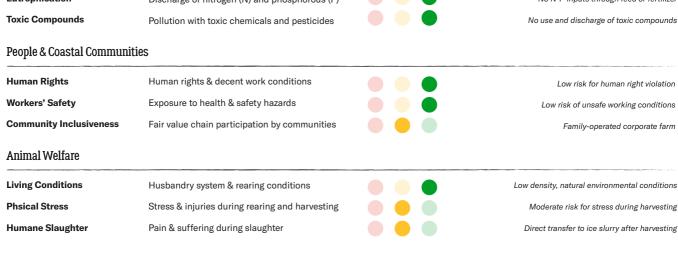
## IMPACT DIMENSION IMPACT INDICATOR PERFORMANCE RATIONALE Life on Planet & Natural Resources **Climate Change** Product Carbon Footprint (PCF) Currently being assessed **Biodiversity Loss** Loss of biodiversity & biosphere integrity No loss of biodiversity Deforestation Land use change due to deforestation No deforestation **Freshwater Depletion** Risk for freshwater depletion No freshwater depletion Eutrophication No N-P-inputs through feed or fertilizer Discharge of nitrogen (N) and phosphorous (P) **Toxic Compounds** Pollution with toxic chemicals and pesticides No use and discharge of toxic compounds People & Coastal Communities





## **BLUEYOU OCEAN IMPACT TRACKER**

## METHODOLOGY FOR ASSESSMENT AND SCORING GUIDEPOST

FARMED SEAFOOD

Version 1.0 Oct 2023

December 26, 2023 Assessment Date: Jonas Walker A-PNV-4 Assessor Name: Unit of Origin Code:

Species Name Country of Origin Farming Area

Pacific Whiteleg Shrimp (Litopenaeus vannamei)
Ecuador
Gulf of Guayaquil, Guayas Province
Aquaculture
Extensive Pond Aquaculture Origin Type
Farming Method
Operation Type Corporate Farm

