

## MarinTrust Standard V2

## By-product Fishery Assessment Report Template

MarinTrust Programme Unit C, Printworks 22 Amelia Street London SE17 3BZ E: <u>standards@marin-trust.com</u> T: +44 2039 780 819



# Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Yellowfin Sole (Limanda aspera)		
	Geographical area:	FAO 61 & 67, Pacific Northwest and Northeast, Gulf of Alaska		
	Country of origin of the product:	USA		
	Stock:	Gulf of Alaska		
Date	13/12/2021			
Report Code	BP257			
Assessor	Virginia Polonio			
Country of origin of the product - PASS	USA			
Country of origin of the product - FAIL	NA			

Application details and	l summary of the assess	sment outcome		
Name: Piyo Bhokabha	n Co., Ltd, T.C. Union A	grotech Co, Ltd		
Address:				
Country: Thailand		Zip:		
Tel. No.:		Fax. No.:		
Email address:		Applicant Code:		
Key Contact:		Title:		
<b>Certification Body Deta</b>	ails			
Name of Certification I	Body:	Gloabal Trust certification		
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval	
Virginia Polonio Conor Donnelly		0.5	Surveillance 1	
Assessment Period To December 2021				



Scope Details	
Main Species	Yellowfin Sole ( <i>Limanda aspera</i> )
Stock	Gulf of Alaska
Fishery Location	FAO 61 & 67 Pacific Northwest and Northeast, Gulf of Alaska
Management Authority	North Pacific Fishery Management Council (NPFMC) and
(Country/ State)	Magnuson-Stevens Act
Gear Type(s)	Otter trawls
Outcome of Assessment	
Peer Review Evaluation	Agree with recommendation
Recommendation	APPROVED

### Table 2. Assessment Determination

#### **Assessment Determination**

If any species is categorised as Endangered or Critically Endangered on IUCN's Red List, or if it appears in the CITES appendices, it cannot be approved for use as MARINTRUST raw material. Yellowfin sole (*Limanda aspera*) does not appear as Endangered or Critically Endangered on IUCN's Red List, nor does it appear in CITES appendices; therefore, Yellowfin sole (*Limanda aspera*) in the FAO areas 61 & 67 Gulf of Alaska is eligible for approval for use as MARINTRUST by-product raw material.

Biological reference points are not available for the yellowfin sole stock in Gulf of Alaska waters. Overfishing limits (OFL) for the stock has been used as advised TAC, while Acceptable Biological Catch (ABC) limit has been used as Assigned TAC for this stock. Therefore, there is not a species-specific management system and the species has been assessed under Category D

In order to be approved, the stock assessed must pass the PSA; therefore, as this is the case here, Yellowfin sole (*Limanda aspera*) in the FAO areas 61 & 67 in the Gulf of Alaska, by-product covered by this report is **APPROVED** for the production of fishmeal and fish oil under the current MARINTRUST v2.0 by-product standard.

Fishery Assessment Peer Review Comments							
Peer	review	confirmed	that	no	reference	points	exist
( <u>https://</u> \	www.fisherie	s.noaa.gov/species	/yellowfin	<u>-sole</u> ) and	the stock is there	efore not subj	iect to a
species-s	pecific mana	gement regime so	it is neces	sary to ass	sess under Clause	e D using a ris	k-based
productiv	productivity-susceptibility analysis. Review of the productivity and susceptibility scoring confirms the						
PSA achieves a pass. Consequently, the peer review agrees with the recommendation to approve.							
Notes for	<b>On-site Audito</b>	or					



## **Species Categorisation**

**NB:** If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as an MARINTRUST raw material.

#### **IUCN Red list Category**

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

### Table 3 Species Categorisation Table

Common name	Latin name	Stock	Management	Category	IUCN Red List Category <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Yellowfin Sole	Limanda	FAO 61 & 67	North Pacific	D	LC	No
	aspera	Pacific	Fishery			
		Northwest and	Management			
		Northeast, Gulf	Council (NPFMC)			
		of Alaska	and Magnuson-			
			Stevens Act			

