based on the criteria of ISO 14064-3:2019, with a reasonable level of assurance, the above is guaranteed at a materiality level of less than 5%, specifically, 0.00%, between the net emission reductions reported by the Project and the net reductions validated and verified by the OVV-GEI-ANCE.

In conclusion, the OVV-GEI-ANCE issues a positive opinion because there is sufficient or appropriate evidence to support a claim; considering that there are no material misstatements, there is sufficient and appropriate evidence to support the emissions and the necessary controls are in place for data management for emission reduction reporting.

9 Validation statement

The validation statement is attached to this document.

10 Verification statement

Attached to this document is the verification statement.



11 Annexes

Annex 1. Competence of team members and technical reviewers

The accreditation of the V/V team is presented in the following figure:





ASOCIACIÓN DE NORMALIZACIÓN Y CERTIFICACIÓN, S.A. DE C.V.

EJE LÁZARO CÁRDENAS, NO. 869, FRACC. 3, COL. NUEVA INDUSTRIAL VALLEJO, C.P. 07700, ALCALDÍA GUSTAVO A. MADERO, CIUDAD DE MÉXICO, MÉXICO. (55) 5747-4550 filores@ance.org.mx

Ha sido acreditado como Organismo de Certificación para Validación y/o verificación de acuerdo con la Norma de referencia:

ISO/IEC 17029:2019 / ISO14065:2020

para uso en la acreditación u otras formas de reconocimiento e

ISO 14064-3:2019

Gases de efecto invernadero - Parte 3: Especificación con orientación para la validación y verificación de declaraciones sobre gases de efecto invernadero

Acreditación Número GEI001/15

Número de referencia: 23GE10094 y 23GE10095 Fecha de acreditación: 2015/06/26 Fecha de actualización: 2023/10/13 Fecha de emisión: 2023/11/23

Alcance de sectores acreditados en el marco del Registro Nacional de Emisiones			
Articulo 3 Reglamento de la Ley General de Cambio Climático en materia del Registro Nacional de Emisiones.	Verificador Líder / Revisor Independiente	Verificador	
Energia	7, 8		
Transporte	7, 8		
Industrial	7, 8		
Agropecuario	7, 8		
Residuos	7, 8		
Comercio y Servicios	7, 8		

Personal acreditado para realizar actividades en el marco del Registro Nacional de Emisiones			
Nombre	Fecha de Registro		
Excalibur Ernesto Acosta Miranda	2019/10/25		
 Janai Monserrat Hernández Contreras 	2021/03/25		

Por la entidad mexicana de acreditación, a.c.

hyanbel & hytz

María Isabel López Martínez Directora General

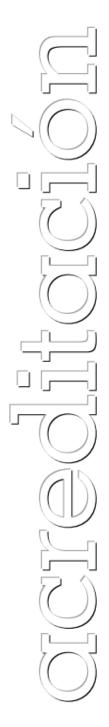




Página 1 de 1



The accreditation of the CAB is presented in figure below:





entidad mexicana de acreditación a.c.

ASOCIACIÓN DE NORMALIZACIÓN Y CERTIFICACIÓN, S.A. DE C.V. EJE LÁZARO CÁRDENAS, NO. 869, FRACC. 3, COL. NUEVA INDUSTRIAL VALLEJO, C.P. 07700, ALCALDÍA GUSTAVO A. MADORO, CIUDAD DE MÉXICO, MÉXICO.

(55) 5747-4550 fflores@ance.org.mx

Ha sido acreditado como Organismo de Certificación para Validación y/o verificación de acuerdo con la Norma de referencia: ISO/IEC 17029:2019 / ISO14065:2020 para uso en la acreditación u otras formas de reconocimiento e

ISO 14064-3:2019

Gases de efecto invernadero - Parte 3: Especificación con orientación para la validación y verificación de declaraciones sobre gases de efecto invernadero

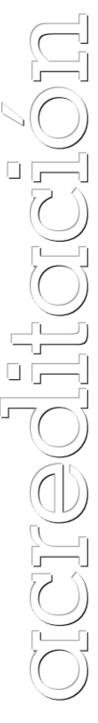
Acreditación Número GEI001/15

Número de referencia: 23GEI0093 Fecha de acreditación: 2015/06/26 Fecha de actualización: 2024/03/21 Fecha de emisión: 2024/03/21

Sectores para la verificación de gases de efecto invernadero a nivel organizacional			
Sector verificación de la organización IAF MD 14	Ejemplos de actividades incluidas en el sector		
	Transmisión de electricidad		
Generación de energía y	Generación de energía eléctrica en masa		
Transacciones de Energía	Transmisión desde instalaciones generadoras a centros de distribución y/o distribución a usuarios finales		
Eléctrica	Sistemas de energía renovable		
	Compra de electricidad, vapor		
2. Manufactura en general	Manufactura – Equipo eléctrico y electrónico, maquinaria industrial		
(transformación física o química de materiales y sustancias en productos nuevos)	Fabricación – Alimentos procesados Nota: Ingeniería civil, ej. Construcción, será cubierta bajo este sector		
,	Exploración y producción convencional		
	Arenas bituminosas y procesamiento de derivados de petróleo		
	Producción de metano a partir de carbón		
	Plantas de procesamiento de gas		
	Estructuras para pozos de gas		
	Transporte y distribución		
2 Funlanción de natatles u con	Almacenamiento de gas natural y operaciones con GNL (gas natural licuado)		
Exploración de petróleo y gas,	Transportación de petróleo crudo		
así como su extracción,	Refinación		
producción y refinación, y	Manufactura petroquímica		
distribución por tuberías.	Emisiones en tratamiento de gas y petróleo		
incluyendo petroquímicos	Emisiones de proceso (ej. Deshidratación de glicol, remoción de gases ácidos/recuperación de azufre, producción de hidrógeno, ruptura catalitica fluida (FCC) regeneración catalitica)		
	Emisiones de desfogue (ej. Carga de buques petroleros, almacenamiento en tanque y contención y emisiones de gases relacionados)		
	Emisiones fugitivas (ej. Fugas de equipos y tuberías)		
	Eventos extraordinarios (ej. Fugas de gas durante el mantenimiento de gasoductos y equipos, fugas incidentales)		

23GEI0074 Página 1 de 3

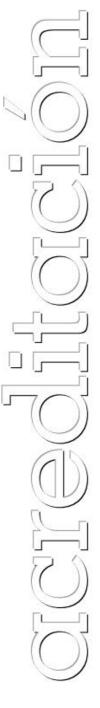






Sectores para la verificación de gases de efecto invernadero a nivel organizacional			
Sector verificación de la organización IAF MD 14	Ejemplos de actividades incluidas en el sector		
	Producción y procesamiento de metales ferrosos		
	Producción de aluminio secundario		
Producción de metales	Procesamiento de metales no ferrosos, incluyendo producción de aleaciones		
4. Produccion de metales	Producción de coque		
	Calcinación o sinterización de metales, incluyendo peletización.		
	Producción de arrabio o de acero, incluyendo colada continua		
6. Minería y producción	Producción de clinckers de cemento y producción de cal o calcinados de dolomita o magnetita		
mineral	Vidrio y cerámica, fibra mineral		
 Pulpa, papel e impresiones 			
	Producción de negro de carbón		
	Producción de amoníaco		
	Fabricación de productos químicos orgánicos en bruto mediante craqueo, reformado, oxidación parcial o completa o por procesos similares		
8. Producción química	Producción de hidrógeno y síntesis de gas por reformado u oxidación parcial		
o. Froduccion quimica	Producción de carbonato sódico y bicarbonato sódico		
	Producción de ácido nítrico		
	Producción de ácido adípico		
	Producción de glioxal y ácido glioxílico		
9. Captura y	Captura y transporte de gases de efecto invernadero por medio de tuberías para almacenaje geológico		
almacenamiento de carbono	Almacenamiento geológico de gases de efecto invernadero en un sitio de almacenamiento con ese fin		
10. Transporte	Aviación Otros transportes		
11. Agricultura, silvicultura	Otros transportes		
y otros usos de tierra (AFOLU/ASOUT)			
,	Edificio de servicios/Manejo de instalaciones		
12. General	Educación Hospitales		
	Otros		
13. Manejo y disposición	Agua y tratamiento de aguas residuales		
de residuos	Vertederos y plantas de composteo		







Sectores para la validación / verificación de gases de efecto invernadero a nivel pro- Sector validación y verificación de proyectos IAF Ejemplos de actividades incluidas en el se MD 14		
Industrias energéticas (recursos renovables/no	Generación de energía térmica a partir de combustibles fósiles y biomasa incluyendo energía solar	
renovables)	Generación de energía a partir de recursos energéticos renovables	
4. Manejo y disposición de	Manejo y disposición de residuos	
residuos	Manejo de residuos animales	

Por la entidad mexicana de acreditación, a.c.

María Isabel López Martinez Directora General





$Competence\ of\ V/V\ lider-Excalibur\ Acosta$





La Asociación de Normalización y Certificación, A.C.

Otorga la presente constancia a:

ACOSTA MIRANDA EXCALIBUR ERNESTO

Por su participación en el curso:

ISO 14064-2: 2019 Gases de Efecto Invernadero Parte 2: Especificación con orientación, a nivel de proyecto, para la cuantificación, el seguimiento y el informe de la reducción de emisiones o el aumento en las remociones de gases de efecto invernadero







La Asociación de Normalización y Certificación, A.C.

Otorga la presente constancia a:

ACOSTA MIRANDA EXCALIBUR ERNESTO

Por su participación en el curso:

ISO 14064-3:2019 Gases de Efecto Invernadero parte 3: Especificación con orientación para la validación y verificación de declaraciones sobre gases de efecto invernadero











LA SECRETARÍA DE GOBERNACIÓN, A TRAVÉS DEL INSTITUTO NACIONAL PARA EL FEDERALISMO Y EL DESARROLLO MUNICIPAL, Y LA SECRETARÍA DE MEDIO AMBIENTE Y RECURSOS NATURALES, A TRAVÉS DEL INSTITUTO NACIONAL DE ECOLOGÍA Y CAMBIO CLIMÁTICO

OTORGAN EL PRESENTE

DIPLOMA A

Excalibur Ernesto Acosta Miranda

POR HABER ACREDITADO EL CURSO VIRTUAL

ACCIONES DE MITIGACIÓN DE EMISIONES DE GASES DE EFECTO INVERNADERO

CON UNA DURACIÓN DE 12.5 HORAS, IMPARTIDO DEL 22 DE FEBRERO AL 7 DE ABRIL DE 2021. PROMEDIO FINAL: 9.00









Excalibur Ernesto Acosta Miranda

Aptitudes

- Manejo de
 Empatía
 Adaptativo

Experiencia

Especialista del OVV / Asociación de Normalización y Certificación

Analista Sr EHS / Mexicana MRO

Consultor ambiental / VIDESA

Consultor ambiental / VIDESA

Educación

2014
Ingenieria ambiental / IPN, Unidad Profesional
Interdisciplinaria de Biotecnología
Ingenero ambiental titulado, durante mi estada en la Unidad mi mayor logro, aparte de aprobar
todos las materia de matemáticas, he perchapre en la organización del Foro ambiental.

