Alliance for Water Stewardship Conformity Assessment Report

Prepared for Qing Ding Precision Electronics (Huai'An) Co., Limited (AWS-000238)

Prepared by: SGS

SGS Ref.: CN/SZH-11019

Version: 1

Date: August 15, 2020

REPORT DETAILS

REFERENCE	
CLIENT REFERENCE	Qing Ding Precision Electronics (Huai'An) Co., Limited
REPORT TITLE	**ALLIANCE FOR WATER STEWARDSHIP CONFORMITY ASSESSMENT REPORT**
DATE SUBMITTED:	Aug. 15, 2020
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STATUS	FINAL
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Qing Ding is one of the subsidiaries of Avary Holding (Shenzhen) Co., Ltd. located in Huai'an Industrial Park, Jiangsu Province. Qing Ding was established in June, 2014, registered capital of RMB 1,550,525,900, which is mainly engaged in the manufacture and assembly of Flexible Printed Circuits. These finished products and components are widely applied to various types of communications, computing, and consumer products.

On July 16-17, 2020, SGS-CSTC Standards Technical Services Co., Ltd. (hereinafter referred to as "SGS") conducted an on-site conformity assessment for Qing Ding's facilities and activities with regard to certification to the AWS Standard (Version 2.0). A total of six findings were raised during the course of the audit process and they were categorized as 1 minor non-conformity and 5 observations.

Qing Ding responded to the non-conformity raised with root cause analysis and corrective action plan. My review confirmed that the corrective action plan deemed to be acceptable.

Given the review of evidences provided and the site visit performed at Qing Ding, SGS recommends that Qing Ding be awarded the AWS Platinum Certified status with a surveillance audit interval of annual frequency.

2 SCOPE OF ASSESSMENT

The scope of services covers the conformity assessment of water use in compliance with the AWS International Water Stewardship Standard (Version 2.0) for Qing Ding Precision Electronics (Huai'An) Co., Limited (hereinafter referred to as "Qing Ding" or "the site") located at No. 8, Pengding Road, Huai'an Economic Development Zone, Jiangsu Province, P. R. China. The assessment has been completed in compliance with the AWS Certification requirements, Version 2.0 dated in December, 2019.

A pre-assessment for Qing Ding's facilities and activities with regard to certification to the AWS Standard (Version 2.0) was performed by Mr. Jiansong CHANG and Ms. Vickie ZHAO, AWS auditors from SGS-CSTC Standards Technical Services Co., Ltd., Beijing and Shanghai Branch (hereinafter referred to as "SGS") on May 28-29, 2020. During the pre-assessment, SGS conducted an on-site audit that covered water supply facilities, chemical warehouse, hazardous waste storage, wastewater treatment facilities, online monitoring devices installed for treating effluent, employees' canteen and dormitories, personnel interviews and document reviews. A total of twelve findings were raised during the pre-assessment process. Qing Ding responded that corrective actions will be taken to successfully close all findings raised at pre-assessment stage and before commencement of conformity assessment.

On July 16-17, 2020, SGS conducted the conformity assessment on-site visit of Qing Ding's facilities and activities with regard to certification to the AWS Standard (Version 2.0). Table 2.1 includes details on SGS audit team. The audit plan is attached as a separate document.

Table 2.1 SGS Audit Team

Audit Team		Qualifications/Experience
Vickie ZHAO	Lead Auditor	AWS Auditor, with more than 10 years experience in ISO 14001 audit.
Dexing LIANG	Technical Expert	Dr. Dexing Liang, with Master Degree of Environmental Science of Sun Yat-Sen University.

During the conformity assessment, SGS auditor spent 0.5 day on stakeholder consultation meetings and 1.5 days inspecting Qing Ding's installations and reviewing activities and documents. Inteviews with personnel were also carried out.

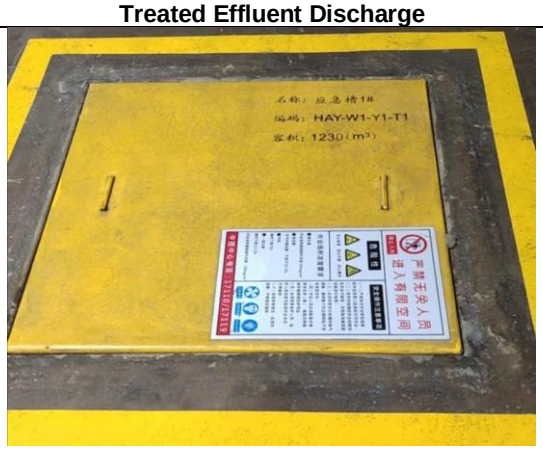
Qing Ding provided most of the requested supporting documentation as evidences whilst on site. SGS provided initial feedback on the gaps between Qing Ding's current management and

the level required by the standard during the closing meeting of the pre-assessment on May 29, 2020.

Table 2.2 Photos from Qing Ding Site Assessment

<table>
<tr>
<td> 

Wastewater Outfall</td>
<td> 
Treatment Facilities for Recycling Water</td>
</tr>
<tr>
<td> 

Intelligent Wastewater Treatment Central Control System</td>
<td> 
Treated Effluent Discharge</td>
</tr>
<tr>
<td> 
Online Monitoring Room</td>
<td> 

Emergency Tank</td>
</tr>
</table>

Storage of Hazardouse Wastes

Shower and Eyewasher Equipment

Chemical Warehouse

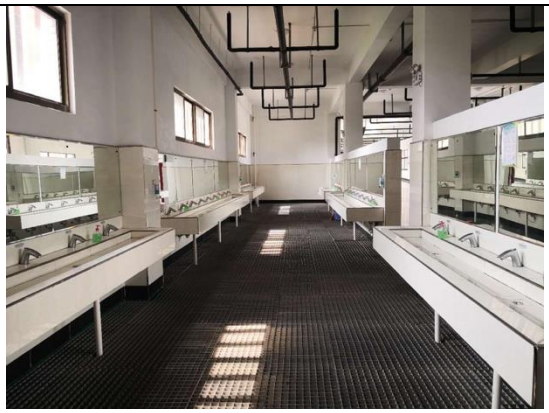
Emergency supplies in Chemical Warehouse

Monitoring well for groundwater

Water purification machine installed at Workshop

Rainwater Online Monitoring Room

Rainwater Discharge Outlet



Sensor operated faucets installed at employees' canteen

Poster for washing hands

Activity of "2020 Green Campus" of Qingong Primary School

Environmental Knowledge Speech Contest of Primary School of Guangzhou Road

 **Industrial Technology Research Institute of Jiangsu Science and Technology Department Visting**	 **Suppliers Visiting**

3 STAKEHOLDER ANNOUNCEMENT AND CONSULTATION

Following the AWS Certification Requirements, before the on-site conformity assessment, SGS prepared a stakeholder announcement on July 16, 2020, which stated Qing Ding's intention to pursue AWS certification. Besides submitting to AWS for publication on the AWS website, the stakeholder announcement was also posted on the information disclosure bulletin board respectively installed at Hongdou International Community, and displayed on Qing Ding's website:

http://www.avaryholding.com/news.aspx?type=11&id=790

In addition, the stakeholder announcement was also displayed on SGS' website:

https://www.sgsgroup.com.cn/zh-cn/news/2020/06/cbe-0608-aws

SGS received no feedback information since the release of the stakeholder announcement.

Photo 3.1
Information Disclosure Bulletin Board Installed at Hongdou International Community, the community closest to the site

Photo 3.2
Information Disclosure Bulletin Board Installed at Bus Stop of Hongdou International City

Photo 3.3
Information Disclosure Bulletin Board Installed at the Bureau of Ecology and Environment of Huai'an Industrial Park

During the conformity assessment, SGS held a stakeholder consultation meeting. Table 3.1 presents the personnel interviewed.

Table 3.1 Personnel Interviewed during Stakeholder Consultation Meeting

Organization		Personnel Interviewed
Bureau of Ecology and Environment of Huai'an Industrial Park	Government authorities	Xuejun WU
Golden State Water Group Corporation		Hui XIAO
Chengdong Garden	Community	Yueping WU
Jiaxing South Court		Xiangzhen KONG
Huai'an Xinyatai Chemical Co., Ltd.	Supplier	Lei ZHOU
Huai'an Bingxin Paper Industry Co., Ltd.		Ya SONG
Fuyu Electronic Technology (Huai'an) Co., Ltd.	Neighbouring factory	Jinli JIANG
		Shunli ZHANG

Hong Heng Sheng Electronical Technology (Huaian) Co., Ltd.		Xingbing ZHOU
Qing Ding's Headquarters	Trade Union	Zhuqing LIU
Qing Ding's Employee	Employees' representative	Shuo YANG
		Lili ZHOU
AWS	Representative of AWS	Zhenzhen XU
		Sally GE

The stakeholder consulting meeting was held in a Qing Ding's conference room in the morning of 16 July, 2020. All participants gave a high appraisal to Qing Ding's efforts for its water stewardship. According to Mr. Xuejun WU, official from Bureau of Ecology and Environment of Huai'an Industrial Park, Qing Ding has become a local model enterprise in the promotion of environmental protection and water stewardship. Earlier in 2018, Qing Ding was successfully awarded the national "Green Factory" demonstration enterprise, becoming the second "Green Factory" enterprise in Huai'an City and the first "Green Factory" in the development zone. He also said that Qing Ding is one of the few factories in the development zone that adopts water reuse technology. Qing Ding is always willing to cooperate with local government authorities to promote water strewardship.

Mr. Hui XIAO, official from Golden State Water Group Corporation, shared that the quality of local water bodies has been improved a lot since the implementation of more stringent regulations on water pollution control. He gave a very high appraisal of Qing Ding's wastewater treatment and water recycling.

Mr. Deqing Wang from Enterprise Service Center of Luoyan Sub-district expressed his deep appreciation towards Qing Ding's promotion of rasing the public awareness of environmental protection and hoped Qing Ding can continue its promotion activities.

Managers of Qing Ding's suppliers, service provider and neighbouring factory showed their willingness to cooperate with Qing Ding to strengthen water stewardship, especially for sharing water-saving technologies.

Ms. Zhuqing LIU, president of Qing Ding's Trade Union mentioned that a series of measures have been taken by Qing Ding to improve employees' sanitation and health conditions including the implementation of 5S management for dormitories and the installation of suggestion box. All employees' representatives showed their satisfaction with Qing Ding's WASH conditions.

In addition, all stakeholders confirmed that they have never experienced a water shortage in Huai'an City.

Photo 3.4 and 3.5 show the stakeholders' consultation meeting.

Photo 3.4
SGS Auditor Introducing the Requirements of AWS Standard

Photo 3.5
Stakeholders Speaking at the Consultation Meeting

4 DESCRIPTION OF CATCHMENT

In terms of water withdraw, Qing Ding is supplied by the water plant in the Economic and Technological Development Zone of Huai'an City Water Supply Co., Ltd., and the source of the water is the Old Yellow River; the standby water source is the Chengnan Water Plant, and the water intake is the Erhe River.

In terms of sewage, the site adopts the principle of "Separation of Rainwater and Sewage". The production wastewater is treated by the WWTP in the factory, and the domestic wastewater is discharged into the municipal sewage network after being treated by the septic tank and oil separation tank to meet the discharge standard. Afterwards, further treated by the Wastewater Treatment Plant in the Economic and Technological Development Zone centrally. Discharge into Qing'an River after meeting the standard. Then it merges with the water inlet channel (Subei Irrigation Main Canal) on the west side of Nanmen Bridge in Chuzhou City, and enters the Yellow Sea through Funing City and Binhai City. The rainwater drains into the municipal rainwater network and flows into the Banzha Main Canal, which is an agricultural open channel for irrigation and drainage. It drains water from the Li Canal, and it is mainly used for irrigation of part of the farmland in the Economic and Technological Development Zone and Banzha Town of Huai’an City. The Banzha Main Canal connects to the Old Yellow River after passing through the development zone. Figure 4.1 shows the main location diagram of water intake and drainage.

