

Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

SITE DETAILS

Site: Avary Holding (Shenzhen) Co. Ltd

Address: Songluo Road, Yanchuan Community, Yan Luo Subdistrict, 518100, Shenzhen, Guangdong, CHINA

Contact Person: Qian Li

AWS Reference Number: AWS-000044

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status:

Date of certification decision: -4714-Dec-31

Validity of certificate: -4714-Dec-31

AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)

Audit Type(s): Re-Certification Audit

Audit Start Date: 2022-Nov-07

Lead Auditor: Ian Jiang (TUV Rheinland)

Audit team participants: Lingyun Yu (TUV Rheinland)

Site Participants:

Jing Yang, Sustainability Manager Qian Li, Leaf Sustainability Cong Xu, Site Engineer Fu Zhu, Site Engineer Zhi Ying Hu, Factory Engineer

TUV Rheinland (Guangdong) Ltd.



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ADDITIONAL INFO

Summary of Audit Findings: A total of three findings were raised during the certification audit, nil major non-conformity, one minor non-conformity, two observations.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 30 days of receipt of the audit report by 03/03/2023. Minor non-conformities must be closed out by the time of the next annual audit.

The audit team recommends re-certification of Avary Holding(Shenzhen) CO. Ltd at Platinum level pending approval of the corrective actions plan.

The site has prepared a corrective action plan for all non-conformities raised. The implementation of the corrective action plan will be assessed at the next surveillance audit. All non-conformities were addressed, however, one minor non-conformity remain open, as outstanding evidence shall be reviewed at the next surveillance audit.

Scope of Assessment: The scope of services covers the recertification audit for assessing conformity of Avary Holding (Shenzhen) Co.,Ltd against the AWS International Water Stewardship Standard Version 2.

Established in 1999, Avary Shenzhen is mainly engaged in the design, research and development, manufacture, and sales of various kinds of printed circuit boards. These finished products and components are widely applied to various types of communications, computing, consumer products, automotive electronics and medical care. It located at Songluo Road, Yanchuan Community, Yanluo Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China and has about 12000 employee currently.

The facility is located in the Mao Zhou River Basin (sub-catchment) and Dongjiang River Basin (Main catchment).

The audit was conducted remotely on 7th to 10th November 2022, due to the travel restriction of Covid-19. The remote site visit included the assessment of virtually site visit of production lines, wastewater treatment plant, IWRA, stakeholder interviews and meetings to identify documents submitted as evidence.

SCORE

110.00

FINDINGS

NUMBER OF FINDINGS PER LEVEL Observation 2 Minor 1



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FINDING DETAILS

Finding No: TNR-002532

Checklist Item No: 1.2.1

Status: For information Finding level: Observation

Checklist item: Stakeholders and their water-related challenges shall be identified. The

process used for stakeholder identification shall be identified. This process

shall:

- Inclusively cover all relevant stakeholder groups including vulnerable,

women, minority, and Indigenous people;

- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or

bodies

- Provide evidence of stakeholder consultation on water-related interests and

challenges;

- Note that the ability and/or willingness of stakeholders to participate may

vary across the relevant stakeholder groups;

- Identify the degree of stakeholder engagement based on their level of

interest and influence.

Findings: Some questions in the stakeholder questionnaire were not updated in time

(which did not affect the relevant parties to fill in).

Finding No: TNR-002130

Checklist Item No: 3.7.1

Status: For information Finding level: Observation

Checklist item: Evidence that indirect water use targets set in the water stewardship plan, as

applicable, have been met shall be quantified.

Findings: OB:

Avary Shenzhen has assessed the water risk of suppliers through factors such as water risk in the basin where suppliers are located, water intensity of suppliers, pollution intensity, etc. It is suggested that the site take further action based on the water risk assessment results and cooperate with

suppliers to improve their water management performance

Corrective action: N/A



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Finding No: TNR-002533

Checklist Item No: 5.4.1

Status: In Progress - CA plan approved

Finding level: Minor

Checklist item: The site's shared water-related challenges and efforts made to address these

challenges shall be disclosed.

Findings: Avary holding has identified 8 shared water challenges, however, only 3 of

them were disclosed on the official website.

Corrective action: Root cause:

A total of 8 shared water challenges were identified, but only the top 3 were

disclosed in the company website.

Corrective action: In next year, the company website will disclose all identified

shared water challenges.



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Report Details	
Report	Value
Report prepared by	Lingyun Yu (TUV Rheinland)
Report approved by	Mia Antoni-Naidoo
Report approved on (Date)	3 February 2023
Surveillance	

Proposed date for next audit

2023-Nov-07

Stakeholder Announcements

Date of publication	Location
2022-Oct-07	https://a4ws.org/wp-content/uploads/2022/11/ AWS-00044-Avary-Holding-2022-Stakeholder-Ann ouncement-1.pdf
2022-Oct-07	https://www.tuv.com/content-media-files/greate r-china/about-us/downloads/aws-stakeholder-an nouncement-tuvgd-avary-holding-(shenzhen)-coltd%E9%B9%8F%E9%BC%8E%E6%8E%A7%E8%8 2%A1%EF%BC%88%E6%B7%B1%E5%9C%B3%EF%BC%89%E8%82%A1%E4%BB%BD%E6%9C%89%E9%99%90%E5%85%AC%E5%8F%B8.pdf
2022-Oct-24	WSAS Website



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Catchment Information

Catchment Information

Based on Shenzhen Water Group, Shenzhen's water supply mainly relies on water diversion. At present, two water diversion projects have been put into operation in Shenzhen including Dongshen (from Dongjiang River to Shenzhen) Water Supply Project and East Shenzhen Water Resource Supply Project. The diversion water is introduced into reservoirs located in Shenzhen and becomes into Shenzhen's tap water sources. Avary only uses municipal tap water, supplied by Songgang Water Supply Co., Ltd. which operates two water plants including Songgang Water Plant and Wizhiba Water Plant. The water source of Songgang Water Plant comes from Luotian Reservoir . The water source of Wuzhiba Water Plant comes from Shiyan Reservoir.

After onsite treatment, the treated effluent is discharged into municipal sewage pipeline network, and flows into Songgang Water Purification Plant for further treatment. The effluent is discharged into Yangyong River, the upper reaches of Maozhou River, and finally flows into Lingdingyang Bay at Mingzhu Village.

Rainwater is separated from wastewater and flows into the box culvert installed at upper and middle reaches of the Maozhou River, and then enters into Yanluo Wetland Park for further purification. Finally, the purified rainwater returns back to nearby watercourses which connect with the Maozhou River.

The Maozhou River basin is a sub basin of the Dongjiang River basin, and is one of the main drainage outlets flowing into the lower reaches of the Pearl River estuary. Maozhou River is the largest river in Shenzhen, and it is located in the northwest corner of Shenzhen, belongs to Bao'an District, and borders Dongguan City. It originates from the north foot of Yangtai Mountain in Shenzhen, including Dabi River, Yangchong River, Maozhou River and Dongbao River. The river channel flows from southeast to northwest through Shiyan Street, Guangming Street, Gongming Street, Songgang Street, Shajing Street and Chang'an Town in Dongguan City, and then flows into Lingding Ocean at Shajing Village. The main stream of Maozhou River has a total length of 41.61km, of which the middle and upper reaches of the main stream are 19.3km long and the lower reaches of Bao'an and Chang'an Town of Dongguan are 10.2km long. The drainage area of Maozhou River is 398.13km2, including 310.85km2 in Shenzhen and 81.8km2 in Bao'an. There are 41 tributaries of Maozhou River in Shenzhen, including one main stream, 23 primary tributaries and 17 secondary and tertiary tributaries.

Client Description and Site Details

Client/Site Background

Established in 1999, Avary Shenzhen is mainly engaged in the design, research and development, manufacture, and sales of various kinds of printed circuit boards. These finished products and components are widely applied to various types of communications, computing, consumer products, automotive electronics and medical care. It located at Songluo Road, Yanchuan Community, Yanluo Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China and has about 12000 employee currently. Avary's domestic and production water comes from municipal tap water, supplied by Songgang Water Supply Co., Ltd. which operates two water plants including Songgang Water Plant and Wizhiba Water Plant. Avary's wastewater treatment system consists of water reuse treatment facilities, domestic sewgage treatment facilities and industrial wastewater treatment station. The treated effluent is discharged into municipal sewage pipeline network, and flows into Songgang Water Purification Plant for further treatment. The effluent is discharged into Yangyong River, the upper reaches of Maozhou River, and finally flows into Lingdingyang Bay at Mingzhu Village.



