

# Welcome to your CDP Water Security Questionnaire 2019

## W0. Introduction

### W0.1

**(W0.1) Give a general description of and introduction to your organization.**

Aspen is a pharmaceutical company listed on the Johannesburg Stock Exchange Limited (“JSE”). Aspen employs approximately 10 000 employees and its heritage dates back more than 160 years in South Africa. Aspen supplies branded and generic pharmaceutical products, infant milk nutritionals and consumer healthcare products in selected territories and into more than 150 countries worldwide. The Aspen brand has become synonymous with high quality and affordable products. Aspen recognises that climate change has potential direct and indirect implications on its operations and is therefore relevant to Aspen’s sustainability objectives. As at 30 June 2018, the Group had 25 manufacturing facilities across 17 sites. The manufacturing sites contribute to the bulk of Aspen’s carbon emissions and as such environmental reporting is focused at a manufacturing site level. The New Zealand New Milk facility is excluded from the reporting boundary as Aspen does not have operational control of this facility. The main contributors to Aspen’s Scope 1 emissions are natural gas, refrigerants and fuel consumption while Scope 2 emissions are comprised of purchased electricity and steam.

### W0.2

**(W0.2) State the start and end date of the year for which you are reporting data.**

	Start date	End date
Reporting year	July 1, 2017	June 30, 2018

### W0.3

**(W0.3) Select the countries/regions for which you will be supplying data.**

- Australia
- Brazil
- France
- Germany
- Ghana
- Kenya
- Mexico
- Netherlands
- South Africa
- United Republic of Tanzania

United States of America

## W0.4

**(W0.4) Select the currency used for all financial information disclosed throughout your response.**

ZAR

## W0.5

**(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.**

Companies, entities or groups over which operational control is exercised

## W0.6

**(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?**

Yes

## W0.6a

**(W0.6a) Please report the exclusions.**

Exclusion	Please explain
New Zealand New Milk facility	The New Zealand New Milk facility is excluded from the reporting boundary as Aspen does not have operational control of this facility.

## W1. Current state

### W1.1

**(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.**

	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital	Important	Water quality and supply have the potential to impact both Aspen's direct operations and supply chain. Aspen relies on a constant water supply, of adequate quality, to maintain manufacturing processes and compliance to quality standards. Disruptions to water supply present a risk to production, and declining water quality will impact the Group's operating costs as additional

			processing would be required to ensure product quality. The cost, quality and security of the supply chain are also vulnerable to water supply and quality risks. Aspen sources raw materials from various geographic locations. Intermediates and raw materials sourced from the agricultural sector are specifically vulnerable to changes in climate (changing precipitation regimes and increased frequency and intensity of extreme weather events) and overall water supply and quality.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	The facilities in South Africa continue to benefit from reuse and recycling initiatives that were implemented in prior years, including the reuse of rejected Reverse Osmosis (RO) water in the ablation facilities and cooling towers. The site in Vallejo Mexico makes use of recycled water to irrigate the gardens, and donates clean recycled water from the water treatment plant to other industries. These initiatives were aimed at reducing Aspen's exposure to increasing water tariffs and supply risk. Additionally, a number of Aspen's direct and indirect operations are situated in water management areas which are reliant on the treatment and recycling of return flows to maintain a positive water balance.

## W1.2

**(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?**

	% of sites/facilities/operations	Please explain
Water withdrawals – total volumes	100%	Water withdrawals are monitored at 100% of the facilities using a combination of municipal and internal meters. Water withdrawals are monitored as the water supply is extremely important in maintaining operations, and represents a growing operational expense.
Water withdrawals – volumes from water stressed areas	1-25	The facilities in Cape Town and Port Elizabeth, South Africa, are located in water-stressed areas.
Water withdrawals – volumes by source	100%	Municipal supply is the main source of water for the majority of the facilities, however, the French facility's main source of water is

		groundwater. All sites monitor water withdrawal by source.
Water withdrawals quality	100%	The quality of the water withdrawn is monitored as the nature of our products requires that the water used meets Aspen's internal quality standards.
Water discharges – total volumes	100%	100% of the facilities monitor water discharge based on information provided from municipal accounts and calculations, as wastewater discharge represents a significant cost to the operations.
Water discharges – volumes by destination	100%	All the facilities discharge wastewater into the municipal sewer system; some sites do treat the water onsite before discharge. Water discharge at 100% of the facilities is monitored from municipal accounts. Volumes are either measured or calculated.
Water discharges – volumes by treatment method	100%	Aspen Nutritionals in Johannesburg South Africa and Vallejo in Mexico treat wastewater before discharge to the municipal sewer. All water quality and volumes generated are measured or calculated.
Water discharge quality – by standard effluent parameters	100%	All the facilities discharge wastewater into the municipal sewer system; some sites treat the water onsite before discharge. Water discharge at 100% of the facilities is monitored from municipal accounts.
Water discharge quality – temperature	100%	All the facilities discharge wastewater into the municipal sewer system and have to comply with the municipal temperature standards.
Water consumption – total volume	100%	Water consumption can be calculated from the total withdrawal and water discharge volumes which Aspen measures and reports on a quarterly basis.
Water recycled/reused	1-25	Grey water is used for gardening purposes at the Nutritionals facility in Clayville and the Vallejo facility in Mexico.
The provision of fully-functioning, safely managed WASH services to all workers	Less than 1%	Ablution facilities are provided at 100% of the operations; however, due to the small volume of water utilized, it is not monitored separately.

## W1.2b

**(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, and how do these volumes compare to the previous reporting year?**

	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Total withdrawals	1,583.56	Lower	Water consumption has decreased by 5,0% (84 Megalitres). This is mostly attributable to the implementation of resource conservation and optimisation projects at the Port Elizabeth, Cape Town and Notre Dame de Bondeville sites. Decommissioning of the water purification plant at the De Geer site further contributed to the decrease in water consumption.
Total discharges	1,475.27	Higher	Discharge quantity is based on available information at the various facilities within the Group and is not monitored through the use of meters at present.
Total consumption	109	Lower	Water consumption has decreased by 5,0% (84 Megalitres). This is mostly attributable to the implementation of resource conservation and optimisation projects at the Port Elizabeth, Cape Town and Notre Dame de Bondeville sites. Decommissioning of the water purification plant at the De Geer site further contributed to the decrease in water consumption.