Actividades

- Corsia Norma 14064 parte 1





Competence of V/V - Nancy Adriana Barrara









Competence of Independetreviwer – Janai Monserrat Hernánez



La Asociación de Normalización y Certificación, A.C.

Otorga la presente constancia a:

HERNÁNDEZ CONTRERAS JANAI MONSERRAT

Por su participación en el curso:

ISO 14064-2: 2019 Gases de Efecto Invernadero Parte 2: Especificación con orientación, a nivel de proyecto, para la cuantificación, el seguimiento y el informe de la reducción de emisiones o el aumento en las remociones de gases de efecto invernadero





La Asociación de Normalización y Certificación, A.C.

Otorga la presente constancia a:

HERNÁNDEZ CONTRERAS JANAI MONSERRAT

Por su participación en el curso:

ISO 14064-3:2019 Gases de Efecto Invernadero parte 3: Especificación con orientación para la validación y verificación de declaraciones sobre gases de efecto invernadero



JANAI HERNANDEZ





(Im) TTPS://WWW.LINKEDIN.CO M/IN/JANAI-MONSERRAT-HERN%C3%AINDEZ-CONTRERAS-12B688104

APTITUDES

EXPERIENCIA

ASOCIACIÓN DE NORMALIZACIÓN Y CERTIFICACIÓN, 2A. de C.V. (ANCE) / SCHOLLSTA. (ANCE) / SCHO



FORMACIÓN ADICIONAL Y PONENCIAS

EDUCACIÓN

MAESTRÍA EN CIENCIAS E INGENIERÍA AMBIENTAL /
TRÂMITE EN CURSO
Universidad Autónoma Metropolitana

- ICERR CONFERENCE (2018): Participación en el congresio THE 56th Intermusional Conference on Energy and Environment Research, con el trabajo. Phis. provenentes de a hornou crematorios; Secretaria de Heido Ambiente de la Ciudad de México (2018): Participación en el prupo de trabajo de la NADF-017-are-2017 Espipos de cremación e incineración Limites miximos permisibles a la atmósfera y condiciones de operación.

- 2021;
 Curso: CORSIA Verification (CORSIA EN): Virtual Classroom Course, octubre 2021;
 DC3: NMX-Z-12/1-1987 Muestreo para la inspección por atributos Parte I información general y aplicaciones, junio





Competence of Approver - Joel Miguel Ramirez



CURRÍCULUM VITAE



Joel MIGUEL RAMÍREZ

2023 a la

Gerente del organismo de certificación, S.A. de C.V.
 Gerente del organismo de certificación de sistemas y del organismo validador verificador

Principales responsabilidades

Administración de las unidades de negocio Alimentos, Sustentabilidad y Certificación de sistemas.

Gerente técnico de la unidad de inspección para las normas NOM-034-STPS-2016 v NOM-035-STPS-2018.

Auditor lider en las normas a) NMX-CC-9001-IMNC-2015 / ISO 90001:2015 b) NMX-J-SAA-50001-IMNC-2019 / ISO 50001:2018

2020-2022 Asociación de normalización y certificación, A.C.

• Gerente de áreas en desarrollo (Certificación de sistemas e inspección)

Principales responsabilidades:

Joel MIGUEL RAMÍREZ (10/2024)



Administración de la unidad de negocio "información comercial", que presta servicios de inspección del cumplimiento con normas de información comercial.

Inspector acreditado y aprobado en normas de información comercial

Representación de ANCE en órganos colegiados de normalización y de la Entidad Mexicana de Acreditación.

La unidad de inspección de información comercial cuenta con 19 normas acreditadas y aprobadas.

2019 Asociación de normalización y certificación, A.C.

Gerente de áreas en desarrollo (Certificación de sistemas e inspección)

- r;
 a) Organismo certificador de sistemas de gestión
 b) Unidad de inspección
 c) Unidad de verificación de información comercial
 d) Ciber seguridad y tecnologías de la información

Coordinación de la prestación del servicio de las áreas mencionadas en los procesos de evaluación, toma de decisión, testificaciones y formación de personal, de acuerdo a la competencia adquirida.

Asociación de normalización y certificación, A.C. Responsable de certificación e inspección 2018

Principales responsabilidades:

Administración de las unidades de negocio para las áreas de certificación de producto, certificación de sistemas de gestión, unidad de verificación, organismo de inspección y alimentos.

Apoyo en la operación de las actividades de evaluación de la conformidad de las áreas mencionadas, en los procesos de evaluación, toma de decisión, testificaciones, etc. de acuerdo a la competencia desarrollada.



Asociación de normalización y certificación, A.C.
 Gerente de certificación de sistemas y organismo validador verificador

Principales logros:

Auditor líder para las normas: ISO 50001:2011

ISO/IEC 17020, ISO/IEC 17021-1, ISO/IEC 17025, ISO/IEC 17065, ISO

- Auditor para las normas NMX-R-025-SCFI, NMX-R-026-SCFI, NMX-R-051-
- Auditor para las normas NNX-N-U-2-3-1, Imma-u-2-3-1
 Implantación de otras normas de sistemas de gestión como BSI 10500 (Gestión anti soborno), ISO 55001 (Gestión de activos), ISO 31000 (Gestión de riesgos)
 Instructor en diversos temas relacionados con la seguridad, sistemas de gestión, productividad, trabajo en equipo, responsabilidad social, etc.
 Participante del comité nacional de normalización CTNN-9, responsable de los trabajos a nivel nacional de revisión y actualización de la norma ISO 9001:2015
 Revivor técnico de dictámenes de verificación de reportes de inventarios

- Revisor técnico de dictámenes de verificación de reportes de inventarios de gases de efecto invernadero, en el organismo validador verificador de ANCE.

2013 - 2016 Asociación de normalización y certificación, A.C.

• Gerente de infraestructura y seguridad

- Principales logros:

 Responsable de la seguridad patrimonial, seguridad e higiene, mantenimiento de la infraestructura, programa ambiental y servicios de apoyo en el centro de trabajo.

 Implantación del sistema de seguridad patrimonial en el centro de

 - Mexico.
 Inicio de la implantación del sistema de gestión de la energía en el centro de trabajo. Coordinación de los diagnósticos energéticos y de los inventarios GEI realizados.

Joel MIGUEL RAMÍREZ (10/2024)



Inicio de la implantación del sistema de gestión anti soborno en el centro de trabajo.

2004 - 2013 Asociación de normalización y certificación, A.C.

Gerente de sistemas de gestión

- Principales logros:

 Coordinación del sistema de gestión integral del organismo, contemplando las directrices de acreditación ISO/IEC 17020, 17021, 17025, 17065, 14065.
- 17025, 17065, 14065.

 Certificación del sistema de gestión de la calidad de la organización bajo la norma ISO 9001.

 Responsable de las transiciones de las certificaciones del SGC de ANCE en las versiones ISO 9001:2000, ISO 9001:2008 e ISO 9001:2015.

 Se logró que el programa de responsabilidad social de la organización obtuviera el premio l'Etica y valores en la industria de Concamín⁻, en los años 2006, 2007, 2013 y 2014.

 Participación en el comité nacional de normalización CTNN-9 de sistemas de gestión.

 Responsable de seguridad e higiene en el centro de trabajo.

 Calificación como verificador en materia de seguridad e higiene, para las normas NOM-002-STPS-2010 y NOM-032-STPS-2008

1997 - 2003 Asociación de normalización y certificación, A.C. • Jefe de certificación de producto

Principales logros:

• Coordinación del departamento de certificación de enseres mayores, motores, sistemas de aire acondicionado, entre otros, en normas de seguridad al usuario y de eficiencia energética.

Promoción y coordinación de proyectos demostrativos de ahorro de energía eléctrica en la rama de la industria, financiados por el FIDE. Realización de diagnósticos energéticos. Asociación de Técnicos y Profesionistas en Aplicación Energética, A.C. ASOCIACIÓN DE CONTRACTOR DE CO

Coordinación de eventos y proyectos relacionados con la promoción del uso eficiente de la energía.

Joel MIGUEL RAMÍREZ (10/2024)





23 de abril de Metrología básica 2021 ANCE

30 de julio de Trazabilidad metrológica 2021 ANCE

03 de febrero Actualización en la NOM-004-SE-2021 de 2022 CANAINTEX

ALGUNAS CAPACITACIONES EN MATERIA DE GASES EFECTO

20- 21 de Inicios del conocimiento de principios básicos de los gases efector de invernadero. mayo 2010 INLAC

26-27

de Gases de efecto Invermadero - Requisitos para los organismos que realizan la de validación y la verificación de gases efecto invermadero, para uso en la acreditación u otras formas de reconocimiento y sus directrices de aplicación IAF.

IAF.
Entidad Mexicana de Acreditación
Taller de elaboración de inventarios de gases efecto invernadero en la
industria.
ANCE

29 – 30 de Actualización en la norma ISO 14065:2013 enero de Entidad Mexicana de Acreditación enero 2014

28 de abril de Registro Nacional de Emisiones – RENE
2017 Secretaría de Medio Ambiente y Recursos Naturales

05-08 de ISO/IEC 17029. Evaluación de la Conformidad: Principios y Requisitos junio de 2023 generales para los Organismos de Validación y Verificación.

ASOCEC

Joel MIGUEL RAMÍREZ (10/2024)



EXPERIENCIA EN AUDITORIAS DE SISTEMAS DE GESTIÓN

Auditor líder de sistemas de gestión de la calidad por más de 15 años, auditan organizaciones privadas y públicas, resaltando las siguientes:

- a) Empresas de manufactura como: LG Electronics Monterrey, México, S.A. de C.V., Leiser, S.A. de C.V., Mabe México, S. de R.L. de C.V. en diferentes plantas de la república, Koblenz Electrica, S.A. de C.V., Carrier México, S.A. de C.V.

 1) CFE distribución en varias zona de la república como Mexical, Tizmini, Tijuana.

 2) Fundición de precisión EUTETIC, S.A. de C.V.

 2) Camara Mexicana de la Industria de la Construcción, Instituto de Capacitación

 2) Dependencias del gobierno federal como STPS, órgano interno de control de PEMEX, SECTUR, Comisión para el desarrol colo los pueblos indigenas.

 3) Dependencias estatales como, Instituto Jaliciense de la Calidad, CEESAVEM, Registro público de la propiedad de Colima, H. Congreso de Colima

 2) Dependencias municipales como, Municipio de Atlacomulco, Dirección de planeación urban de Puerto Vallarta

 1) Algos del vento Vallarta

 1) Algos del Valle

 2) Refinerias Lázaro Cárdenas y Miguel Hidalgo.

 3) Vikigo Express, S.A. de C.V.

 3) Fideicomiso para el ahorro de energía eléctrica

 3) Safran Landing a systems de México, S.A. de C.V.