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Summary of Shared Water Challenges

Summary of Shared Water Challenges

Avary faced with follow shared water challenges:

- 1. Priority as high, the standard for treatment and discharge of production wastewater are becoming higher and higher
- 2. Priority as high, risk of soil and groundwater contamination
- 3. Priority as high, water quality deterioration in the basin
- 4.Priority as medium, environmental purification, maintenance and management costs around the basin
- 5. Priority as medium, increasing water resource tension
- 6. Priority as medium, extreme climate change such as flooding
- 7. Priority as low, insufficient infrastructure, such as monitoring equipment and pipe network
- 8. Priority as low, fragile ecosystem

0.1	General Requirements for Single Sites, Multi-Sites and Groups	
0.1.1	Eligibility Criteria	
0.1.1.1	The site(s) occupy one catchment OR an exception has been granted.	✓ Yes
0.1.1.2	The scope of the proposed certification shall be under the control of a single management system.	⊘ Yes
0.1.1.3	The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.	Yes



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1 **STEP 1: GATHER AND UNDERSTAND** 1.1 Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant. 1.1.1 The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including: Ves - Site boundaries; - Water-related infrastructure, including piping network, owned or managed by the site or its parent organization; - Any water sources providing water to the site that are owned or managed by the site or its parent organization; - Water service provider (if applicable) and its ultimate water source; - Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies; - Catchment(s) that the site affect(s) and is reliant upon for water. Maps showing the physical scope of the site are available, including: Comment • Map of site boundaries with entry point of water supply and discharge points of wastewater and rainwater. The site presents a triangular shape with the following surroundings: South: Songfu Road; North: Yangyong River; and West: Yanluo Road • Map of water-related infrastructures at the site such as wastewater treatment station, fire pool and emergency pool. • Map of water service provider and its ultimate water source, and waste water service provider and its ultimate receiving water body. • Map of catchment that the site affects and is reliant upon for water. 1.2 Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries. 1.2.1 Stakeholders and their water-related challenges shall be identified. The process used for Q stakeholder identification shall be identified. This process shall: Ohs. - Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people; - Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies; - Provide evidence of stakeholder consultation on water-related interests and challenges; - Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups; - Identify the degree of stakeholder engagement based on their level of interest and influence.

WSAS WATER STEWARDSHIP ASSURANCE SERVICES

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Comment

The subject of Identification, Evaluation and Control of Environment, Energy Risks and Opportunities specified in Avary Shenzhen's Environment, Health and Safety Management System (with Document No.: ST-3B0-001EFH) elaborates the process used for stakeholder identification and the communication channels with identified different stakeholders.

The process has taken into consideration the identification of following stakeholders:

- Stakeholders that have close relationship with Avary Shenzhen's business and have influence on Avary Shenzhen's economic, environmental and social performance;
- Stakeholders located in Avary Shenzhen's physical scope and the catchment that Avary Shenzhen affects and is reliant upon for water;
- Vulnerable people, indigenous peoples and ethnic minorities;
- Stakeholders that are disclosed by Avary Shenzhen's same industry.

A process for the communication with internal and external stakeholders has been also defined in Avary Shenzhen's Environment, Health and Safety Management System (with Document No.: ST-3B0-001EFH). Through stakeholder consultation, Avary Shenzhen analysed water-related interests and challenges presented by different stakeholders. The degree of stakeholder engagement was also identified.

1.2.2 Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.



Yes

- **1.3** Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.
- **1.3.1** Existing water-related incident response plans shall be identified.



Yes

Comment

Avary Shenzhen has developed a series of water-related incident response plans, including:

- Environmental Emergency Response Plan covering leakage accident, non-compliance of wastewater discharge because of failure of wastewater treatment station, banned discharged by local municipal wastewater treatment plant, soil contamination;
- Process for Natural Disaster Emergency Preparedness and Response covering typhoon, rainstorm, etc.;(SG-3B0-294)
- Process for Preparedness and Response of EHS Emergency covering fire, chemical leakage, etc.; (SG-3B0-346EFH)
- Emergency Response for Abnormal or Suspension of Water Supply;
- Special Emergency Response Plan for El Niño.

Avary Shenzhen has updated its Environmental Emergency Response Plan and registered it at Shenzhen Municipal Ecology and Environment Bureau on 21 January 2020 with the registration No.: 440306-2020-0051-M.

1.3.2 Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped



Comment

A volumetric balance of water input and output is identified and mapped by Avary Shenzhen on a monthly basis. Its analysis of water balance complies with the "General Principles of Water Balance Test in Enterprises (GB/T12452-2008)", a China national standard.

1.3.3 Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.



Yes



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Comment

Avary Shenzhen has established a large database for water balance, and monthly variance in water usage is identified and mapped.

- Total usage of tap water;
- Tap water consumption for domestic purpose;
- Tap water consumption for production purpose;
- Tap water consumption for auxiliary equipment;
- Water recycling: Treatment of industrial wastewater;
- Discharge of industrial wastewater;
- Treatment of domestic sewage;
- Discharge of domestic sewage;
- · Variances.

In addition, a trend chart of different water volume was also provided for review.

1.3.4

Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.



Comment

Avary Shenzhen has developed a secondary water supply and wastewater monitoring program, which specifies:

- Secondary water supply is tested by a qualified third-party twice a year.
- Wastewater is tested by a qualified third party once a month.
- Domestic sewage is tested a qualified third party once a year.
- Rainwater is tested a qualified third party twice a year.

Self-testing for wastewater is conducted four times a day.

In addition, on-line monitoring devices had been installed at the outlet of treated effluent and networked with local environmental protection authority.

Although Avary Shenzhen does not extract groundwater or directly recharge groundwater, cooperating with local environmental protection authority, it has drilled 4 permanent wells and 15 boreholes at the site to monitor groundwater quality twice a year and soil quality once a year.

We randomly sampled the testing reports, and all testing results fully complied with relevant national or local standards.

1.3.5

Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.



Comment

Avary Shenzhen has identified potential sources of pollution such as chemical storage and usage, sludge storage at wastewater treatment station and storage of hazardous waste, and relevant measures to prevent and control contamination have been taken including strengthening management, establishment of secondary containment and emergency response, installation of liquidometer at rainwater discharge outlet. In addition, Avary Shenzhen has mapped the identified potential sources of pollution.

1.3.6

On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.



Comment

There are no Important Water-Related Areas on the site.

1.3.7

Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.



Comment

We reviewed the cost analysis of Avary Shenzhen's water stewardship, which is divided into three categories including water cost for domestic use, water cost for production use and cost for sludge treatment. The water cost for production use covers recycled water, filtered water, soft water, RO water, purified water and wastewater.

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1.3.8 Levels of access and adequacy of WASH at the site shall be identified.



Yes

Comment

Avary Shenzhen provides dormitories and canteen for employees. Bathrooms and water purifiers are installed for all dormitories. Sanitation and hygiene installations and water purifiers are also installed at office buildings and all workshops. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010). To ensure drinking water safety, Avary Shenzhen has developed a "Process for Drinking Machine Management" and a "Process for the Maintenance of Drinking Water Machine System", which specify the requirements of routine maintenance, cleaning standards and drinking water quality monitoring on a yearly basis. To prevent the epidemic of COVID-19, Avary Shenzhen had newly installed some WASH facilities, including hand sanitizer and paper towels installed at all hand washing sinks, mother-and-baby room, signs of seven-step hand-washing method, auto-induction sterilizers and hands-washing-free disinfectants installed at the entrance of workplaces.

Gather data on the site's indirect water use, including: its primary inputs; the water use embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be identified); and water used in out-sourced water-related services.

1.4.1 The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.



Comment

Avary Shenzhen has established a list of product suppliers within the site's catchment covering suppliers of main materials, suppliers of chemicals, suppliers of consumables and suppliers of accessories, and analysed the intensity of water consumption and water pollution based on their water quantity and quality. Meanwhile, by using WWF's map of water risk filter, Avary Shenzhen has also analysed the water related risk level in the catchment where its suppliers are located.