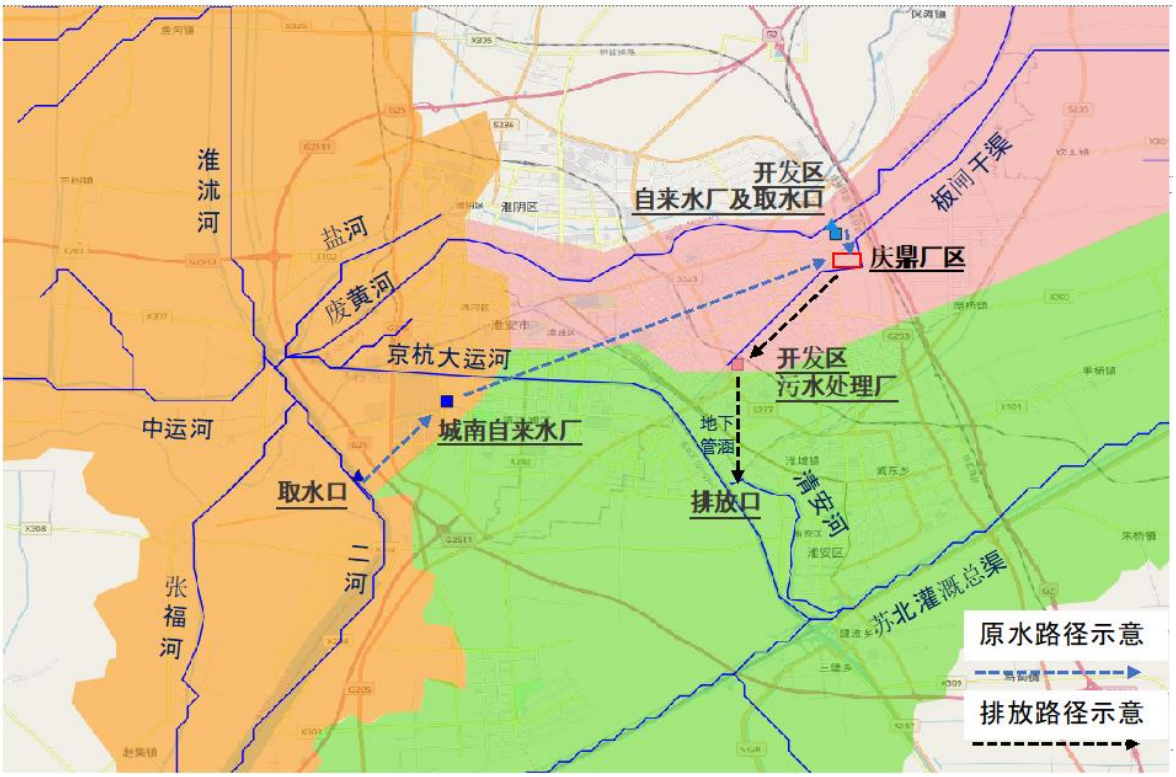


Figure 4.1 The Main Location Diagram of Water Intake and Drainage

Water Stewardship Boundary within the Site:

Qing Ding's internal water stewardship boundary is the red line boundary of the enterprise, with a total area of 336,700 m^2. The specific boundary, layout and water-related infrastructure are shown in Figure 4.2.

Figure 4.2 The Map of the Site

External Water Stewardship Boundaries (Basin Boundaries):

Based on the location of the water source and the final discharge destination, the external boundary (basin) for the site to carry out water stewardship is determined to be the Huaihe River Basin in Huai'an City.

The Huaihe River Basin is located at E112º-121º, N31º-36º, about 700 km long from east to west, 400 km wide from north to south, with a drainage area of 271,000 km^2. The Huaihe River Basin spans the four provinces of Henan, Anhui, Jiangsu and Shandong, with an area of 88,000 km^2, 67,000 km^2, 64,000 km^2 and 51,000 km^2 respectively. The basin borders the Yellow Sea in the east, Funiu Mountain and Tongbai Mountain in the west, and borders the Yellow River Basin to the north by the Yellow River South Dike and Yimeng Mountains, and to the south by Dabie Mountain, Wanshan Remains, Tongyang Canal and Rutai Canal South Dike and the Yangtze River Basin.

The Huaihe River Basin is divided into Yishusi River System and Huaihe River System with the Old Yellow River as the boundary. The Huaihe River system is mainly located in the three provinces of Henan, Anhui and Jiangsu, and the Yishusi river system is mainly located in the

two provinces of Jiangsu and Shandong. The areas of the two river systems are 190,000 km^2 and 80,000 km^2 respectively. The Yishu Si water system originated in the Yimeng Mountain area and merged into the Yellow Sea. The upper and middle Huaihe River system originated from Tongbai Mountain in Henan Province and merged into the Yangtze River in Sanjiangying. The basin boundary is shown in Figure 4.3.

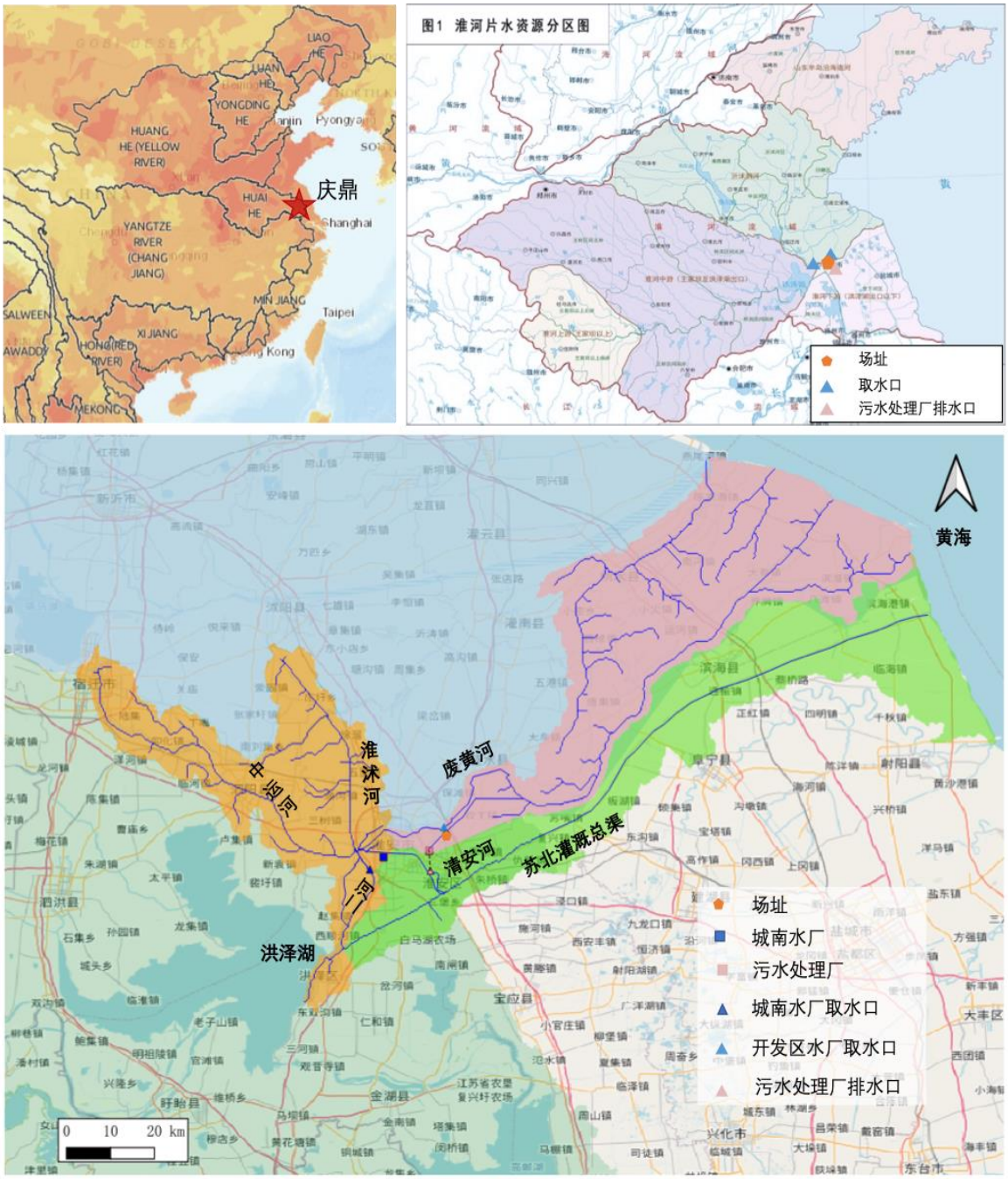


Figure 4.3 Site related Basin Map

5 SUMMARY OF SHARED WATER CHALLENGES

Qing Ding has identified shared challenges in the catchment and these are listed in Table 5.1.

Table 5.1 Detailed Shared Water Challenges for Qing Ding

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
1	Water quality deterioration caused by pollutants such as N, P and heavy metals	◆ Huai'an City's "Four Measures" to Preventing Water Pollution ◆ Huai'an City makes effort to fight the tough battle of black and smelly water ◆ "Special Law Enforcement Action Plan for Jiangsu Province to Win the Blue Sky Defense War" ◆ "Notice of Department of Ecology and Environment of Jiangsu Province on Adhering to Problem Orientation and Resolutely Fighting the Key Battle of the Yangtze River Protection and Restoration" (Su Huan Ban (2019) No. 359) ◆ Notice on the issuance of "Regulations on the Management of the List of Key Discharge Units (Trial)" (Huan Ban Jian Ce (2017) No. 86) ◆ The order to carry out a comprehensive attack on the sectional water quality reached the national/provincial standards and the comprehensive elimination of the black and odorous water body (No. 1 of 2019) ◆ Regarding the application for confirmation of the position of the Suzui Section of the drainage channel (Huai Huan Fa [2019] No. 205) ◆ Project for Comprehensive Control of Water Quality of Drainage Channels in Suzui and Yangwan Waist Gates (Huai Huan Fa [2020] No. 1) ◆ "Guidance Requirements on the Supervision of Sewage Treatment in the Centrally Isolated	Water quality may affect the living environment of surrounding communities.	More parameters of pollutants may be controlled, and stricter discharge standards may be implemented.	1	1. Directly increase the cost of site water treatment 2. If the control is not good, there is a significant risk of disrupting or slowing down plant operations.

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
		Medical Observation Point during the New Coronary Pneumonia Outbreak" ◆ "2020 Huai'an City Special Program for the Treatment of Untrustworthy Ecological Environmental Protection" (Huai Huan Fa [2020] No. 26) ◆ "Huai'an City Construction Project Environmental Impact Assessment Special Inspection Work Plan" (Huai Huan Fa [2019] No. 192) ◆ "Notice on the management of sewage treatment plant discharge permits and the clearance and rectification of fixed pollution source discharge permits" (Huai Huan Fa [2019] No. 64)				
2	Risks of Soil and Groundwater Contamination	◆ State Council Soil Pollution Prevention and Control Action Plan ◆ "Notice on Strengthening Soil Environmental Management of Key Soil Pollution Supervision Units" (Huai Huan Fa [2019] No. 258) ◆ "Notice on the Preliminary Sampling and Investigation of Soil Pollution Status of Key Supervised Enterprises" (Huai Huan Fa [2019] No. 248) ◆ "Notice of the Provincial Department of Ecology and Environment on Further Strengthening the Water Quality Guarantee of Centralized Drinking Water Sources" (Su Huan Ban [2019] No. 396) ◆ "Notice on the pilot evaluation work of soil pollution risk assessment, risk management and control, and remediation effect assessment report on construction land" (Su Huan Ban [2019] No. 309) ◆ Preliminary review opinion on the evaluation of the soil remediation effect of the contaminated	The supply chain shall pay attention to the quality of soil and groundwater at its site.	Increase in costs	1	Based on the site's location in the Huaihe River basin, the groundwater and soil quality of the site plot directly affects the long-term planning of the plant.

