By-Product assessment report

BP117

Pacifico Industrial SA de CV

Document TEM-003 (prev. FISH-1) - Version 3.1

Issued April 2025 – Effective April 2025

Report code	BP117	Date of issue	May 2026

1. Application details	
Applicant	Pacifico Industrial SA de CV
Applicant country	Mexico
2. Certification Body details	
Name of Certification Body (CB)	LRQA
Contact information for CB	fisheries-ca@lrqa.com
Assessor name	Blanca Gonzalez
CB internal peer reviewer name	Phoebe Schouten
Internal peer review evaluation	Agree with evaluation
Number of Assessment days	.2

Comments on the assessment	All the byproduct species listed in this report are not considered and ETP species according to Marin Trust definition fulfilling this requirement for the assessment. The five species require a step 3 assessment evaluation due to Mexico´s high-risk flag state. However, three of these byproducts are derived from a whole fish fishery that is already Marin Trust approved up to August 2026, thus step 3 was not required for these species according to Marin Trust By-product assessment criteria and risk was downgraded to medium risk. The species that were not included in the certification was the Japanese sardine (*Etrumeus teres*) and the Pacific jack mackerel (*Trachurus symmetricus*). Additional information was requested from the applicant, including data on fishing areas and traceability to complete step 3. The information provided allowed this species to be downgraded to medium risk. Since risk was downgraded for the five species to medium risk, all byproducts were approved but they should be source with caution.	
3. Approval validity	Valid from 06/2026	Valid until 06/2027
4. Assessment cycle	Re-Approval	

5. By-product assessment outcomes			
By-product species name *Common and Latin names*	**Flag country(ies)**	**Fishing Areas** *Only applicable to Step 3 assessed species*	**MarinTrust approval status**
Pilchard/Sardine - *Sardinops sagax*	Mexico	FAO 77 – Pacific, Eastern Central	Approved source with caution
Pacific thread herring - *Opisthonema liberate*	Mexico	FAO 77 – Pacific, Eastern Central	Approved source with caution

Pacific chub mackerel/macarela - *Scomber japonicus*	Mexico	FAO 77 – Pacific, Eastern Central	Approved source with caution
Japanese sardine - *Etrumeus teres / Etrumeus acuminatus*	Mexico	FAO 77 – Pacific, Eastern Central	Approved source with caution
Pacific jack mackerel - *Trachurus symmetricus*	Mexico	FAO 77 – Pacific, Eastern Central	Approved source with caution

Guidance for on-site auditor

For the audit, the auditor will check how the facility manages by-products deemed medium risk. Any by-products downrated from high to medium risk will require additional due diligence checks.

It is important that facilities check all raw materials from and verify their suppliers especially if there is a perceived risk of sourcing from known or suspected IUU fishing activity. This requires checking supplier records or procedures in place to understand how the supplier can ensure there is no IUU in the raw material they provide. For raw materials risk rated medium, additional or more frequent checks may be required until the facility is certain that the raw materials are not from IUU fishing activity.

The audit requirements are covered in clause 2.11.3 of the MarinTrust Global Standard for Responsible Supply of Marine Ingredients (the MarinTrust Standard) and associated interpretation guidance.

Approved by-products

- No further checks are required beyond those included in the MarinTrust Standard.

Additional checks of Approved Source with Caution by-products

- Review supplier records or procedures in place.

Additional checks of by-products Approved Source with Caution via Step 3 assessment

- In addition to checks for medium risk Approved Source with Caution by-products, by-products that have had risk downgraded from high to medium at Step 3 (use **Appendix 1** to identify these by-product species), confirm that the relevant traceability information continues to be collected for this by-product. During the audit, a traceability check on any by-products downgraded from high to medium risk shall be included as part of the required traceability checks (Section 4).

Guidance for the applicant/certificate holder

The applicant/certificate holder is responsible for ensuring the relevant actions are taken to comply with the MarinTrust Standard.

The certificate holder is responsible for communicating any changes to the by-products sourced by submitting a scope extension request through the MarinTrust online Application Portal.