1.4.2 The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.



Comment

A list of outsourced services within the site's catchment has been established by Avary Shenzhen. Meanwhile, the intensity of water consumption and water pollution has been analysed based on their water quantity and quality. Based on the investigation, the outsourced services mainly include the treatment and disposal of solid waste, the treatment of discharged effluent. Moreover, Avary shen also has the cleaning and catering service providers which used the water within

1.4.3 Advanced Indicator



The embedded water use of primary inputs in catchment(s) of origin shall be quantified.

Comment

Avary Shenzhen has identified embedded water use of primary inputs in catchment of origin including product suppliers and outsourced services and analysed the intensity of water consumption and water pollution based on their water quantity and quality. Meanwhile, by using WWF's map of water risk filter, Avary Shenzhen has also analysed the water related risk level in the catchment where its suppliers and outsourced service providers are located.

Score 7

1.5 Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH

1.5.1 Water governance initiatives shall be identified, including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.





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Comment

Avary Shenzhen has established a "Legal Knowledge Network", by which Avary Shenzhen can identify the catchment plan(s), water-related public policies and major publicly-led initiatives in a timely manner and help it to know possible opportunities for water stewardship collective action. We reviewed Avary Shenzhen's Legal Knowledge Network. In addition, the update water governance initiatives have been included in the Background Report for Water Risks, Opportunities and Challenges of Shenzhen Maozhou River Catchment 2022.

1.5.2

Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.



Comment

By using its "Legal Knowledge Network", Avary Shenzhen has identified applicable water-related legal and regulatory requirements and a Form for Compliance Evaluation of Laws and Regulations has been developed. We reviewed Avary Shenzhen's Evaluation Report for Compliance with Laws and Regulations in the First Half of 2022. The evaluation results demonstrated Avary Shenzhen's compliance.

1.5.3

The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.



Yes

Comment

The Report of Background Information for Water Risks, Opportunities and Challenges of Maozhou River Catchment provides a detailed analysis of water balance for the catchment. The water balance in the catchment is analysed based on the rainfall (mm), precipitation (m3), surface water resources (m3), groundwater resources(m3), water diversion (m3), total water supply (m3) and total water consumption(m3). The update data in the Bulletin of Water Resources in Pearl River Catchment, the Bulletin of Water Resources in Shenzhen and the Bulletin of Water Resources in Baoan District of Shenzhen published in 2020, 2020 and 2018 are adopted. Based on the report, water used in Shenzhen mainly relies on water diversion, which is introduced into Shenzhen's two reservoirs including Luotian Reservoir and Shiyan Reservoir.

1.5.4

Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.



Yes

Comment

The Report of Background Information for Water Risks, Opportunities and Challenges of Maozhou River Catchment has identified and quantified water quality of the catchment including coastal water, major rivers and water sources. The water quality of all national and provincial monitoring sections installed at the rivers within Shenzhen had improved water quality levels. The monitoring results of Maozhou River in 2020 also showed that the pollution index of main pollutants have dropped and the water quality tends to get better. In addition, based on the document review, the water quality of water supply plants in Shenzhen is tested on a monthly basis, and the water quality fully meets the national standards. The testing results are disclosed through the website of Shenzhen Water Group: https://www.waterchina.com/test/report/2022/index.html

1.5.5

Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.



Comment

The Report of Background Information for Water Risks, Opportunities and Challenges of Maozhou River Catchment has collected the "Conservation Plan for Ecological Red Line Areas of Guangdong Province" and the "Basic Ecological Control Line of Shenzhen", which identified the Important Water-Related Areas in the catchment. Avary Shenzhen is not located within the Ecological Red Line Areas or the Basic Ecological Control Line.

The site also provides the Environmental Impact Assessment Report, which has screened the neighbor area, and no water-related environmental sensitive area around the site.

Therefore, it deems that the identification of the Important Water-Related Areas is sufficient.

1.5.6

Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.



Yes

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Comment The Report of Background Information for Water Risks, Opportunities and Challenges of Maozhou River

Catchment elaborates the existing and planned water-related infrastructure including water supply, flood control and drainage, wastewater treatment, emergency response at provincial, catchment and city levels and water-related objectives. Based on the available information, the water-related

infrastructure in the catchment is relatively good.

1.5.7 The adequacy of available WASH services within the catchment shall be identified.

O

Yes

Comment Shenzhen is one of the most developed city in China, and the adequacy of available WASH services

within the catchment is also in a leading position in China. According to Shenzhen Statistical Yearbook in 2021: • Rate of Urban Drinking Water Quality Reaching Standard: 100% • Rate of Treatment of City Domestic Wastewater: 98.28% • Rate of Treatment of Municipal Solid Wastes: 100%

The WASH status is satisfied.

1.5.8 Advanced Indicator

lacksquare

Efforts by the site to support and undertake catchment level water-related data collection

shall be identified.

Yes

Avary Shenzhen is adjacent to the Yangyong River, the upper reaches of Maozhou River. To better understand the water quality of Yangyong River, Avary Shenzhen has been testing the river's water quality on a monthly basis since 2013. Two monitoring points are selected and respectively located at

1,000m downstream and upstream far away from the site. The testing parameters consist of pH, total copper, total nickel, TP, COD and NH3-N. Every year, Avary Shenzhen entrusts a qualified third party to test water quality of the Yangyong River and shares the testing results with local environmental

Since 2014, Avary Shenzhen has set up four monitoring points at a drainage ditch near the site and tested parameters of pH, total copper, TP, COD and NH3-N on a monthly basis. The ditch also flows into the Yangyong River.

Although Avary Shenzhen does not extract groundwater or directly recharge groundwater, cooperating with local environmental protection authority, it has drilled 6 permanent wells at the site to monitor groundwater quality twice a year. A qualified third party is entrusted to conduct the testing of groundwater quality, and a total of 35 parameters are detected for groundwater.

We reviewed the self-testing database and third party testing reports during the audit.

Score 7

1.5.9 Advanced Indicator



The adequacy of WASH provision within the catchments of origin of primary inputs shall be

identified.

Comment Avary Shenzhen has identified adequacy of WASH provision within the catchments of origin of primary

inputs including the coverage of safety drinking water supply, the coverage of wastewater treatment, the rate of security disposal of municipal solid waste, and public facilities and environmental sanitation

in urban districts.

Score 4

1.6 Understand current and future shared water challenges in the catchment, by linking the water

challenges identified by stakeholders with the site's water challenges.

1.6.1 Shared water challenges shall be identified and prioritized from the information gathered.



Yes



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Comment	The Rep	ort of Ba	ckground	Information	for Water	Risks,	Opportunities and	Challenges of Maozho	u River

Catchment identifies 8 shared challenges in the catchment, including:

1. The standard for treatment and discharge of production wastewater are becoming higher and higher

2.Risk of soil and groundwater contamination 3Water quality deterioration in the basin

4. Environmental purification, maintenance and management costs around the basin

5.Increasing water resource tension6.Extreme climate change such as flooding

7.Insufficient infrastructure, such as monitoring equipment and pipe network

8. Fragile ecosystem

Meanwhile, based on the analysis of relevance/rationale for stakeholders and relevance/rational for

the site, Avary Shenzhen has prioritized the shared challenges.

1.6.2 Initiatives to address shared water challenges shall be identified.



Comment Initiatives to address shared water challenges have been also identified in the List of Shared Water

Challenges in the Catchment.

1.6.3 Advanced Indicator

Future water issues shall be identified, including anticipated impacts and trends



Comment The site has not performed this indicator.

1.6.4 Advanced Indicator

Potential water-related social impacts from the site shall be identified, resulting in a social

impact assessment with a particular focus on water.

Yes

Comment Avary Shenzhen has identified its potential water-related social impacts and developed a social impact

assessment report, which consists of the following chapters:

• Analysis of Economic Benefit;

Analysis of Social Benefit;

• Impacts on Water Resources;

• Wastewater and Environmental Impacts; and

Public Engagement.

Score 4

1.7 Understand the site's water risks and opportunities: Assess and prioritize the water risks and

opportunities affecting the site based upon the status of the site, existing risk management

plans and/or the issues and future risk trends identified in 1.6.

