

By-Product assessment report

BP070

Lucky Star St Helena Bay (Lucky Star Operations)

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

Issued April 2025 – Effective April 2025



Report code	BP070	Date of issue	April 2025

1. Application details					
Applicant	Lucky Star St Helena Bay Ltd (Lucky Star Operations)				
Applicant country	South Africa				
2. Certification Body details					
Name of Certification Body (CB)	LRQA				
Contact information for CB	mt-ca@lrqa.com				
Assessor name	Blanca Gonzalez				
CB internal peer reviewer name	José Peiró Crespo				
Internal peer review evaluation	Agree with evaluation				
Number of Assessment days	2				
Comments on the assessment	The three byproduct species listed in this report are not considered and ETP species according to Marin Trust definition fulfilling this requirement for the assessment. Two of them, European pilchard and Japanese pilchard, have a medium risk flag states approving the assessment, but should be source with caution, and do not require a step 3 assessment. California pilchard did require a step 3 assessment evaluation due to a high-risk flag state. Additional information was requested to the applicant and provided data included the fishing areas which was necessary for the Category C assessment. This allowed this species to be downgraded to medium risk approving this byproduct, but should be source with caution				
3. Approval validity	Valid from 04/2025 Valid until 04/2026				
4. Assessment cycle	Re-Approval				



1. Scope Extension Assessment	
Extension of the Scope	 For the scope extension, the following countries were added: For European pilchard: Russia, the Netherlands, Spain, Germany, Portugal, and Mauritania. For Japanese sardine: Russia And a sardine fishery from Namibia. Mauritania and Russia are high-risk countries; thus, Category C assessments were required.
Name of Certification Body (CB)	LRQA
Contact information for CB	mt-ca@lrqa.com
Assessor name	Blanca Gonzalez
CB internal peer reviewer name	Jose Peiro Crespo
Internal peer review evaluation	Agree with evaluation



The byproduct species listed in this report are not considered ETP species according to the Marin Trust definition, fulfilling this requirement for the assessment.

European pilchard with flag countries from Morocco, Spain, Portugal, the Netherlands, and Germany, as well as the Japanese pilchard with flag countries from Thailand and Japan, have a medium risk flag states approving the assessment, but should be sourced with caution, and do not require a step 3 assessment.

California pilchard, European pilchard with flag countries from Russia and Mauritania, as well as the Japanese pilchard with flag country from Russia, required a step 3 assessment evaluation due to a high-risk flag state. Additional information was requested from the applicant, and the provided data included the fishing areas, which were necessary for the Category C assessment.

European pilchard fishery with flag countries from Russia and Mauritania in the Eastern Central Atlantic stocks (Central Zone A and B, and South zone C) fails the Category C assessment since both stocks are considered to be overexploited with biomass levels below the stablish reference points, maintaining a high-risk status; therefore, these stocks caught by vessels with the flag countries mentioned above, remains high risk and are not approved to be used as byproduct.

Japanese pilchard with flag country from Russia passed the Category C assessment; however, traceability information indicates that one of the offloading countries is China, which has a highrisk port score. This fishery, caught by vessels with the flag country mentioned above, remains high risk and is not approved for use as a byproduct.

The California pilchard passed the Category C assessment, and traceability information allowed

Comments on the assessment



	this fishery to be downgraded to medium risk, approving this byproduct, but it should be sourced with caution.
Approval validity	December 2025 - April 2026

2. By-product asse	2. 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					
European pilchard - Sardina pilchardus	Morocco, Spain, Portugal	NA	Approved source with caution					
Californian pilchard - Sardinops sagax caeruleus	Mexico	FAO 77 – Eastern Central Pacific	Approved source with caution					
Japanese pilchard - Sardinops sagax melanostictus	Thailand, Japan	NA	Approved source with caution					
Japanese pilchard - Sardinops sagax melanostictus	Russia	FAO 61 – Northwest Pacific						
Pilchard / Sardine - Sardinops sagax	Namibia	NA	Approved source with caution					
European pilchard - Sardina pilchardus	Russia	FAO 34 - Eastern Central Atlantic	Not approved					
European pilchard - Sardina pilchardus	Netherlands, Spain, Germany, Portugal	NA	Approved source with caution					
European pilchard - Sardina pilchardus	Mauritania	FAO 34 - Eastern Central Atlantic, Central Zone (Zones A and B)	Not approved					
European pilchard - Sardina pilchardus	Mauritania	FAO 34- Eastern Central Atlantic, South Zone (Zone C)	Not approved					