## W1.2d

**(W1.2d) Provide the proportion of your total withdrawals sourced from water stressed areas.**

	% withdrawn from stressed areas	Comparison with previous reporting year	Identification tool	Please explain
Row 1	14.75	About the same	WWF Water Risk Filter	Cape Town and Port Elizabeth are located in

				drought stricken river basins.
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## W1.2h

**(W1.2h) Provide total water withdrawal data by source.**

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Not relevant			Not applicable to Aspen Manufacturing sites.
Brackish surface water/Seawater	Not relevant			Not applicable to Aspen Manufacturing sites.
Groundwater – renewable	Not relevant			Not applicable to Aspen Manufacturing sites.
Groundwater – non-renewable	Relevant	378	Higher	Borehole water is utilised at the facilities in France, Netherlands and Tanzania.
Produced/Entrained water	Relevant but volume unknown			Not applicable to Aspen Manufacturing sites.
Third party sources	Relevant	1,206	Lower	Water consumption has decreased by 5,0% (84 Megalitres). This is mostly attributable to the implementation of resource conservation and optimisation projects at the Port Elizabeth, Cape Town and Notre Dame de Bondeville sites. Decommissioning of the water purification plant at the De Geer site further contributed

				to the decrease in water consumption.
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## W1.2i

**(W1.2i) Provide total water discharge data by destination.**

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water	Not relevant			Not applicable
Brackish surface water/seawater	Not relevant			Not applicable
Groundwater	Not relevant			Not applicable
Third-party destinations	Relevant	1,475	Lower	All water is discharged into Municipal sewer.

## W1.2j

**(W1.2j) What proportion of your total water use do you recycle or reuse?**

	% recycled and reused	Comparison with previous reporting year	Please explain
Row 1	1-10	Lower	This amount is driven mainly by the number of available water conservation projects implemented by different sites.

## W1.4

**(W1.4) Do you engage with your value chain on water-related issues?**

No, not currently but we intend to within two years

## W1.4d

**(W1.4d) Why do you not engage with any stages of your value chain on water-related issues and what are your plans?**

	Primary reason	Please explain
Row 1	We are planning to do so within the next two years	Aspen is at the initial stages of establishing the best way to collect information from key suppliers.

## W2. Business impacts

### W2.1

**(W2.1) Has your organization experienced any detrimental water-related impacts?**

No

### W2.2

**(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?**

Yes, fines, enforcement orders or other penalties but none that are considered as significant

### W2.2a

**(W2.2a) Provide the total number and financial value of all water-related fines.**

Row 1

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**Total number of fines**

2

**Total value of fines**

24,265

**% of total facilities/operations associated**

1

**Number of fines compared to previous reporting year**

Lower

**Comment**

Ad hoc minor non-conformances at Nutritionals Johannesburg

## W3. Procedures

### W3.3

**(W3.3) Does your organization undertake a water-related risk assessment?**

Yes, water-related risks are assessed

### W3.3a

**(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.**

Direct operations

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**Coverage**

Full

**Risk assessment procedure**

Water risks are assessed in an environmental risk assessment

**Frequency of assessment**

Annually

**How far into the future are risks considered?**

Up to 1 year

**Type of tools and methods used**

Tools on the market

**Tools and methods used**

WWF-DEG Water Risk Filter

**Comment**

The WWF Water Risk tool was used to assess risks at all Aspen manufacturing sites.

**Supply chain**

**Coverage**

None

**Comment**

Supply chain risks not currently included in the assessment.

**Other stages of the value chain**

**Coverage**

None

**Comment**

No other stages in the value chain are included in the assessment at this stage.

**W3.3b**

**(W3.3b) Which of the following contextual issues are considered in your organization's water-related risk assessments?**

	<b>Relevance &amp; inclusion</b>	<b>Please explain</b>
Water availability at a basin/catchment level	Relevant, always included	Disruptions to water supply present a risk to production and growth and could impact the Group's operating cost. This risk is informed by internal monitoring, company knowledge and engagement with the water service providers

Water quality at a basin/catchment level	Relevant, always included	Declining water quality could impact the Group's operating cost as additional processing steps could be required in order to ensure that the water meets the required quality standards. This risk is informed by internal monitoring, company knowledge and engagement with the water providers.
Stakeholder conflicts concerning water resources at a basin/catchment level	Relevant, always included	A number of regions in which Aspen's operations are situated are characterised by a water deficit, and consequently, increasing competition between river basin stakeholders. Aspen is kept informed of any conflicts and possible consequences through engagement with the water provider, regional government databases and independent river basin studies.
Implications of water on your key commodities/raw materials	Relevant, always included	Aspen has a diverse supply chain incorporating numerous raw materials, including agricultural products. Water and climate-related issues experienced in the geographic locations supplying the facilities can impact operations by impacting the sustainable supply of certain raw materials. Stakeholder engagement with Aspen's key suppliers will be implemented in the future, as practical, to further inform our exposure to water-related risks. The risk assessment made use of existing datasets not direct engagement with Aspen suppliers.
Water-related regulatory frameworks	Relevant, always included	Water and wastewater tariffs represent a growing cost to operations. Current issues are informed by municipal accounts, regional government databases, engagement with the local water utility providers, and monitoring national government policy in relation to water tariffs.
Status of ecosystems and habitats	Not relevant, explanation provided	Although Aspen appreciates the importance of ecosystem services in maintaining a sustainable water resource, and vice versa, reliance is placed on water utilities, the water services authorities and Governments to ensure that these ecosystems are appropriately managed and risks evaluated. All of Aspen's facilities are situated in highly modified and built-up areas (i.e. industrial parks); none are located in critical habitat areas or are sufficiently close so as to have a significant impact on such habitats. Furthermore, Aspen undertakes direct abstraction of water at facilities located in France, Netherlands, Tanzania and Kenya. As per our environmental management principles, Aspen is committed to resource conservation initiatives, however, Aspen relies on the water utilities and regulators to manage any ecosystem impacts.

Access to fully-functioning, safely managed WASH services for all employees	Relevant, always included	Aspen provides ablation facilities for employees at all of the sites; risks associated with water supply to the ablation facilities are included in the overall operational water supply risk evaluation.
Other contextual issues, please specify	Not considered	Not applicable.