<sup>&</sup>lt;sup>1</sup> <u>https://www.iucnredlist.org/</u>

<sup>&</sup>lt;sup>2</sup> <u>https://cites.org/eng/app/appendices.php</u>

## **CATEGORY D SPECIES**

Category D species are those which make up less than 5% of landings and are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

<b>D1</b>	Species Name	Yellowfin sole ( <i>Limanda aspera</i> )					
	Productivity Attribut	e		Value	Score		
	Average age at maturity (years)		5.7		3		
	Average maximum age (years)	23.7		2			
	Fecundity (eggs/spawning)		1,036,626	[295,615-3,635,108]	1		
	Average maximum size (cm)		49		1		
	Average size at maturity (cm)		24.8		1		
	Reproductive strategy		Non guard	ers	1		
	Mean trophic level		3.5		3		
			Average Productivity Score		1.71		
	Susceptibility Attribute		Value		Score		
	Overlap of adult species range with fishery		>50 of the stock occurs in the		2		
			area		5		
	Distribution		Limited range in the region		Not scored		
	Habitat		demersal		3		
	Depth range		High overlap		3		
	Selectivity		Species 1 to 2 times mesh size		2		
	Post-capture mortality		Alive after net hauled		2		
			Average Susceptibility Score		2.5		
	PSA Risk Rating (From Table D3)				PASS		

#### References

https://www.fishbase.de/summary/Limanda-aspera.html



**Figure 1.** Distribution maps for Limanda aspera (Yellowfin sole), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. Retrieved from https://www.aquamaps.org. https://www.aquamaps.org/receive.php?type\_of\_map=regular

Standard clauses 1.3.2.2



## Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk Score 1	
	Score 3	Score 2		
Average age at maturity (years)	>4	2 to 4	<2	
Average maximum age (years)	>30	10 to 30	<10	
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000	
Average maximum size (cm)	>150	60 to 150	<60	
Average size at maturity (cm)	>150	30 to 150	<30	
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner	
Mean trophic level	>3.25	2.5-3.25	<2.5	

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk		
			Score 3	Score 2	Score 1	
Availability	1)	Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished	
33	2)	Distribution	Only in the country/ fishery	Limited range in the region	Throughout region/ global distribution	
Encounterability	1)	Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)	
	2)	Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)	
Selectivity			Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh or<br="" size="">&gt;5 m length</mesh>	
Post capture mortality			Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours	

Note: Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

Marine Ingredients Certifications Ltd (09357209) | Doc FISH1- Issued February 2021 – Version 2.1 | Approved by Libby Woodhatch Controlled Copy- No unauthorised copying or alteration permitted © Marine Ingredients Certifications Ltd., for authorised use only



D3		Average Susceptibility Score			
		1 - 1.75	1.76 - 2.24	2.25 - 3	
Average Productivity	1 - 1.75	PASS	PASS	PASS	
Score	1.76 - 2.24	PASS	PASS	TABLE D4	
	2.25 - 3	PASS	TABLE D4	TABLE D4	

Spe	cies Name					
Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements						
D4.1	The potential impacts of the fishery on this species are considered during the management					
	process, and reasonable measures are taken to minimise these impacts.					
D4.2	There is no substantial evidence that the fishery has a significant negative impact on the					
	species.					
Outcome:						
се						
D4.1: The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.						
here is n	no substantial evidence that the fishery has a significant negative impact on the species.					
nces						
ITRUST S	Standard clause 1.3.2.2, 4.1.4					
CRF	7.5.1					
	D.5.01					
	Spe Impac D4.1 D4.2 ce The pot able me nces ITRUST	Species Name   Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements   D4.1 The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.   D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.   Outcome:   Ce   The potential impacts of the fishery on this species are considered during the management process able measures are taken to minimise these impacts.   nere is no substantial evidence that the fishery has a significant negative impact on the species.   Ce   Three is no substantial evidence that the fishery has a significant negative impact on the species.   nere is no substantial evidence that the fishery has a significant negative impact on the species.   ITRUST Standard clause   1.3.2.2, 4.1.4   CF   D.5.01				