LIFE ON PLANET & NATURAL							
Impact Dimension	Parameter for Evaluation	Asessement Indicators and Metrics	Scoring Guidepost			Score	Comments and Remarks for Assessment
			1 Negative impact / Critical performance	2 Moderate impact / Acceptable performance	3 Positive impact / Good performance		
imate Change Impact	LCA-based carbon footprint	Curbon Footprint in Kg CO, Eq. / kg final product on POS in market	High footprint ( > 8.0 kg CO <sub>2</sub> eq./kg product at store)	Moderate footprint [3.0 - 8.0 kg CO <sub>2</sub> eq./kg product at store]	Low footprint [< 3.0 kg CO <sub>2</sub> eq./kg product at store]	0	Extensive system without any feed input. Only input during grow not is probletic and home made ferm blockash fertilizer. No puddle wheels or other means of exection used during grow out. Electricity only us the begining of the cycle to pump water from sea level to grow out pond ponds which are around 2-3m. As feed and electricity are responsible for around 80% of the total carbon footprint of an aquaculture per origins which do not rely on level and only it as milmid degree no electricity generally have a very low congins which do not rely on level and only it is milmid degree no electricity generally have a very low congins which do not electricity generally have a very low congins which so not electricity generally have a very low.
osystems & Biodiversity	Biospere integrity and biodiversity loss	Biodiversity loss, ETP impact, wildlife interaction	Critical impact on habitats, widdlife and biodiversity through farming and feed inputs	Moderate impact on biodiversity and habitats through farming and feed inputs	Low impact or nature-positive food system	3	The fam is located in former stall marries which are enriched by a margious belt but is located outside around 2-7an above the mangrow rare. Nowever, the mangrows rest, cending the fam revers as sediment trap for the water instale and botifier. In contrast to mangrows loss, which is other correlated with the development of shring appacature in managrow rares, in this particular case, the mangrow belt increas after the farming activity started because saline water was pumped up 2-7an above the sea level to the outprounds where previously no mangrows green. Now, with the calable case water in the previously of high processing or those was considered as in Softring Indicates and Vettam All pares.
eforestation	Land system change due to deforestation	Deforestation of land for agriculture or aquaculture	Critical deforestation happening / no restoration efforts	Risk for deforestation (feed crops) / no restoration	No deforestation riks / active restoration ongoing	3	The farm is located in former salt marshes located outside and around 2-3m above the mangrove area as mangroves where cut for the construction of the farm
eshwater Use	Depletion of freshwater	Use of freshwater and risk of depletion (feed and farming)	High consumption and critical risk for depletion	Moderate consumption / freshwater no depletion risk	No use of freshwater	3	No freshwater used. The saline water used for the nursery and grow out ponds is directly pumped from surrounding estuary
utrophication	Discharge of critical nutrients (N,P)	Risk of eutrophication in feed production and aquaculture	High risk (agriculture and aquaculture)	Moderate risk	Low / No Risk	3	No feed is used during grow out. Therefore risk of eutrophication can be deemed low
oxic Compounds	Pollution with chemicals and pesticides	Use of chemicals, pesticides, antibiotics and toxic compounds	Frequent and continous use as part of SOP	Moderate and occasional use under GAP	No use as part of SOP	3	The only input during the grow out cycle is probiotics and fermented bokashi (used as a natural fertilizer compounds are non-toxic and dont pose any threat to the environment. Other chemicals are not used.
EOPLE & COASTAL COMMU	NITIES						
man Rights & Work Conditions	Human rights and decent work conditions	Risk for human right abuse and critical work conditions	High risk	Moderate risk	Low risk	3	The total farming area is 400% and is managed directly by the company owning the shrimp farms. The small-scale farmer structures, the small total size of the area, the good accessibility, the few number of involved in the pond management and their direct employment by the company make violations of acc compliance and workers' safety very unlikely. Bluepou team members have been personally on-site to environmental and social compliance and did not find any non-compliance
orkers' Safety	Safe working conditons along supply chain	Risk for critical working conditions on farming and processing level	High risk	Moderate risk	Low risk	3	The operation is vertically integrated and the company manages the farming operation as well as the properations and all transportation in between. All people working on the farms are directly employed by company. Blueyou team members have been personally on-site to verify social compliance and were finiteract with all employees on farm and processing level without any restrictions from the company.
mmunity Inclusiveness	Fair value and participation of communities	Level of involvement of local community in farming and value chain	No / Low	Moderate	High	2	The aquaculture ponds are not managed by a community of small-scale farmers but by a few employees owning company. While this decreases the risk of social non-compliance it also reduces the involvement local community. In such setups benefits generated through the farming of shrimps (other than the job creation) are usually shared to a lower degree with the local community but tend to stay within the com
NIMAL WELFARE							
ng Conditions & Quality of Life	Husbandy system which respects natural behaviour	Husbandry systems, intensity level, natural environment	Inappropriate husbandry, High risk for overcrowding and prolongued stress	Species appropriate husbandry, moderate crowding	Natural environment, low densities	3	The living conditions for the shrimp in the respective aquaculture systems are deemed very good. This due to the very low stocking density (less than 5 PLs/m2 Pond Surface), Broodstock without eyestalk a and the mangroves being functionally linked to the aquaculture system
pture, Harvesting & Handling	Reducing stress during harvesting & handling	Risk of exposure to prolonged stress, pain and injuries	High risk for prolonged stress, pain and multiple injuries	Moderate exposure to stress and improved handling	Optimized handling to reduce stress to minimum	2	Low risk of stress during rearing because of low stocking density. The shrimp are harvested and directly transferred to a ice slurry. Time between harvest and transfer to ice slurry is minimal
nning & Humane Slaughter	Stunning before slaughtering	Vertebrate and Decapod Crustacean are stunned prior to killing	No stunning and prolonged suffering prior to death	No stunning but moderate risk for prolonged suffering	Effective stunning in place within minimal time	,	Shrimp are directly transferred to ice slurry after capture (Chill Kill). For a tropical shrimp species, this likely a fast and humane killing method, however, no stunning of the shrimp is conducted before the t