Appendix 1 – assessment outcomes

Step 2 Assessment Outcomes

By-product species name *Common and Latin names*	**Flag country(ies)**	**IUCN Red List** *Select IUCN red list category from dropdown*	**CITES Appendices** *Select CITES appendix status from dropdown*	**Step 2 risk status** *Low risk/ Medium risk/ High risk*	**Step 3 required** *Yes / No*
Pilchard/Sardine - *Sardinops sagax*	Mexico	Least concern	Not listed	High risk	Yes
Pacific thread herring - *Opisthonema liberate*	Mexico	Least concern	Not listed	High risk	Yes
Pacific chub mackerel/macarela - *Scomber japonicus*	Mexico	Least concern	Not listed	High risk	Yes
Japanese sardine - *Etrumeus teres / Etrumeus acuminatus*	Mexico	Least concern	Not listed	High risk	Yes
Pacific jack mackerel - *Trachurus symmetricus*	Mexico	Least concern	Not listed	High risk	Yes

Step 3 Assessment Outcomes

By-product species name *Common and Latin names*	Flag country(ies)	Fishing Area	Stock name *(If applicable e.g. Eastern Pacific stock)*	Category C Assessment Outcome *Pass/Fail*	Traceability information *Path 1 – Yes OR* *Path 2 – Yes/No OR* *MT Approved Whole Fish*	Step 3 Risk Outcome *Risk downgraded to Medium Risk/ Remains High Risk*
Pilchard/Sardine - *Sardinops sagax*	Mexico	FAO 77 – Pacific, Eastern Central	NA	NA	MT Approved Whole Fish	Risk downgraded to Medium Risk
Pacific thread herring - *Opisthonema liberate*	Mexico	FAO 77 – Pacific, Eastern Central	NA	NA	MT Approved Whole Fish	Risk downgraded to Medium Risk
Pacific chub mackerel/macarela - *Scomber japonicus*	Mexico	FAO 77 – Pacific, Eastern Central	NA	NA	MT Approved Whole Fish	Risk downgraded to Medium Risk

Japanese sardine - *Etrumeus tere / Etrumeus acuminatus*	Mexico	FAO 77 – Pacific, Eastern Central	Northwest Mexico	Pass	Path 2 - Yes	Risk downgraded to Medium Risk
Pacific jack mackerel - *Trachurus symmetricus*	Mexico	FAO 77 – Pacific, Eastern Central	Northwest Mexico	Pass	Path 2 - Yes	Risk downgraded to Medium Risk
Comments on Step 3 Assessment:						

Appendix 2 – detailed assessment outcomes

(step 2 and step 3 if applicable)

Step 2 outcomes

Flag state	Risk rating	Flag score	Port score	General score	Flag State is contracting party or cooperating non-contracting party to all relevant RFMOs	'Carded' under EU Carding system	Flag state party to PSMA	Flag state mandatory vessel tracking for commercial seagoing fleet	WGI Governance rank
Mexico	High	2.25	3.06	2.78	2	1	5	1	46.70%

Step 3 outcomes

Category C assessment

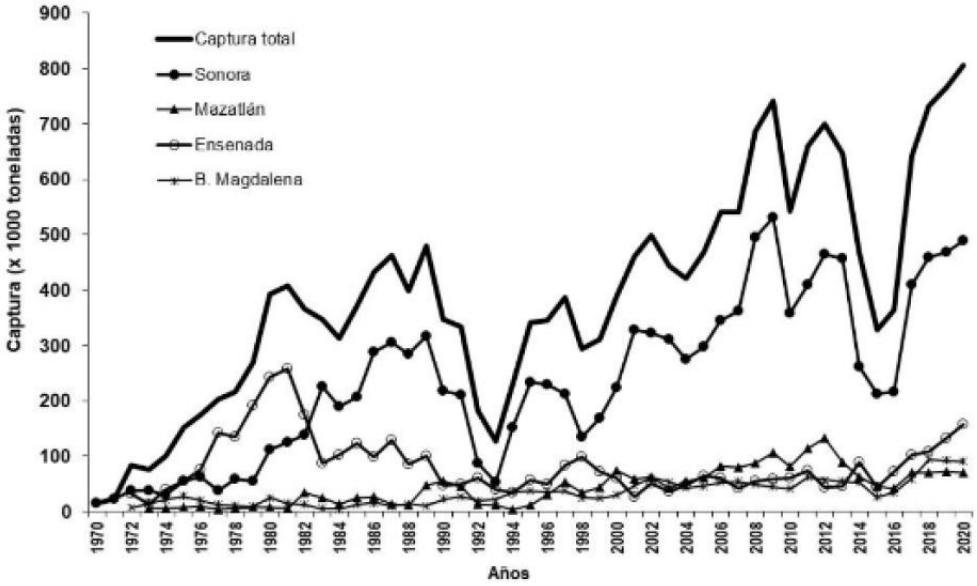
Species name		Japanese sardine - *Etrumeus tere / Etrumeus acuminatus*	
Fishing area and stock		FAO 77 – Pacific, Eastern Central Northwest Mexico	
C1	**Category C Stock Status - Minimum Requirements**		
	C1.1	Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.	
	C1.2	The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.	
		Clause outcome:	

