



Berli Jucker Public Company Limited  
บริษัท เบอร์ลี ยุคเกอร์ จำกัด (มหาชน)

## Water Relate Risk Report

**Support answer: 2.5 Water**

**Topic: Exposure of Suppliers to Water Risks**

**Report Year: 2024**

BJC utilize the Aqueduct Water Risks Atlas tool, developed by the World Resource Institute (WRI) to identify and evaluate current water risks in all operations throughout Thailand, Total supplier, all Critical tier 1 supplier, and critical agricultural commodities.

### Own Operation

BJC assess own operation site's location in water stress area by the Aqueduct Water Risks Atlas tool. The result as below.

Water stress Level	% Operation site
Extremely High	39
High	36
Medium - High	11
Low - Medium	3
Low	11

Note: Coverage is big format of Big C and all factory in Thailand

In additional, BJC also conducts water risk assessments in enterprise risk management process which operates on a regular basis to manage risks appropriately and timely manner.

### Mitigation Plan

BJC regularly monitors, evaluates, and manages water usage across its operations, with particular attention to operation sites located in water stress areas. The company emphasizes the efficient and economical use of water to ensure sufficient supply, minimize environmental impact, and avoid adverse effects on surrounding communities. BJC is committed to increasing the use of recycled water to maximize efficiency and



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prioritizes effective wastewater treatment to prevent harm to the environment and local populations. Additionally, BJC adopts advanced technologies and best practices to minimize water consumption across operations. The company also works to maintain consistent water availability during periods of scarcity by identifying and utilizing alternative water sources while actively exploring opportunities for water reuse.

Examples of Operation site activities in water stress areas:

- BJC increases the proportion of water reuse in the production process.
- BJC Glass utilizes water reuse for the run-out and cooling of molten glass during annual maintenance, aiming to reduce freshwater consumption.
- CPC implemented new technology and engineering approaches, such as installing disc filters to maximize recovery of freshwater, improve the quality of recycled water, and install the water gate to collect rainwater, which contributes to minimizing wastewater and reducing freshwater consumption in the operation.
- BJC Glass utilizes water reuse instead of freshwater to wash glass cullet, help reduce dust, and retain moisture, and it also prevents the formation of foam caused by the reaction of organic substances during the melting process.

### Total supplier

BJC use the Aqueduct Water Risks Atlas tool to assess water risk by supplier's location. The result as below.

Water Risk Level	% Total supplier
Extremely High	12
High	78
Medium - High	4
Low - Medium	4
Low	2



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The assessment of total suppliers 2% are located in the low water risk area, 4% are located in the low-medium water risk area, while 4% of our suppliers are located in the Medium-High water risk area, 78% of our suppliers are located in the high-water risk area and 12% of our suppliers are located in the Extremely high-water risk area.

### Critical supplier

BJC use the Aqueduct Water Risks Atlas tool to assess water risk by supplier's location. The result as below.

Water Risk Level	% Critical supplier
Extremely High	4
High	84
Medium - High	3
Low - Medium	5
Low	4

The assessment demonstrates that the majority of our critical tier-1 suppliers 4% are located in the low water risk area, while 5% of our critical tier-1 suppliers are located in the low-medium water risk area, 3% are located in the medium-high water risk area, and 84% of our critical tier-1 suppliers are located in the high-water risk area and 4% of our critical tier-1 suppliers are located in the Extremely high water risk area. We consider critical suppliers located in high water risk area to have water-related risks and prepare mitigation plans.

In additional, BJC assesses supplier water risks in the supplier risk assessment process. Including on site audit at supplier site to ensure properly water management.



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### Agricultural commodities

Agricultural raw materials are the main used in snacks production. In 2024, BJC assess water risk at sourcing locations of key agricultural commodities such as Palm oil, Sugar and Cacao, which is the main raw materials in the production process through the analysis from the Aqueduct Water Risk Atlas tool.