 1) Entre otras

IX. REPRESENTACIONES EN ÓRGANOS COLEGIADOS

- ISO/TC 301 Miembro de la delegación mexicana en:

 Tercera reunión plenaria del ISO/TC 301 "Energy management and energy savings" y sus Grupos de Trabajo. Ixtapa, México, 25 al 29 de junio del 2018
- de junio del 2018

 Reuniones de grupos de trabajo del ISO/TC 301, Londres, inglaterra, 26 al 30 de noviembre del 2018.

 IMNC/CTNN 9 Representante de ANCE en el CTNN-9, comité espejo del ISO/TC 176, de febrero del 2019 a julio del 2020.

Representante de ANCE en los siguientes grupos de normalización de la ión dirección general de normas:

a) Modificación de la NOM-051-SCF//SSA1-2010 "Especificaciones generales de etiquetado para alimentos y bebidas no alcohólicas

APROBACIÓN

CERTIFICADO DE APROBACIÓN

OTORGADO A:

Joel Miguel Ramírez MIRJ 720724FQ8

APROBÓ VIRTUALMENTE EL CURSO

NORMA ISO/IEC 17029 EVALUACIÓN DE LA CONFORMIDAD: PRINCIPIOS Y REQUISITOS GENERALES PARA LOS ORGANISMOS DE VALIDACIÓN Y VERIFICACIÓN

> DESDE EL 05-06-23 HASTA 08-06-23 INTENSIDAD: 12 HORAS

FIRMADO A LOS 20 DÍAS DEL MES DE JUNIO DE 2023

Mall Aparna Dhawan Sr Counsellor and Head QS, CII-10

Ramón Madriñán **Presidente Ejecutivo** ASOCEC



Annex 2. Clarification requests, corrective action requests and forward action requests

Finding ID: 1	Type of finding: Corrective action	Date: 06/12/23
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Requirement / Criteria

Standard BCR, version 3.2, September 23.2023;

12 Quantification and monitoring of GHG emission reductions and/or GHG removals
12.1 Conservative approach and uncertainty management GHG Project holder
should establish and apply mechanisms for managing uncertainty in the
baseline quantification and mitigation results.

GHG Project holder should establish and apply mechanisms for managing uncertainty in the baseline quantification and mitigation results.

Description of finding

During the validation and verification carried out in documentary mode and on site, it was found that the quantities of non-hazardous organic waste used for the calculation of estimated reductions differed from those found in the manifests and shipments received by the organization (solid waste records folder), causing a material difference.

Project holder response: 31/01/2024

Documentation provided by the project holder

File containing the compilation of solid residues: WORMS solid V2.xlsx GENERAL QA/QC PROCEDURES Version 1, Worms.

CAB assessment (06/02/2024)

The project owner considered the verified quantities (based on waste shipments) for the emission reduction estimate calculation, due to the fact that the Project owner did not submit the calibration for the other years in the baseline estimation calculation, the conservative principle of reducing by 2% the amount of solid waste (Wj,x) was applied with the motive of occurring an underestimation that in an overestimation of GHG emission reductions (principle of ISO- 1406464-2:2019). In addition, it has implemented a procedure "General QA/QC procedures" to reduce uncertainty and improve the quality of the GHG reduction estimation calculation.

Finding ID: 2	Type of finding: Corrective action	Date: 06/12/23
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Requirement / Criteria

Standard BCR, version 3.2, September 23.2023;

12 Quantification and monitoring of GHG emission reductions and/or GHG removals 12.1 Conservative approach and uncertainty management GHG Project holder should establish and apply mechanisms for managing uncertainty in the baseline quantification and mitigation results.



If the data and parameters applied to estimate the reduction or removal of GHG emissions shall be consistent with the emission factors, activity data, projection of GHG emissions, and the other parameters used to construct the inventory national of GHG and the national reference scenario. If this is the case, then it is unnecessary to apply the percentages defined for the discount factor provided in the quidelines for managing uncertainty.

Description of finding

During the validation and verification of the Project, it was found that there are emission factors for electricity consumption published by the Secretary of Energy of Argentina, which are more accurate values for the calculation of emissions estimates.

Project holder response: 31/01/2024

Documentation provided by the project holder

file with corrections of the emissions calculation for electricity consumption: WORMS solid V2.xlsx

Calculation of the CO₂ Emission Factor of the Argentine Power Grid, Dados Energies - Calculation of the CO₂ Emission Factor of the Argentine Power Grid (energia.gob.ar) GENERAL QA/QC PROCEDURES Version 1, Worms.

CAB assessment (06/02/2024)

The Project owner recalculates the GHG emission reductions using the emission factors for electricity consumption that the Ministry of Energy, through the Wholesale Electricity Market, officially.

Requirement / Criteria

Standard BCR, version 3.2, September 23.2023;

12 Quantification and monitoring of GHG emission reductions and/or GHG removals 12.1 Conservative approach and uncertainty management GHG Project holder should establish and apply mechanisms for managing uncertainty in the baseline quantification and mitigation results.

If the data and parameters applied to estimate the reduction or removal of GHG emissions shall be consistent with the emission factors, activity data, projection of GHG emissions, and the other parameters used to construct the inventory national of GHG and the national reference scenario. If this is the case, then it is unnecessary to apply the percentages defined for the discount factor provided in the quidelines for managing uncertainty.

Description of finding

During the validation and verification of the project, it was found that diesel and gasoline consumption reported in the invoices (PLANILLA COMBUSTIBLE.xlsx) and energy consumption are overestimated and not adjusted to the project limit, so it is necessary to record the energy consumption based on the declaration of the limit and scope of the project.



Project holder response: 31/01/2024

Documentation provided by the project holder

The file contains the quantities of energy used in the project activity:

WORMS solid V2.xlsx

Combustible real usado.xlsx

Consumo Gasoil COMPOST.xlsx

GENERAL QA/QC PROCEDURES Version 1, Worms.

CAB assessment: 06/02/2024

The owner of the Project made a conservative estimate of the energy consumption (diesel and electricity) used in the Project, based on the operation and observation of the Project, it was determined that gasoline consumption in the Project is zero.

Finding ID: 4 Type of finding: Corrective action Date: 06/12/23

Requirement / Criteria

Standard BCR, version 3.2, September 23.2023;

11 General Requirements

11.1.5 Activities on waste handling and disposal

Waste management and disposal projects eligible under BIOCARBON are GHG emission reduction projects that focus on the use of waste and the reduction of GHG emissions that would be generated during the treatment and final disposal of solid or liquid, industrial, household or mixed waste.

Description of finding

Correct the wording of the Project Objective in accordance with the BCR Standard:

"It is important to note that the project objectives should be consistent with the proposed activities and expected GHG mitigation outcomes.", so the focus needs to be directed to the Project and not to the organization.

Project holder response: 31/01/2024

Documentation provided by the project holder

The updated PDD was reviewed:

PDD-Worms-Solid V2.doc

CAB assessment: 06/02/2024

The project objective was corrected by mentioning the proposed activities and the expected mitigation results of the project.



Finding ID: 5	Type of finding: Clarification	Date: 06/12/23
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Requirement / Criteria

Standard BCR, version 3.2, September 23.2023;

10 Methodological Documents

Projects holders shall apply methodologies eligible under this Standard. Methodologies shall be applied in full, including the full application of any tools or parameters/data referred to by a methodology.

Description of finding

Clarify the applicability of the methodologies used for the Project's emissions reduction. In the PDD there is a replication of the paragraphs of the methodology without reflecting the application of each one.

Project holder response: 31/01/2024

Documentation provided by the project holder

The updated PDD was reviewed:

PDD-Worms-Solid V2.doc

WORMS solid V2.xlsx

CAB assessment: 06/02/2024

The project owner evaluated the points of the methodologies applicable to the project and included the analysis of each one in the PDD, which can be seen in point 5.5.2.2 Applicability of the report.

Finding ID: 6	Type of finding: Clarification	Date: 06/12/23
Requirement / Criteri	a	
Standard BCR, version 3	.2, September 23.2023;	
11 General Requi	rements	
11.5 Project lengt	h and quantification periods	
Project h provide a	older shall determine the start date of	f the GHG project and
	on of how this start date has been determ	nined. Based on, project
shall defi GHG	ne the project length of the GHG projec	t. The project length of
projects i	s the following:	
(c) fo	or projects in sectors other than AFOLU	
(i	i) A maximum of 10 years with no option	n of renewal.
Description of finding	,	

Description of finding

Clarify the specific period covered by the Project considering that it will last 10 years.

Project holder response: 31/01/2024



Documentation provided by the project holder

The updated PDD and calculation was reviewed:

PDD-Worms-Solid V2.doc

WORMS solid V2.xlsx

CAB assessment: 06/08/2024

The project owner clarified the estimated emission reductions for the project considering the duration of the project (10 years), and also included in the PDD the estimated reductions for the entire project period.

Finding ID: 7 Type of finding: Clarification Date: 06/12/23

Requirement / Criteria

Standard BCR, version 3.a2, September 23.2023;

12 Quantification and monitoring of GHG emission reductions and/or GHG removals 12.1 Conservative approach and uncertainty management GHG Project holder should establish and apply mechanisms for managing uncertainty in the baseline quantification and mitigation results.

If the data and parameters applied to estimate the reduction or removal of GHG emissions shall be consistent with the emission factors, activity data, projection of GHG emissions, and the other parameters used to construct the inventory national of GHG and the national reference scenario. If this is the case, then it is unnecessary to apply the percentages defined for the discount factor provided in the guidelines for managing uncertainty.

Description of finding

Qualify the uncertainty analysis for direct solid waste measurements.

Project holder response: 22/02/2024

Documentation provided by the project holder

The updated PDD and calculation was reviewed:

PDD-Worms-Solid V2.doc

WORMS solid V2.xlsx

GENERAL QA/QC PROCEDURES Version 1, Worms

CAB assessment: 26/02/2024

The project owner considered the verified quantities (based on waste shipments) for the emission reduction estimate calculation, due to the fact that the Project owner did not submit the calibration for the other years in the baseline estimation calculation, the conservative principle of reducing by 2% the amount of solid waste (Wj,x) was applied with the motive of occurring an underestimation that in an overestimation of GHG emission reductions (principle of ISO- 1406464-2:2019). In addition, it has implemented a procedure "General QA/QC procedures" to reduce uncertainty and improve the quality of the GHG reduction estimation calculation.



Requirement / Criteria

Standard BCR, version 3.a2, September 23.2023;

- 16 Stakeholder engagement and consultation
- 17 Sustainable Development Goals (SDG)
- 21 Monitoring Plan

Description of finding

Clarify how the mitigation results were achieved as a consequence of the implementation of the project activities (application of the methodology). Ni la contribución del proyecto a los ODS, la consulta con las partes interesadas y el cumplimiento de la legislación nacional, ni el plan de monitoreo.