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
		site in the east block of Huai'an City Garden (Huai Huan Fa [2019] No. 226) ◆ "Huai'an City 2019 Work Plan for Soil Pollution Control" ◆ "Notice on strengthening the management of contaminated plots" (Huai Huan Fa [2019] No. 91)				
3	Increasingly stricter requirements of water efficiency and pollution discharge	◆ "Huai'an City Urban Drainage Management Measures" ◆ "Notice of the Provincial Department of Ecology and Environment on the investigation and rectification of the formalism of rural domestic sewage treatment" ◆ Management Rules of Discharge Permits (Trial) ◆ Law of the People's Republic of China on the Prevention and Control of Water Pollution ◆ "Notice on the issuance of the remediation plan for the treatment of rural domestic sewage in Huai'an City" (Huai Huan Fa [2019] No. 230) ◆ "Notice on Supervision of Medical Sewage and Municipal Sewage during the Epidemic of COVID-19 Disease" (Su Huan Ban [2020] No. 38) ◆ "Guidance Requirements on Supervision of Sewage Treatment at Medical Observation Point of Concentrated Isolation during the Epidemic of COVID-19 Disease" ◆ General Guidelines for Self-Monitoring Technical Guidelines of Discharge Unit (HJ819-2017) ◆ Huai'an City promotes water environment management to a new level ◆ Secretary of Huai'an Municipal Party Committee Mr. Xiaodong Yao investigates and promotes the water quality of Suzui Section and the treatment of black and odorous water bodies	Higher demand for water supply and drainage in the supply chain	Increase in costs of wastewater treatment and reuse	1	1. Directly increase the cost of site water treatment; 2. If the control is not good, there is a significant risk of disrupting or slowing down plant operations.

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
4	Extreme climate change such as flooding	◆ Order of the Ministry of Environmental Protection of Emergency Management Measures for Environmental Emergencies (Order No. 34) ◆ Huai'an City Emergency Response Plan for Environmental Emergencies (Huai Zheng Ban Fa [2017] No. 93) ◆ Jiangsu Province Natural Disaster Relief Emergency Plan ◆ Natural disaster relief emergency plan for Huai'an City Ecological Cultural Tourism Area ◆ Huai'an City Emergency Plan for Natural Disaster Relief ◆ 2018 Urban Flood Control Emergency Plan	Affecting residents' normal life and disrupting production	Restricting or interrupting production	3	At present, both the government authorities and the company have complete emergency mechanisms.
5	Increased water stress	◆ "Jiangsu Province Water Conservation Regulations" ◆ "Special Law Enforcement Action Plan for Jiangsu Province to Win the Blue Sky Defense War" ◆ "Jiangsu Province Water Saving Action Implementation Plan" ◆ "Farmland Water Conservancy Regulations" ◆ "Administrative Measures on Groundwater Resources of Huai'an City" ◆ Huai'an City Water Conservation Management Service Center ◆ Water Resources Management Department of Huai'an City Water Resources Bureau (Municipal Water Conservation Office)	Affecting the normal life of residents and the interruption of production of enterprises; Water Affairs Department Strengthens Water Resources Management	Restricting or interrupting production	3	At present, Jiangsu Province has a water resource allocation project, which can effectively solve the problem of water use in Huai'an City
6	Insufficient infrastructure	◆ "Huai'an City Water Resources Project Construction Credit Management Implementation Rules" ◆ "Notice on Issurance of the Three-year Construction Plan (2018-2020) of the Ecological Environment Monitoring and Monitoring System	Infrastructure management department needs to continuously improve infrastructure construction	Drainage restrictions influence production	4	The infrastructure has been improved and the site and the municipal facilities have been seamlessly connected.

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
		of Jiangsu Province" (Su Zheng Ban Fa [2019] No. 27) ◆ "Notice of the Huai'an City's Eco-Environmental Bureau on the Construction of Pollution Source Monitoring Facilities" (Huai Huan Fa (2019) No. 184) ◆ "Notice of the Provincial Department of Ecology and Environment on 'Technical Requirements for the Construction of Automatic Monitoring Stations for Surface Water Quality in Jiangsu Province - Station House, Water Collection and Cultural Construction (Trial)'" ◆ The municipal urban sewage treatment supervision information platform passed the acceptance				
7	Fragile ecosystem	◆ Huai'an Branch of Huai'an City Natural Resources and Planning Bureau strengthens forest resources supervision and management and promotes forestry governance capacity, Release date: 2020-05-29 ◆ Huai'an Branch of Huai'an City Natural Resources and Planning Bureau, together with the establishment unit to do a good job in checking the construction plan of small and micro wetlands, Release date: 2020-06-17 ◆ Protect Elk, We are in action, Release date: 2020-06-10 ◆ Take precautions in Huai'an District, Huai'an City to prevent and control forestry pests, Release date: 2020-05-27 ◆ Huai'an Branch of the Natural Resources and Planning Bureau of Huai'an City dispatched "people with specialized knowledge" to appear in court to assist in the trial of cases of illegally hunting wild animals, Release date: 2020-05-19	Poor overall environmental conditions in the region	The preliminary treatment of wastewater is quite important for the site.	4	Cooperation with government authorities in ecological restoration and protection work

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
		◆ "Four in place" forestry pest control in Huai'an District, Release date: 2020-05-19 ◆ Huai'an City accelerates the construction of small and micro wetlands, Release date: 2020-04-30 ◆ Huai'an City 2019 Environmental Status Bulletin - Ecological Environment ◆ Hongze Branch of Natural Resources Bureau of Huai'an City carried out Party Day activities on the theme of voluntary tree planting to promote green ecological construction, Release date: 2020-04-29 ◆ Huai'an City launches tree planting activity in "Heroine Forest", Release date: 2020-04-15 ◆ Huai'an City carried out a thorough investigation on the situation of wetland nature reserves, Release date: 2017-07-30 ◆ "Notice on Issurance of the Three-year Construction Plan (2018-2020) of the Ecological Environment Monitoring and Monitoring System of Jiangsu Province" (Su Zheng Ban Fa [2019] No. 27) ◆ Huai'an City strengthens wetland protection and promotes ecological harmony, Release date: 2014-04-21				
8	Increased water and wastewater costs	◆ Huai'an City Water Saving Management System ◆ Implementation Plan of Water Saving Action in Jiangsu Province ◆ Huai'an City over-quota over-plan progressive price increase system implementation plan ◆ Jiangsu Province Urban and Rural Water Supply Management Regulations ◆ Implementation plan for leading action of water efficiency leaders in Jiangsu Province ◆ Huai'an City Water Efficiency Leaders' Leading Action Implementation Plan	Increase in residents' living costs, and increase in enterprises' production costs	Increase in production costs	3	Internal control of the site

No.	Water Challenge	Associated Government Authority initiative/Plan*	Relevant/Rationale for Stakeholders	Relevant/Rationale for Site	Priority (1-4)	Rationale for Prioritization
		◆ National Water Saving Action Plan				

* Associated Government Authorities including national and local People's Governments, national and local environmental protection departments, national and local water affairs departments, etc.

6 INDICATORS CHECKLIST

6.1 CORE AWS INDICATORS

As per the requirement set out in the Section 2.11.3.1 of the AWS Certification Requirements, the following table 6.1 presents all the CORE AWS indicators with the relevant reviewed evidence provided by Qing Ding.

Table 6.1 Evidence Reviewed by SGS Against Each CORE AWS Indicator

Indicator	Details (Core)	Evidence Reviewed/Document Reference
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: - 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: • Map of site boundaries with entry point of water supply and discharge points of wastewater and rainwater. The site presents a square shape with the following surroundings: East: Chengdong Road; West: Pengding Road; South: Banzha Main Canal; and North: Zhuhai 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. REF001: Basin Water Challenge Analysis Report; REF002: River Basin Map of Qing Ding; REF003: Process for Updating Catchment Background Information (Document No.: SG-3B0-202E, Ver. A).

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		OBS 1: The watershed information that the site affects or relies on can be more clearly stated in the "Basin Water Challenge Analysis Report".
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 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.	The Identification, Evaluation and Control of Environment, energy Risks and Opportunities (with Document No.: ST-3B0-001EFH, Ver. A) 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 Qing Ding's business and have influence on Qing Ding's economic, environmental and social performance; • Stakeholders located in Qing Ding's physical scope and the catchment that Qing Ding affects and is reliant upon for water; • Vulnerable people; and • Stakeholders that are disclosed by Qing Ding's same industry. Finally, Qing Ding identifies 7 categories of stakeholders including: • Employees; • Shareholders; • Communities; • Customers; • Suppliers; • Government authorities; and • Media and NGOs, etc. A Process for Communication Management including internal and external communication has been also defined in Qing Ding's Process for Communication Management (Document No.: SG-3B0-041, Ver. H). Through stakeholder consultation, Qing Ding analysed water-related interests and challenges presented by different stakeholders. The degree of stakeholder engagement was also identified.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF004: Identification, Evaluation and Control of Environment, energy Risks and Opportunities (Document No.: ST-3B0-001EFH, Ver. A); REF005: Process for Communication Management (Document No.: SG-3B0-041, Ver. H). REF006: Analysis of Stakeholders List. OBS2: Supplement based on the content of interviews with stakeholders, such as employee concerns about WASH, water challenges due to the epidemic, etc.
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.	Qing Ding has identified the current and potential degrees of influence between site and the 7 categories of stakeholders, and 4 scales are defined based on their importance and interests. REF006: Analysis of Stakeholders List.
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.	Qing Ding 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; • Process for Natural Disaster Emergency Preparedness and Response covering typhoon, rainstorm, etc.; • Process for Preparedness and Response of EHS Emergency covering fire, chemical leakage, etc.; • Emergency Response for Abnormal or Suspension of Water Supply; and • Special Emergency Response Plan for El Niño. In addition, Qing Ding has registered its Huai'an Environmental Emergency Response Plan at Huai'an Ecology and Environment Bureau Economic and Technological Development Zone Branch on 13 January, 2020 with the Registration No.: 320861-2020-002. REF007: Huai'an Factory Environmental Emergency Plan (Document No.: SG-3B0-001F, Ver. D); REF008: Qing Ding's Special Emergency Response Plan for El Niño;