### W3.3c

**(W3.3c) Which of the following stakeholders are considered in your organization's water-related risk assessments?**

	Relevance & inclusion	Please explain
Customers	Relevant, not included	Water related issues that impact Aspen's operations have the potential to negatively affect customers. Aspen will consider including the impact on customers into the risk assessment process.
Employees	Relevant, not included	Ensuring the highest quality in hygiene standards at Aspen's facilities is imperative. Consequently, water issues with the potential to impact employee hygiene will be considered within the risk assessment process.
Investors	Relevant, not included	Risks to Aspen's production have the potential to impact the organisation's current and future investor portfolio.
Local communities	Relevant, always included	Climate change and water stressors have the potential to negatively impact community health. Consequently, health implications and the possible requirements placed upon Aspen's product line and production levels are considered.
NGOs	Relevant, always included	Certain NGO's, such as the WWF, play an important role in managing and assessing various countries' water resources, and, consequently, their initiatives are considered in Aspen's water risk assessment process.
Other water users at a basin/catchment level	Relevant, always included	Other water users are considered for two reasons: (i) the declining water resource will need to be shared between all water users; the characteristics and projected growth of this sector is therefore important; and (ii) these water users have the potential to negatively impact the quality of the water resource.
Regulators	Relevant, always included	Changes in regulations and tariffs implemented by regulators with the objective of managing water resources will directly impact Aspen's operations, and consequently regulators are an important stakeholder group in the risk assessment process.

River basin management authorities	Relevant, always included	The effectiveness of water basin management to adequately manage the resource will directly impact on water availability and quality.
Statutory special interest groups at a local level	Relevant, not included	Not currently included in the assessment. Statutory special interest groups will be factored into the risk assessment process, where relevant, in future submissions.
Suppliers	Relevant, always included	An uninterrupted supply of raw materials is imperative in maintaining production. Consequently, suppliers are factored into risk assessments.
Water utilities at a local level	Relevant, always included	The current and future performance of water utilities in managing water supply has a direct impact on Aspen's operations.
Other stakeholder, please specify	Not considered	No other stakeholders included.

## W3.3d

### **(W3.3d) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.**

A detailed risk assessment was conducted for all the Aspen manufacturing facilities within the Group. The Water Risk Filter, developed by World Wildlife Fund for Nature (WWF) assesses both company risk and basin risk. The process involved uploading all site information into the Tool, including the facility location coordinates. Each facility then completed the facility specific questionnaire and provided information relating to water quality data, water consumption and the country's legal framework. The Tool utilized online data sets from WWF to map the basin risks. The process assisted in the identification of company and basin risks for each facility.

## W4. Risks and opportunities

### W4.1

#### **(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?**

Yes, only within our direct operations

#### W4.1a

#### **(W4.1a) How does your organization define substantive financial or strategic impact on your business?**

A substantive change is defined as any material loss in the ability to operate and manufacture products, including loss of revenue in any of the regions. Aspen considers material issues to be those that have the potential to substantially impact Aspen's ability to create and sustain value

for our stakeholders. Both quantitative and qualitative factors are taken into account in determining materiality.

## W4.1b

**(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?**

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
Row 1	2	1-25	FCC in Cape Town and the Aspen Port Elizabeth sites are situated in drought-stricken areas. Resource conservation initiatives and the identification of potential alternative sources of water supply are in progress.

## W4.1c

**(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive impact on your business, and what is the potential business impact associated with those facilities?**

### Country/Region

South Africa

### River basin

Berg-Olifants

### Number of facilities exposed to water risk

1

### % company-wide facilities this represents

1-25

### % company's total global revenue that could be affected

1-25

### Comment

Water scarcity is a global risk and one that Aspen's South African operations have increasingly being exposed to due to the severe drought conditions in the Western and Eastern Cape. Two years ago, an El Niño-triggered drought-affected agricultural production and economic growth throughout South Africa. Cape Town was particularly hard hit, and a lack of good subsequent rains around the city made the water shortage worse. The day when City of Cape Town officials will be forced to cut off the normal

water supply to 75% of the city's homes, i.e. more than one million households, in order to conserve water supply was termed Day Zero. During the period covered by this disclosure, residents had been living with stringent consumption restrictions of 50 litres per person per day. Aspen's Fine Chemical Corporation (FCC) in Cape Town experienced intermittent decreased water pressure which impacted mainly on fire protection systems and to a lesser extent on production.

In 2016, FCC recognised that the low rainfall levels, experienced in Cape Town during 2015 and 2016 had significantly increased the risk to operational sustainability and management began to re-prioritize sustainability projects relating to environment and water conservation. Water conservation initiatives included the installation of process and utility water recovery and recycling systems, and reconfiguration and optimisation of the Purified Water System operation to decrease water rejection cycles. In addition, the site identified the need to investigate alternative sources of water supply, such as groundwater.

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**Country/Region**

South Africa

**River basin**

Mzimvubu-Tsitsikamma

**Number of facilities exposed to water risk**

1

**% company-wide facilities this represents**

1-25

**% company's total global revenue that could be affected**

1-25

**Comment**

Water scarcity is a global risk and one that we have increasingly been exposed to due to the severe drought conditions in the Western and Eastern Cape. Low dam levels in the Eastern Cape resulted in the Nelson Mandela Bay Municipality announcing water restrictions for domestic use. The manufacturing facilities were however not impacted. In line with the site's continuous improvement and resource conservation objectives, the site completed the installation of HVAC condensate recovery system and additional Reverse Osmosis Water Buffer Tanks. To further mitigate the risk of low water supply, the site is investigating long-term alternative water sources including purification of borehole water and desalination of seawater. In addition, site management has engaged with external stakeholders including the municipality and neighbouring companies with the aim of identifying mutually beneficial solutions.

## W4.2

**(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.**

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**Country/Region**

South Africa

**River basin**

Berg-Olifants

**Type of risk**

Physical

**Primary risk driver**

Increased water scarcity

**Primary potential impact**

Increased operating costs

**Company-specific description**

Water scarcity is a global risk and one that Aspen's South African operations have increasingly being exposed to due to the severe drought conditions in the Western and Eastern Cape. Two years ago, an El Niño-triggered drought affected agricultural production and economic growth throughout South Africa. Cape Town was particularly hard hit, and a lack of good subsequent rains around the city made the water shortage worse. The day when City of Cape Town officials will be forced to cut off the normal water supply to 75% of the city's homes, i.e. more than one million households, in order to conserve water supply was termed Day Zero. During the period covered by this disclosure, residents had been living with stringent consumption restrictions of 50 litres per person per day. Aspen's Fine Chemical Corporation (FCC) in Cape Town experienced intermittent decreased water pressure which impacted mainly on fire protection systems and to a lesser extent on production.