Project holder response: 02/09/2024

Documentation provided by the project holder

The updated PDD was reviewed:

PDD-Worms-Solid V2.doc

WORMS solid V2.xlsx

Municipalidad Arroyo Seco 20 Mayo 24.pdf (notification of complaints and denunciations)

Minutes of meeting with neighbors (2018 to 2023)

Neighbors complaints and claims book (2019 to 2021)

Notification of environmental commitment to suppliers (Zofravilla S.A., Santa Fe Aceites, INAGRO)

Customer complaints and claims book (2019 to 2023)

Employee Grievance Book (2019 to 2023)

Employee handbook, Worms

Resolution N° 406/19

Municipalidad Arroyo Seco Mayo 24.pdf

Resolution N° 024/18.pdf

SDG Tool: SDG-Tool-2023-WORMS Solid (SDG-WORMS solid 201024.xlsx)

CAB assessment: 26/10/2024

The project demonstrates compliance with sustainable development goals by aligning with SDGs 9, 11, 12, and 13 through actions such as increasing local employment, promoting waste recycling and reuse, and reducing methane emissions via controlled composting. Stakeholder consultation is evident through regular meetings with local communities and authorities, as well as feedback mechanisms like suggestion books,



with no significant complaints reported. National legislation compliance is ensured through updated permits and adherence to local and national environmental regulations. The monitoring plan is robust, covering project boundaries, activity execution, emission quantification, and quality control, with mechanisms for data recording and archiving.

Annex 3. Documentation review

Document Title / Version	Author	Organization	Document provider (if applicable)
Sealing and verification report (OTN° 307-15719 y 28315), 2019, 2021 y 2023	Tco. Pablo Daniel Cornet	INTI (Ministry of Productive Development Argentina)	Not apply
Fuel consumption billing records, 2020, 2021, 2022	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
Electricity consumption invoices. 2018 to 2023	Not apply	Empresa Provincial de la Energía de Santa Fe	Empresa Provincial de la Energía de Santa Fe
Annual revenue control, 2018 to 2022	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
Logbook of waste as raw material for composting, 2018 to 2023	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
Calculation of the CO ₂ Emission Factor of the Argentine Electric Power Grid, 2023	Secretary of Energy of Argentina,	Not apply	Secretary of Energy of Argentina, energia.gob.ar
Records of Emission Factors of the Wholesale Electricity Market of Argentina, Emission Factor, 2023	CAMMESA	CAMMESA	Not apply
CO2 emissions calculated on the basis of retail sales of liquid fuels in EESS, 2018	Government Secretary of Energy, Argentina	Government Secretary of Energy, Argentina	Not apply
Joint Resolution 1/2019, RESFC- 2019-1-APN-SECCYMA#SGP, 2019	Enviromental monitoring and Control Secretary	Enviromental monitoring and Control Secretary	Not apply



Document Title / Version	Author	Organization	Document provider (if applicable)
endment record - compost - solids, 2023	National Service of Agrifood Health and Quality (Servicio Nacional de Sanidad y Calidad Agroalimentaria)	Not apply	Not apply
Compost quality control, V1,	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
Effluent discharge procedure, V1, 2021	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
PE-8.2-02 Transport entry control instructions, V1, 2021	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
PE-8.2-04 Instructions for waste acceptance for composting, V1,	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
Billing of electric energy consumption, 2018 to 2023	Not apply	Not apply	EPE, Santa FE Energy (Energía de Santa FE)
Invoicing of diesel consumption, 2028 to 2023	Not apply	Not apply	LISLENCI S.R.L
Diesel and Electric Energy Consumption File, 2023	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
Decree (PEP) 2151/14. From 17/07/2014. B.O.: 05/08/2014. Non-Hazardous Waste	Provincial Executive Power	Not apply	Not apply
LAW ON MINIMUM BUDGETS FOR ADAPTATION AND MITIGATION TO GLOBAL CLIMATE, 2019 CHANGE, Law 27520	Argentina Framework Law	Not apply	Not apply
Municipalidad Arroyo Seco Mayo 24.pdf	Not apply	Arroyo Seco Locality, environmental Secretary	Not apply
Resolution N° 02418	Not apply	Arroyo Seco Locality,	Not apply
National Plan for Adaptation and Mitigation of Climate Change, version 2022.	Ministry of Environment and Development Sostenible de la República Argentina	Not apply	Argentina Goverment

Joint Validation and Verification Report template Version 1.2



Document Title / Version	Author	Organization	Document provider (if applicable)
ENVIRONMENTAL MONITORING, inform 9985, November 2021	Not apply	HSE INGENIERIA SRL	Not apply
ENVIRONMENTAL MONITORING, inform 9986, November 2021	Not apply	HSE INGENIERIA SRL	Not apply
Resolutio Number 406	Jacinto R Speranza	Province of Santa Fe Ministries of Environment	Not apply
Customer Satisfaction Procedure Version or	Worms Argentina S.A.	Worms Argentina S.A.	Not apply
GENERAL QA/QC PROCEDURES Version 01	Worms Argentina S.A.	Worms Argentina S.A.	Not apply



Annex 4. Validation and Verificatión Plan

2023SV-OVV00003_Worms
Worms Argentina S.A.
OC-VV-GEI ANCE
Periodo de validación del proyecto de GEI: 01/04/2018 – 31/03/2028
Periodo de verificación del proyecto de GEI: 01/04/2018 – 31/03/2028

Folio: N.A.



PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

WORMS ARGENTINA S.A.

Fecha de actua	lización del plan:	04 de Marzo del 2024
OC VV GE	l Asociación de Norm	alización y Certificación, S.A. de C.V.
Acreditación ante la ema:		rada en vigor 26/06/2015, con fecha de 10/2023. Sectores acreditados: del 1 al 3 con
Domicilio:	-	Io. 869, Fracc. 3, Col. Nueva Industrial Vallejo, Madero, C.P. 07700, México, D.F.
Teléfono:	+52 (55) 5747 4550 E	xt. 4671,4666.
e-mail:	sustentabilidad@ance	e.org.mx

OBJETIVO GENERAL

Evaluar los controles asociados al sistema de información y los datos correspondientes a las reducciones de emisiones de GEI reportadas por **WORMS ARGENTINA S.A.**, tomando como referencia la información de entrada durante las actividades de validación/verificación documental y en sitio.

OBJETIVO ESPECÍFICO

Ratificar que la información sobre la declaración del proyecto de GEI y las FSR asociadas al mismo, se encuentran debidamente sustentados en evidencia suficiente o apropiada que demuestran de manera consistente, la veracidad de la información sobre las reducciones de emisiones de GEI reportadas por el proponente del proyecto.

ALCANCE DE LA VERIFICACIÓN/VALIDACIÓN

El alcance de la verificación/Validación de proyectos incluye los límites del proyecto *Treatment of non-hazardous industrial waste to obtain Biocompost*, la infraestructura física, actividades, tecnologías y procesos, FSR de GEI, tipos de GEI y el período reporte. Para las declaraciones de GEI que contienen reducciones de emisiones o aumentos de remociones incluye los efectos secundarios materiales, el escenario de línea base (validación) y los escenarios del proyecto (verificación).

	I. INFORMACIÓN DE ENTRADA
Alcance de la validación:	Treatment of non-hazardous Industrial waste to obtain Blocompost, propuesto por POLARIS NETWORK ESPAÑA SL, con dirección en: Industrial Sector 3 Prof. Nucci St. S/N entre carretera Buenos Aires and calle San Martí, Arroyo Seco, Santa Fe, Argentina
Criterio de validación:	BioCarbon Registry
Nivel de aseguramiento:	Razonable (≥ 95 %)
Umbral de materialidad:	5%
	II. EQUIPO DE VALIDACIÓN/VERIFICACIÓN
Validador/verificador Líder	Excalibur Ernesto Acosta Miranda
Validador/verificador::	Nancy Adriana Barrera Gómez

Recusación del equipo de validación/verificación: En caso de identificar algún conflicto de intereses que amenace la imparcialidad del servicio en relación con el personal designado por ANCE, agradeceremos nos lo comunique a la brevedad (Ver análisis de Conflicto de Interés).

	III. REVISOR INDEPENDIENTE	
Revisor independiente:	Janai Monserrat Hernández Contreras	

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PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

Recusación del revisor independiente: En caso de identificar algún conflicto de intereses que amenace la imparcialidad del servicio en relación con el personal designado por ANCE, agradeceremos nos lo comunique a la brevedad (Ver análisis de Conflicto de Interés).

RESPONSABILIDADES Y FUNCIONES DEL EQUIPO EN EL PROCESO DE VALIDACIÓN/VERIFICACIÓN

NOTA 1. Validadar/Verificador Lider: persona competente en materia de validación/verificación de emisiones de gases de efecto invernadero, responsable de conducir el proceso de validación/verificación, coordinar el equipo de validación/verificación y emitir la Declaración/Opinión de Validación/Verificación. Acreditado de acuerdo al estándar ISO 14065:2013.

NOTA 2. Validadar/Verificador: persona competente en materia de validación/verificación de emisiones de gases de efecto invernadero que lleva a cabo las actividades de

woldación/virificación por el cual fue acreditado de acuerdo al estándar ISO 14065:2013.

NOTA S. Revisor Independiente: verificador lider acreditado y aprobado que, como parte del Organismo de Validación/Verificación revisa el proceso de validación/verificación, así como la emisión de la declaración/opinión de validación/verificación el manera objetiva e imparcial, por lo cual deberá ser independiente al proceso de validación/verificación, es decir, que no actuará como un validador/verificación, su nivel de imparcialidad es relevante.

IV. INFORMACIÓN SOBRE EL PROYECTO DE EMISIONES DE GEI DEL PROPONENTE

Objetivo del proyecto:

Worms Argentina S.A investiga y brinda soluciones viables y sustentables a problemáticas complejas como los residuos sólidos no peligrosos mediante el compostaje de estos residuos.

Sector al que pertenece el proyecto: Manejo y eliminación de residuos

	Red	ucción o	de emisión		Aun	nento de	remoción				
Fuente de Emisión, Sumidero y/o Reservorio de GEI (FSR) o tecnologías del proyecto	Direct (Categor	_	Indire (Categor 6)		Direc (Catego		Indirecta (Categoría 2 a 6)				
Vertedero	X				N.A	.	N.A.				
Sitio de composteo (CH4)	Х				N.A	N.A.					
Sitio de composteo (N2O)	Х				N.A	N.A. N.A.					
Maquinaria móvil	Х				N.A	.	N.A	l.			
Varios por consumo de energía eléctrica			х		N.A	A. N.A.					
Tipos de GEI incluidos en la declaración de G	SEI:	ထ	O4	N ₂ O	HFC	PFC	NF ₃	SF ₆			

Procedencia de los datos para el escenario de línea

Datos históricos de un año (X)

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base y la línea base del proyecto de GEI: Datos históricos de un promedio de varios años ()

Mote. Cotegoria 1: emisiones y remociones directos de GEF, Categoria 2: emisiones indirectos de GEF por energia importada; Categoria 3: emisiones indirectos de GEF por transporte; Categoria 3: emisiones indirectos de GEF por transporte; Categoria 3: emisiones indirectos de GEF por encoductos utilizados por la arganización; Categoria 5: emisiones indirectos de GEF por etras fuentes.

Categoria 6: emisiones indirectos de GEF por etras fuentes.