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF009: Process for Preparation and Response of EHS Emergency (Document No.: SG-2B0-008, Ver. D); REF010: Huai'an Environmental Engineering Operation Division Emergency Water Stop Operation Specification (Document No.: SG-3B8-004F, Ver. C); REF011: Wastewater Treatment Emergency Preparedness of Environmental Engineering Operation Section (Document No.: SG-3B8-008F, Ver. D); REF012: Procedure for Occupational and Epidemic Disease Prevention and Treatment Management (Document No.: SG-2B0-005EFGH, Ver. D); REF013: Process for Emergency Response Management of Food-Poisoning (Document No.: SG-3B0-153EFGH, Ver. C); REF014: Process for Production Emergency Response Management (Document No.: SQ-3B8-183, Ver. E); REF015: Process for Emergent Preparation and Response of Natural Disasters (Document No.: SG-3B0-146EFGH, Ver. E); REF016: Registration Form for Qing Ding's Environmental Emergency Response Plan issued by Huai'an Ecology and Environment Bureau Economic and Technological Development Zone Branch on 13 January, 2020.
1.3.2	Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped.	A volumetric balance of water input and output is identified by Qing Ding on a monthly basis, and mapped the water balance report internal annually, and outsourcing the professional organization per three years. Its analysis of water balance complies with the "General Principles of Water Balance Test in Enterprises (GB/T 12452-2008)", a China national standard. We randomly reviewed Qing Ding's water balance maps in January-February, 2020 during site visit. REF017: The Test Report of Water Balance; REF018: Water Saving Survey and Water Balance Clean Water Program.
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	Qing Ding has established a large database for water balance, and monthly variance in water usage is identified and mapped. REF019: Large Database for Water Balance Established by Qing Ding.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
	environment, an indication of annual high and low variances shall be quantified.	
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.	Qing Ding 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 quarterly • Domestic sewage is tested by a qualified third party quarterly; • Rainwater is tested by a qualified third party twice a year; • Soil and groundwater is tested by a qualified third party twice a year; and • 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. We randomly checked the monitoring records during site visit, and all testing results fully complied with relevant national or local standards. REF020: Testing report for Qing Ding's secondary water supply provided by Huai'an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-04); REF021: Testing report for industrial wastewater provided by Huai'an Huai Testing Technology Co., Ltd. on 19 December, 2019 (Report No.: HC1912003-01); REF022: Testing report for domestic sewage, rainwater, soil and groundwater provide by Huai'an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-03); REF023: Self-testing report for wastewater on 25 February, 2020.
1.3.5	Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.	Qing Ding 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. In addition, Qing Ding has mapped the identified potential sources of pollution.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		MIN1: The shower water from several shower and eye-washer equipment is not connected to the sewage pipeline together with the eye-washer sewage. When using the shower, the sewage will flow into the rainwater network directly, but Qing Ding has not confirmed the pollution source. REF024: Environmental risk and opportunity identification, evaluation and control measures table; REF025: Map of 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.	OBS3: The company recognizes the plant's greening as an Important Water-Related Area, and the plant's greening area needs to be further marked on the plan. According to the "General Layout of Huai'an Site", the green area rate is 14.8%, and the company's green area rate is 35%, which is inconsistent. REF026: General Layout of Huai'an Site; REF027: List of Ecological Red Line Regions in Huai'an City.
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.	During the audit, we reviewed the cost analysis of Qing Ding's water stewardship, which is divided into three categories including water cost for domestic use, water cost for production use and wastewater treatment. The water cost for production use covers recycled water, filtered water, soft water, RO water and purified water. In addition, Qing Ding also provides drinking water for local sanitation workers and deliverymen. Every year from 22 April (the World Earth Day) to 5 June (the World Environment Day), water-related education for local schools is held such as environmental protection lecture and visit to Qing Ding's wastewater treatment station. REF028: Cost analysis of Qing Ding's Water Stewardship; REF029: Qing Ding's Corporate Social Responsibility Report 2019.
1.3.8	Levels of access and adequacy of WASH at the site shall be identified.	Qing Ding 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, Qing Ding 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

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		water quality monitoring on a yearly basis. We reviewed the maintenance records in 2019 and the drinking water quality test report provided by Jiangsu Urban Water Supply Quality Monitoring Network on 5 July, 2019, a qualified third party entrusted by Qing Ding. For the sanitation and hygiene installations, Qing Ding has issued a "Process for the Product Environment Protection Management". We reviewed the check records in September 2019 during site visit. In addition, Qing Ding also provides awareness trainings of WASH for its employees. We checked the training records on 27 June 2019. The interview with Qing Ding's employees further confirmed that they are satisfied with their WASH conditions. REF030: Statistics list of sanitary facilities in Huai'an Site; REF031: Process for Drinking Machine Management of Qing Ding's EHS Management System (Document No.: SG-3B0-241EFGH); REF032: Process for the Maintenance of Drinking Water Machine System of Qing Ding's EHS Management System (Document No.: SG-3B0-199); REF033: Maintenance records of drinking machines in 2019; REF034: Drinking Water Quality Test Report on 5 July, 2019, by Huai'an Monitoring Station of Jiangsu Urban Water Supply Quality Monitoring Network.
1.4	**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.	Qing Ding has established a list of production 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, Qing Ding has also analysed the water related risk level in the catchment where its suppliers are located. REF035: Identification of embedded water use of primary inputs; REF036: Analysis of water risk level by using WWF Water Risk Filter.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
1.4.2	The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.	A list of outsourced services within the site's catchment has been established by Qing Ding. Meanwhile, the intensity of water consumption and water pollution has been analysed based on their water quantity and quality. REF037: Identification of embedded water use of outsourced services.
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.	Qing Ding has established a "Legal Knowledge Network", by which Qing Ding 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 Qing Ding's Legal Knowledge Network during site visit. REF001: Basin Water Challenge Analysis Report.
1.5.2	Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.	By using its "Legal Knowledge Network", Qing Ding has identified applicable water-related legal and regulatory requirements and a Form for Compliance Evaluation of Laws and Regulations has been developed. We reviewed Qing Ding's Evaluation Report for Compliance with Laws and Regulations Issued in the First Half of 2020 during site visit. The evaluation results showed Qing Ding's compliance. REF038: Evaluation Report for Compliance with Laws and Regulations Issued in the First Half of 2020.
1.5.3	The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.	Generally speaking, the local water resources are relatively poor, the amount of transit water is plentiful, and the incoming water source is abundant. Through the dispatch of various water conservancy projects, Huaishui, Jiangshui, and Yishui can basically meet the needs of residents, industrial and agricultural production in Huai'an City. During the 13th Five-Year Plan period, the Huai'an Water Resources Protection Project has invested a total of 1.380 million yuan. The specific construction projects include: 1) Water source protection project; 2) East route supporting project of South-to-North Water Diversion; 3) Reserve project planning project. REF001: Basin Water Challenge Analysis Report.
1.5.4	Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where	As of February 2020, there are a total of 108 sections in Huai'an area of the Huaihe River Basin, including 5 with Grade I water quality, 21 with Grade II water quality, 69 with Grade III

Indicator	Details (Core)	Evidence Reviewed/Document Reference
	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.	water quality, 10 with Grade IV water quality, 2 with Grade V water quality, and 1 with inferior Grade V water quality. There are 0 black and smelly water bodies. During the "13th Five-Year Plan" period, a total of 8 sections in Huai'an City were included in the national " The Action Plan for Prevention and Treatment ofWater Pollution" evaluation. REF001: Basin Water Challenge Analysis Report; REF039: 2018 Huai'an Water Resources Bulletin; REF040: Water quality of some river sections in the Huaihe River Basin.
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.	The Section 3.4 of the "Basin Water Challenge Analysis Report" has collected the "Conservation Plan for Ecological Red Line Areas of Jiangsu Province", which identified the Important Water-Related Areas in the catchment. OBS4: The two Important Water-Related Areas closest to the site in the "List of Ecological Red Line Regions in Huai'an City" are "Old Yellow River (Huai'an City) Important Wetland Park" and "Huai'an Ancient Huaihe Provincial Wetland Park", but only "Old Yellow River Wetland Park" is marked in the "Important Water-Related Area Map". REF001: Basin Water Challenge Analysis Report; REF027: List of Ecological Red Line Regions in Huai'an City; REF041: The identification report of Important Water-Related Areas.
1.5.6	Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.	The Section 3.5 of the Basin Water Challenge Analysis Report. 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. REF001: Basin Water Challenge Analysis Report.
1.5.7	The adequacy of available WASH services within the catchment shall be identified.	The GDP of Jiangsu Province is second only to Guangdong Province in China. The adequacy of available WASH services within the catchment is also in a leading position in China. Taking Huai'an as an example, according to Huai'an Statistical Yearbook in 2019: • Rate of Urban Drinking Water Quality Reaching Standard: 100%; • Rate of Treatment of City Domestic Wastewater: 83.2%;

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		• Rate of Treatment of Municipal Solid Wastes: 100%; • Number of Public Toilets: 0.69 set/10k person, which is Higher than the national average. REF042: Huai'an Statistical Yearbook in 2019; REF043: City Appearance and Environmental Sanitation by City in 2018; REF044: The Level of Municipal Public Facilities in 2018.
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.	The Section 4 of the Basin Water Challenge Analysis Report identifies 7 shared challenges in the catchment including: • Deterioration of water quality in the catchment caused by non-compliance discharge of N, P and heavy metals; • Risk of soil and groundwater contamination; • Increasingly stricter requirements of water efficiency and pollution discharge; • Extreme climate change such as flood; • Unceasingly increased water resource stress; • Insufficient infrastructure; • Vulnerable ecosystem; and • Increase of water and wastewater cost. Meanwhile, based on the analysis of relevance/rationale for stakeholders and relevance/rational for the site, Qing Ding has prioritized the shared challenges. REF001: Basin Water Challenge Analysis Report; REF045: List of Shared Water Challenges in the Catchment.
1.6.2	Initiatives to address shared water challenges shall be identified.	Initiatives to address shared water challenges have been also identified in the List of Shared Water Challenges in the Catchment. REF045: List of Shared Water Challenges in the Catchment.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
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.	Qing Ding has identified its water risks in 12 respects covering water governance, sustainable water balance and water quality. Based on risk analysis, Qing Ding 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. REF046: Qing Ding's Water Risk Assessment Report; REF047: Qing Ding's Water Risks and Opportunities Table 20200410; REF048: Qing Ding's Environmental Risk and Opportunity Identification, Evaluation and Control Measures Table.
1.7.2	Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.	Based on the analysis of water risks faced by the site, Qing Ding has also identified its water-related opportunities including potential saving/value creation, priority and strategy to realize opportunity. REF047: Qing Ding's Water Risks and Opportunities Table 20200410; REF048: Qing Ding's Environmental Risk and Opportunity Identification, Evaluation and Control Measures Table.
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.	Qing Ding 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; and • Communicating on its own water stewardship to set a leading example to others.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF049: Application for Water Efficiency Leader in Jiangsu Province.
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.	Qing Ding was awarded as the Provincial Water Efficiency Leader in 2019, and it has identified relevant sector and/or catchment best practice for water balance including: • Stormwater capture; • 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; • Undertake a leak detection and measurement assessment; and • Install water efficient fittings, for example for toilets, wash rooms, equipment washing facilities, bath installations, etc. REF049: Application for Water Efficiency Leader in Jiangsu Province.
1.8.3	Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.	Qing Ding 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. REF049: Application for Water Efficiency Leader in Jiangsu Province.
1.8.4	Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.	The original breakwater of the Banzha Main Canal on the south side of the company is a fir structure, which has collapsed due to water erosion and other reasons. The river embankment has lost a lot of soil. In order to prevent further water and soil loss, the company solidified the breakwater of the Qingding section of the Banzha Main Canal into cement stones.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		Qing Ding installs groundwater monitoring wells between the site and IWRA to monitor changes in groundwater quality, as well as set an annual monitoring plan for soil annually and groundwater twice a year.
1.8.5	Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.	To ensure to provide adequate sanitation for all in the workplace, Qing Ding has adopted WSCSD self-assessment tool, a checklist of water, sanitation and hygiene reference pints to conduct a corporate-wide survey and understand the water, sanitation and hygiene practices being implemented at each of the site's premises under direct control, as well as guiding principles for implementation. Qing Ding equipped with adequate drinking machines, and cleaning, disinfection, monitoring regularly, as well as providing clean sanitation facilities. REF049: Application for Water Efficiency Leader in Jiangsu Province; REF050: Qing Ding's WSCSD Self-assessment Tool; REF051: GBZ 1-2010 Hygienic standards for the design of industrial enterprises.
2	**COMMIT AND 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	A water stewardship commitment to follow all the AWS core criteria has been signed by both Avary Holding's CEO and Environmental Supervisor. The commitment has been displayed on Avary Holding's website: http://www.Avary Shenzhenholding.com/upload/file/2019-11-11/9be97297-cfca-4173-a6d1-eacfe4f8adec.pdf