**Timeframe**

Current up to 1 year

**Magnitude of potential impact**

Medium-high

**Likelihood**

Likely

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure - minimum (currency)**

**Potential financial impact figure - maximum (currency)**

**Explanation of financial impact**

The financial impact is mainly the through the water conservation projects.

**Primary response to risk**

Adopt water efficiency, water re-use, recycling and conservation practices  
Water conservation projects

**Description of response**

Starting in 2016, FCC recognised that the low rainfall levels, experienced in Cape Town during 2015 and 2016 had significantly increased the risk to operational sustainability and management began to re-prioritise sustainability projects relating to environment and water conservation. Water conservation initiatives included the installation of process and utility water recovery and recycling systems, and reconfiguration and optimisation of the Purified Water System operation to decrease water rejection cycles. In addition, the site identified the need to investigate alternative sources of water supply, such as groundwater.

**Cost of response**

0

**Explanation of cost of response**

The financial impact is mainly the through the water conservation projects.

**W4.2c**

**(W4.2c) Why does your organization not consider itself exposed to water risks in its value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact?**

	Primary reason	Please explain
Row 1	Not yet evaluated	Water risks in the value chain have not been fully assessed at this stage.

**W4.3**

**(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?**

Yes, we have identified opportunities, and some/all are being realized



## W4.3a

**(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.**

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**Type of opportunity**

Efficiency

**Primary water-related opportunity**

Improved water efficiency in operations

**Company-specific description & strategy to realize opportunity**

Continuous improvement projects are put in place to recycle water and improve water efficiency. Water conservation projects undertaken to date include installation of HVAC condensate recovery system and installation of additional Reverse Osmosis Water Buffer Tanks at the Port Elizabeth site in South Africa, Recovery of reject water discharged during water purification through reverse osmosis at the Brazilian site and the installation of boreholes at various sites.

**Estimated timeframe for realization**

Current - up to 1 year

**Magnitude of potential financial impact**

Medium

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact**

The financial impact for water efficiency varies significantly but an estimated amount of R900, 000 was spent in the 2017 financial year.

## W5. Facility-level water accounting

### W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, total water accounting data and comparisons with the previous reporting year.

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**Facility reference number**

Facility 1

**Facility name (optional)**

Port Elizabeth

**Country/Region**

South Africa

**River basin**

Mzimvubu-Tsitsikamma

**Latitude**

-33.9167

**Longitude**

25.5667

**Total water withdrawals at this facility (megaliters/year)**

147.35

**Comparison of withdrawals with previous reporting year**

Lower

**Total water discharges at this facility (megaliters/year)**

116.72

**Comparison of discharges with previous reporting year**

Lower

**Total water consumption at this facility (megaliters/year)**

30.63

**Comparison of consumption with previous reporting year**

Lower

**Please explain**

A number of site activities resulted such as improved room washing techniques have contributed to the decrease of water withdrawal. Water discharged is directly proportional to water withdrawn.

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**Facility reference number**

Facility 2

**Facility name (optional)**

East London

**Country/Region**

South Africa

**River basin**

Mzimvubu-Tsitsikamma

**Latitude**

-32.981

**Longitude**

27.8282

**Total water withdrawals at this facility (megaliters/year)**

35.12

**Comparison of withdrawals with previous reporting year**

Higher

**Total water discharges at this facility (megaliters/year)**

33.34

**Comparison of discharges with previous reporting year**

Higher

**Total water consumption at this facility (megaliters/year)**

1.78

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Water withdrawal and discharges are higher due to an increase in production activity at this site.

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**Facility reference number**

Facility 3

**Facility name (optional)**

Johannesburg

**Country/Region**

South Africa

**River basin**

Limpopo

**Latitude**

-25.9874

**Longitude**

28.8282

**Total water withdrawals at this facility (megaliters/year)**

78.54

**Comparison of withdrawals with previous reporting year**

Lower

**Total water discharges at this facility (megaliters/year)**

52.67

**Comparison of discharges with previous reporting year**

Higher

**Total water consumption at this facility (megaliters/year)**

25.87

**Comparison of consumption with previous reporting year**

Lower

**Please explain**

Water reduction mainly was driven by water CI initiatives despite a production increase of 22.5 %

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**Facility reference number**

Facility 4

**Facility name (optional)**

Cape Town

**Country/Region**

South Africa

**River basin**

Berg-Olifants

**Latitude**

-33.9157

**Longitude**

18.577

**Total water withdrawals at this facility (megaliters/year)**

45.24

**Comparison of withdrawals with previous reporting year**

Lower

**Total water discharges at this facility (megaliters/year)**

23.07

**Comparison of discharges with previous reporting year**

Lower

**Total water consumption at this facility (megaliters/year)**

22.17

**Comparison of consumption with previous reporting year**

Lower

**Please explain**

Production activities influenced the increase in water withdrawal.

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**Facility reference number**

Facility 5

**Facility name (optional)**

Bad Oldesloe

**Country/Region**

Germany

**River basin**

Other, please specify

Schlei/Trave River Basin District)

**Latitude**

53.8009

**Longitude**

10.3983

**Total water withdrawals at this facility (megaliters/year)**

41.25

**Comparison of withdrawals with previous reporting year**

About the same

**Total water discharges at this facility (megaliters/year)**

27.54

**Comparison of discharges with previous reporting year**

About the same

**Total water consumption at this facility (megaliters/year)**

13.71

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Very insignificant differences.

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**Facility reference number**

Facility 6

**Facility name (optional)**

Dandenong

**Country/Region**

Australia

**River basin**

Other, please specify

South East Coast (Victoria) River Region

**Latitude**

-37.981

**Longitude**

145.215

**Total water withdrawals at this facility (megaliters/year)**

44.63

**Comparison of withdrawals with previous reporting year**

About the same

**Total water discharges at this facility (megaliters/year)**

26.23

**Comparison of discharges with previous reporting year**

About the same

**Total water consumption at this facility (megaliters/year)**

18.4

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Very insignificant differences.