However, BJC did not obtain any of its agricultural raw materials from other sources (no percentage).

Aggregated water risk assessment results of sourcing location of Plam oil, Sugar and Cacao as below

Raw Material	Sourcing Province	Water source	Water Risk Level
Palm oil	Surat Thani	Peninsula Malaysia	Low
	Chumphon	Peninsula Malaysia	Medium - High
	Trang	Peninsula Malaysia	Low - Medium
	Krabi	Peninsula Malaysia	Low
	Chon Buri	Gulf of Thailand Coast	Extremely High
	Prachuap Khiri Khan	Peninsula Malaysia	Medium - High
	Trat	Gulf of Thailand Coast	Low - Medium

**BJC**

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Raw Material	Sourcing Province	Water source	Water Risk Level
Sugar	Phetchabun	Chao Phraya	Extremely High
	Lop Buri	Chao Phraya	Extremely High
	Chaiyaphum	Mekong	Extremely High
	Nakhon Sawan	Chao Phraya	Extremely High
	Kalasin	Mekong	Extremely High
	Khon Kaen	Mekong	Extremely High
	Uttaradit	Chao Phraya	High
	Sukhothai	Chao Phraya	Extremely High
	Loei	Mekong	Low

Raw Material	Sourcing Province	Water source	Water Risk Level
Cacao	Malaysia	Peninsula Malaysia	Low - Medium
	Singapore	Peninsula Malaysia	Low
	Netherlands	Rhine	Low

Agricultural commodities	% of total agricultural commodity sourced from areas with water stress
Palm oil	Less than 1%
Sugar	2.6%
Cacao	0%
% of cost goods purchased in last FY	0.1%



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### Mitigation Plan

To remediate the issue of water risk, BJC encourage our critical tier-1 suppliers who located in high water risk area to improve water management process for reduce, reuse and recycle water in their process. In additional, BJC has action with critical supplier in high water risk area for minimize risk as detailed below.

	<b>Measures</b>
Risks related to the quantity and quality of water	To minimize risks related to the quantity and quality of water, BJC conducts annual on-site factory audits of all critical tier-1 suppliers. These audits assess suppliers' wastewater treatment systems and evaluate the quality of discharged water to ensure compliance with BJC's environmental standards. If any non-compliance is identified, suppliers are required to implement a corrective action plan within a defined timeframe. In addition, BJC collaborates closely with suppliers through ongoing water management initiatives aimed at evaluating and mitigating exposure to water risks. These efforts also help identify opportunities to enhance water efficiency across the value chain. From BJC's perspective, effective water and wastewater management is a key sustainability priority and is embedded in the supplier selection and evaluation process for new business partnerships.
Risks related to regulatory changes or changes in pricing structures	BJC has assigned the Legal Department to continuously monitor regulatory developments relevant to the business, with the objective of minimizing risks related to regulatory changes and



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	pricing structure adjustments. In the event of any regulatory shifts that may impact the company or its suppliers, the Legal Department promptly notifies the relevant internal units, such as the Procurement and Quality Assurance Departments. These departments then engage in close collaboration with critical tier-1 suppliers to assess potential impacts and implement appropriate mitigation measures to ensure compliance and business continuity.
	<b>Measures</b>
Risks related to stakeholder conflicts	<p>To minimize risks related to stakeholder conflicts, BJC maintains ongoing communication with all stakeholder groups and closely monitors suppliers' grievance records and logs, which are part of the factory audit. Stakeholder engagement is conducted through multiple channels to proactively identify and address any potential concerns, particularly those involving local communities.</p> <p>In cases where risk is related to stakeholder conflict, the Procurement and Quality Assurance Departments collaborate closely with critical tier-1 suppliers to ensure a coordinated response and effective risk mitigation. Should conflicts arise in water stress areas between suppliers and local stakeholders, BJC will implement appropriate conflict resolution measures to minimize potential disruptions to business operations and maintain stakeholder relationships.</p>



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