1.7.1 Water risks faced by the site shall be identified, and prioritized, including likelihood and

severity of impact within a given timeframe, potential costs and business impact.



Comment Avary Shenzhen has identified its water risks in 12 respects covering water governance, sustainable

water balance and water quality. Based on risk analysis, Avary Shenzhen has prioritized its water risks according to potential impact, likelihood within a given time and difficulty of detection. Meanwhile,

corresponding response strategies to mitigate water risks are developed.

1.7.2 Water-related opportunities shall be identified, including how the site may participate,

assessment and prioritization of potential savings, and business opportunities.



1.8 Understand best practice towards achieving AWS outcomes: Determining sectoral best

practices having a local/catchment, regional, or national relevance.

1.8.1 Relevant catchment best practice for water governance shall be identified.



Yes

TUV Rheinland (Guangdong) Ltd.



Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

Comment

Avary Shenzhen has identified relevant catchment best practice for water governance including:

- A comprehensive water stewardship plan that is routinely reviewed and updated;
- Designating responsibility for water stewardship to senior staff;
- Training of all employees on the principles of water stewardship;
- Engaging with peer organizations and stakeholders to promote water stewardship;
- Demonstrating its support for good water governance and stewardship with appropriate authorities;
- Communicating on its own water stewardship to set a leading example to others.

1.8.2

Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.



Comment

Avary Shenzhen has identified relevant sector and/or catchment best practice for water balance including:

- Rainwater and condensate water recovery
- Perform water balance testing as per GBT 12452-2022 General Rules for Water Balance Testing of Enterprises
- Undertake a detailed study on how water is used in the site and introduce water efficient technology into production process;
- Train workers on how to improve efficiency in the work they do, and on basic daily activities, such as switching off taps:
- Install water efficient fittings, for example for toilets, wash rooms, equipment washing facilities, bath installations, etc.

1.8.3

Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.



Comment

Avary Shenzhen has identified relevant sector and/or catchment best practice for water quality, especially match water quality to its intended purpose. Based on different uses, water is divided into the following categories:

- Use for production purpose: Tap water, filtered water, soft water, RO water and purified water
- Use for domestic purpose: Tap water
- Use for other purpose: Reuse water for toilet flushing, greenbelt irrigation and waste gas treatment tower spraying

1.8.4

Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.



Comment

The site has identified best practices related to Important Water Related Areas (IWRA). Such as water quality monitoring of underground water and neighbour river, soil monitoring within the sitem or conducting the river cleaning activities.

1.8.5

Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.



Comment

Avary Shenzhen has identified relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services including:

- WBCSD self-assessment tool
- GB 5749 Sanitary Standard for Drinking Water
- GB 17051 Sanitary Code for Secondary Water Supply Facilities
- CJ/T 164 Water saving Domestic Water Appliance



Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

2	STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.	
2.1.1	A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments: - That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - That the site implementation will be aligned to and in support of existing catchment sustainability plans - That the site's stakeholders will be engaged in an open and transparent way - That the site will allocate resources to implement the Standard.	Yes
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by the CEO of Avary Shenzhen. The commitment has been displayed on Avary Shenzhen's website. Evidences:	
	Avary Shenzhen's Commitment to Water Stewardship	
2.1.2	Advanced Indicator A statement that explicitly covers all requirements set out in Indicator 2.1.1 and is signed by the organization's senior-most executive or governance body and publicly disclosed shall be identified.	Yes
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by the CEO of Avary Shenzhen. The commitment has been displayed on Avary Shenzhen's website. http://www.avaryholding.com/development.aspx?type=40&tag=2	
	Evidences:	
Score	Avary Shenzhen's Commitment to Water Stewardship 1	
2.2	Develop and document a process to achieve and maintain legal and regulatory compliance.	
2.2.1	The system to maintain compliance obligations for water and wastewater management shall be identified, including: - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies.	⊘ Yes
Comment	Avary Shenzhen has established a procedure to ensure the operation of Avary Shenzhen meet the provisions of relevant laws, regulations and other requirements. With the help of a third-party system, Avary Shenzhen timely obtains updated information on laws a regulations, and conducts compliance evaluation on laws and regulations every six months and keep records	
	Evidences: Procedure for Compliance Evaluation of Laws and Other Requirements (ST-2B0-008); Compliance Assessment Record of Social Responsibility Laws and Regulations in the First Half of 2022	
2.3	Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.	

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Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

2.3.1 A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.



Comment

Avary Shenzhen has developed a water stewardship strategy, which specifies that Avary Shenzhen's water stewardship will follow the idea of "Avary Shenzhen Seven Greens", e.g. green innovation, green procurement, green production, green operation, green service, green recycling and green living, and 6 goals will be achieved towards good water stewardship in line with this AWS Standard, including:

- Make great efforts to cooperate with stakeholders in an open and transparent manner;
- Comply with laws, regulations and other requirements;
- Actively coordinate and support government authorities to develop water-related plans and policies;
- Try our best to use water in a high-efficient way and reduce water loss;
- Try our best to reduce pollution and promote the reduction, reuse, recycling and appropriate disposal of wastes: and
- Strengthen internal communication and facilitate the understanding of water-related policies.

Evidences:

Avary Shenzhen's Water Stewardship Strategy

2.3.2 A water stewardship plan shall be identified, including for each target:



- How it will be measured and monitored
 - Actions to achieve and maintain (or exceed) it
 - Planned timeframes to achieve it
 - Financial budgets allocated for actions
 - Positions of persons responsible for actions and achieving targets
 - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.

Comment

Avary Shenzhen has developed a Water Stewardship Plan (Year 2022), which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc.

Evidences:

Avary Shenzhen's Water Stewardship Plan - Improvement Action List (Year 2022)

2.3.3 Advanced Indicator



The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same organisational ownership) shall be identified and described.

Comment

In March 2021, Avary Shenzhen held a theme conference on AWS experience sharing in Shenzhen OCT Intercontinental Hotel to promote OCT Intercontinental Hotel to understand AWS and carry out water management actions. At the same time, NGO- Qingcheng Environmental and Nature Conservation Association and brand customers also attended the conference

Avary Shenzhen carries out the theme activity of "Environmental Protection and Energy Saving Month" every year. In April June 2022, Avary Shenzhen carried out the theme activity of "the 15th Environmental Protection and Energy Saving Month", which includes photography exhibition, parent-child activities, going to the campus (green classroom, painting competition, etc.), and organized employees to participate in environmental protection theme publicity and education activities with surrounding schools and employee families

Evidences:

Records of sharing experience and best practice of water stewardship in OCT Intercontinental Hotel; Brochure and summary of the theme activity of the 15th Environmental Protection and Energy Conservation Month

Score 4

2.3.4 Advanced Indicator



The site's partnership/water stewardship activities with other sites in another catchment(s) (either under same corporate structure or with another corporate site) shall be identified.

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Alliance for Water Stewardship (AWS)

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Comment

Avary Group led Avary Shenzhen and its subsidiaries in different catchments (located in Huai'an and Qinhuangdao) to jointly carry out actions to improve the environmental performance of its group and developed the "Avary Seven Greens" KPI, e.g. green innovation, green procurement, green production, green operation, green service, green recycling and green living,

In May 2022, Avary Shenzhen and other subsidiaries (Huai'an and Qinhuangdao) jointly carried out the theme activity of "love the earth" to take joint action to advocate energy conservation, environmental

protection, green travel and protecting the earth

Evidences:

Internal publication of Avary Group; "Avary Seven Greens" KPI Annual Summary

Score 4

2.3.5 Advanced Indicator

Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which

stakeholders are involved shall be identified.

Comment Avary Shenzhen has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021) and a

"Process for AWS Management", which specify the senior-most manager and his responsibilities, the process for AWS management, the evaluation and update the site's water stewardship plan. Because of Avary Shenzhen's best practices in water management, Avary Shenzhen has obtained the ENTERPRISE STANDARD FORERUNNER certificate issued by the China Association of Technology and Economics

Evidences:

Norm of Water Stewardship (Q/440306 AVARY 001-2021) issued by Avary Shenzhen on 30 October 2021; ENTERPRISE STANDARD FORERUNNER certificate issued by the China Association of Technology

and Economics, issued on: January 2, 2022

Score 7

2.4 Demonstrate the site's responsiveness and resilience to respond to water risks

2.4.1 A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant

public-sector and infrastructure agencies shall be identified.