European pilchard -	Netherlands, Germany	NA	Approved source with
Sardina pilchardus			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 checks 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)	Select IUCN red list category from dropdown	Select CITES appendix status from dropdown	Step 2 risk status Low risk/ Medium risk/ High risk	Step 3 required Yes / No
European pilchard - Sardina pilchardus	Morocco, Spain, Portugal	Least concern	Not listed	Medium risk	No
Californian pilchard - Sardinops sagax caeruleus	Mexico	Least concern	Not listed	High risk	Yes
Japanese pilchard - Sardinops sagax melanostictus	Thailand, Japan	Least concern	Not listed	Medium risk	No
Japanese pilchard - Sardinops sagax melanostictus	Russia	Least concern	Not listed	High risk	Yes
Pilchard / Sardine - Sardinops sagax	Namibia	Least concern	Not listed	Medium risk	No

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European pilchard - Sardina pilchardus	Russia	Least concern	Not listed	High risk	Yes
European pilchard - Sardina pilchardus	Netherlands, Spain, Germany, Portugal	Least concern	Not listed	Medium risk	No
European pilchard - Sardina pilchardus	Mauritania	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
Californian pilchard - Sardinops sagax caeruleus	Mexico	FAO 77 – Eastern Central Pacific	Western coast of the Baja California Peninsula	Pass	Path 2 – Yes	Risk downgraded to Medium Risk
Japanese pilchard - Sardinops sagax melanostictus	Russia	FAO 61 – Northwest Pacific	Pacific	Pass	Path 2 – Yes	Remains High Risk
European pilchard - Sardina pilchardus	Russia	FAO 34 - Eastern Central Atlantic	Central Zone (Zones A and B)	Fail	N/A	Remains High Risk
European pilchard - Sardina pilchardus	Russia	FAO 34 - Eastern Central Atlantic	South Zone (Zone C)	Fail	N/A	Remains High Risk



European pilchard - Sardina pilchardus	Mauritania	IFAO 34 - Fastern	Central Zone (Zones A and B)	Fail	N/A	Remains High Risk	
European pilchard - Sardina pilchardus	Mauritania	FAO 34- Eastern Central Atlantic	South Zone (Zone C)	Fail	N/A	Remains High Risk	
Comments on Step 3 Assessment: N/A							



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
Morocco	Medium	2.29	1.78	2.17	1	1	1	1	49.06%
Spain	Medium	3.21	3.39	2.03	1	1	1	1	75.94%
Portugal	Medium	3	2.44	1.53	1	1	1	1	75.00%
Mexico	High	2.25	3.06	2.78	2	1	5	1	46.70%
Thailand	Medium	1.96	2.22	2.23	1	1	1	1	58.49%
Japan	Medium	2.92	2.06	1.93	1	1	1	1	91.51%
Russia	High	4.33	2.78	2.81	1	1	1	1	13.21%

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Namibia	Medium	1.96	2.33	2	1	1	1	1	52.36%
Netherlands	Medium	2.21	2.44	1.87	1	1	1	1	96.70%
Germany	Medium	2.17	2.22	1.83	1	1	1	1	92.45%
Mauritania	High	1.75	3	2.43	1	1	1	1	14.62%



Step 3 outcomes

Category C assessment

Species name			Californian pilchard - Sardinops sagax caeruleus				
Fishing area and stock			FAO 77 – Eastern Central Pacific Western coast of the Baja California Peninsula				
C1	Category C Stock Status - Minimum Requirements						
CI	C1.1	Fishery re	emovals of the species in the fishery under assessment are included	Pass			
		in the sto	ck assessment process, OR				
		are consi	dered by scientific authorities to be negligible.				
	C1.2	The spec	ies is considered, in its most recent stock assessment, to have a	Pass			
	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:	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

The Clause is met considering that:

The last official stock assessment was published in 2023 as part of the update of the fisheries management plan for the small pelagic fishery of northwest Mexico. This assessment includes catch data from 1989- 2020 from the landing ports in Ensenada and Bahía Magdalena, where this stock is fished (DOF 2023).