V.	CRONOGRAMA DE TRABAJO																=					
Actividad	Responsable	H	mi	Ш	ш	М	m	4	Y I	¥C	10		П	VI	ш	T.	•	ш	П	VΤ	ш	mi
Rebessable do Marris do Re CCI Interna	AMCE		П		T					T	Т				Т	T				T		\top
Solicitud do la declaración do GEI e información de custosto	ANCE				Т	П	\Box	\neg	Т	Т	Т			\neg	Т	Т		П		Т		\neg
lands de la información de cuatrosio	WORMS			Т				П	Т	Т	Т			\Box	Т	Т		П		Т		\neg
Verfeerlik deranadal	AMCE				т	П		П	Т						Т	Т						
Eleboración de Antibia de risagra/Plan de Bocapilación de existencias/	AMCE		П							Т				\perp	1	Т		П				
Debaración y Carlo do Plan de varificación/Valdación ³	AMCE																					
The Place the Published in on althory Colorage do Informe do Nationpe	ANCE - WOULD														_	Т						
Delange de Reporte de Hallanges	AMCE										Ш											
Assertis de hallague par parte del Charas ^a	WOOMS																					
Andrea de aranción de habespe por parte del CAVI [®]	AMCE		П											\perp	\perp			Ш				
Distriction y cords de informe comodétain de ballanges	weeks																					
No. Do. de Informe Validación/Varification de habaques*	weeks																					
Baburustin y envis del borredor de la Declaración/Opinión e Informe de 1674	AACE																					
Truite, del berruter per parte del Citatos	WOOMS																					
Firms y entrega de Declaración/Opinión de Varificación e Informo de Varificación (digital)	AACE																					
Socialis tectios de MaCarles Registry	ace.				Т											Т					П	

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Los planes de V/V deben contar con firma de aceptación del cliente

Los días máximos para la atención de los hallazgos son 30 días hábiles, estos se contabilizan posterior al día de entrega del informe de hallazgos.



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PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

- Para el análisis de la atención de los hallazgos, así como la elaboración y envio del Informe consolidado de hallazgos, el OVV cuenta con 10 días hábiles máximo.

 *Al entregar el Informe consolidado de hallazgos, el diente cuenta con 3 días hábiles máximo para otorgar el Vo.Bo. via correo electrónico, en caso de no hacerlo, el OVV lo dará como aceptado y procederá a la siguiente etapa del proceso.

 *El tiempo de elaboración del borrador de la Declaración e Informe de verificación por parte del OVV son 7 días hábiles, esto incluye el proceso de revisión independiente.

 *Al entregar el borrador de la Declaración e Informe de verificación, el dilente cuenta con 7 días hábiles máximo para otorgar el Vo.Bo. vía correo electrónico, en caso de no hacerlo, el OVV lo dará como aceptado y procederá a la siguiente estra del proceso.

 *La Declaración e Informe de verificación en físico se enviarán al cliente posterior al envio de los documentos de manera digital y al concluir el proceso de facturación y pago.

VI. PLAN DE RECOPILACIÓN DE EVIDENCIAS

A. FSR de reducción de emisiones y su porcentaje de contribución al total de emisiones

**	Founto de emisión Escenario de lineo base	Puento de emisión Geomerio del Proyecto	Combustible/Insumo consumido	Activided que genera les emisión/reducción de 66)	Emisiones 1 CO _y e	•	Reductiones t CO _p o	٠
	Vertedore		NUTA	Descemposición de residues solidos	20,873	7.71		
		Sisio de composteo (CHE)	N/A	Tratamiento de la biomaca mediante compostaje	675	0.49		
2018		Sitio de composteo (NOO)			434	0.45	9,522	896
		Sino de camposano (CH4) Sino de camposano (CH4) Misquiros in midul Misquiros in mid	34	8.02				
		Varios por consumo de energia eléctrica			4	8.00	9,522 13,661 10,672 13,369 13,766 13,767	
	Vertedero		RIA	Descempesición de residuos sellidos	34,961	1857		
					925	0.66		
909					874	462	13,051	219
				Combustión interna		804		
		Varios par consumo de energia eléctrica				8.00		
	Vertedere				12,540	8.89		
					776	8.55		
0000			N/A	Tratamiento de la biomaca mediante compostaje	734	852	10,972	99
		Varios por consumo de energia eléctrica			,	8.00		
	Vertedore				25,140	10.73		
		Sido de composteo (CHI)	N/A	Tratamiento de la biomaca mediante compostaje	940	0.67		
101		Stip de composteo (NOO)	N/A	Tratamiento de la biomaca mediante compostaje	889	0.63	13,259	11
		Magainaria mdviš	Diésel	Combustión interna	92	0.04		
		Varios par consumo de energia eléctrica	N/A	Consumo de energia eléctrica		0.01		
2002	Vertedore		RIFA	Descempesición de residuos solidos	34,404	10.25		
		Stip de composteo (CHI)		Tratamiento de la biomata mediante compostaje	904	0.64		
		Sitio de composteo (NOO)	N/A	Tratamiento de la biomaca mediante compostaje	856	0.61	13,766	100
		Magainaria mdvili	Distort	Combusión interra	90	0.06		
		Varios por consumo de energia eléctrica	N/A	Consumo de energia eléctrica		8.00		
	Vertedero				14,606	10.25		
		Sitio de composteo (CHI)		Tratamiento de la biomaca mediante compostaje	904	0.64		
002		Stio de composteo (VOO)	N/A	Tratamiento de la biomaca mediante compostaje	254	0.61	12,747	100
		Maquinaria movil	Distort	Combustión interna	90	8.06		
		Varios por consumo de enerola eléctrica	N/A	Consumo de energia eléctrica		8.00		
	Vertedore		MACA	Descempesición de residues solidos	14,606	10.35		
- [Sido de composteo (CHI)	N/A	Tratamiento de la biomata mediante comportaje	904	0.64		
04		Stio de composteo (VOO)	N/A	Tratamiento de la biomaca mediante compostaje	856	0.61	12,747	10
		Magainaria movil	Distort	Combunión interna	90	8.06		
		Varios par consumo de energia eléctrica	N/A	Consumo de energia eléctrica		8.00		
	Vertedore		RUM	Descempesición de residuos sellidos	34,606	10.35		
		Sido de composteo (CHI)	N/A	Tratamiento de la biomaca mediante compostaje	904	0.64		
05		Sitio de composteo (1/20)	N/A	Tratamiento de la biomaca mediante compostaje	856	0.61	12,747	20
		Maquinaria mdviš	Diésel	Combustión interna	90	8.06		
		Varios par consumo de energia eléctrica	N/A	Consumo de energia eléctrica	5	0.00		
	Vertedero		RIA	Descenpedatión de residuos solidos	34,606	10.25		
		Sitio de composteo (CHI)	N/A	Tratamiento de la biomaca mediante compostaje	200	0.64		
906		Sitio de composteo (NJO)	N/A	Tratamiento de la biomaca mediante comportaje	854	0.61	12,747	30
		Maguinaria mdvili	Diffeet	Combustión interna	90	8.06		
		Varios por consumo de energia eléctrica	N/A	Consumo de energia eléctrica		8.00		
	Vertedore		MACA	Descensosición do residuos solidos	34,606	10.35		
- [Sitio de composteo (CHI)	N/A	Tratamiento de la biomaca mediante comportaje	906	0.64		
007		Stip de composteo (100)	N/A	Tratamiento de la biomaca mediante compostaje	484	0.61	13,747	10
		Maquinaria mdvili	Diffeet	Combustión intersa	90	0.06		
- 1		Varios por consumo de energia eléctrica	NA	Consumo de energia eléctrica		8.00		

B. Análisis de riesgos

Los riesgos que se deben evaluar de forma cuantitativa y cualitativa son:

- Riesgos inherentes: riesgo de que se produzcan errores, extravíos o desviaciones atribuibles al manejo de información del establecimiento.
- . Riesgos de control: riesgo de que el sistema de control interno del establecimiento no pueda prevenir, detectar y/o corregir errores.

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PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

Riesgo de detección: riesgo de que los procedimientos del verificador no detecten errores.

Cuadro 1. Análisis de riesgos*.

FRS de emisión /	Actividad *	Descripción de los riesgos			RC	RD	Riesgo de la	Clave de
Reducción	Actividad -	RI	RC	RI	nc.	N.D	Verificación/Validación	mitigación
Vertedero	Aplicación de la metodología de cálculo con base al programa de GEI	Aplicación de la metodología de cálculo con base al programa de GEI	Se aplica la metodología de cálculo de acuerdo al Programa GEI aplicable;	В	В	А	Bajo	a, c, g, k
Sitio de composteo (CH4)	Aplicación de la metodología de cálculo con base al programa de GEI	Aplicación de la metodología de cálculo con base al programa de GEI	Se aplica la metodología de cálculo de acuerdo al Programa GEI aplicable;	В	В	A	Bajo	a, c, g, k
Sitio de composteo (N2O)	Aplicación de la metodología de cálculo con base al programa de GEI	Aplicación de la metodología de cálculo con base al programa de GEI	Se aplica la metodología de cálculo de acuerdo al Programa GEI aplicable;	В	В	A	Bajo	a, c, g, k
Maquinaria móvil	Revisión de reportes de consumo del combustible en bitacoras/Facturas	Revisión de reportes de consumo del combustible en bitacoras/Facturas	La Fuente de emisión debe estar dentro de los límites operacionales / organizacionales de la Organización;	В	В	A	Bajo	a, c, g
Varios por consumo de energía eléctrica	Revisión de Facturas de la energía eléctrica consumida	Revisión de Facturas de la energía eléctrica consumida	Se detectaron errores en el procesamiento de datos en el cálculo de emisiones;	В	В	A	Bajo	a, c, g

Siglas: Ri: Riesgo inherente; RC: Riesgo de contral; RD: Riesgo de detección. Ver anexa A para la descripción de medidas de mitigación.

Evaluación del riesgo							
Riesgo de la verificación:	Bajo						

^{*}Con base en el ANEXO A.

C. Justificación del nivel de aseguramiento.

a) Para validaciones/verificaciones bajo criterios de la UNE EN ISO 14064 o algún otro programa de GEI que se base en ella: existen dos niveles de aseguramiento, el limitado (50%) y el razionable (80%). Con base en el numeral A.2 del "Anexo A Verificaciones de niveles de aseguramiento limitado" de la norma UNE EN ISO 14064-32/019, en los casos de las verificaciones de nivel de aseguramiento limitado, no se debe cambién en vez comenzado el compromiso. En caso de que se cambie, se debe documentar las razones del cambio, así como comenzar una nueva verificación a un nivel de aseguramiento diferente.

Validación/Verificación documental							
Número de FSR incluidas en la declaración de GEI:	01 Fuente						
Número de FSR que serán verificadas a nivel documental:	01 Fuente						
Periodo del escenario de linea base:	01/04/2018 al 31/03/2028						
Periodo de proyecto:	01/04/2018 all 31/03/2023						
Días requeridos para la validación/verificación documental:	07 días hábiles						
Validación/Verificación en sitio							
Número de FSR que serán validados/verificados en sitio:	01 Fuente						
Días validador/verificador para la validación/verificación en sitio:	01 días validador/verificador						

Mota, El tiempo máximo por dia verificador es de 8 horas.