Yes

Comment

Avary Shenzhen has identified its water risks covering water governance, sustainable water balance and water quality.

Meanwhile, Avary Shenzhen has also developed a Production Emergency Response Management Procedure to control and respond to water risks under different scenarios, such as wastewater leakage, equipment failure, natural disasters, water supply interruption, etc.

The Production Emergency Response Management Procedure was sent to government agencies for registering and obtained the registration certificate.

Evidence:

Production Emergency Response Management Procedure: Communication records with water related infrastructures.

2.4.2 Advanced Indicator

A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.

Yes

TUV Rheinland (Guangdong) Ltd.



Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

Comment

Avary Shenzhen has developed a Special Emergency Response Plan for El Niño, which focuses on mitigation or adaption to water risks associated with climate change projections. The plan provides climate change projections regarding typhoon, rainstorm and extreme high-temperature based on the analysis of past events, introduces the early warning signals and risk factors of different events related to climate change and develops a response action plan. Meanwhile, 19 relevant public-sectors and infrastructure agencies are also identified and coordinated with. Their supports, capabilities and contact numbers are listed. Avary Shenzhen also summarized its implementation of the Special Emergency Response Plan for El Niño in 2021.

Evidences:

Avary Shenzhen's Special Emergency Response Plan for El Niño; Contact List of Relevant Public-Sectors and Infrastructure Agencies; Summary Report of Implementation of Special Emergency Response Plan for El Niño in 2021

Score 6



Alliance for Water Stewardship (AWS)

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3	STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts
3.1	Implement plan to participate positively in catchment governance.
3.1.1	Evidence that the site has supported good catchment governance shall be identified. Yes
Comment	Avary Shenzhen actively cooperates with the government supervision department to conduct supervisory inspections and visits. Avary Shenzhen regularly monitors the water quality of the nearby river Yangchong River, samples the river water 1000 meters away from the site on both sides of Yangchong River every month, and entrusts external agencies to test the water quality of the above areas every six months (test parameters include PH, total Cu, total Ni, TP, COD and NH3-N) Avary Shenzhen organizes the theme activity of "Environmental Protection and Energy Conservation Month" every year to actively advocate catchment governance. For example, in May 2022, Avary Shenzhen carried out a parent-child activity called "Fun Riverside", where employees and children took samples and tested the river water together. In May 2021, the "river guardian" activity was carried out to organize employees to patrol the surrounding rivers.
	Evidences: Internal water quality test records of Yangyong River and test reports issued by third parties; Summary of "Environmental Protection and Energy Conservation Month" activity
3.1.2	Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.
Comment	By using its "Legal Knowledge Network", Avary Shenzhen can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Avary Shenzhen has identified the "Water Law of the People's Republic of China", which specifies that any entity and individual's water diversion, water interception, water impoundment and water discharge cannot damage public interest and the legal rights of others. The Form for Compliance Evaluation of Laws and Regulations developed by Avary Shenzhen can assess its compliance status in time. No water-related non-compliance has happened in Avary Shenzhen.
	Evidences: Evaluation Report for Compliance with Laws and Regulations in the First Half of 2022
3.1.3	Advanced Indicator Evidence of improvements in water governance capacity from a site-selected baseline date Yes shall be identified.
Comment	Avary Shenzhen has obtained the AWS Platinum certification since 2019. In addition, Avary Shenzhen has also formulated AWS management operating system procedures to standardize its water management Avary Shenzhen has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021) In addition, Avary Shenzhen has also developed a procedure document for the collection and updating of background information of the catchment to continuously collect water related information in the catchment to guide its continuous actions Evidences: Avary Shenzhen's AWS management operating system procedures, document No.: SG-2B0-001EFH; Avary Shenzhen's "Norm of Water Stewardship (Q/440306 AVARY 001-2021); Avary Shenzhen's procedure document for the collection and updating of background information of the catchment, document No.: SG-3B0-344EFH
Score	2

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Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

3.1.4 Advanced Indicator

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Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water governance of the catchment shall be identified.

1.

Comment Because of Avary Shenzhen's best practices in water management, Avary Shenzhen has obtained the

ENTERPRISE STANDARD FORERUNNER certificate issued by the China Association of Technology and

Economics in 2022

On the IPE platform (a well-known environmental information disclosure platform in China), the in the CITI (Corporate Information Transparency Index) of Avary Shenzhen in 2022 ranked 15th among all

industries and third in the IT/ICT industry

Avary Shenzhen won the title of "China's Environmental and Social Responsibility Enterprise" issued by

China Environment News Agency of the Ministry of Ecology and Environment in 2022

Score 2

3.2 Implement system to comply with water-related legal and regulatory requirements and

respect water rights.

3.2.1 A process to verify full legal and regulatory compliance shall be implemented.



Yes

Comment Avary Shenzhen has established a procedure to ensure the operation of Avary Shenzhen meet the provisions of relevant laws, regulations and other requirements.

With the help of a third-party system, Avary Shenzhen timely obtains updated information on laws and regulations, and conducts compliance evaluation on laws and regulations every six months and keeps records

Evidences:

Procedure for Compliance Evaluation of Laws and Other Requirements (ST-2B0-008); Compliance Assessment Record of Social Responsibility Laws and Regulations in the First Half of 2022

3.2.2 Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented.



Comment

By using its "Legal Knowledge Network", Avary Shenzhen can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Avary Shenzhen has identified the "Water Law of the People's Republic of China", which specifies that any entity and individual's water diversion, water interception, water impoundment and water discharge cannot damage public interest and the legal rights of others. The Form for Compliance Evaluation of Laws and Regulations developed by Avary Shenzhen can assess its compliance status in time. No water-related non-compliance has happened in Avary Shenzhen.

Evidences:

Evaluation Report for Compliance with Laws and Regulations in the First Half of 2022

3.3 Implement plan to achieve site water balance targets.

3.3.1 Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.



Yes



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Comment

Avary Shenzhen has formulated plans to reduce water consumption, improve water quality and improve water management, and follow up the progress of the plan.

Avary Shenzhen has set its annual water consumption target in accordance with the Cleaner production level I standard, and conducts monthly performance evaluations on the water consumption of various departments.

Evidences:

Water Stewardship Performance & Plans, Monthly performance evaluation records of water consumption in various departments

3.3.2 Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented.



Comment

Avary Shenzhen continuously improves the wastewater reuse rate through various ways, such as:

- Reuse wastewater containing heavy metals after treatment
- Reuse RO concentrated water, and use the secondary concentrated water to flush the toilet
- Domestic wastewater is used for flushing after treatment
- Collect rainwater for flushing
- Air conditioning condensate is collected for reuse

Evidences:

Summary of implementation of sustainable water management projects

3.3.3 Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.



Comment

No legally-binding documentation is issued by local government authorities to Avary Shenzhen for the re-allocation of water to social, cultural or environmental needs.

3.3.4 Advanced Indicator



The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified.

Comment Nil

....

3.4 Implement plan to achieve site water quality targets

3.4.1 Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.



Comment

Avary Shenzhen has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months

For internal control, Avary Shenzhen has defined the stricter discharge limits for its effluent, which are 80% of the permitted discharge levels. The testing report showed that all testing results are lower than 80% of the internal standards.

Evidences:

Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; Internal wastewater test and analysis records

3.4.2 Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.



Yes



Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

Comment For internal control, Avary Shenzhen has defined the stricter discharge limits for its effluent, which are

80% of the permitted discharge levels. The testing report showed that all testing results are lower than

80% of the internal standards.

Evidences:

Internal wastewater test and analysis records

3.5 Implement plan to maintain or improve the site's and/or catchment's Important

Water-Related Areas.

3.5.1 Practices set in the water stewardship plan to maintain and/or enhance the site's Important

Water-Related Areas shall be implemented.

Voc

Comment There are no Important Water-Related Areas in the site. In addition, the site has little influence on the

Important Water-Related Areas in the catchment.

3.5.2 Advanced Indicator

 $\overline{\mathcal{A}}$

Evidence of completed restoration of non-functioning or severely degraded Important Water-Related Areas including where appropriate cultural values from a site-selected baseline date shall be identified. Restored areas may be outside of the site, but within the catchment.