C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

The clause is met considering that:

Fisheries of small pelagics in Northwest Mexico, including the Gulf of California, have been regulated since 1993. The management plan was updated in 2023, and landings of all small pelagic species are recorded; thus, removals are monitored. For management purposes, species are categorized in active or passive management. Passive management is for stocks that do not require intensive management since monitoring of landings and abundance indices are considered sufficient for their management. (DOF 2023).

Japanese sardine is under passive management because removals of the species are considered negligible (less than 0.1%) by scientific authorities (DOF 2023, Vallarta-Zárate 2023).



Total annual catch of small pelagic fish from 1970 to 2020, as well as the breakdown for the states of Baja California (Ensenada), Baja California Sur (Magdalena Bay), Sonora (Guaymas and Yavaros), and Sinaloa (Mazatlán) (DOF 2023).

Manejo activo	Manejo pasivo
Sardina monterrey	Sardina japonesa
Sardina crinuda	Sardina bocona
Sardina crinuda azul	Anchoveta
Sardina crinuda machete	Charrito
Macarela	Sardina piña

List of small pelagics by management category. Sardina japonesa is the common name for *Etrumeus acuminatus* in Mexico (DOF 2023).

C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

The clause is met considering that:

In 2022, the biomass of *Etrumeus acuminatus* along the west coast of the Baja California Peninsula was estimated at 4,648 t. Although the species exhibited low catch volumes during the research cruise, it showed a wide distribution across the oceanic region of Baja California and northern Baja California Sur. Therefore, removals of this species are considered negligible by scientific authorities (DOF 2023; Vallarta-Zárate 2023).

In 2024, research surveys were conducted to estimate the abundance of commercially important species, resulting in an estimated biomass of 22,787 t for *E. acuminatus*.

Species classified as passively managed may transition toward active management if biomass and landing trends indicate that more intensive management measures are required to ensure sustainable exploitation (DOF 2023). Given the observed increase in biomass, no evidence or management advice indicating the need for species-specific measures was identified. Therefore, removals are considered to remain negligible (Martínez-Magaña et al. 2024).

Etrumeus acuminatus					
Región	Buque	Área (mn^2)	Fuerza de blanco	Densidad (individuos/mn^2)	Biomasa total (t)
Costera	INAPESCA I	6,778	-41.2	868,808,711	8,688
Oceánica	Dr. Jorge Carranza Fraser	1,312.90	-39.9	210,436,613	14,099
				Total	22,787

Biomass estimation of *Etrumeus acuminatus* on the western coast of Baja California (Martinez-Magaña et al. 2024).

References

DOF. 2023. Acuerdo por el que se da a conocer la actualización del Plan de Manejo Pesquero para la pesquería de pelágicos menores (sardinas,anchovetas, macarela y afines) del noroeste de México. https://www.dof.gob.mx/nota_detalle_popup.php?codigo=5697452#:~:text=SEGUNDO.,19%20de%20julio%20de%202023.