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PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

VII. ACTIVIDADES DE VALIDACIÓN/VERIFICACIÓN

Validación/Verificación documental.

Durante el proceso de la validación/verificación documental que se lleva a cabo del 23/11/2023 al 04/12/2023 se realizan las actividades que se mencionan a continuación, considerando la evidencia (documentos) presentada por Worms Argentina S.A., listada en el cuadro 2.

La revisión documental conllevará la evaluación de:

- a. El sistema de manejo de información de GEI y sus controles para determinar las fuentes de errores, omisiones o desviaciones potenciales conforme a:
 - la selección, gestión de los datos y la información relacionada a emisiones y/o remociones de GEI;
 - los procesos para recopilar, procesar, consolidar y reportar la información de GEI;
 - los procesos que aseguren la exactitud de los datos y la información del reporte de GEI;
 - los resultados de evaluaciones previas, en caso de haberse realizado;
- b. Los datos y la información documental de las emisiones y/o remociones de GEI del proyecto;

Cuadro 2. Documentos evaluados en la revisión documental,

Nombre del documento						
23.03.2023 Emission Reductions_AMS.III.F based_Worms Argentina_AM (1).xlsx						
PDD-Worms-BCR para enviar.doc						
ANCE-20231122T1355142-001\ANCE\Registros ingresos solidos						
FACTURAS 2021-20231122T142156Z-001						
FACTURAS 2022-20231122T142155Z-001						
ANCE-20231122T135514Z-001						
Balanza-20231122T135441Z-001						
Combustible-20231122T135024Z-001						

Validación/verificación en sitio.

Una vez concluidas las actividades mencionadas para validación/verificación documental, se continuará con la revisión de las evidencias de la información que conforma el Documento del Diseño del Proyecto de GEI y el Plan de Monitoreo, dichas actividades destinadas a realizarse durante la visita en sitio se mencionan a continuación:

Para la validación y verificación de proyectos de GEI

La visita en sitio implica:

- La revisión exhaustiva en el sitio de acuerdo a los límites del proyecto.
- Entrevistar al personal involucrado en los diferentes procesos, en la generación y en el manejo de los datos y llevar un registro detallado tanto de las revisiones de los FSR como de las entrevistas llevadas a cabo.
- Confirmar si fueron consideradas todas los FSR de GEI.
- La revisión de los procesos para identificar, seleccionar y justificar el escenario de la línea base y la línea base.
- Verificar los procedimientos operacionales y de control que la parte responsable va a implementar para asegurarse de la calidad, integridad y seguridad de la información sobre los GEI;
- Verificar los procesos del sistema de gestión de la información sobre los GEI utilizados para reunir, unificar, transferir, procesar, analizar, corregir o ajustar, agregar (o desagregar) y almacenar la información sobre los GEI de la parte responsable;
- Verificar los procesos utilizados para reunir y revisar cualquier documentación que apoya la información proporcionada sobre los GEI:
- Verificar la evidencia de cualquier cambio introducido como resultado de recomendaciones de las validaciones o verificaciones previas:
- Verificar la aplicación de supuestos y consideraciones;
- Corroborar la disponibilidad de evidencia para la información y la declaración de GEI por la parte responsable;

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PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

- Los informes que contienen declaraciones sobre emisiones, remociones, reducciones de emisiones o aumentos de remociones de GEI relacionados con la declaración de GEI de la parte responsable.

INFORMACIÓN SOBRE LA VERIFICACIÓN/VALIDACIÓN EN SITIO

INFORMACIÓN GENERAL SOBRE LA VALIDACIÓN/VERIFICACIÓN EN SITIO						
Fecha de validación/verificación en sitio:	05/12/2023					
Horario de actividades:	09:00 - 18:00					

ORDEN DEL DÍA

HORARIO	DESARROLLO DE LA VALIDACIÓN/VERIFICACIÓN	MIEMBRO DEL EQUIPO INVOLUCRADO
09:00 a 09:30 h	Reunión de apertura. Dar una introducción del servicio de validación/verificación. Hablar sobre la disposición de recursos necesarios para llevar a cabo la validación/verificación. Dar lectura al plan de validación/verificación. Informar al cliente los principios que rigen la actividad del OC VV-GEI ANCE. Informar resultados de la validación/verificación documental.	EEAM
9:30 a 11:30 h	Desarrollo de validación/verificación en sitio. Solicitar una introducción a los procesos y actividades involucradas en el proyecto. Solicitar un recorrido por el sitio de ubicación geográfica del proyecto. O Verificación de las rutinas para el control de errores de entrada, transformación y salida de la información. Evaluar los datos e información sobre los FSR de GEI.	EEAM
11:30 a 13:00 h	Verificación de la información asociada a las FSR y reducciones de emisiones y/o aumento de remociones de GEI reportadas. Revisión del contenido del PDD Revisión de supuestos para la elaboración de línea base Revisión de datos para el escenario del Proyecto Tratamiento de la biomasa mediante compostaje (CH4 y N2O) Consumo de diésel Consumo de energía eléctrica	EEAM
13:00 a 14:00 h	HORARIO PROPUESTO PARA COMIDA	
14:00 a 17:00 h	Continuación de la validación/verificación y ratificación de la información asociados a las FSR y reducciones de emisiones y/o aumento de remociones de GEI reportadas. Tratamiento de la biomasa mediante compostaje (CH4 y N2O) Consumo de diésel Consumo de energía eléctrica	EEAM
17:00 a 17:30 h	Elaboración del informe de hallazgos.	EEAM
17:30 a 18:00 h	Reunión de cierre. Comunicar las conclusiones de la visita en sitio. Informar sobre los siguientes pasos para la conclusión del servicio.	EEAM

Siglas. EEAM: Excalibur Ernesto Acosta Miranda;

Nota. La presente agenda está sujeta a modificaciones considerando el desarrollo de la validación/verificación, así mismo, los tiempos destinados para cada actividad, dependen de los diferentes riesgos identificados en el plan de muestreo, con base en el primer párrafo del numeral 6.1.3.3 de la norma UNE-ES ISO

Modificaciones al Plan de Verificación

- Cambias en la Sección V, Cronograma de actividades;
 Cambias en sección VI, A por modificaciones la Plan de recopilación de evidencia (muestreo).
 Modificación en el periodo del proyecto

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PLAN DE VERIFICACIÓN/VALIDACIÓN DEL PROYECTO

ANEXO A

MATRIZ DE IDENTIFICACIÓN DE RIESGOS

- a) / El equipo OC VV GEI debe verificar que la fuente de emisiones este relacionada directamente con la organización, solicitando facturas de consumo de combustibles, energía eléctrica, vapor, insumo, gases refrigerantes, documentos legales, acuerdos, etc.
- c) / El equipo OC VV GEI debe verificar el total de información referente a la fuente de emisiones o en su caso hacer revisión de una muestra de datos representativa para buscar errores de transcripción.
- g) / El equipo OC VV GEI debe guiarse estrictamente con la Matriz y Guía de Verificación.
- k) / El equipo OC W GEI se asegura que las fuentes de información verificadas estén adecuadamente documentadas y sustentadas.

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Annex 5. Conflicts of interest

Asociación de Normalización y Certificación, S.A. de C.V. Organismo de Verificación/Validación de Gases de Efecto Invernadero Acreditación ante ema, a.c.: OVVGEI 001/15 Sectores acreditados: del 1 al 13 con base en IAF MD 14 20235V-0VV00003 Worms Fecha: 05/12/2023 Declaratoria de No Conflicto de Intereses para servicios de validación de GEI entre la Asociación de Normalización y Certificación, S.A. de C.V. y WORMS ARGENTINA S.A. DECLARACIÓN DE NO CONFLICTO DE INTERESES 1. ANCE, a través de su Organismo de Verificación/Validación de Gases de Efecto Invernadero (OC W GEI-ANCE), notificó desde la presentación del Cronograma los nombres de las personas que integran el equipo de validación de GEI a cargo de realizar el presente servicio sin que se presentara la recusación de alguno de ellos por identificarse en una situación de conflicto de intereses y amenaza a la imparcialidad. 2. El personal designado que integra el equipo de validación de GEI no ha sido modificado a la fecha de ejecución de la validación en sitio, siendo los integrantes: Rol en el equipo verificador Excalibur Ernesto Acosta Miranda Validador y verificador líder Validador, Validador Nancy Adriana Barrera Gómez Por lo que no existe conflicto de intereses o amenazas a la imparcialidad del proceso de validación que están 3. El personal designado que integra el equipo de validación de GEI ha sido modificado y notificado con al menos una semana de anticipación a la fecha de ejecución de la validación en sitio, siendo los integrantes: Rol en el equipo verificador Sin que exista conflicto de intereses o amenazas a la imparcialidad del proceso de validación que están por Excalibu Ernesto Acosta Miranda Especialista del OW Asociación de Normalización y Certificación, S.A. de C.V. Página 2 de 5 FOROVV-P01.05.21