No

Comment Ni

3.5.3 Advanced Indicator

A

Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the healthy status of Important Water-Related Areas in the

catchment shall be identified.

No

Comment Nil

3.6 Implement plan to provide access to safe drinking water, effective sanitation, and protective

hygiene (WASH) for all workers at all premises under the site's control.

3.6.1 Evidence of the site's provision of adequate access to safe drinking water, effective sanitation,

and protective hygiene (WASH) for all workers onsite shall be identified and where applicable, quantified.

⊘ Yes

Comment

3.6.2

Avary Shenzhen has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Avary Shenzhen has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains Avary Shenzhen also conducts WBCSD self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Avary Shenzhen reached full marks

Avary Shenzhen investigates the distribution of drinking water points and toilet facilities within the site, and analyses the adequacy of these facilities based on the standards WBCSD and "GB 31177-2014 Student Dormitory Hygiene Requirements and Management Code"

Avary Shenzhen Avary Shenzhen conducts employee satisfaction survey every year, and collectes employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.

Evidences:

Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; WBSCD self-assessment sheet; Process for the maintenance of drinking water machine system, document no. SG-3B0-199

Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.

Yes

TUV Rheinland (Guangdong) Ltd.



Alliance for Water Stewardship (AWS)

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Comment No evidence is showed that the site is impinging on the human right to safe water and sanitation of

communities through their operations according to the interviews with Avary Shenzhen's employees,

local community and local government authorities.

3.6.3 Advanced Indicator

A list of actions taken to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness shall be identified.

Yes

Comment

Avary Shenzhen has taken series of actions to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness, including:

- Provision to all employees of access to safe drinking water, adequate sanitation and hygiene awareness, and adoption of WBCSD self-assessment tool.
- Provision of safe drinking water for sanitation workers and delivery men (A notice of providing safe drinking water for sanitation workers and delivery men is posted at the guard room adjacent to the road): and
- Avary Shenzhen donated disinfected water to a nearby school in June 2021 for teachers and students to carry out COVID-19 protection

Evidence:

Avary Shenzhen's WSCSD Self-assessment Tool; Notice of providing safe drinking water for sanitation workers and delivery men; Photo records of the donation activity.

Score 5

3.6.4 Advanced Indicator:

In catchments where WASH has been identified as a shared water challenge, evidence of efforts taken with relevant public-sector agencies to share information and to advocate for change to address access to safe drinking water and sanitation shall be identified.

No

Comment Nil

3.7 Implement plan to maintain or improve indirect water use within the catchment:

3.7.1 Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.

Q Obs.

Comment

Avary Shenzhen had carried out a thorough survey for the water use of suppliers and service providers, which account for more than 80% of its trading volumes and analyse their water risks. Avary Shenzhen analysed their intensity of water consumption and water pollution. Meanwhile, by using WWF's map of water risk filter, Avary Shenzhen also analysed their water risks.

Avary Shenzhen regularly screened the suppliers' violation records on the IPE platform, and promoted them to provide feedback to the IPE platform and remove the violation records. In 2022, 10 suppliers were promoted to remove the violation records

Avary Shenzhen also tracks the violation records of service contractors, such as hazardous waste disposal units on the IPE platform, and promotes them to remove the violation records

Evidences:

Suppliers' water risk analysis records; Records of eliminating suppliers' environmental non-compliance from the IPE's website

OB:

Avary Shenzhen has assessed the water risk of suppliers through factors such as water risk in the basin where suppliers are located, water intensity of suppliers, pollution intensity, etc. It is suggested that the site take further action based on the water risk assessment results and cooperate with suppliers to improve their water management performance

Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.

Yes

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3.7.2



Alliance for Water Stewardship (AWS)

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Comment

Avary Shenzhen regularly screened the suppliers' violation records on the IPE platform, and promoted them to provide feedback to the IPE platform and remove the violation records. In 2022, 10 suppliers were promoted to remove the violation records

In addition, Shenzhen Avary also helped 14 service providers in realizing zero waste to landfill, and they all obtained a "Material Handler Declaration – ECV Zero Waste to Lanfill" issued by UL Environment, Inc.

Evidences:

Records of eliminating suppliers' environmental non-compliance from the IPE's website; Material Handler Declaration – ECV Zero Waste to Landfill

3.7.3 Advanced Indicator

Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.

Comment Avary Shenzhen regularly screened the suppliers' violation records on the IPE platform, and promoted them to provide feedback to the IPE platform and remove the violation records. In 2022, 10 suppliers were promoted to remove the violation records

In 2022, Avary Shenzhen carried out a supplier training, involving topics such as IPE platform introduction and PRTR data disclosure. A total of 242 people from 84 suppliers participated in the training

On the IPE platform (a well-known environmental information disclosure platform in China), the in the CITI (Corporate Information Transparency Index) of Avary Shenzhen in 2022 ranked 15th among all industries and third in the IT/ICT industry

Evidences:

Records of eliminating suppliers' environmental non-compliance from the IPE's website; Supplier training materials and records; CITI ranking from IPE platform

Score

3.8 Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.

3.8.1 Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.

Yes

(7)

Comment Avary Shenzhen actively cooperates with the government supervision department to conduct supervisory inspections and visits.

Avary Shenzhen keeps close contact with local water-related infrastructure owners through many ways such as Wechat, e-mail or phone call.

Evidences:

The record of the site's communication with the water infrastructure

3.9 Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.

3.9.1 Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.

⊘ Yes

TUV Rheinland (Guangdong) Ltd.



Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

Comment

Avary Shenzhen has obtained the AWS Platinum certification since 2019. In addition, Avary Shenzhen has also formulated AWS management operating system procedures to standardize its water management

Avary Shenzhen has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021) In addition, Avary Shenzhen has also developed a procedure document for the collection and updating of background information of the catchment to continuously collect water related information in the catchment to guide its continuous actions

Evidences:

Avary Shenzhen's AWS management operating system procedures, document No.: SG-2B0-001EFH; Avary Shenzhen's "Norm of Water Stewardship (Q/440306 AVARY 001-2021); Avary Shenzhen's procedure document for the collection and updating of background information of the catchment, document No.: SG-3B0-344EFH

3.9.2 Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.



Comment

Avary Shenzhen underwent a clean production audit in 2018 and was rated the first-level. Avary Shenzhen has formulated an internal sustainable water balance standard, which is equivalent to the first-level of cleaner production standard. Avary Shenzhen evaluates its water performance every year and meets the internal control requirements for a long time.

In addition, based on Avary Shenzhen's water balance tested by Shenzhen TYBRAIN Technologies Co., Ltd. on 10 July, 2020, its water reuse rate is up to 96.58%, which far higher than the first level (≥55%) defined in the national "Cleaner Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008).

Evidences:

Cleaner Production Audit Report of Avary Shenzhen (2018), Internal water consumption statistics and performance evaluation records; Water Balance Test Report

3.9.3 Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.



Comment

Avary Shenzhen has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Avary Shenzhen has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains For internal control, Avary Shenzhen has defined the stricter discharge limits for its effluent, which are 80% of the permitted discharge levels. The testing report showed that all testing results are lower than 80% of the internal standards.

On-line monitoring devices had been installed at Avary Shenzhen's wastewater treatment station and networked with local environmental protection authority.

Wastewater discharge testing, groundwater monitoring and soil monitoring are carried out regularly to meet or be more strict than government requirements

Internal wastewater test and analysis records; Test reports issued by third parties

3.9.4 Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.



Comment

There are no Important Water-Related Areas on the site.

3.9.5 Actions towards achieving best practice related to targets in terms of WASH shall be implemented.



WSAS STEWARDSHIP ASSURANCE SERVICES

Alliance for Water Stewardship (AWS)

Audit Number: AO-000444

Comment

Avary Shenzhen has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Avary Shenzhen has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains Avary Shenzhen also conducts WBCSD self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Avary Shenzhen reached full marks

Avary Shenzhen investigates the distribution of drinking water points and toilet facilities within the site, and analyses the adequacy of these facilities based on the standards WBCSD and "GB 31177-2014 Student Dormitory Hygiene Requirements and Management Code"

Avary Shenzhen Avary Shenzhen conducts employee satisfaction survey every year, and collectes employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.