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**Facility reference number**

Facility 7

**Facility name (optional)**

Notre Dame Bondeville

**Country/Region**

France

**River basin**

Seine

**Latitude**

49.4431

**Longitude**

1.0993

**Total water withdrawals at this facility (megaliters/year)**

118.2

**Comparison of withdrawals with previous reporting year**

Lower

**Total water discharges at this facility (megaliters/year)**

111.08

**Comparison of discharges with previous reporting year**

Higher

**Total water consumption at this facility (megaliters/year)**

7.12

**Comparison of consumption with previous reporting year**

Much lower

**Please explain**

Reductions are due to water conservation and reduction projects.

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**Facility reference number**

Facility 8

**Facility name (optional)**

Oss

**Country/Region**

Netherlands

**River basin**

Rhine

**Latitude**

51.6225

**Longitude**

5.1

**Total water withdrawals at this facility (megaliters/year)**

674.56

**Comparison of withdrawals with previous reporting year**

About the same

**Total water discharges at this facility (megaliters/year)**

958.98

**Comparison of discharges with previous reporting year**

Lower

**Total water consumption at this facility (megaliters/year)**

0

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Insignificant variances.

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**Facility reference number**

Facility 9

**Facility name (optional)**

Vitória

**Country/Region**

Brazil

**River basin**

Other, please specify  
Sao Mateus

**Latitude**

-20.3222

**Longitude**

-40.3381

**Total water withdrawals at this facility (megaliters/year)**



4.46

**Comparison of withdrawals with previous reporting year**

Higher

**Total water discharges at this facility (megaliters/year)**

0.27

**Comparison of discharges with previous reporting year**

About the same

**Total water consumption at this facility (megaliters/year)**

4.19

**Comparison of consumption with previous reporting year**

Higher

**Please explain**

Increase water consumption due to increased production activity.

---

**Facility reference number**

Facility 10

**Facility name (optional)**

Vallejo

**Country/Region**

Mexico

**River basin**

Panuco

**Latitude**

19.5018

**Longitude**

-99.1674

**Total water withdrawals at this facility (megaliters/year)**

148.06

**Comparison of withdrawals with previous reporting year**

Lower

**Total water discharges at this facility (megaliters/year)**

39.43

**Comparison of discharges with previous reporting year**

Lower

**Total water consumption at this facility (megaliters/year)**

108.63

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Lower usage of water due to the implementation of water conservation projects.

---

**Facility reference number**

Facility 11

**Facility name (optional)**

Beta

**Country/Region**

Kenya

**River basin**

Galana

**Latitude**

-1.2833

**Longitude**

36.8167

**Total water withdrawals at this facility (megaliters/year)**

25.25

**Comparison of withdrawals with previous reporting year**

Higher

**Total water discharges at this facility (megaliters/year)**

0.64

**Comparison of discharges with previous reporting year**

About the same

**Total water consumption at this facility (megaliters/year)**

24.61

**Comparison of consumption with previous reporting year**

Higher

**Please explain**

Increaser water consumption due to increased production activity.

**Facility reference number**

Facility 12

**Facility name (optional)**

Shelys

**Country/Region**

United Republic of Tanzania

**River basin**

Other, please specify  
Msimbazi

**Latitude**

-6.8235

**Longitude**

39.2695

**Total water withdrawals at this facility (megaliters/year)**

31.25

**Comparison of withdrawals with previous reporting year**

About the same

**Total water discharges at this facility (megaliters/year)**

3.27

**Comparison of discharges with previous reporting year**

About the same

**Total water consumption at this facility (megaliters/year)**

24.61

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Insignificant variances.

---

**Facility reference number**

Facility 13

**Facility name (optional)**

Sioux City

**Country/Region**

United States of America

**River basin**

Mississippi River

**Latitude**

43.5499

**Longitude**

-96.7003

**Total water withdrawals at this facility (megaliters/year)**

88.03

**Comparison of withdrawals with previous reporting year**

Higher

**Total water discharges at this facility (megaliters/year)**

82.03

**Comparison of discharges with previous reporting year**

Lower

**Total water consumption at this facility (megaliters/year)**

6

**Comparison of consumption with previous reporting year**

About the same

**Please explain**

Insignificant variances.

---

**Facility reference number**

Facility 14

**Facility name (optional)**

Kama

**Country/Region**

Ghana

**River basin**

Other, please specify

Densu River Basin

**Latitude**

5.556

**Longitude**

-0.1969

**Total water withdrawals at this facility (megaliters/year)**

101.62

**Comparison of withdrawals with previous reporting year**

Higher

**Total water discharges at this facility (megaliters/year)**

0

**Comparison of discharges with previous reporting year**

About the same

**Total water consumption at this facility (megaliters/year)**

101.62

**Comparison of consumption with previous reporting year**

Higher

**Please explain**

Insignificant variances.

## W5.1a

**(W5.1a) For each facility referenced in W5.1, provide withdrawal data by water source.**

---

**Facility reference number**

Facility 1

**Facility name**

Port Elizabeth

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

147.35

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 2

**Facility name**

East London

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

35.12

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 3

**Facility name**

Johannesburg

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

78.54

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 4

**Facility name**

Cape Town

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

45.24

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 5

**Facility name**

Bad Oldesloe

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

41.25

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 6

**Facility name**

Dandenong

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

44.63

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**



Facility 7

**Facility name**

Notre Dame Bondeville

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

118.2

**Produced/Entrained water**

0

**Third party sources**

0

**Comment**

Primary water source for this site is groundwater.

---

**Facility reference number**

Facility 8

**Facility name**

Oss

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

157.49

**Produced/Entrained water**

0

**Third party sources**

517.07

**Comment**

Water sourced from the Municipal supply and ground water.

---

**Facility reference number**

Facility 9

**Facility name**

Vitória

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

4.46

**Comment**

Water sourced from the Municipal supply

---

**Facility reference number**

Facility 10

**Facility name**

Vallejo

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

85.12

**Produced/Entrained water**

0

**Third party sources**

62.94

**Comment**

Water sourced from the Municipal supply and groundwater.

---

**Facility reference number**

Facility 11

**Facility name**

Beta

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

25.25

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 12

**Facility name**

Shelys

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

16.56

**Produced/Entrained water**

0

**Third party sources**

14.69

**Comment**

Water sourced from the Municipal supply and groundwater.

---

**Facility reference number**

Facility 13

**Facility name**

Sioux City

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

88.03

**Comment**

Water sourced from the Municipal supply.