Annex 5.1 COI ANALYSIS

			ANÁLISIS DE CONFLIC	TO DE INTERES / I	RIESGOS A LA I <u>m</u> i	PARCIALIDAD <u>/ S</u>	(LVAGUARDAS / N	VITIGACION		
RIESGO		IDENTIFICACIÓN	OC-VV/OVV-GEI/OV - ANCE - WORMS	Verificador/Validador líder: Excalibur Ernesto Acosta Miranda	Verificador/Validador 1: Verificador/Validador: Nancy Adriana Barrera Gómez	Aprobador Joel Miguel Ramirez	Revisor Independiente: Janai Monserrat Hernández Contreras	EVALUACIÓN	NIVEL DE RIESGO Con base en la escala de magnitud	SALVAGUARDA / MEDID MITIGACIÓN
	,	PROPIETARIO O GOBERNANZA COMÚN. Comparten Directores el Organismo y el Cliente?	No	No	No	No	No			
	· ·	Puntuación	1	1	1	1	1	1		
		ARA ACTIVIDADES DE VERIFICACION/VALIDACIÓN COMÚN. arten personal (staff) el Organismo/órgano y el cliente?	No	No	No	No	No			
Riesgo que se presenta	CCOMP	¿Han realizado funciones de supervisión al OC-VV-								
cuando se pretende validar/verificar una		GEI/OV y al cliente potencial, los últimos 2 años?	No	No	No	No	No			
declaración de GEI, existiendo relación organismo - cliente		b de l'ordonal compartido ha determinado la asignación de fondos al OC-VV-GEI/OV, en los últimos 2 años?	No	No	No	No	No			
potencial en atros servicios proporcionados al mismo cliente potencial. Así mismo		¿El personal compartido ha influido en la toma de decisiones sobre el desempeño de los servicios de verificación/validación en los últimos 2 años?	No	No	No	No	No			
cuando se encuentran involucrados interés ajenas al servicio entre las partes interesadas y		¿El personal compartido ha realizado funciones de d promoción, desarrollo, y/o financiamiento de servicios de verificación/validación, los últimos 2 años?	No	No	No	No	No			
usuarios finales (instituciones, dependencias de gobierno nacionales e internacionales.	En caso de	¿El personal compartido ha realizado cualquier actividad que influya en la toma de decisiones del servicio de verificación/validación al cliente potencial, en los últimos 2 años?	No	No	No	No	No			
programas voluntarios, ONG, consejas empresariales).	respuesta afirmativa:	¿El organismo/órgano o el personal involucrado con el f servicio proporciona o ha proporcionado servicios al cliente potencial a través de otras áreas de la asociación?	No	No	No	No	No			
		¿El cliente es miembro de la asociación a la que g pertenece el organismo/órgano o cuenta con membresías o beneficios dentro de la misma?	No	No aplica	No aplica	No aplica	No aplica			
		¿El cliente y la asociación a la que pertenece el organismo/órgano colaboran conjuntamente en proyectos relacionados al sector al que pertenece el cliente potencial?	No	No	No	No	FOROVV-P04.01.14			
		¿El cliente proporciona algún tipo de servicio a la asociación a la que pertenece el organismo/órgano o ha los miembros del equipo validador/verificador designado?	No	No	No	No	No		1	c, d, e, h, j
		Puntuación	1	1	1	1	1	1		
	RECURSOS MATERIALES COMPARTIDOS Puntuación FINANZAS COMPARTIDAS		No 1	No	No 1	No 1	No 1	1		
			No	No	No	No	No	_	1	
		Puntación	1	1	1	1	1	1		
		CONTRATOS COMPARTIDOS	No 1	No	No 1	No	No	1		
		MERCADOTECNIA COMUN	No	No	No	No	No	_		
		Puntuación	1	1	1	1	1	1		
	Algun mie	mbro del equipo V/V designado ha brindado los siguientes servicios al cliente								
		f Verificación de inventario GEI	No	No	No	No	No			
	Específico del servicio	g Validación de proyecto GEI h Verificación de proyecto GEI	No No	No No	No No	No No	No No			
	GEI	i Consultoría GEI	No	No	No	No	No			
		j Capacitación GEI	No	No	No	No	No			
		Valor mayor de acuerdo a tabla	1	1	1	1	1	1		
	Análisis respecto a	k FINANCIAMIENTO	No	No	No	No	No			
	las actividades	/ CONSULTORÍA CAPACITACION NO PERMITIDA POR EL ESQUEMA DE	No No	No No	No No	No	No No			
	realizadas	n MERCADOTECNIA	No No	No No	No No	No No	No No			
	u ofrecidas	Valor mayor de acuerdo a tabla	1	1	1	1	1	1		
		El cliente ha desarrollado servicios en alguna área de o ANCE ajena a la V/V de inventarios/proyectos de gases de efecto invernadero.	No	No	No	No	No			
	Relación entre áreas de ANCE -	El servicio desarrollado/ejecutado con dicha área de p ANCE comparte personal con el equipo designado para ejecución del servicio de V/V.	No	No	No	No	No			
		El cliente cuenta con un contrato vigente en algún área de ANCE que pueda afectar de manera directa las actividades dentro del servicio de verificación/validación del Inventario de emisiones de GEI.	No	No	No	No	No			
		·	1	1	1	1	1	1		
Riesgo asociado al pago por servicios proporcionados por el verificado (cliente potencial).Existiendo la posibilidad de que un	Análisis del riesgo	¿Existe amenaza, insinuación para no contratar, condicionar la contratación o adquisición de otros a servicios ofrecidos por el Organismo/órgano o darse de baja de la membresía con base en el resultado de la verificación/valdación?	Los ingresos del cliente potencial equivalen al 0.78 % del total de ingresos anual del Organismo. El cliente potencial <u>no es</u> un	No	No	No	No			-1-1
verificado (cliente potencial). Existiendo la posibilidad de que un cliente potencial pague por la validación/verificación de la declaración sobre	.c.go	venticacion/validacion? ¿Algún miembro del equipos o el OC VV GEI/OV tiene b relación financiera contractual con el cliente y/o parte	miembro asociado del Organismo.	No	No	No	No		1	c, d, e, h, j

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NINTERES PERMIT AND STATE OF THE PROPERTY OF T	es projou finitio, par minido). Is sis de que el conforma de la conforma de los sos del requipo trabajo. Is sis de que el con de los sos del requipo de los conforma de los conformas	g h h dílisis del riesgo	¿Se identifica alguna presión por parte de la Organización (ESR/explotador aéreo para obtener un resultado postión o inmediato que directa un beneficio económico al equipo verificado?? ¿El personal involucrado con el servicio es o ha estado subordinado laboralmente con la Organización (ESR/explotador aéreo? ¿Existen beneficios de interés financiero por el servicio? ¿Existen beneficios de interés financiero por el servicio? ¿Existen beneficios de interés financiero por el servicio? ¿Existen de la company de la company de verificación/validación, actina en defensa legal del cliente frente a terceras partes? ¿Existe interés personal al poseer acciones del cliente a verifica/validar? ¿Valor moyande ouerado a toblo ¿Se ha brindado asesoría, consultoría, auditoría, intermediación (corretajo), gestoria o capacitación a la organización/ESR/esplotador aéreo en temas de GEI, en los 3 últimos años, a la fecha de ingreso de su solicitud? ¿Estela involucramiento del organizanó/ESR/esplotador aére en erriticación/validación en el desarrollo del reporte de erriticación del personal del equipo de verificación yaldicación en el desarrollo del reporte de erriticación personal con la organización/ESR/explotador aéreo? ¿Se emplea personal con parentesco, consanguineidad o relación personal con la organización/ESR/explotador aéreo?	No No No No No No No 1 No	No	No	No N	No	1	1	c, d, e, h, j c, d, e, h, j
NOTOR Riesgos de Riesg	isso active por Anti- sis propio I sis seque el ao que el ao uno de los aos de que el ao uno de los aos del que el ao uno de los aos del que ao ao de ao a	f f g h h h h isiss del riesgo i k	subordinado laboralmente con la Organización/ESK/eplotador aéreo? ¿Existem beneficios de interés financiero por el servicio? ¿Estistem beneficios de interés financiero por el servicio? ¿El organismo/órgano o una persona del equipo de verticación/validación, actitura en defensa legal del cilente ferne a tecresa partes? ¿Existe interés personal al poseer acciones del cliente a vertificación validación del composito de consistente del cilente a vertificación/validación interediación (correta)e, gestroria o capacitación a la organización/ESK/explotador aéreo en temas de GEL, en los a últimos años, a la fecha de ingeno de sus solicitud? ¿Existe involucramiento del organismo/órgano de certificación o del personal del equipo de vertificación validación en el desarrollo del reporte de emisiones de GEL? ¿Este har brindado servicios anteriores al mismo cliente? ¿Ce emplea personal con parentesco, consanguimeidad o feadido personal con la organización/ESK/explotador.	No No No No No No No No	No No No No No No	No N	No N	No N	1		
NOTOR Riesgos de Riesg	iss de que el de d'organismo d'un de la Grandismo d'un de la sou no de los sos del requie por la decordana de la cordana de la compana d'un de cordana de cordana de cordana d'un d'un de cordana d'un d'un d'un d'un d'un d'un d'un d'un	g hadisis del riesgo i	¿El organismo/órgano o una persona del equipo de verificación/validación, actian en defensa legal del cliente frente a tercersa partes? ¿Existe interés personal al poseer acciones del cliente a verificar/validar? ¿ción moyor de ocuerdo o toblo ¿Se ha brindado asesoria, consultoria, auditoria, intermedación (corretaje), gestoria o capacitación a la organización/ESA/epoltadora éreo en temas de GE, en los a últimos años, a la fecha de ingreso de su solicitud? ¿Existe involucramiento del organización (SEA/epoltadora éreo en temas de GE, en clientificación o del personal del equipo de verificación del personal del equipo de se del personal del equipo de verificación del personal del equipo de se del personal del equipo de verificación del personal del personal del personal del personal del equipo de del personal	No No No No No No	No No I No No	No No 1 No No No	No No No No No No No No	No No No No	1	1	
NOTOR Riesgos de Riesg	as de que el formanismo de for	riesgo i	verificación/validación, actian en defensa legal del ciente frente a terceras partes? ¿Existe interés personal al poseer acciones del cliente a verificar/validar? ¿Colo moyor de ocuerdo o teolo? ¿Se ha brindado asesoría, consultoria, auditoria, intermedación (corretaje), gestoría o capacitación a la organización/SEA/epolatodor afero en temas de GE, en los a últimos años, a la fecha de ingreso de su solicitud? ¿Existe involucramiento del organizanó/órgano de certificación o del personal del equipo de verificación/validación en el desarrollo del reporte de emisiones de GE? ¿Se han brindado servicios anteriores al mismo cliente? ¿Votor moyor de ocuerdo a tabió ¿Se emplea personal con parentesco, consanguineidad o relación personal con la organización/SEA/explotador	No 1 No No No 1	No 1 No No	No 1 No No	No 1 No No	No 1 No No	1	1	c, d, e, h, j
Riesgos d	as de que el sos de las sos de la superioridado o haya alde confianza for configuration de	riesgo i	verticar/validar? Voir mayor de oceres a tabla ¿Se ha brindad o aseoris, consultoria, auditoria, intermediación (corretaje), gestoria o capacitación a la organización/ES/ep/oblador aéro en temas de GE, en los a últimos años, a la fecha de ingreso de su solicitud? ¿Existe involucramiento del organismo/órgano de certificación o del personal del equipo de verticación/validación en el desarrollo del reporte de emisiones de GE? ¿Se han brindado servicios anteriores al mismo cliente? Voir moyor de ocuerdo a tabla ¿Se emplea personal con parentesco, consanguineidad o relación personal con parentesco, consanguineidad o relación personal con la organización/ES/Replotador	No No No	No No	No No	No No	No No	1	1	c, d, e, h, j
Riesgos d	as de que el sos de las sos de la superioridado o haya alde confianza for configuration de	riesgo i	Volter moyer de aceredo a trabla ¿Se ha brindado asecoría, consultoría, auditoría, intermediación (corretale), gestoría o capacitación a la organización (£58/explotador aéreo en temas de GEL, en los a últimos años, a la fecha de ingene de su solicitud? ¿Existe involucramiento del organismo/órgano de certificación o del personal del equipo de verificación viduación en el desamollo de reporte de emisiones de GEL? ¿Es han brindado servicios anteriores al mismo cliente? ¿Ce emplea personal con parentesco, consanguineidad o relacido personal con la organización/£58/explotador	No No No	No No	No	No No	No	1	1	c, d, e, h, j
Riesgos d	as de que el sos de las sos de la superioridado o haya alde confianza for configuration de	riesgo i	¿Se ha brindado asesoria, consultoria, auditoria, intermediación (corretaje), gestoria o capacitación a la organización (ESA/epoltados aréa on entras de GEL, en los a) últimos años, a la fecha de ingreso de su solicitud? ¿Existe involucamiento del organismo/órgano de certificación o del personal del equipo de verificación/validación en el desarrollo del reporte de emisiones de GEL? ¿Se han brindado servicios anteriores al mismo cliente? ¿Se emplea personal con parentesco, consanguineidad o relación personal con parentesco, consanguineidad o relación personal con la organización/ESS/explotador	No No 1	No	No	No	No		1	c, d, e, h, j
Riesgos d	as de que el sos de las sos de la superioridado o haya alde confianza for configuration de	riesgo i	certificación o del personal del equipo de verificación/vilación en el desarrollo del reporte de emisiones de GEI? ¿Se han brindado servicios anteriores al mismo cliente? Volor moyor de oceación o toblo ¿Se emplea personal con parentesco, consanguineidad o relación personal con la organización/ESM/explotador	No 1					-	1	c, d, e, h, j
Riesgos d	os o uno de los os del equipo darizado o haya rollado una de confianza	k	Valor mayor de acuerdo a tabla ¿Se emplea personal con parentesco, consanguineidad o relación personal con la organización/ESR/explotador	1	No 1	No 1	No				
	os o uno de los os del equipo darizado o haya rollado una de confianza	k	¿Se emplea personal con parentesco, consanguineidad o relación personal con la organización/ESR/explotador	No	1	1		No			
	os o uno de los os del equipo darizado o haya rollado una de confianza	k	relación personal con la organización/ESR/explotador	No			1	1	1		
Miembros de esté familiaria desarrollo. PAUI IL PAUI PAUI PAUI PAUI PAUI PAUI PAUI PAUI	arizado o haya rollado una de confianza	álicic dal			No	No	No	No			
emplea representant	guno de los	riesgo	¿Alguna persona del equipo de verificación/validación tiene una relación cercana con una persona crítica en el desarrollo del inventario de emisiones de GEI?	No	No	No	No	No		1	c, d, e, h, j
	oleados o rantes del ESR.	m	El cliente y/o parte responsable tiene relación de algún tipo con otro cliente de alguna empresa del Grupo	No	No No No No	No					
			Valor mayor de acuerdo a tabla						1		
		n	¿Existe riesgo de coacción, sanción o despido para alguno de los miembros del equipo de verificación/validación?	No	No	No	No	No			
Organismo o	os de que el la o una de sus ros tenga la	ñ	¿Algún miembro del equipo de verificación/validación ha sido disuadido en actuar objetivamente por amenazas del director o empleados del cliente?	No	No	No	No	NA NA			
coaccionado abierta o sec un riesgo	secreta, como r esgo de ser	nálisis del riesgo	¿Existen amenaza de ser reemplazado o cancelar la acreditación, por desacuerdo en la aplicación de metodologías de cuantificación de emisiones de GEI?	No	No	No	No	No		1	c, d, e, h, j
reempla.	plazado o rtado a un pervisor.	Р	¿Los honorarios provenientes del cliente (organización/ESR/explotador aéreo) representan un gran porcentaje (más del 40%) de los ingresos totales del verificador?	No	No	No	No	No			
		q	¿Existe presión en reducir la extensión del trabajo con fin de reducir o limitar la tarifa?	No	No	No	No	No			
			Valor mayor de acuerdo a tabla	1	1	1	1	1	1		
Riesgo que s	ue se presenta		¿El organismo/órgano se rige a través de códigos/políticas que aseguren la ética del equipo validador/verificador designado?	Sí	Sí	Sí	SI	Sí			
ofrecimiento o en espec cliente para : resultad	pecie por ei ara negociar el tado de la	nálisis del riesgo	¿El personal involucrado con el servicio cuenta con capacitación/concientización en materia de soborno, antisoborno y temas relacionados?	ટા	Sí	Sí	Sí	Sí	Sí	1	c, d, e, h, j
S validación/v	naub de la ón/verificación	t	¿El organismo/órgano cuenta con politicas/criterios que prevengan la aceptación por parte del equipo validador/verificador designado?	Sí	Sí	Sí	Sí	Sí			
			Valor mayor de acuerdo a tabla	1	1	1	1	1	1		