Evidences:

Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; WBSCD self-assessment sheet; Process for the maintenance of drinking water machine system, document no. SG-3B0-199

3.9.6 Advanced Indicator

Achievement of identified best practice related to targets in terms of good water governance shall be quantified.



Comment

Avary Shenzhen has obtained the AWS Platinum certification since 2019. In addition, Avary Shenzhen has also formulated AWS management operating system procedures to standardize its water management

Avary Shenzhen has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021), involving collection and analysis, policy and management plan, implementation, performance evaluation and continuous improvement, communication and disclosure, etc

In addition, Avary Shenzhen has also developed a procedure document for the collection and updating of background information of the catchment to continuously collect water related information in the catchment to guide its continuous actions

Evidences:

Avary Shenzhen's AWS management operating system procedures, document No.: SG-2B0-001EFH; Avary Shenzhen's "Norm of Water Stewardship (Q/440306 AVARY 001-2021); Avary Shenzhen's procedure document for the collection and updating of background information of the catchment, document No.: SG-3B0-344EFH

Score 8

3.9.7 Advanced Indicator

Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.



Comment

Avary Shenzhen underwent a clean production audit in 2018 and was rated the first-level.

Avary Shenzhen has formulated an internal sustainable water balance standard, which is equivalent to the first-level of cleaner production standard. Avary Shenzhen evaluates its water performance every year and meets the internal control requirements for a long time.

In addition, based on Avary Shenzhen's water balance tested by Shenzhen TYBRAIN Technologies Co., Ltd. on 10 July, 2020, its water reuse rate is up to 96.58%, which far higher than the first level (≥55%) defined in the national "Cleaner Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008).

Evidences:

Cleaner Production Audit Report of Avary Shenzhen (2018), Internal water consumption statistics and performance evaluation records; Water Balance Test Report

Score 8

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No

Yes

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3.9.8 Advanced Indicator

Achievement of identified best practices related to targets in terms of water quality shall be

quantified

Comment For internal control, Avary Shenzhen has defined the stricter discharge limits for its effluent, which are

80% of the permitted discharge levels. The testing report showed that all testing results are lower than

80% of the internal standards.

Evidences:

Internal wastewater test and analysis records

Score 8

3.9.9 Advanced Indicator

Achievement of identified best practices related to targets in terms of the site's maintenance

of Important Water-Related Areas have been implemented.

Comment Nil

3.9.10 Advanced Indicator

Achievement of identified best practice related to targets in terms of WASH shall be

quantified.

Comment Avary Shenzhen has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water

every six months. Avary Shenzhen has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains Avary Shenzhen also conducts WBCSD self-assessment to evaluate the level of onsite WASH. According

to the self-assessment results, Avary Shenzhen reached full marks

Avary Shenzhen investigates the distribution of drinking water points and toilet facilities within the site, and based on the analysis data, the adequacy of these facilities meets the standards of WBCSD and "GB

31177-2014 Student Dormitory Hygiene Requirements and Management Code"

Avary Shenzhen Avary Shenzhen conducts employee satisfaction survey every year, and collectes

 $employees'\ satisfaction\ with\ WASH\ adequacy,\ and\ conducted\ satisfaction\ analyses.$

Evidences:

Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; WBSCD self-assessment sheet; Process for the maintenance of drinking water

machine system, document no. SG-3B0-199

Score 4

Comment

3.9.11 Advanced Indicator

A list of efforts to spread best practices shall be identified.

On August 18, 2021, Avary Shenzhen, as a pilot unit of water management, was invited by Industry and Information Technology Bureau of Shenzhen to share AWS management philosophy with enterprises in

Shenzhen

In March 2021, Avary Shenzhen held a theme conference on AWS experience sharing in Shenzhen OCT Intercontinental Hotel to promote OCT Intercontinental Hotel to understand AWS and carry out water management actions. At the same time, NGO- Qingcheng Environmental and Nature Conservation

Association and brand customers also attended the conference
Sharing best practices of water stewardship at supplier conference on 9 September 20

Sharing best practices of water stewardship at supplier conference on 9 September 2021 Sharing best practices of water stewardship with suppliers during on-site supplier training on 1

November 2021

Evidences:

Records of sharing best practice of water stewardship

Score 3

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3.9.12 Advanced Indicator



A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be

Yes

identified.

Comment

Avary Shenzhen carried out the 15th Environmental Protection and Energy Saving Month from April 22 to June 5, 2022:

- Promotion of the concept of environmental protection and energy conservation (April 22-24): Mobilize employees to participate in sharing the theme poster of "energy conservation, environmental protection and earth care" on the social platform for three consecutive days
- Environmental Protection Photography Competition (May 5-15):

Organize employees to participate in environmental protection themed photography contest, enhance employees' environmental awareness, and advocate employees to pay attention to environmental issues around them

- Environmental protection theme offline activities (May 26): Enhance employees' participation in environmental protection through environmental protection knowledge competition and garbage classification theme game

- "Fun Riverside" parent-child activity (May 7-22):

Invite employees to take their children to participate in river water quality testing activities, and spread the concept of protecting rivers and the environment to children

- Green Campus Tour (Shenzhen Huayuan Primary School):

Avary Shenzhen held a painting competition in Huayuan Primary School in Shenzhen, "Protect the Environment, Everyone's Participation, and Paint a Beautiful Home". Through this activity, children were guided to pay attention to the environment around them and participate in environmental protection together; Avary Shenzhen also held the "environmental protection mini class" activity, which enriched the children's environmental protection knowledge and stimulated their enthusiasm for participation through classroom explanations and answer contests (a total of 50 children participated in this activity); Avary Shenzhen held the "DIY environmental protection handbag" classroom activity, in which the children designed and made their own handbags from discarded paper

Evidences:

Summary of activities held in the 15th session of Environmental Protection and Energy Saving Month

Score 8

3.9.13 Advanced Indicator



Evidence of the quantified improvement that has resulted from the collective action relative to a site-selected baseline date shall be identified and evidence from an appropriate range of stakeholders linked to the collective action (including both those implementing the action and those affected by the action) that the site is materially and positively contributing to the achievement of the collective action shall be identified.

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Comment

Avary Shenzhen carried out the 15th Environmental Protection and Energy Saving Month from April 22 to June 5, 2022:

- "Fun Riverside" parent-child activity (May 7-22): Invite employees to take their children to participate in river water quality testing activities, and spread the concept of protecting rivers and the environment to children

- Green Campus Tour (Shenzhen Huayuan Primary School):

Avary Shenzhen held a painting competition in Huayuan Primary School in Shenzhen, "Protect the Environment, Everyone's Participation, and Paint a Beautiful Home". Through this activity, children were guided to pay attention to the environment around them and participate in environmental protection together (About 500 children participated in the painting competition and submitted their paintings); Avary Shenzhen also held the "environmental protection mini class" activity, which enriched the children's environmental protection knowledge and stimulated their enthusiasm for participation through classroom explanations and answer contests (a total of 50 children participated in this activity); Avary Shenzhen held the "DIY environmental protection handbag" classroom activity, in which the children designed and made their own handbags from discarded paper (a total of 50 children participated in this activity)

Evidences:

Summary of activities held in the 15th session of Environmental Protection and Energy Saving Month



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4	STEP 4: EVALUATE - Evaluate the site's performance.
4.1	Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes.
4.1.1	Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated. Yes
Comment	Avary Shenzhen's Norm of Water Stewardship" (Q/440306 AVARY 001-2021) specifies the requirements of evaluating site performance and and its contribution to achieving water stewardship results based on the objectives of the water stewardship plan. According to Avary Shenzhen's water stewardship plan in 2022, 10 actions will be taken to achieve water stewardship outcomes. The implementation schedule has defined for each action. 8 actions were completed or ongoing, and the other 2 actions were in planning.
4.1.2	Value creation resulting from the water stewardship plan shall be evaluated. Yes
Comment	Avary Shenzhen analysed its costs and value creation resulting from the implementation of water stewardship plan, especially the implementation of water-saving projects. For example, the implementation of the improvement of washing process and using the acidic wastewater to acidify alkaline membrane removal waste, it total saved about 3000 tons chemicals by the end of October 2022.
4.1.3	The shared value benefits in the catchment shall be identified and where applicable, quantified.
Comment	Through holding the publicity campaign regarding environmental protection and energy saving, the public' awareness of environmental protection was greatly promoted. The 'Green Campus Trip' was held between April 22 and June 5, in the whole series of activities, more than 500 students had participated. The publicity campaign brings enormous social benefit in the catchment. Avary Shenzhen also organized "River Patrol Activities" by using an APP named "River Patrol Kits" in 2021. In addition, Avary Shenzhen has monitored the water quality of surrounding water bodies for many years and shared the testing results with local environmental protection authority. What Avary Shenzhen does can effectively help local environmental protection authority to reduce the risk of water pollution in the catchment.
4.1.4	Advanced Indicator A governance or executive-level review, including discussion of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents shall be identified.
Comment	Avary Shenzhen has developed a "Procedure for Management Review", which specifies that the common water challenges identified by the site AWS system, water risks and opportunities, water-related cost savings or benefits achieved, and any related events will be reviewed. We reviewed the record for 2021 management review, and the report of water stewardship performance prepared for the management review meeting.
Score	3
4.2	Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.
4.2.1	A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.