Indicator	Details (Core)	Evidence Reviewed/Document Reference
	- That the site will allocate resources to implement the Standard.	
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.	Qing Ding's Organization Chart of Integrated Management System clearly shows the manager representative of environment and water stewardship, the responsible department and person. In addition, Qing Ding has issued a "Procedure for Compliance Evaluation of Laws and Other Requirements", which specifies the collection of relevant laws and regulations including through the way of communication with local government authorities, and requirements of compliance evaluation. REF052: Qing Ding's Organization Chart of Integrated Management System; REF053: Procedure for Compliance Evaluation of Laws and Other Requirements (Document No.: ST-2B0-008, Ver. K).
2.3	**Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.**	
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.	Qing Ding has developed a water stewardship strategy, which specifies that Qing Ding's water stewardship will follow the idea of "Peng Ding 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

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		• Strengthen internal communication and facilitate the understanding of water-related policies. In addition, Qing Ding's Future Business Development Strategy (2013-2022) also sets up the targets in 2022, covering: • Water saving: 50% • Electricity saving: 50% • Reduction of carbon emission: 50% • Reduction of wastes: 50% • Rate of water reuse: 50% REF054: Qing Ding's Water Stewardship Strategy; REF055: Qing Ding's Future Business Development Strategy (2013-2022).
2.3.2	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.	Qing Ding has developed its "Water Stewardship Plan - Improvement Action List (Year 2020)", which specifies targets, required actions, measurement, cost and benefit, accountable and responsible persons, deadline, performance evaluation, etc. The water stewardship plan is corresponding to Qing Ding's water challenges and opportunities and covers the AWS outcomes of water governance, water balance and water quality. In addition, a special plan for reuse of wastewater containing heavy metals has been developed by Qing Ding. OBS5: In 2019, Qing Ding's unit product water consumption actually reached the environmental target of 0.84 t/m^2, but the unit product water consumption target set in 2020 is 1.62 t/m^2, which does not meet the best practice of continuous improvement. Although Qing Ding has considered the impact of the COVID-19 and new production lines. REF056: Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020); REF057: 2020 "Peng Ding Seven Greens" KPI.
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.	Qing Ding has developed a series of water-related incident response plans, among which the environmental emergency response plan covering leakage accident, non-compliance of wastewater discharge because of failure of wastewater treatment station and banned

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		discharged by local municipal wastewater treatment plant has registered at Huai'an Ecology and Environment Bureau Economic and Technological Development Zone Branch on 13 January, 2020 with the Registration No.: 320861-2020-002. In addition, an on-line monitoring equipment has been installed at Qing Ding's wastewater treatment station and networked with local environmental protection authority. REF007: Huai'an Factory Environmental Emergency Plan (Document No.: SG-3B0-001F, Ver. D); REF009: Process for Preparation and Response of EHS Emergency (Document No.: SG-2B0-008, Ver. D REF010: Huai'an Environmental Engineering Operation Division Emergency Water Stop Operation Specification (Document No.: SG-3B8-004F, Ver. C); REF011: Wastewater Treatment Emergency Preparedness of Environmental Engineering Operation Section (Document No.: SG-3B8-008F, Ver. D); REF012: Procedure for Occupational and Epidemic Disease Prevention and Treatment Management (Document No.: SG-2B0-005EFGH, Ver. D); REF013: Process for Emergency Response Management of Food-Poisoning (Document No.: SG-3B0-153EFGH, Ver. C); REF014: Process for Production Emergency Response Management (Document No.: SQ-3B8-183, Ver. E); REF015: Process for Emergent Prepareation and Response of Natural Disasters (Document No.: SG-3B0-146EFGH, Ver. E); REF016: Registration Form for Qing Ding's Environmental Emergency Response Plan issued by Huai'an Ecology and Environment Bureau Economic and Technological Development Zone Branch on 13 January, 2020.
3	**IMPLEMENT**	
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.	Qing Ding actively supports and participates in good catchment governance. Based on the interviews with officials from local water saving office and environmental protection bureau, Qing Ding is always willing to be selected by local government authorities as a pilot

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		enterprise to promote good catchment governance such as water reuse, adoption of water-efficient technologies and implementation of water balance test. In fact, Qing Ding has become a local model enterprise in the promotion of environmental protection and water stewardship. Earlier in 2018, Qing Ding was successfully awarded the national "Green Factory" demonstration enterprise, becoming the second "Green Factory" enterprise in Huai'an City and the first "Green Factory" in the development zone. Meanwhile, Qing Ding was awarded as the Provincial Water Efficiency Leader in 2019. In 2020, Qing Ding was nominated as the first batch of environmental protection demonstration enterprises issued by Huai'an Economic and Technological Development Zone. In response to the call of Huai'an Water Conservation Center, Qing Ding set the 2020 Water Usage Plan. In addition, Qing Ding norminated employees to participate in the 2019 National Water Conservation Knowledge Competition held by the Ministry of Water Resources of China. REF049: Application for Water Efficiency Leader in Jiangsu Province; REF058: Notice on the Implementation of the 2020 Water Usage Plan Declaration Activity; REF059: Records of participating in catchment governance meetings and trainings; REF060: Government Information Registration Form; REF109: The first batch of environmental protection demonstration enterprises in Huai'an Economic and Technological Development Zone declared and recognized.
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.	By using its “Legal Knowledge Network”, Qing Ding can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Qing Ding 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 Qing Ding can assess its compliance status in time. According to the interviews with local government officials and people from local community, no water-related non-compliance has happened in Qing Ding. In addition, the interviewees also confirmed that there are no indigenous peoples in the catchment. REF053: Procedure for Compliance Evaluation of Laws and Other Requirements (Document No.: ST-2B0-008, Ver. K);

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF061: Evaluation Report for Compliance with Laws and Regulations Issued in 2020.
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.	By using its "Legal Knowledge Network", Qing Ding has identified applicable water-related legal and regulatory requirements in a timely manner. Qing Ding has also developed a Form for Compliance Evaluation of Laws and Regulations. We reviewed Qing Ding's Evaluation Report for Compliance with Laws and Regulations Issued in the First Half of 2019 during site visit. The evaluation results showed Qing Ding's full legal and regulatory compliance. REF061: Evaluation Report for Compliance with Laws and Regulations Issued in 2020.
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.	Refer to the Criterion 3.1.2.
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.	Qing Ding has set up the following targets for the quantity of water intake for unit product and the reuse rate of industrial water in its water stewardship plan. • For the product of FPC: 1.62 m^3/m^2, including fresh water and reused water; • For the reuse rate of industrial water: 42%. Currently, the average quantity of water intake for unit product of FPC is 0.63 m^3/m^2, and reuse rate of industrial water is 38%. Based on the Qing Ding's water stewardship plan, to meet the targets mentioned above, Qing Ding implemented the Wastewater Reuse Project by adopting the technology of Pre-treatment + TMF (microfiltration) + RO process. The project has been completed and accepted. REF056: Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020); REF062: Review report on wastewater reuse rate.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
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.	Although the catchment where the site is located has never faced water scarcity, Qing Ding has been still implementing a series of water saving projects to increase its water use efficiency. Refer to the Criterion 3.3.1. REF056: Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020).
3.3.3	Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.	Not applicable. No legally-binding documentation is issued by local government authorities to Qing Ding for the re-allocation of water to social, cultural or environmental needs.
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.	Qing Ding has developed a secondary water supply and wastewater monitoring program. The random check of monitoring records showed all testing results fully complied with relevant national or local standards. REF020: Testing report for Qing Ding's secondary water supply provided by Huai'an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-04); REF021: Testing report for industrial wastewater provided by Huai'an Huai Testing Technology Co., Ltd. on 19 December, 2019 (Report No.: HC1912003-01); REF022: Testing report for domestic sewage, rainwater, soil and groundwater provide by Huai'an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-03); REF023: Self-testing report for wastewater on 25 February, 2020.
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.	Qing Ding has defined the stricter discharge limits for its effluent, which are 80% of the permitted discharge levels specified in the "Discharge Standard of Pollutants for Electroplating" (GB 21900-2008-Table 2) issued by the Environmental Protection Department. The daily self-testing records for discharged wastewater showed that all testing results are far lower than 80% of provincial standards. REF063: Daily and Monthly Self-testing Results of Discharged Wastewater in 2020.
3.5	**Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.**	

Indicator	Details (Core)	Evidence Reviewed/Document Reference
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.	Qing Ding recognizes the plant's greening as an Important Water-Related Area in the site, and the greenings are maintained monthly by Jiangsu Xinkeda Landscape Design Co., Ltd.. REF064: Greening maintenance project acceptance record in November, 2019.
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.	Qing Ding provides dormitories and canteen for its 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 review of Qing Ding's "Statistics of WASH Installations" showed that its WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010). In addition, Qing Ding has adopted WSCSD Self-assessment Tool. The assessment results demonstrated that the site has provided adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite. The visit to employees' dormitories and workshops, as well as the interviews with employees further confirmed Qing Ding's compliance with this criterion. REF050: Qing Ding's WSCSD Self-assessment Tool; REF051: GBZ 1-2010 Hygienic standards for the design of industrial enterprises; REF065: GB 5749-2006 Standards for Drinking Water Quality.
3.6.2	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.	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 Qing Ding's employees, local community and local government authorities.
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.	Based on Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020), Qing Ding will carry 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. A total of 69 suppliers were identified. A water stewardship questionnaire is developed and sent to