---

**Facility reference number**

Facility 14

**Facility name**

Kama

**Fresh surface water, including rainwater, water from wetlands, rivers and lakes**

0

**Brackish surface water/seawater**

0

**Groundwater - renewable**

0

**Groundwater - non-renewable**

0

**Produced/Entrained water**

0

**Third party sources**

101.62

**Comment**

Water sourced from the Municipal supply.

**W5.1b**

**(W5.1b) For each facility referenced in W5.1, provide discharge data by destination.**

---

**Facility reference number**

Facility 1

**Facility name**

Port Elizabeth

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

116.72

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 2

**Facility name**

East London

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

33.34

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 3

**Facility name**

Nutritionals

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

52.67

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 4

**Facility name**

Fine Chemicals Corporation

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

23.07

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 5

**Facility name**

Bad Oldesloe

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

27.54

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 6

**Facility name**

Dandenong

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

26.23

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 7

**Facility name**

Notre Dame Bondeville

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

111.08

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 8

**Facility name**

Oss

**Fresh surface water**



0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

958.98

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 9

**Facility name**

Vitória

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

0.27

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 10

**Facility name**

Vallejo

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

39.43

**Comment**

Water discharged into Municipal systems and donated for reuse.

---

**Facility reference number**

Facility 11

**Facility name**

Beta

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

0.64

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 12

**Facility name**

Shelys

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

3.27

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 13

**Facility name**

Sioux City

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

82.03

**Comment**

Water discharged into Municipal systems.

---

**Facility reference number**

Facility 14

**Facility name**

Kama

**Fresh surface water**

0

**Brackish surface water/Seawater**

0

**Groundwater**

0

**Third party destinations**

0

**Comment**

Data not available at this stage.

## W5.1c

**(W5.1c) For each facility referenced in W5.1, provide the proportion of your total water use that is recycled or reused, and give the comparison with the previous reporting year.**

---

**Facility reference number**

Facility 1

**Facility name**

Port Elizabeth

**% recycled or reused**

1-10%

**Comparison with previous reporting year**

About the same

**Please explain**

Water recycling projects in place at this facility

---

**Facility reference number**

Facility 2

**Facility name**

East London

**% recycled or reused**

None

**Comparison with previous reporting year**

About the same

**Please explain**

Water recycling projects in place at this facility.

---

**Facility reference number**

Facility 3

**Facility name**

Johannesburg

**% recycled or reused**

1-10%

**Comparison with previous reporting year**

About the same

**Please explain**

Water recycling projects in place at this facility

---

**Facility reference number**

Facility 4

**Facility name**

Cape Town

**% recycled or reused**

Not monitored

**Comparison with previous reporting year**

**Please explain**

The site still benefitting from water conservation initiatives which were implemented in 2017.

---

**Facility reference number**

Facility 5

**Facility name**

Bad Oldesloe

**% recycled or reused**

Not monitored

**Comparison with previous reporting year**

**Please explain**

No new water recycling projects were implemented at this site.

---

**Facility reference number**

Facility 6

**Facility name**

Dandenong

**% recycled or reused**

None

**Comparison with previous reporting year**

About the same

**Please explain**

No new water recycling projects were implemented at this site.

---

**Facility reference number**

Facility 7

**Facility name**

Notre Dame Bondeville

**% recycled or reused**

None

**Comparison with previous reporting year**

About the same

**Please explain**

Water conservation projects underway at this site.

---

**Facility reference number**

Facility 8

**Facility name**

Aspen Oss (Netherlands)

**% recycled or reused**

Not monitored

**Comparison with previous reporting year**

**Please explain**

No new water recycling projects were implemented at this site.

---

**Facility reference number**

Facility 9

**Facility name**

Vitória

**% recycled or reused**

Not monitored

## Comparison with previous reporting year

### Please explain

No new water recycling projects were implemented at this site.

---

### Facility reference number

Facility 10

### Facility name

Vallejo

### % recycled or reused

11-25%

## Comparison with previous reporting year

Much higher

### Please explain

Water recycling projects in place at this facility.

---

### Facility reference number

Facility 11

### Facility name

Beta

### % recycled or reused

Less than 1%

## Comparison with previous reporting year

### Please explain

No new water recycling projects were implemented at this site.

---

### Facility reference number

Facility 12

### Facility name

Shelys

### % recycled or reused

Not monitored

## Comparison with previous reporting year

**Please explain**

No new water recycling projects were implemented at this site.

---

**Facility reference number**

Facility 13

**Facility name**

Sioux City

**% recycled or reused**

None

**Comparison with previous reporting year**

About the same

**Please explain**

About the same as last year.

---

**Facility reference number**

Facility 14

**Facility name**

Kama

**% recycled or reused**

Not monitored

**Comparison with previous reporting year**

**Please explain**

No new water recycling projects were implemented at this site.

## **W5.1d**

**(W5.1d) For the facilities referenced in W5.1, what proportion of water accounting data has been externally verified?**

**Water withdrawals – total volumes**

---

**% verified**

76-100

**What standard and methodology was used?**



AA1000AS

### **Water withdrawals – volume by source**

---

**% verified**

76-100

**What standard and methodology was used?**

AA1000AS

### **Water withdrawals – quality**

---

**% verified**

Not verified

**What standard and methodology was used?**

N/A

### **Water discharges – total volumes**

---

**% verified**

51-75

**What standard and methodology was used?**

The volume of water discharged is either estimated from calculations obtained from the service providers, or some sites have water meters to measure the quantities discharged.

### **Water discharges – volume by destination**

---

**% verified**

Not verified

**What standard and methodology was used?**

N/A

### **Water discharges – volume by treatment method**

---

**% verified**

Not verified

**What standard and methodology was used?**

N/A

### **Water discharge quality – quality by standard effluent parameters**

---

**% verified**

Not verified

**What standard and methodology was used?**

N/A

### **Water discharge quality – temperature**

---

**% verified**

Not verified

**What standard and methodology was used?**

N/A

### **Water consumption – total volume**

---

**% verified**

51-75

**What standard and methodology was used?**

Consumption is calculated as the amount withdrawn less amount discharged, however, discharges are not specifically measured but calculated in most facilities.