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Comment No water-related emergencies and extreme events occurred at the site in recent years.

In 2022, there were four typhoons, the preparedness actions were provided for review. The typhoons

has no other impact.

4.3 Evaluate stakeholders' consultation feedback

regarding the site's water stewardship performance, including the effectiveness of the site's

engagement process.

4.3.1 Consultation efforts with stakeholders on the site's water stewardship performance shall be

dentified.

Yes

Comment Avary Shenzhen performed a satisfaction survey regarding its water stewardship in 2022. A Stakeholder

Evaluation and Analysis Report in 2022 was prepared. The survey results showed that 82% are very satisfied with Avary Shenzhen's water stewardship; 17% of stakeholders are satisfied with Avary

Shenzhen's water stewardship.

4.3.2 Advanced Indicator

⊘ Yes

The site's efforts to address shared water challenges shall be evaluated by stakeholders. This shall include stakeholder reviewing of the site's efforts across all five outcome areas, and their

suggestions for continual improvement.

Comment Avary Shenzhen has developed a "Process for AWS Management", which specifies that the site water

stewardship plan shall be evaluated and updated on an annual basis, at a minimum, and any lessons

learned/areas for improvement are noted.

Avary Shenzhen has just completed stakeholders' satisfaction survey regarding its water stewardship. Based on the Stakeholder Evaluation and Analysis Report in 2022, Avary Shenzhen will take into consideration stakeholders' suggestions for continual improvement. The following actions will be taken:

- Further promotion of wastewater treatment and management level;
- Promotion suppliers and industry's environmental awareness-raising;
- Continuous improvement of water efficiency;
- Strengthening of external environmental promotion;
- Strengthening of stakeholder communication.

Score 6

4.4 Evaluate and update the site's water

identified.

stewardship plan, incorporating the information obtained from the evaluation process in the

context of continual improvement.

4.4.1 The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be



Comment

Avary Shenzhen has developed a "Process for AWS Management", which specifies that its water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations. Based on the Stakeholder Evaluation and Analysis Report in 2022, the stakeholders' main focuses are Avary Shenzhen's wastewater management and external communication. Actually, strengthening of wastewater management and external communication have been the key targets defined in Avary Shenzhen's annual water stewardship plan. According to Avary

Shenzhen, they will continue to take strengthening of wastewater management and external communication into consideration when the development of water stewardship plan in 2023.



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5	STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's
	stewardship efforts
5.1	Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.
5.1.1	The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.
Comment	Avary Shenzhen's Organization Chart of Integrated Management System clearly shows the manager representative of environment and water stewardship, the responsible department and person. The Organization Chart has also been displayed on Avary Shenzhen's website: http://www.avaryholding.com/upload/file/2022-04-11/b4cccf38-42d5-4696-915d-af00d852999b.pdf In addition, Avary Shenzhen has issued a "Procedure for Compliance Evaluation of Laws and Other Requirements", which specifies all departments' responsibilities of collection, registration and management of laws and other requirements.
5.2	Communicate the water stewardship plan with relevant stakeholders.
5.2.1	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders. Yes
Comment	Avary Shenzhen communicates its water stewardship plan with many stakeholders, including: • Communicating with local government authorities and communities through environmental protection and energy saving campaign; • Communicating with all stakeholders through questionnaires; • Communicating with relevant stakeholders through its CSR report; • Communicating with relevant stakeholders through CDP Disclosure Insight Action; • Communicating with public through company website: http://www.avaryholding.com/upload/file/2022-04-11/b4cccf38-42d5-4696-915d-af00d852999b.pdf
5.3	Disclose annual site water stewardship summary, including: the relevant information about the site's annual water stewardship performance and results against the site's targets.
5.3.1	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.
Comment	Avary Shenzhen discloses a summary of its water stewardship performance, including quantified performance against targets in Avary CSR Report, CDP Disclosure Insight Action and company website http://www.avaryholding.com/upload/file/2022-04-11/b4cccf38-42d5-4696-915d-af00d852999b.pdf annually.
5.3.2	Advanced Indicator The site's efforts to implement the AWS Standard shall be disclosed in the organization's Yes annual report.
Comment	Avary Shenzhen's CSR report and CDP report annually disclose its implementation of water stewardship against the AWS Standard. In addition, Avary Shenzhen also discloses its water stewardship information through the "Pollutant Release and Transfer Register" (PRTR) initiated by IPE.
Score	1
5.3.3	Advanced Indicator Benefits to the site and stakeholders from implementation of the AWS Standard shall be Yes quantified in the organization's annual report.

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Comment	Benefits to the site and stakeholders from implementation of the AWS Standard are also quantified in the Avary's CSR report and CDP Report on a yearly basis.
Score	1
5.4	Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.
5.4.1	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.
Comment	Avary Shenzhen has disclosed its shared water-related challenges and efforts made to address these challenges on Avary Shenzhen's website:
	http://www.avaryholding.com/upload/file/2022-04-11/b4cccf38-42d5-4696-915d-af00d852999b.pdf. However, the disclosure is not completed, which raised a minor non-conformity. Finding No: TNR-002533
5.4.2	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified. Yes
Comment	Avary Shenzhen has defined 22 April to 5 June of each year as its "Environmental Protection and Energy Saving Month". By using this opportunity, Avary Shenzhen will ask local stakeholders and government authorities to participate in the events and share shared water-related challenges and its efforts made to address these challenges. The 'Green Campus Trip' was held between April 22 and June 5, in the whole series of activities, more than 500 students had participated. The publicity campaign brings enormous social benefit in the catchment.
5.5	Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.
5.5.1	Any site water-related compliance violations and associated corrections shall be disclosed. Yes
Comment	No water-related compliance violations occurred at the site to date. The check of publicly available documentation such as from websites of local ecology and environment bureau, water affairs bureau, and IPE, a famous NGO in China found no complaints and negative press coverage of the site.
5.5.2	Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.
5.5.3	Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.
Comment	No water-related compliance violations occurred at the site to date. The check of publicly available documentation such as from websites of local ecology and environment bureau, water affairs bureau, and IPE, a famous NGO in China found no complaints and negative press coverage of the site.

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Photographic Evidence from Audit



Comment Some photos were taken during the virtually site visit.



chemical warehouse.jpg



water purification plant.jpg

WSAS WATER STEWARDSHIP ASSURANCE SERVICES

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toilet.jpg



groundwater monitoring well.jpg

WATER STEWARDSHIP ASSURANCE SERVICES

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hazardous waste storage area.jpg



wastewater treatment plant.jpg



discharge online monitoring room.jpg



adjacent wetland.jpg

WSAS STEWARDSHIP ASSURANCE SERVICES

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water saving poster.jpg



stakeholder interview.JPG



potable water.jpg

WSAS STEWARDSHIP ASSURANCE SERVICES

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factory overview.jpg



water recycle facilities.jpg



neighbour river.jpg



discharge outlet.jpg

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	Previous Findings	
	All non-conformities raised in the previous audit have been satisfactorily closed.	○ N/A
Comment	Nil non-conformity was identified in the last audit.	N/A

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