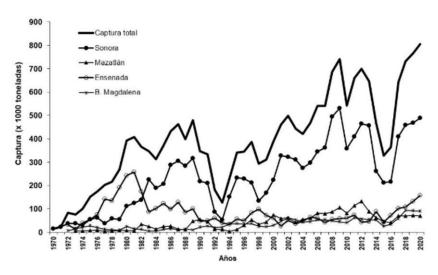


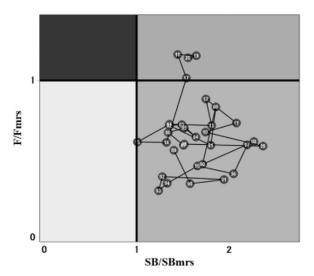
Figure 1. Total annual catch of small pelagic fish from 1970 to 2020 (Captura total), as well as the breakdown for the Western coast of the Baja California Peninsula stock which includes Ensenada and Bahía Magdalena (stock assessed in this report); and the Gulf of California stock (not part of this assessment), Sonora and Mazatlán (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:

The total biomass has ranged between 673,143 and 1,527,488 t, with an average of 957,875 t; all exploitable biomass values have been above the maximum sustainable yield biomass, which was estimated at 385,000 t. The Kobe plot shows that the stock biomass level has been maintained at sustainable exploitation levels throughout the entire period evaluated (DOF 2023).



Kobe plot showing the evolution and current status of the west coast of the Baja California Peninsula Californian pilchard stock (DOF 2023).

References

DOF. 2023. Diario Oficial de la Federación. Agreement announcing the update of the Fisheries Management Plan for the small pelagic fishery (sardines, anchovies, mackerel and related species) in northwestern Mexico. https://www.gob.mx/imipas/documentos/plan-de-manejo-pesquero-para-la-pesqueria-de-pelagicos-menores-del-noroeste-de-mexico

Species name			Japanese pilchard - Sardinops sagax melanostictus				
Fishing area and stock			FAO 61 – Northwest Pacific, Pacific stock				
Category C Stock Status - Minimum Requirements			k Status - Minimum Requirements				
CI	C1.1	Fishery removals of the species in the fishery under assessment are included					
		in the stock assessment process, OR					
		are consi	lered by scientific authorities to be negligible.				

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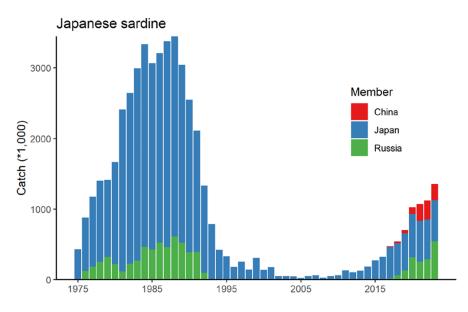


C1.2	The species is considered, in its most recent stock assessment, to have a	Passs
	biomass above the limit reference point (or proxy), OR	
	removals by the fishery under assessment are considered by scientific	
	authorities to be negligible.	
	Clause outcome:	Pass

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

The Clause is met considering that:

The North Pacific Fisheries Commission (NPFC) is responsible for managing fisheries for fish and invertebrate species (not including tuna, tuna-like species and Pacific salmon) in international waters of the North Pacific, however, there is currently no stock assessment for Japanese Sardine conducted by NPFC for the Convention Area. Since the Japanese sardine primary stock distribution is inside Japan's domestic waters, Japan conducts a domestic stock assessment annually using a virtual population analysis, which includes annual catch amount from the Commission Area components of the fishery (NPFC 2025).



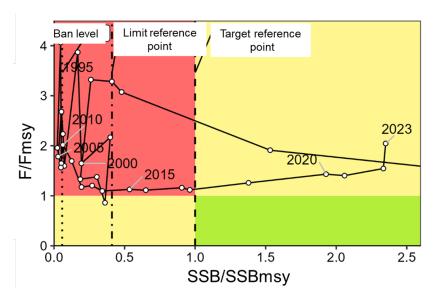
Historical catch of Japanese Sardine Pacific stock by Members from 1975 to 2023 by country (NPFC 2025).