### **Water recycled/reused**

---

**% verified**

76-100

**What standard and methodology was used?**

AA1000AS

## **W6. Governance**

### **W6.1**

**(W6.1) Does your organization have a water policy?**

No, but we plan to develop one within the next 2 years

### **W6.2**

**(W6.2) Is there board level oversight of water-related issues within your organization?**

Yes

## W6.2a

**(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.**

Position of individual	Please explain
Other, please specify Board/Executive board	One of the five strategic objectives, approved by Aspen's Board, is "To practice good corporate citizenship". The Board is responsible for performance against this objective by considering both the financial aspects of the business and the impact that the business operations have on the economic, physical and social environments in which Aspen operates. Aligned to the Group's strategic objectives, the Board ratifies the Group's material sustainability Key Performance Indicators (KPIs) annually, which includes, inter alia "Preserving the environment" and "Managing the efficient utilisation of scarce resources". Achievement of the Group's strategic and related sustainability objectives are monitored on the basis of these approved KPIs. Aspen's Social and Ethics Committee (a subcommittee of the Board) is responsible for the governance of the Group's social, environmental, human rights and ethics responsibilities in accordance with the relevant regulations, guidelines, and recommendations.

## W6.2b

**(W6.2b) Provide further details on the board's oversight of water-related issues.**

	Frequency that water-related issues are a scheduled agenda item	Governance mechanisms into which water-related issues are integrated	Please explain
Row 1	Scheduled - some meetings	Monitoring implementation and performance Overseeing major capital expenditures Reviewing and guiding annual budgets Reviewing and guiding business plans Reviewing and guiding major plans of action	As per W6.2a) above, the Group's sustainability objectives and related KPI's are ratified by the Board on an annual basis. The Deputy Group CEO presents the Group's performance against these objectives and KPI's to the Board at each of its scheduled quarterly meetings. The Group's Executive Risk Forum (which comprises the Deputy Group CEO, the Group Chief Operating Officer and the Group Finance Officer) presents the top enterprise-wide risks to the Group Audit and Risk Committee at the scheduled quarterly meetings, after which the risk profile is included in this Committee's report to the Board. Should a significant climate-related risk be identified, the Board would review how the proposed risk mitigation has been considered in the business plan

		Reviewing and guiding risk management policies	of the impacted business unit, and any major capital expenditure needed to implement the proposed mitigation would be included in the review and approval processes, as needed.
--	--	--	---

## W6.3

**(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).**

---

**Name of the position(s) and/or committee(s)**

Chief Executive Officer (CEO)

**Responsibility**

Both assessing and managing water-related risks and opportunities

**Frequency of reporting to the board on water-related issues**

As important matters arise

**Please explain**

The Group Chief Executive and the Deputy Group Chief Executive are responsible for developing and implementing a sustainable growth strategy aligned to the strategic objectives set by the Board. They are accountable to the Board and report on a quarterly basis on the implementation of the strategy and the performance against the Board KPI's. They are also responsible for ensuring effective risk management and reporting processes are maintained across the Group. While "water used" is a Board KPI that is routinely reported on a quarterly basis, material water risks are included in Board reports as they arise. Should a significant climate or water-related risk be identified, the Board would review how the proposed risk mitigation has been considered in the business plan of the impacted business unit, and any major capital expenditure needed to implement the proposed mitigation would be included in the review and approval processes, as needed.

---

**Name of the position(s) and/or committee(s)**

Other committee, please specify  
Executive Risk Forum

**Responsibility**

Both assessing and managing water-related risks and opportunities

**Frequency of reporting to the board on water-related issues**

As important matters arise

**Please explain**

The responsibility for climate and water-related issues in the first instance lies with the Site Head, who is responsible for developing and executing the business unit strategy in alignment with the overall Group strategy. The Site Head is responsible for conducting a site risk assessment, including climate and water-related risks and for driving performance aligned to the Group's KPI's. Site Heads report operational aspects through the Group Executives to the Group Chief Executive and Deputy Group Chief Executive, who ensure strategic alignment across the Group's operations. In respect of enterprise risk management, significant and material risks are reported by the Site Heads to the Executive Risk Forum (comprised of the Deputy Chief Executive, the Group Operating Officer and the Group Finance Officer) who then present the top enterprise-wide risks to the Group Audit and Risk Committee at the scheduled quarterly meetings, after which the risk profile is included in the Board pack.

---

**Name of the position(s) and/or committee(s)**

Other C-Suite Officer, please specify  
Group Operations Officer

**Responsibility**

Both assessing and managing water-related risks and opportunities

**Frequency of reporting to the board on water-related issues**

As important matters arise

**Please explain**

The Group Operating Officer is responsible for Group SHE and the related environmental policies. This Executive provides technical input in respect of environmental KPI's of the Group and risk mitigation strategies, where appropriate. This Executive is also a member of the Executive Risk Forum. Group SHE reports to the Social and Ethics Committee on a quarterly basis on the Group's regulatory compliance in respect of SHE and adherence to the Group's own SHE standards.

## W6.5

**(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?**

Yes, other

## W6.5a

**(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?**

Aspen's strategic objective, "To practise good corporate citizenship", supports the Group's objectives around climate change and responsible environmental management. To this end, Aspen's sustainability management initiatives promote the themes of "Preserving our environment" and "Managing efficient utilisation of scarce resources". These initiatives are


monitored by material key performance indicators, including water consumption, which are reported to the Board. These indicators flag areas of risks and opportunities within the environmental management systems and programmes. Aspen’s business strategy is defined at a Board level and the Board is made aware of potential climate change risks and opportunities via existing reporting channels e.g. Audit & Risk Committee, Social & Ethics Committee and the Executive Risk Forum. Aspen’s Group Environmental Management Principles formally describes the Group’s commitment to “Promoting the efficient use of resources such as energy, water, paper and production materials with due regard to the scarcity of natural resources and the environmental impact resulting from the utilisation and application of such resources in conducting our business activities”.

## W6.6

**(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?**

Yes (you may attach the report - this is optional)

 Aspen-2018-Integrated-Report.pdf

 Aspen-2018-Sustainability-Data-Supplement.pdf

## W7. Business strategy

### W7.1

**(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?**

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	5-10	The Group’s strategic objective “To practice good corporate citizenship” incorporates the sustainability objectives of “preserving the environment” and “managing the efficient utilisation of scarce resources”. Water and water related risks are an integral part of these stated business objectives.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	The sustainability of our manufacturing plants to support the Group’s business objectives are considered in the longer term capacity planning and the related capital investment planning which is required to achieve the required capacity. For example, the availability of water to support the planned expansion of manufacturing operations at our Port Elizabeth site is

			an important factor integrated into the longer-term capacity planning for this site.
Financial planning	Yes, water-related issues are integrated	5-10	While the Group's formal financial planning tends not to extend beyond 5 years, the required investment to support manufacturing capacity (some of which will be related to sustainability of required water supply) are considered and will influence capital allocations.