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		Qing Ding's suppliers and service providers. Based on the suppliers and service providers' feedback information, Qing Ding analysed their intensity of water consumption and water pollution. REF066: Records of carrying out a survey for the water use of suppliers and service providers.
3.7.2	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.	On 28 August, 2019, Qing Ding's Headquarters organized a seminar and invited its suppliers and service providers to attend. During the seminar, Headquarters introduced the AWS standard, shared its water stewardship plan and encouraged its suppliers and service providers to improve their water stewardship. We reviewed the training materials and attendance list. In addition, Qing Ding is always actively engaged in assisting its suppliers and service providers to take corrective actions for their non-compliance. REF067: Training materials for its suppliers and service providers; REF068: Seminar attendance record.
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.	Qing Ding keeps a close contact with local water-related infrastructure owners through many ways such as Wechat, e-mail, phone call or written letter. Based on the review of contact records kept by Qing Ding, main issues notified to local water-related infrastructure owner included newly added rainwater and wastewater pipes, municipal drainage facilities and floor control facilities, etc. The local water-related infrastructure owner had taken quick actions to solve the issues mentioned above. REF069: Records of communicating with local water-related infrastructure owner.
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.	Qing Ding has developed a "Process for AWS Management", which specifies the senior-most manager and his responsibilities, the process for AWS management, the evaluation and update the site's water stewardship plan, etc.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF010: Huai'an Environmental Engineering Operation Division Emergency Water Stop Operation Specification (Document No.: SG-3B8-004F, Ver. C); REF011: Wastewater Treatment Emergency Preparedness of Environmental Engineering Operation Section (Document No.: SG-3B8-008F, Ver. D); REF070: SOP for Waste Water Recycle (Document No.: EB0-YA10-057E, Ver. D); REF071: Safety Operation Procedure of Water Reuse (Document No.: EB8-YR20-020F, Ver. A); REF072: Environmental protection and energy conservation management measure for equipment procurement assessment and acceptance check (Document No.: ST-3B0-083EFGH, Ver. H); REF073: Methods of Reward and punishment for environmental protection (Document No.: SG-3B0-007F, Ver. A); REF074: SOP for Waste Water Recycle (Document No.: SG-3B8-027F, Ver. A); REF075: Sop for Waste Water Disposal (Document No.: SG-3B8-007F, Ver. F); REF076: Sop for Water Supply System of Environmental Engineering Operation Section (Document No.: SG-3B8-005F, Ver. D).
3.9.2	Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.	As one of "Peng Ding Seven Greens", the "Green Recycling" describes the recycling of water resources including: • Stormwater capture and recycling; • Recycling of grey water/wastewater for pure water preparation; • Collection and recycling of various wastewater for toilet flushing, washing tower, greenbelt irrigation, wastewater treatment station and cooling tower; and • Recycling of treated effluent of domestic wastewater. In addition, water efficient fittings are installed for toilets, wash rooms, equipment washing facilities, bath installations, etc. Qing Ding also provides training for employees to raise their water saving awareness. Water saving marks are installed at visible places such as canteen, dormitories, wash rooms and toilets.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		Currently, Qing Ding has signed agreement with a qualified third party to conduct water balance test. REF017: The Test Report of Water Balance; REF018: Water Saving Survey and Water Balance Clean Water Program; REF019: Large Database for Water Balance Established by Qing Ding; REF057: 2020 “Peng Ding Seven Greens” KPI; REF077: Memo and records of publicity campaign regarding environmental protection and energy saving.
3.9.3	Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.	Water quality is classified in accordance with the different water use such as use for production purpose, use for domestic purpose and use for other purpose. Qing Ding periodically monitors all kinds of water, and the testing results fully comply with relevant national or provincial standards. In addition, on-line monitoring devices had been installed at Qing Ding’s wastewater treatment station and networked with local environmental protection authority. REF020: Testing report for Qing Ding’s secondary water supply provided by Huai’an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-04); REF021: Testing report for industrial wastewater provided by Huai’an Huai Testing Technology Co., Ltd. on 19 December, 2019 (Report No.: HC1912003-01); REF022: Testing report for domestic sewage, rainwater, soil and groundwater provide by Huai’an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-03); REF023: Self-testing report for wastewater on 25 February, 2020.
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.	Qing Ding recognizes the plant's greening as an Important Water-Related Area in the site, and the greenings are maintained monthly by Jiangsu Xinkeda Landscape Design Co., Ltd.. REF064: Greening maintenance project acceptance record in November, 2019.
3.9.5	Actions towards achieving best practice related to targets in terms of WASH shall be implemented.	Qing Ding has adopted WSCSD Self-assessment Tool. The assessment results demonstrated that the site has provided adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF050: Qing Ding's WSCSD Self-assessment Tool.
4	**EVALUATE**	
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.	Based on Qing Ding's water stewardship plan, 7 actions will be taken to achieve water stewardship outcomes related to good water governance, sustainable water balance and good water quality status. The implementation schedule has defined for each action. Currently, Qing Ding has successfully completed 2 actions including: • Thorough survey for the water usage of suppliers and service providers. The survey results will provide the basis for Qing Ding in assisting its suppliers and service providers to develop water stewardship plan in the future; • Testing of soil and groundwater at the site to know their current quality. The other actions are in progress based on their implementation schedule. REF056: Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020); REF066: Records of carrying out a survey for the water use of suppliers and service providers; REF077: Memo and records of publicity campaign regarding environmental protection and energy saving.
4.1.2	Value creation resulting from the water stewardship plan shall be evaluated.	Qing Ding analysed its costs and value creation resulting from the implementation of water stewardship plan. Through water recycling program, Qing Ding creates revenue of RMB 1,053,200 in 2019. REF078: Qing Ding's Water Saving Achievement Report.
4.1.3	The shared value benefits in the catchment shall be identified and where applicable, quantified.	Through holding the publicity campaign regarding environmental protection and energy saving, the public' awareness of environmental protection is greatly promoted. The publicity campaign brings enormous social benefit in the catchment. In addition, Qing Ding has monitored the water quality of surrounding water bodies for many years and shared the testing results with local environmental protection authority. What Qing Ding does can effectively help local environmental protection authority to reduce the risk of water pollution.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
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.	Not applicable. No water-related emergencies and extreme events occurred at the site in recent years.
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 identified.	Qing Ding performed a satisfaction survey regarding its water stewardship since March, 2020. A Stakeholder Evaluation and Analysis Report in 2020 was prepared. The survey results showed that 69.51% of interviewees are quite satisfied with Qing Ding's water stewardship, 14.61% of interviewees are satisfied with Qing Ding's water stewardship, and 10.31% interviewees are generally satisfied with Qing Ding's water stewardship. The stakeholders' main focuses are Qing Ding's wastewater management and its promotion of environmental protection. In addition, during site visit, the meeting with stakeholders also showed their satisfaction of Qing Ding's water stewardship. REF079: Records of Stakeholder Consultation; REF080: Summary Statistics of Stakeholder Satisfaction Survey 20200616.
4.4	**Evaluate and update the site's water 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 identified.	Not applicable. This is the initial assessment.
5	**COMMUNICATE & DISCLOSE**	
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.**	

Indicator	Details (Core)	Evidence Reviewed/Document Reference
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.	Qing Ding's Organization Chart of Integrated Management System clearly shows the manager representative of environment and water stewardship, the responsible department and person. In addition, Qing Ding 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. REF052: Qing Ding's Organization Chart of Integrated Management System; REF053: Procedure for Compliance Evaluation of Laws and Other Requirements (Document No.: ST-2B0-008, Ver. K).
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.	Qing Ding 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 suppliers and service providers through supplier conference; • Communicating with relevant stakeholders through its Headquarters' CSR report; and • Communicating with relevant stakeholders through CDP Disclosure Insight Action. REF067: Training materials for its suppliers and service providers; REF081: Avary Holding CSR Report in 2019; REF082: CDP Water Security 2019 Questionnaire.
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.	Qing Ding discloses a summary of its water stewardship performance, including quantified performance against targets in Avary Holding CSR Report and CDP Disclosure Insight Action annually. REF077: Memo and records of publicity campaign regarding environmental protection and energy saving; REF081: Avary Holding CSR Report in 2019;

Indicator	Details (Core)	Evidence Reviewed/Document Reference
		REF082: CDP Water Security 2019 Questionnaire.
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.	Qing Ding's Headquarters has disclosed its shared water-related challenges and efforts made to address these challenges on Qing Ding's website: http://www.Avary Shenzhenholding.com/upload/file/2019-11-11/9be97297-cfca-4173-a6d1-eacfe4f8adec.pdf In addition, Qing Ding's Headquarter also discloses its shared water-related challenges and efforts made to address these challenges through environmental protection and energy saving campaign and CSR report. REF077: Memo and records of publicity campaign regarding environmental protection and energy saving; REF081: Avary Holding CSR Report in 2019.
5.4.2	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.	Qing Ding has defined 22 April to 5 June of each year as its "Environmental Protection and Energy Saving Month". By using this opportunity, Qing Ding 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. REF077: Memo and records of publicity campaign regarding environmental protection and energy saving.
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.	No water-related compliance violations occurred at the site to date. The interviews with officials from local government authorities also confirmed Qing Ding's compliance with national and local water related regulations.
5.5.2	Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.	Refer to the Criterion 5.5.1. No water-related compliance violations occurred at the site to date.
5.5.3	Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be	Refer to the Criterion 5.5.1. No water-related compliance violations occurred at the site to date.

Indicator	Details (Core)	Evidence Reviewed/Document Reference
	immediately communicated to relevant public agencies and disclosed.	

6.2 ADVANCED-LEVEL AWS INDICATORS

SGS also conducted a benchmarking exercise for Qing Ding's performance against the AWS Advanced-Level Criteria. The evaluation results are presented in the following Table 6.2.

Table 6.2 Evidence Reviewed by SGS Against Advanced-Level AWS Criteria

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
1	**GATHER AND UNDERSTAND**		
1.4.3	The embedded water use of primary inputs in catchment(s) of origin shall be quantified. (7 points)	Qing Ding 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, Qing Ding has also analysed the water related risk level in the catchment where its suppliers and outsourced service providers are located. REF035: Identification of embedded water use of primary inputs; REF036: Analysis of water risk level by using WWF Water Risk Filter; REF037: Identification of embedded water use of outsourced services.	7
1.5.8	Efforts by the site to support and undertake catchment level water-related data collection shall be identified. (4-7 points)	Qing Ding established a pollution prevention testing mechanism. The site is adjacent to the Banzha Main Canal, which connecting to the Old Yellow River after passing through the development zone. To know the water quality of the Banzha Main Canal, Qing Ding has self-tested the river's water quality on twice a month basis since 2019. Three monitoring points are selected and respectively located at upstream, midstream and	6

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		downstream far away from the site, and shares the testing results with local environmental protection authority. The testing parameters consist of pH, total copper, TP, COD and NH_3-N. The test reults are total meet the GB3838-2002 Class V standard. Meanwhile, Qing Ding entrusts Jiangsu Lvtai Testing Technology Co., Ltd. to conduct the soil and groundwater testing annually. Qing Ding also established a basin water quality collection mechanism, including: • Water quality collection of factory water: quarterly; • Water quality collection of pipe network: quarterly; • Water quality data collection of water sources: monthly; • Water quality data collection of the sewage treatment plant in the development zone: monthly; • Water quality data collection of Qing'an River: annually; • Water quality data collection of surrounding enterprises: annually. We reviewed Qing Ding's self-testing database and testing reports during site visit. Above all is about water quality, so only one type of external water-related data is collected. REF083: Self-test record of water quality of the Banzha Main Canal; REF084: Testing report for soil and groundwater provide by Jiangsu Lvtai Testing Technology Co., Ltd. on 5 Nov., 2019 (Report No.: LT190228A11); REF085: Sharing water quality testing results with local environmental protection authority via Wechat.	
1.5.9	The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified. (4 points)	Qing Ding 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. REF035: Identification of embedded water use of primary inputs.	4
1.6.3	Future water issues shall be identified, including anticipated impacts and trends. (3 points)	Qing Ding has identified future water issues, anticipated impacts and trends in the section 3&4 of the Basin Water Challenge Analysis Report and the list of shared water challenges in the catchment.	3

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		REF001: Basin Water Challenge Analysis Report; REF045: List of Shared Water Challenges in the Catchment.	
1.6.4	Potential water-related social impacts from the site shall be identified, resulting in a social impact assessment with a particular focus on water. (4 points)	Qing Ding 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; • Analysis of Envrionmental Benefit; • Impacts on Water Resources; • Wastewater and Environmental Impacts; and • Public Engagement. According to Qing Ding's top management, Qing Ding will use the opportunity of applying for AWS certification to further strengthen its water stewardship and ensure the compliance of wastewater discharge in a long and stable manner. REF086: Qing Ding's Social Impact Assessment Report.	4
2	**COMMIT AND PLAN**		
2.1.2	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. (1 point)	A water stewardship commitment to follow all the AWS core criteria has been signed by both Avary Holding's CEO and Environmental Supervisor. The commitment has been displayed on Avary Holding's website: http://www.Avary Shenzhenholding.com/upload/file/2019-11-11/9be97297-cfca-4173-a6d1-eacfe4f8adec.pdf REF087: Qing Ding's Commitment to Water Stewardship.	1
2.3.3	The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same organizational ownership) shall be identified and described. (4 points)	Qing Ding cooperates with the brother company "Honghengsheng" in the same basin to carry out the following water management activities: • Continuously monitor supplier performance via IPE website automatic management function; • Strenthen supplier training; • Guide suppliers to conduct secondary supplier management;	4