Vallarta-Zárate J.R.F., L. Huidobro-Campos, M. Vásquez-Ortiz, V.H. Martínez-Magaña, E.V. Pérez-Flores, M.L. Jacob-Cervantes, L. Altamirano-López, D. Hernández-Cruz y R.I. Rojas-González. 2023. Investigaciones en la Corriente de California 2022. Evaluación de recursos pesqueros en el Noroeste Mexicano: Golfo de California y Costa Occidental de la Península de Baja California durante la primavera y verano del 2022. Campaña Océano Pacífico 2022, B/I Dr. Jorge Carranza Fraser. Instituto Nacional de Pesca y Acuacultura, Dirección de Investigación Pesquera en el Atlántico. Mayo, 2023. Informe Técnico Núm. 21. 171 p. https://www.researchgate.net/publication/371303923_Evaluacion_de_recursos_pesqueros_en_el_Noroeste_Mexicano_Golfo_de_California_y_Costa_Occidental_de_la_Peninsula_de_Baja_California_durante_la_primavera_y_verano_del_2022_Campana_Oceano_Pacifico_2022_B

Martínez-Magaña, V.H., J.R.F. Vallarta-Zárate, J.E. Osuna-Soto, M. Vásquez-Ortiz, L. Altamirano-López, E.V. Pérez-Flores, S.C. Morales-Gutiérrez, Y.I. La Rosa-Izquierdo, D. Hernández-Cruz, M.L. Jacob-Cervantes y R.I. Rojas-González. 2025. Investigaciones en la Corriente de California 2024. Evaluación de recursos pesqueros en el Noroeste Mexicano: Golfo de California y Costa Occidental de la Península de Baja California durante la primavera y verano del 2024. Campaña Océano Pacífico 2024, B/I Dr. Jorge Carranza Fraser. Instituto Mexicano de Investigación en Pesca y Acuacultura

Sustentables, Dirección de Investigación Pesquera en el Atlántico. Marzo, 2025. Informe Técnico Núm. 27. 156 p.

https://www.gob.mx/cms/uploads/attachment/file/989633/InfTec27_JCFIMIPASweb.pdf

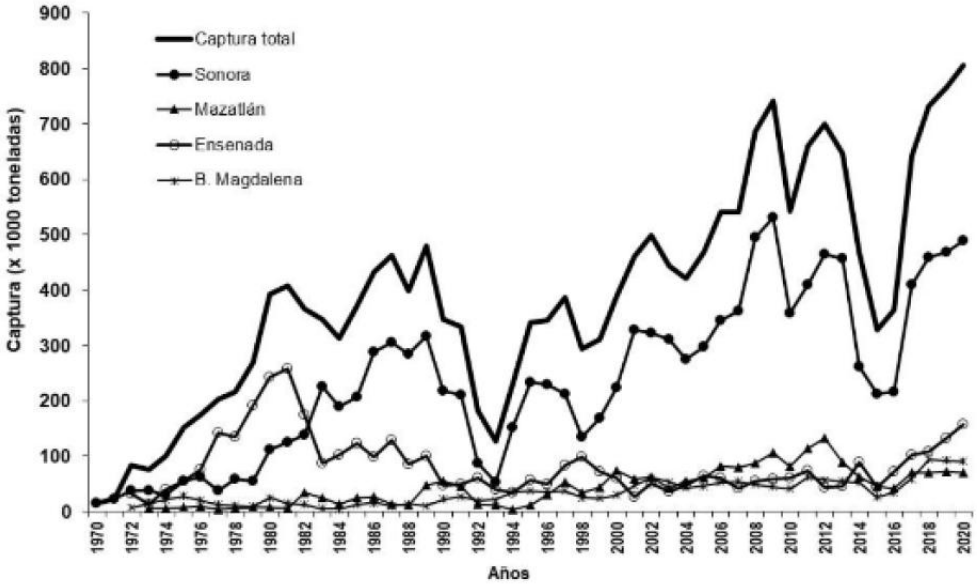
Species name		Pacific jack mackerel - *Trachurus symmetricus*	
Fishing area and stock		FAO 77 – Pacific, Eastern Central Northwest Mexico	
C1	**Category C Stock Status - Minimum Requirements**		
	C1.1	Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.	Pass
	C1.2	The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.	Pass
		Clause outcome:	Pass

C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process OR are considered by scientific authorities to be negligible.