## W7.2

**(W7.2) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?**

Row 1

**Water-related CAPEX (+/- % change)**

0

**Anticipated forward trend for CAPEX (+/- % change)**

0

**Water-related OPEX (+/- % change)**

0

**Anticipated forward trend for OPEX (+/- % change)**

0

**Please explain**

Note: The data is not readily available as Aspen currently does not have the mechanism in place to record spend related specifically to water.

## W7.3

**(W7.3) Does your organization use climate-related scenario analysis to inform its business strategy?**

	Use of climate-related scenario analysis	Comment
Row 1	No, but we anticipate doing so within the next two years	We are still exploring the most relevant approach for our business.

## W7.4

**(W7.4) Does your company use an internal price on water?**

Row 1

**Does your company use an internal price on water?**

No, but we are currently exploring water valuation practices

**Please explain**

Not in place at this stage.

## W8. Targets

### W8.1

**(W8.1) Describe your approach to setting and monitoring water-related targets and/or goals.**

	Levels for targets and/or goals	Monitoring at corporate level	Approach to setting and monitoring targets and/or goals
Row 1	Site/facility specific targets and/or goals	Targets are monitored at the corporate level	Water is a vital resource in our manufacturing processes. Water scarcity is a global risk and one that we have increasingly being exposed to. As a scarce resource, and in line with our Environmental Management Principles, we are committed to using water responsibly by implementing feasible water conservation and recycling projects. All Aspen sites are responsible for measuring and reporting all the water consumed and water discharged from the site. This creates a practical base for setting effective SMART (Specific, Measureable, Achievable, Relevant and Time bound) projects to reduce water consumption.

### W8.1a

**(W8.1a) Provide details of your water targets that are monitored at the corporate level, and the progress made.**

**Target reference number**

Target 1

**Category of target**

Water use efficiency

**Level**

Site/facility

**Primary motivation**

Cost savings

**Description of target**



Port Elizabeth: Water conservation through the reduction of RO Water reject rate by auto setting on RO Plant to run intermittently thereby reducing the volume of reject water.

**Quantitative metric**

% reduction of water withdrawals from municipal supply

**Baseline year**

2013

**Start year**

2018

**Target year**

2018

**% achieved**

100

**Please explain**

Projects completed in June 2018.

---

**Target reference number**

Target 2

**Category of target**

Water recycling/reuse

**Level**

Site/facility

**Primary motivation**

Reduced environmental impact

**Description of target**

Recycling and reuse of water in site utilities. This was implemented at sites in Nairobi, Kenya, and Johannesburg.

**Quantitative metric**

% increase in water recycling/reuse

**Baseline year**

2018

**Start year**

2018

**Target year**

2018

**% achieved**

100

**Please explain**

Projects completed in June 2018.

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**Target reference number**

Target 3

**Category of target**

Water discharge

**Level**

Site/facility

**Primary motivation**

Reduced environmental impact

**Description of target**

Modification or optimization of equipment used for water discharge operation at the facility in France.

**Quantitative metric**

Other, please specify  
Reduction of water discharge

**Baseline year**

2018

**Start year**

2018

**Target year**

2018

**% achieved**

100

**Please explain**

Project implementation completed.

## W9. Linkages and trade-offs

### W9.1

**(W9.1) Has your organization identified any linkages or tradeoffs between water and other environmental issues in its direct operations and/or other parts of its value chain?**

No

### W9.1b

**(W9.1b) Why has your organization not identified any linkages or tradeoffs between water and other environmental issues?**

	Primary reason	Please explain
Row 1	Not considered, and we have no plans to do so	Not considered at this stage

## W10. Verification

### W10.1

**(W10.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1d)?**

No, we do not currently verify any other water information reported in our CDP disclosure

## W11. Sign off

### W-FI

**(W-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.**

No additional information.

### W11.1

**(W11.1) Provide details for the person that has signed off (approved) your CDP water response.**

	Job title	Corresponding job category
Row 1	Group Risk Sustainability Manager	Environment/Sustainability manager

## W11.2

**(W11.2) Please indicate whether your organization agrees for CDP to transfer your publicly disclosed data on your impact and risk response strategies to the CEO Water Mandate’s Water Action Hub [applies only to W2.1a (response to impacts), W4.2 and W4.2a (response to risks)].**

No

## SW. Supply chain module

### SW0.1

**(SW0.1) What is your organization’s annual revenue for the reporting period?**

	Annual revenue
Row 1	42,595,621,589

### SW0.2

**(SW0.2) Do you have an ISIN for your organization that you are willing to share with CDP?**

Yes

### SW0.2a

**(SW0.2a) Please share your ISIN in the table below.**

	ISIN country code	ISIN numeric identifier (including single check digit)
Row 1	ZA	ZAE0000666

### SW1.1

**(SW1.1) Have you identified if any of your facilities reported in W5.1 could have an impact on a requesting CDP supply chain member?**

We do not have this data but we intend to collect it within two years

### SW1.2

**(SW1.2) Are you able to provide geolocation data for your site facilities?**

Yes, for some facilities

### SW1.2a

**(SW1.2a) Please provide all available geolocation data for your site facilities.**

Identifier	Latitude	Longitude	Comment
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Facility 10	19.5018	-99.1674	Facility is Aspen Vallejo in Mexico.
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## SW2.1

**(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.**

## SW2.2

**(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?**

No

## SW3.1

**(SW3.1) Provide any available water intensity values for your organization's products or services across its operations.**

**Product name**

Not available for disclosure at this stage

**Water intensity value**

0

**Numerator: Water aspect**

**Denominator: Unit of production**

Not available for disclosure at this stage

**Comment**

Not available for disclosure at this stage.

## Submit your response

**In which language are you submitting your response?**

English

**Please confirm how your response should be handled by CDP**

	Public or Non-Public Submission	I am submitting to	Are you ready to submit the additional Supply Chain Questions?
I am submitting my response	Public	Investors Customers	Yes, submit Supply Chain Questions now

**Please confirm below**

I have read and accept the applicable Terms