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		• 2020 Green Campus Activity for Qingong Primary School; • 2020 World Environment Day Promotional Activities; • 13th Environmental Protection and Energy Saving Month Activities.	
2.3.4	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. (4 points)	Qing Ding held a Global Partner Conference on 22 April, 2019, where AWS Standards were introduced. Qinhuangdao plant and Huai'an site developd "Peng Ding Seven Greens" activities together. REF088: Global Partner Conference Records; REF057: 2020 "Peng Ding Seven Greens" KPI.	4
2.3.5	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. (7 points)	One target of Qing Ding's water stewardship plan is to carry out a publicity campaign regarding environmental protection and energy saving during April to June 2019 to promote the public and employees' awareness of environmental protection. The publicity campaign consists of: • Government: Huai'an Municipal People's Congress Environmental Resources Committee visited Huai'an Park for a pre-investigation communication meeting. Qing Ding introduced its efforts and investments in environmental protection and energy conservation (such as intelligent management of water treatment centers, development of provincial water-saving enterprises, water efficiency leaders application, environmental protection trust companies, and listing of energy-saving investment projects, etc.) have been unanimously recognized by visiting leaders. • Community: Jointly organized an activity of "Campus Environmental Promotion" for Qingong Primary School, distributed water environment books and AWS brochure; • Employees: Carry out environmental promotion in the site at the same time. REF056: Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020); REF077: Memo and records of publicity campaign regarding environmental protection and energy saving.	7
2.4.2	A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-	Qing Ding 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	6

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
	sector and infrastructure agencies shall be identified. (6 points)	factors of different events related to climate change and develops a response action plan. Meanwhile, 18 relevant public-sectors and infrastructure agencies are also identified and coordinated with. Their supports, capabilities and contact numbers are listed. Qing Ding develops plans with relevant public authorities to adapt to water risks related to climate change predictions. REF008: Qing Ding's Special Emergency Response Plan for El Niño; REF089: Contact List of Relevant Public-Sectors and Infrastructure Agencies; REF090: Characteristics of extreme precipitation in Huaihe River Basin and estimation of precipitation in different return periods; REF091: Analysis of Climate Change and Abrupt Change in Huaihe River Basin in the past 50 Years; REF092: Temporal and spatial changes and statistical characteristics of extreme precipitation in the Huaihe River Basin in the past 50 years; REF093: Risk Assessment of Coastal Storm Surge Disaster in Jiangsu Province.	
3	**IMPLEMENT**		
3.1.3	Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified. (2 points)	Qing Ding has developed a "Process for AWS Management", which specifies the senior-most manager and his responsibilities, the process for AWS management, the evaluation and update the site's water stewardship plan. In addition, a "Process for Environmental Protection and Energy Saving Audit" has been also developed by Qing Ding. It Standardize the company's Environment and Conservation Division's audit management, and provide units with environmental protection and energy conservation self-inspection management reference. REF094: Process for AWS Management (Document No.: SG-2B0-001EFH, Ver. A); REF095: Process for Environmental Protection and Energy Saving Audit (Document No.: SG-3B0-258EFH, Ver. A).	2
3.1.4	Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water	Qing Ding's contributing to the good water governance of the catchment has obtained consensus among many stakeholders, including: • 2017 Water-saving Enterprise issued by the Environmental Protection Department of Jiangsu Province;	2

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
	governance of the catchment shall be identified. (2 points)	• Green Enterprise in Huai'an Economic Development Zone issued by Environmental Protection Bureau of Huai'an Development Zone; • Trusted Enterprise for Environmental Protection issued by Department of Ecological Environment of Jiangsu Province; • Huai'an "Water Efficiency Leader" issued by Huai'an Water Resources Bureau; • The first batch of environmental protection demonstration enterprises issued by Huai'an Economic and Technological Development Zone; • Supplier with Outstanding Environmental Awareness and Initiatives named by Apple, Apple_SR_2018_Progress_Report. The interviews with local government officials, communities and suppliers during site visit also confirmed Qing Ding's exemplary role of water stewardship in the catchment. REF049: Application for Water Efficiency Leader in Jiangsu Province; REF096: Supplier with Outstanding Environmental Awareness and Initiatives named by Apple, Page 38, Apple_SR_2018_Progress_Report; REF109: The first batch of environmental protection demonstration enterprises in Huai'an Economic and Technological Development Zone declared and recognized.	
3.3.4	The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified. (6 points)	No evidence.	0
3.5.2	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. (6 points)	No evidence.	0
3.5.3	Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the healthy	No evidence.	0

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
	status of Important Water-Related Areas in the catchment shall be identified. (2 points)		
3.6.3	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. (5 points)	Qing Ding 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 WSCSD 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); • Provision of safe drinking water and adequate sanitation and hygiene facilities for all external staff such as external construction workers and operators; and • Training of local students regarding water safety. REF050: Qing Ding's WSCSD Self-assessment Tool; REF077: Memo and records of publicity campaign regarding environmental protection and energy saving; REF097: Notice of providing safe drinking water for sanitation workers and delivery men; REF098: Notification of External Construction Workers and Operators.	5
3.6.4	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. (4 points)	No evidence.	0
3.7.3	Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated. (5-7 points)	Qing Ding has carried out a thorough survey for the water use of suppliers and service providers and analysed their intensity of water consumption and water pollution. Meanwhile, by using WWF's map of water risk filter, Qing Ding also analysed their water risks. On 28 August, 2019, Qing Ding's Headquarters organized a seminar and invited its suppliers and service providers to attend. During the seminar, Headquarters introduced the AWS	5

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		standard, shared its water stewardship plan and encouraged its suppliers and service providers to improve their water stewardship. We reviewed the training materials and attendance list. In addition, Qing Ding is always actively engaged in assisting its suppliers and service providers to take corrective actions for their non-compliance. REF035: Identification of embedded water use of primary inputs; REF036: Analysis of water risk level by using WWF Water Risk Filter; REF067: Training materials for its suppliers and service providers; REF068: Seminar attendance record.	
3.9.6	Achievement of identified best practice related to targets in terms of good water governance shall be quantified. (8 points)	Qing Ding's achievements of best practice related to good water governance include: • The development of a "Process for AWS Management", which specifies the senior-most manager and his responsibilities, the process for AWS management, the evaluation and update the site's water stewardship plan; • The development of a "Process for Updating Catchment Background Information", which elaborates the collection, integration and renewal of catchment background data for providing a basis of updating the shared water challenges in the catchment and Qing Ding's water stewardship plan; • Holding environmental protection and energy saving campaigns during 22 April to 5 June 2019 to raise the public and all employees' awareness of protecting environment. REF077: Memo and records of publicity campaign regarding environmental protection and energy saving; REF094: Process for AWS Management (Document No.: SG-2B0-001EFH, Ver. A); REF003: Process for Updating Catchment Background Information (Document No.: SG-3B0-202E, Ver. A); REF088: Global Partner Conference Records.	8
3.9.7	Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified. (8 points)	According to the national "Cleaner Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008)" issued by the Ministry of Environmental Protection, the quantity of water intake for unit product of PCB manufacturing is defined as three levels. The first level represents the	8

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		advanced international level, the second level represents advanced domestic level, and the third level means the average domestic level. Based on Qing Ding's Cleaner Production Audit Report prepared by Jiangsu Suke Environmental Technology Consulting Co., Ltd., a qualified third party in August, 2018, the quantity of water intake for unit product of single-sided FPC manufacturing is 0.308 m^3/m^2, which is lower than 0.32 m^3/m^2, the second level defined by the Ministry of Envrionmental Protection; the quantity of water intake for unit product of double-sided FPC manufacturing is 1.48 m^3/m^2, which is lower than 1.65 m^3/m^2, the third level defined by the Ministry of Environmental Protection; the quantity of water intake for unit product of multi-sided FPC manufacturing is 3.44 m^3/m^2, which is lower than 4.12 m^3/m^2, the third level defined by the Ministry of Environmental Protection. The review of Qing Ding's monthly water usage from January to June, 2020 showed that the average quantity of water intake for unit product of double-sided FPC manufacturing is 0.63 m^3/m^2, which is very close to the first level defined in the national standard (HJ-450-2008). The information mentioned above demonstrates Qing Ding's good water stewardship. REF078: Qing Ding's Water Saving Achievement Report; REF099: Qing Ding's Cleaner Production Audit Report.	
3.9.8	Achievement of identified best practices related to targets in terms of water quality shall be quantified. (8 points)	Qing Ding has defined its stricter discharge limits for effluent, which are 80% of the permitted discharge levels specified in the "Discharge Standard of Pollutants for Electroplating" (GB 21900-2008) issued by the Environmental Protection Department. Based on the review of Qing Ding's daily self-testing records for discharged effluent, all testing results are far lower than 80% of the provincial standards. The testing report prepared a qualified third party also showed that the testing results of all pollutants are far lower than their discharge standards as well as the discharge limits defined by Qing Ding. Taking total copper, total nickel and total cyanide as example: Testing result / Discharge standard / Qing Ding's discharge limit Cu: 0.05 mg/L / 2 mg/L / 1.6 mg/L Ni: N.D / 0.5 mg/L / 0.4 mg/L CN: 0.0062 mg/L / 1 mg/L / 0.8 mg/L	8

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		In addition, on-line monitoring devices had been installed at Qing Ding's wastewater treatment station and networked with local environmental protection authority. REF021: Testing report for industrial wastewater provided by Huai'an Huai Testing Technology Co., Ltd. on 19 December, 2019 (Report No.: HC1912003-01); REF023: Self-testing report for wastewater on 25 February, 2020; REF100: Discharge Standard of Pollutants for Electroplating (GB 21900-2008).	
3.9.9	Achievement of identified best practices related to targets in terms of the site's maintenance of Important Water-Related Areas have been implemented	No evidence.	0
3.9.10	Achievement of identified best practice related to targets in terms of WASH shall be quantified. (4 points)	The review of Qing Ding's statistics of WASH installations showed that they fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010). To ensure drinking water safety, Qing Ding 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. For the sanitation and hygiene installations, Qing Ding has issued a "Process for the Product Environment Protection Management". Qing Ding also provides awareness trainings of WASH for its employees. In addition, Qing Ding has adopted the WSCSD self-assessment tool. The assessment results demonstrated that the site has provided adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite. The interview with employees, the document and record review and the site observation demonstrate Qing Ding's compliance with this criterion. REF030: Statistics list of sanitary facilities in Huai'an Site; REF031: Process for Drinking Machine Management of Qing Ding's EHS Management System (Document No.: SG-3B0-241EFGH); REF032: Process for the Maintenance of Drinking Water Machine System of Qing Ding's EHS Management System (Document No.: SG-3B0-199); REF050: Qing Ding's WSCSD Self-assessment Tool.	4

<table>
<tr><th>Indicator</th><th>Details (Advanced-Level)</th><th>Evidence Reviewed/Document Reference</th><th>Score</th></tr>
<tr><td>3.9.11</td><td>A list of efforts to spread best practices shall be identified. (3 points)</td><td>Qing Ding spreads its best practices through many ways, including:
Visit of the Industrial Technology Research Institute of Jiangsu Science and Technology Department;
Visit of Members of the Huangshi Municipal Committee of Hubei Province;
Supplier with Outstanding Environmental Awareness and Initiatives named by Apple, Apple_SR_2018_Progress_Report;
Promoting Qing Ding's water stewardship through the media.
REF096: Supplier with Outstanding Environmental Awareness and Initiatives named by Apple, Page 38, Apple_SR_2018_Progress_Report;
REF101: Record of media report;
REF102: Record of receiving visitors.</td><td>3</td></tr>
<tr><td>3.9.12</td><td>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 identified. (8-14 points)</td><td>Qing Ding held its 13th session of environmental protection and energy saving activities from 22 April to 5 June in 2020, the theme is "Build a green city and care for the earth", which consisted of:
<table>
<tr><th>Date</th><th>Partner organization</th><th>Participants / beneficiary</th><th>Number of participants</th><th>water related content</th></tr>
<tr><td>6/3</td><td>Qin Gong County Primary School</td><td>School kids</td><td>500+</td><td>Water saving awareness and water knowledge. Student competition: water saving video and poster design.</td></tr>
<tr><td>6/5</td><td>Industrial Park Management Committee, EPB</td><td>Company representatives from the industrial park
Local residents</td><td>100+</td><td>AWS and Water conservation knowledge flyer; WaterQuiz competition.</td></tr>
</table></td><td>8</td></tr>
</table>