			1		1	1				
		Desarrollo, diseño, implementación, mantenimiento de un inventario, gestión de datos o información vinculada con los datos de actividad de las emisiones de GEI del diente potencial.	No	No	No	No	No	1		
		Análisis de factores de emisión de gases de GEI, balances b de materia u otro análisis de ingeniería relacionado a emisiones de GEI para el diente potencial.	No	No	No No No 1					
	En los últimos 3 años, el organismo o miembros del equipo V/V designado ha desempeñado los siguientes servicios con el cliente potencial:	Diseño de proyectos de eficiencia energética, energía renovable y/u otros que identifiquen explicitamente el desempeño y/o reducción de GEI como un beneficio para el cliente potencial.	No	No	No	No	No	1		
		Diseño, desarrollo y/o implementación de una verificación/validación interna, consultoria, o d mantenimiento de un proyecto vinculado al desempeño y/o reducción de emisiones de GEI y/o esquemas de compensación y/o neutralidad.	No	No	No	No	No	1		
ELACIONADOS		Ser propietario, comprador, o vendedor, o participante en la comercialización o retiro de Certificados de Reducción de Emisiones o Unidades de Reducción de Emisiones, o realice o haya realizado servicios de intermediación para un proyecto, que de desarrollado por o para el cliente potencial, o cuyos Certificados de Reducción de Emisiones o Unidade de Reducción de Emisiones pertenecen al cliente potencial.	No	No	No	No	No	1		
RVICIOS R		Desarrollo de manuales en temas de elaboración, control de calidad y cualquier tema relacionado a emisiones y compuestos de GEI para el cliente potencial.	No	No	No	No	No	1		
DESARROLLO E IMPLEMENTACIÓN DE SERVICIOS RELACIONADOS		Implementación de cursos especializados, y/o de capacitación en los que se incluyan temas relacionados a la realización y/o al uso de metodologías sobre inventarios o de estimación de emisiones o de cualquier 9 tópico relacionado a la elaboración de inventarios de emisiones de GEI, y ase para nu Establecimiento Sujeto a Reporte de manera particular o en eventos con menos de tres ESR como asistentes.	No	No	No	No	No	1	1	c, d, e, h, j
IMPLEME		Servicios de consultoría y/o de intermediación sobre mercados de carbono y sistemas de comercio de derechos de emisión.	No	No	No	No	No	1		
DESARROLLO E		Servicios referentes a sistemas de gestión ambiental tales como 150 14001 (cuando se integre como aspecto ambiental significativo, indicador o programa de actividades, acciones sobre desempeño y/o reducción de emisiones de GEJI o sistemas de gestión de energía, ISO 50001 (que integren indicadores de desempeño o proyectos de GEJI).	No	No	No	No	No	1		
		j Cualquier servicio legal vinculado a energía, medio ambiente y/o emisiones de GEI.	No	No	No	No	No	1		
		k Gestión de cualquier servicio de consultoría sobre seguridad, salud y ambiente en el cliente potencial.	No	No	No	No	No	1		
		Preparación y/o desarrollo de contratos sobre la tenencia, compra-venta o intercambio de Certificados de Reducción de Émisiones o Unidades de Reducción de m Emisiones en nombre del operador, o desarrollador de un proyecto de reducción de emisiones donde el proyecto o las reducciones de emisiones provenientes de dicho proyecto pertencera la cliente potencial.	No	No	No	No	No	1		
		Implementación de servicios de asesoramiento, consultoria o verificación/validación interna o externa al n diente potencial y que incluyan controles contables internos, sistemas financieros o estados financieros y cuentas relacionadas.	No	No	No	No	No	1		
		a PROHIBICIONES b RESTRICCIONES	1, 2, 4, 5, 6 3, 7	2, 4, 5, 6 3, 7	2, 4, 5, 6 3, 7	2, 4, 5, 6 3, 7	2, 4, 5, 6 3, 7	1 FOROVV-P04.01.15		
		DIVULGACIÓN No utilizará personal con un conflicto de intereses real (v No verificará/validará una declaración sobre los GEI si se	erificadores líderes) o potencial (verifi	cadores, verificadores en el	ntrenamiento, expertos técr	8 nicos, revisores independien	ntes).			
LES	SALVAGUARDAS	No verificará/validará una declaración sobre los GEI si la No verificará/validará una declaración sobre GEI utilizano	existencia de una relación con quienes lo personal comprometido con quiene	proporcionaran los servicios es proporcionaron los servici	os de consultoría de GEI sup	one un riesgo inaceptable pa				
ACCION		No transferirá/validará la responsabilidad de revisión y er No ofrecerá productos o servicios que representen un rio No declarará que la verificación de una declaración GEI su	esgo para la imparcialidad. ería más fácil, más rápida o menos car	a si se usa un servicio de cor	nsultoría.					
AC		Firma de Código de Ética y Conducta así como el Reglam No se realizará una verificación de declaración de GEI si s No verificará/validará las declaraciones sobre GEI del mis	e ha realizado el servicio de validación mo proyecto, a menos, que este pern	i de proyectos de GEI). nitido por el Programa de G	El aplicable.					
		11 No se debe declarar que la verificación/validación de una	declaración GEI sería más fácil, más r a, b, c, d, e, etc	ápida o menos cara si se usa c, d, e, h, j	c, d, e, h, j	c, e, h, j	c, e, h, j			
			a) El Organismo no realizará la elabo b) El Organismo solicita información c) El Organismo confirma con cada n	al cliente potencial sobre to	odos los servicios recibidos p					
	AC	CIONES DE MITIGACIÓN	d) El Organismo notifica al cliente po e) El Organismo designará un equipo	tencial los datos de los mie de verificación que no teng	mbros del equipo verificado 3a ninguna relación/familia c	r designado y solicita la recu on el cliente potencial.	usación de algún miembro			
			f) El Organismo designará un verifica h) El equipo verificador designado se i) El Organismo designará personal q	apegará a las políticas de A	NCE y no aceptará beneficio	s personales durante la ejec	cución de servicios de verif			
			j) El Organismo designará un equipo k) El Organismo proporcionará al equ l) El Organismo proporcionará al equ	variador que no cuente con uipo verificador designado p	parentesco, consanguineid platicas y cursos de concient	ad o relación extralaboral co zación en materia de sobon	on el cliente potencial. no para evitar dicho riesgo			
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Annex 6. Abbreviations

ANCE Asociación de Normalización y Certificación, S.A. DE C.V.

BCR BioCarbon

CAB Conformity Assessment Body
CAR Corrective action requirement

CH₄ Metanhe

CO₂ Carbon dioxide

CO₂e Carbon dioxide equivalent

CL Clarification request

GHG Green House Gases

IPCC The Intergovernmental Panel on Climate Change

ISO International Organization for Standardization

VCC Verified Carbon Credits

PDD Proyect Descrition Document

FAR Forward action request

CDM Clean Development Mechanism

N.A. Not applicable

N₂O Nitrous oxide

SDG Sustainable Development Goals

VVB Validation and Verification Body

T Tons