Clause is met considering that:

Fisheries of small pelagics in Northwest Mexico, including the Gulf of California, have been regulated since 1993. The management plan was updated in 2023, and landings of all small pelagic species are recorded; thus, removals are monitored. For management purposes, species are categorized in active or passive management. Passive management is for stocks that do not require intensive management since monitoring of landings and abundance indices are considered sufficient for their management. (DOF 2023).

Pacific jack mackerel is under passive management because removals of the species are considered negligible (less than 0.1%) by scientific authorities (DOF 2023, Vallarta-Zárate 2023).



Total annual catch of small pelagic fish from 1970 to 2020, as well as the breakdown for the states of Baja California (Ensenada), Baja California Sur (Magdalena Bay), Sonora (Guaymas and Yavaros), and Sinaloa (Mazatlán) (DOF 2023).

Manejo activo	Manejo pasivo
Sardina monterrey	Sardina japonesa
Sardina crinuda	Sardina bocona
Sardina crinuda azul	Anchoveta
Sardina crinuda machete	Charrito
Macarela	Sardina piña

List of small pelagics by management category. Charrito is the common name for *Trachurus symmetricus* in Mexico (DOF 2023).

C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

Clause is met considering that:

In 2022, the biomass of *Trachurus symmetricus* was estimated at 16,481.28 t. Although the species exhibited low catch volumes during the research cruise, it showed a wide distribution across the oceanic region of Baja California and northern Baja California Sur. Therefore, removals of this species are considered negligible by scientific authorities (DOF 2023; Vallarta-Zárate 2023).

In 2024, research surveys were conducted to estimate the abundance of commercially important species, resulting in an estimated biomass of 13,937 t for Pacific jack mackerel.

Species classified as passively managed may transition toward active management if biomass and landing trends indicate that more intensive management measures are required to ensure

sustainable exploitation (DOF 2023). However, despite the observed biomass decline compared to 2023, no evidence or management advice indicating the need for species-specific measures was identified. Therefore, removals are considered to remain negligible (Martínez-Magaña et al. 2024).

Trachurus symmetricus					
Región	Buque	Área (mn^2)	Fuerza de blanco	Densidad (individuos/mn^2)	Biomasa total (t)
Costera	INAPESCA I	1,512	-43.8	308,171,552	10,398
Oceánica	Dr. Jorge Carranza Fraser	1,027.00	-43.1	82,302,259	3,539
				Total	13,937

Biomass estimation of *Trachurus symmetricus* on the western coast of Baja California (Martinez-Magaña et al. 2024).

References

DOF. 2023. Acuerdo por el que se da a conocer la actualización del Plan de Manejo Pesquero para la pesquería de pelágicos menores (sardinas,anchovetas, macarela y afines) del noroeste de México. https://www.dof.gob.mx/nota_detalle_popup.php?codigo=5697452#:~:text=SEGUNDO.,19%20de%20julio%20de%202023.

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https://www.gob.mx/cms/uploads/attachment/file/989633/InfTec27_JCFIMIPASweb.pdf

Traceability information

Information provided for Step 3 Path 1 or Path 2

Species name		Pacific jack mackerel - *Trachurus symmetricus*		
Path 1		Yes ☐ No ☒		
Confirm all KDEs are provided		Yes ☐ No ☐		
Path 2	Yes ☒ No ☐ *If yes for Path 2, complete the next section*			
Path 2 outcome *Countries may be different for Coastal State and Port State.*	**Flag country**	**Coastal score**	**Port score**	**Risk outcome**
	Mexico	Medium risk 2.86	Medium risk 3.06	Downgraded to medium risk

Species name		Japanese sardine - *Etrumeus tere / Etrumeus acuminatus*		
Path 1		Yes ☐ No ☒		
Confirm all KDEs are provided		Yes ☐ No ☐		
Path 2	Yes ☒ No ☐ *If yes for Path 2, complete the next section*			
Path 2 outcome *Countries may be different for Coastal State and Port State.*	**Flag country**	**Coastal score**	**Port score**	**Risk outcome**
	Mexico	Medium risk 2.86	Medium risk 3.06	Downgraded to medium risk