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 the last Japan's stock assessment of the Japanese Sardine it is stated that the estimated catch and biomass have both been increasing since 2010, and that the spawning stock biomass is currently estimated to be higher than SSBmsy.



Kobe plot indicating historical and current status of Japanese sardine in relation to MSY-based reference points (NPFC 2024).

References

NPFC. 2024. Scientific Committee. 2024. 9th Meeting Report. NPFC-2024-SC09-Final Report. 405 pp. https://www.npfc.int/sites/default/files/2025-01/SC09%20Report.pdf

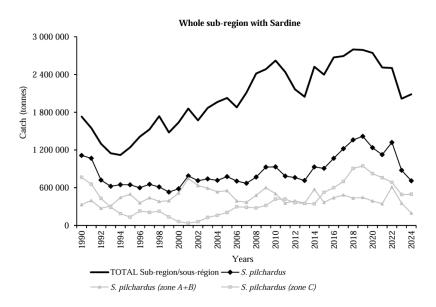
Species name			European pilchard - Sardina pilchardus			
Fishing area and stock			FAO 34 - Eastern Central Atlantic, Central Zone (Zones A and B)			
C1	Categ	ory C Stoc	k Status - Minimum Requirements			
CI	C1.1	Fishery re	emovals of the species in the fishery under assessment are included	Pass		
		in the sto	ock assessment process, OR			
		are consi	dered by scientific authorities to be negligible.			
	C1.2	The spec	ies is considered, in its most recent stock assessment, to have a	Fail		
		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:	Fail		

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:



The preliminary results from the FAO working group on the assessment of small pelagic fish off northwest Africa in 2025 were obtained using the dynamic version of the Schaefer (1954) model as in previous years, which uses historical fishing mortality and/or catch data for simple medium-term projections of future yields and stock development (FAO 2025).



Total catch of small pelagic species and sardine catch in the whole subregion from 1990 to 2024 (FAO 2025).

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 NOT met considering that:

The stock is considered to be overexploited, which means that the fishery is in an undesired state in terms of biomass or/and fishing mortality, and fishing pressure should be reduced to allow the stock to grow. Results indicate that the current biomass was 71% of the target reference point (Bcur/B0.1 = 71%) for zones A and B stock; therefore, the stock is below its target level. Target reference point used for this fishery (B0.1) is more conservative than MSY, and it is used due to inconsistencies of some data since environmental factors strongly influence this stock and show fluctuations in biomass that are independent of fishing, because abundance indices in this area are not regularly assessed, and to be in line with the precautionary approach (FAO 2025)



Stock	Catch 2024 In tonnes (avg. 2020-2024)	B _{CUR} /B _{0.1}	Fcur/F0.1	Assessment
S. pilchardus	196 000 (379 000)	71% (Biodyn)	37% (Biodyn)	Overexploited
Zone A+B				

Summary of the assessment for *S.pilchardus* in zona A and B by the 2024 Working Group on the Assessment of Small Pelagic Fish off Northwest Africa (FAO 2025).

References

FAO. 2025. Fishery Committee for the Eastern Central Atlantic. Summary report of the FAO working group on the assessment of small pelagic fish off northwest Africa 2025. https://openknowledge.fao.org/server/api/core/bitstreams/48572e26-38ef-40b9-8f89-9cbf92efc545/content

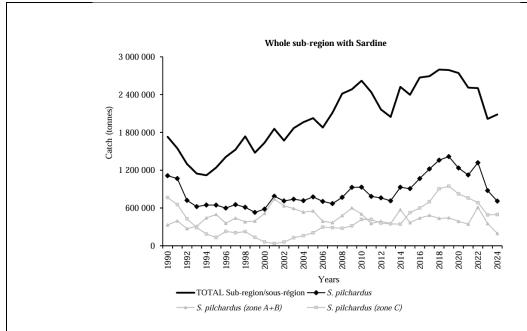
Species name			European pilchard - Sardina pilchardus			
Fishing area and stock			FAO 34 - Eastern Central Atlantic, South Zone (Zone C)			
C1	Categ	ory C Stoc	k Status - Minimum Requirements			
CI	C1.1	Fishery re	emovals of the species in the fishery under assessment are included	Pass		
		in the sto	ock assessment process, OR			
		are consi	dered by scientific authorities to be negligible.			
	C1.2	The spec	ies is considered, in its most recent stock assessment, to have a	Fail		
		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:

The preliminary results from the FAO working group on the assessment of small pelagic fish off northwest Africa in 2025 were obtained using the dynamic version of the Schaefer (1954) model, as in previous years, which uses historical fishing mortality and/or catch data for simple medium-term projections of future yields and stock development (FAO 2025).





Total catch of small pelagic species and sardine catch in the whole subregion from 1990 to 2024 (FAO 2025).

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 NOT met considering that:

The stock is considered to be overexploited, which means that the fishery is in an undesired state in terms of biomass or/and fishing mortality, and fishing pressure should be reduced to allow the stock to grow. Results indicate that the current biomass was 66% the target reference point (Bcur/B0.1 = 66%) for the zone C stock; therefore, the stock is below its target level. Target reference points used for this fishery (B0.1) is more conservative than MSY, and it is used due to inconsistencies of some data since environmental factors strongly influence this stock and shows fluctuations in biomass that are independent of fishing, because abundance indices in this area are not regularly assessed, and to be in line with the precautionary approach (FAO 2025)

Stock	Catch 2024 In tonnes (avg. 2020-2024)	B _{CUR} /B _{0.1}	Fcur/F _{0.1}	Assessment
Sardine S. pilchardus	496 000 (651 000)	66% (Biodyn)	109% (Biodyn)	Overexploited
Zone C				



Summary of the assessment for S.pilchardus in Zones A + B and C by the 2024 Working Group on
the Assessment of Small Pelagic Fish off Northwest Africa (FAO 2025).

References

DOF. 2023. Diario Oficial de la Federación. Agreement announcing the update of the Fisheries Management Plan for the small pelagic fishery (sardines, anchovies, mackerel and related species) in northwestern Mexico. https://www.gob.mx/imipas/documentos/plan-de-manejo-pesquero-para-la-pesqueria-de-pelagicos-menores-del-noroeste-de-mexico

Traceability information

Information provided for Step 3 Path 1 or Path 2

Assessor note: Duplicate for each species/stock

Species name		Californian pilchard - Sardinops sagax caeruleus			
Path 1		Yes □ No ⊠			
Confirm all KDEs are p	rovided	Yes □ No □			
Path 2 Yes ⊠ No		□ th 2, complete the next section			
Path 2 outcome	Flag country	Coastal scor	e Port score	Risk outcome	
Countries may be different for Coastal		2.86	3.06	Downgraded to medium risk	
State and Port State.					

Species name		Japanese pilchard - Sardinops sagax melanostictus			
Path 1		Yes □ No ⊠			
Confirm all KDEs are p	rovided	Yes □ No □			
Path 2 Yes ⊠ No If yes for Pa			nplete the ne	xt section	
Path 2 outcome Flag count		Coas	tal score	Port score	Risk outcome
Countries may be China		3.13		4.33	Remains high risk
different for Coastal Korea		2.69		3.33	
State and Port State.	Rusia	2.57		2.78	



Guidance for Applicants/Certificate holders on improved traceability

When by-product origin cannot be made more granular than major FAO Areas, or when the source fishery is taking place in the High Seas (i.e. outside of EEZs of all relevant nations), an assessor must evaluate the Coastal and Port scores for each nation that straddles that FAO Area. This may lead to higher risk outcomes for an applicant. To mitigate that risk, better practice involves securing KDEs from the source fishery of the by-products, thereby meeting Path 1 instead of Path 2.

What does better practices look like?

Comprehensive data collection and sharing: Collect detailed information using Key Data Elements (KDEs) including vessel identification and authorisation, species, catch areas, fishing method and dates. These are defined in the MarinTrust Standard clauses 2.11.2.2 and 3.2.5.

Supply chain transparency: Maintain detailed records at each step of the supply chain, from capture to final sale, to ensure traceability.

Interoperable systems and technologies to support the collection and transfer of this information.