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
		REF103: Planning for the 13th Session of Environmental Protection and Energy Saving Activities; REF104: Records of events and participants.	
3.9.13	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. (3-10 points)	Qing Ding's 13th session of environmental protection and water saving activities were jointly held by Qing Ding in 2020. The stakeholders involved include suppliers, Local residents, local schools, company representatives from the industrial park and local government. The number of participants and financial contribution were recorded. The activities received consentaneous reputation from all parties. Leaders from Huai'an Economic Development Zone also expressed their willingness to participate in this kind of activities in the future and jointly promoted the communities' environmental protection. School and government partners all publicly recognized Qing Ding's contribution via press-release article and social media posts. REF105: Summary Report for Qing Ding's 13th Session of Environmental Protection and Energy Saving Activities.	3
4	**EVALUATE**		
4.1.4	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. (3 points)	Qing Ding has updated its "Procedure for Management Review" to include water stewardship related content as inputs for the annual management review. The most recent management review was performed on 14 Jan., 2020 for Year 2019. The management review report covered content of water challenges, water risks and opportunities, water-related cost savings or benefits achieved, and any related events. 57 management staff from Avary Holdings all sites including Qing Ding attended the meeting, and the highest level manager is Senior Manager authorized by Board Director. REF106: Procedure for Management Review (Document No. ST-2B0-006, Ver. N); REF107: Qing Ding's Management Review Report by EHS Dept. on 14 Jan., 2020.	3
4.3.2	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	According to Qing Ding's "Process for AWS Management", stakeholders water management satisfaction survey shall be conducted on an annual basis. The latest stakeholder water management satisfaction survey was conducted in March, 2020. A total of 369 responses were collected and analysed. The survey includes topics such as water quality of the river basin, tap	6

Indicator	Details (Advanced-Level)	Evidence Reviewed/Document Reference	Score
	their suggestions for continual improvement. (6 points)	water prices and sewage treatment fees, the level of implementation of laws and regulations, the level of implementation of watershed management plans/actions, and climate change, etc. Overall, stakeholders were satisfactory, stakeholder also provided additional comments which were analysed by Qing Ding and taken into account for future action plan. REF094: Process for AWS Management (Document No.: SG-2B0-001EFH, Ver. A); REF108: Stakeholder Evaluation and Analysis Report in 2020.	
5	**COMMUNICATE & DISCLOSE**		
5.3.2	The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report. (1 point)	In Avary Holding's 2019 CSR report (released in June 2020) and publicly available on Avary website, it mentioned the site started implementation of AWS standards from Q4 of 2019. While adhering to the business philosophy of "Promoting environmental protection, making the earth a better place", the site has introduced advanced water recycling technologies and high-efficiency environmental protection facilities, trained key technical personnel, and strived to maximize the use of water resources. REF081: Avary Holding CSR Report in 2019; REF082: CDP Water Security 2019 Questionnaire.	1
5.3.3	Benefits to the site and stakeholders from implementation of the AWS Standard shall be quantified in the organization's annual report. (1 point)	No evidence.	0
Total			**112**

7 AUDIT FINDINGS

Two minor non-conformities were raised during the audit process. They were considered partially meeting the AWS Core criterion requirement, and some small adjustments were requested to make to the documentation in order to be considered fully compliant. The following table 7.1 shows the details of the minor non-conformities and required new information.

Table 7.1 Minor Non-Conformities Raised during the AWS Audit Process

No.	Type	Ref.	Details	Response by Qing Ding	Relevant References
1	Minor Non-Conformance	01MINCAR	Indicator 1.3.5 Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site. The shower water from several shower and eye-washer equipment is not connected to the sewage pipeline together with the eye-washer sewage. When using the shower, the sewage will flow into the rainwater network directly, but Qing Ding has not confirmed the pollution source.	On 24 July, 2020, Qing Ding provided a corrective action plan for 01MINCAR, which consisted of: Root analysis: As the relevant departments considered it a low risk in the preliminary risk assessment, no leak-proof tank was designed and the shower sewage was not connected to the sewage pipe together with the eye-washer sewage. Considering the frequency of use, the utilization rate is indeed very low, however, once the shower at the chemical warehouse is used, there is no leakage prevention device on site, and there is a risk of rainwater pollution from the adjacent rainwater outlet. Corrective actions: The major reason for this risk is that there is no leakage prevention device at the shower and eye-washer equipment of the chemical warehouse. For this reason, our company installs the	APPENDIX 2: Corrective Action Plan

No.	Type	Ref.	Details	Response by Qing Ding	Relevant References
				anti-leakage devices for the equipment, and connects the wastewater collection of the eye-washer equipment sewage pipeline, lead to waste water treatment station for further treatment. Responsible person: Mr. Junting SONG Estimated completion time: 30 Apr., 2021. Based on our review, the corrective action plan is acceptable.	

8 SUMMARY

Based on the review of documents presented by Qing Ding, the interview with Qing Ding's managers and employees, the interview with local stakeholders, and the site reconnaissance, Qing Ding has paid great attention to its water stewardship. A considerable quantity of effort and work has been put into the preparation for the audit of AWS certification.

One minor non-conformity was raised during the audit process. It was considered partially meeting the AWS Core criterion requirement, and some small adjustments were requested to make to the documentation in order to be considered fully compliant. Qing Ding has provided SGS acceptable corrective action plans to address all minor non-conformities. We will further ascertain their compliance to the AWS Standard when performing the surveillance assessement in 2021.

In addition, according to the conformity assessment of Qing Ding's performance against the AWS advanced-level criteria, the total of Qing Ding's cumulative advanced-level criteria scores is 112, which is up to the AWS Platinum level.

9 OPPORTUNITIES FOR IMPROVEMENT

This is the initial conformity assessment for Qing Ding against the AWS Standard, and more attention is paid to the documented plan and implementation to date. Less focus was placed on the evaluation of Qing Ding's performance against the indicators as this was the first year of operation under the intention of conformity to the AWS Standard. Therefore, it allows for many areas for improvement going forward.

Besides the follow-up of implementation of corrective action plans to address the minor non-conformity, the future audits will additionally evaluate Qing Ding's performance against the AWS Standard indicators and how this is monitored and presented as compliance. Thus, SGS recommends that Qing Ding develop practicable ways to monitor its performance against the AWS Standard indicators, and keep relevant records in anticipation of future audits.

10 CONCLUSIONS AND RECOMMANDATIONS

Given the review of evidence presented and the site reconnaissance performed at Qing Ding, SGS recommends that Qing Ding be awarded the AWS Platinum Certified status with a surveillance audit interval of annual frequency.

11 REFERENCES

REF001: Basin Water Challenge Analysis Report

REF002: River Basin Map of Qing Ding

REF003: Process for Updating Catchment Background Information (Document No.: SG-3B0-202E, Ver. A);

REF004: Identification, Evaluation and Control of Environment, energy Risks and Opportunities (Document No.: ST-3B0-001EFH, Ver. A)

REF005: Process for Communication Management (Document No.: SG-3B0-041, Ver. H)

REF006: Analysis of Stakeholders List

REF007: Huai'an Factory Environmental Emergency Plan (Document No.: SG-3B0-001F, Ver. D)

REF008: REF008: Qing Ding's Special Emergency Response Plan for El Niño

REF009: Process for Preparation and Response of EHS Emergency (Document No.: SG-2B0-008, Ver. D)

REF010: Huai'an Environmental Engineering Operation Division Emergency Water Stop Operation Specification (Document No.: SG-3B8-004F, Ver. C)

REF011: Wastewater Treatment Emergency Preparedness of Environmental Engineering Operation Section (Document No.: SG-3B8-008F, Ver. D)

REF012: Procedure for Occupational and Epidemic Disease Prevention and Treatment Management (Document No.: SG-2B0-005EFGH, Ver. D)

REF013: Process for Emergency Response Management of Food-Poisoning (Document No.: SG-3B0-153EFGH, Ver. C)

REF014: Process for Production Emergency Response Management (Document No.: SQ-3B8-183, Ver. E)

REF015: Process for Emergent Preparation and Response of Natural Disasters (Document No.: SG-3B0-146EFGH, Ver. E)

REF016: Registration Form for Qing Ding's Environmental Emergency Response Plan issued by Huai'an Ecology and Environment Bureau Economic and Technological Development Zone Branch on 13 January, 2020

REF017: The Test Report of Water Balance

REF018: Water Saving Survey and Water Balance Clean Water Program

REF019: Large Database for Water Balance Established by Qing Ding

REF020: Testing report for Qing Ding's secondary water supply provided by Huai'an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-04)

REF021: Testing report for industrial wastewater provided by Huai'an Huai Testing Technology Co., Ltd. on 19 December, 2019 (Report No.: HC1912003-01)

REF022: Testing report for domestic sewage, rainwater, soil and groundwater provide by Huai'an Huai Testing Technology Co., Ltd. on 3 December, 2019 (Report No.: HC1910027-03)

REF023: Self-testing report for wastewater on 25 February, 2020

REF024: Environmental risk and opportunity identification, evaluation and control measures table

REF025: Map of Identified Potential Sources of Pollution

REF026: General Layout of Huai'an Site

REF027: List of Ecological Red Line Regions in Huai'an City

REF028: Cost analysis of Qing Ding's Water Stewardship

REF029: Qing Ding's Corporate Social Responsibility Report 2019

REF030: Statistics list of sanitary facilities in Huai'an Site

REF031: Process for Drinking Machine Management of Qing Ding's EHS Management System (Document No.: SG-3B0-241EFGH)

REF032: Process for the Maintenance of Drinking Water Machine System of Qing Ding's EHS Management System (Document No.: SG-3B0-199)

REF033: Maintenance Records of Drinking Machines in 2019

REF034: Drinking Water Quality Test Report on 5 July, 2019, by Huai'an Monitoring Station of Jiangsu Urban Water Supply Quality Monitoring Network

REF035: Identification of embedded water use of primary inputs

REF036: Analysis of water risk level by using WWF Water Risk Filter

REF037: Identification of embedded water use of outsourced services

REF038: Evaluation Report for Compliance with Laws and Regulations Issued in the First Half of 2020

REF039: 2018 Huai'an Water Resources Bulletin

REF040: Water quality of some river sections in the Huaihe River Basin

REF041: The identification report of Important Water-Related Areas

REF042: Huai'an Statistical Yearbook in 2019

REF043: City Appearance and Environmental Sanitation by City in 2018

REF044: The Level of Municipal Public Facilities in 2018

REF045: List of Shared Water Challenges in the Catchment

REF046: Qing Ding's Water Risk Assessment Report

REF047: Qing Ding's Water Risks and Opportunities Table 20200410

REF048: Qing Ding's Environmental Risk and Opportunity Identification, Evaluation and Control Measures Table

REF049: Application for Water Efficiency Leader in Jiangsu Province

REF050: Qing Ding's WSCSD Self-assessment Tool

REF051: GBZ 1-2010 Hygienic standards for the design of industrial enterprises

REF052: Qing Ding's Organization Chart of Integrated Management System

REF053: Procedure for Compliance Evaluation of Laws and Other Requirements (Document No.: ST-2B0-008, Ver. K)

REF054: Qing Ding's Water Stewardship Strategy

REF055: Qing Ding's Future Business Development Strategy (2013-2022)

REF056: Qing Ding's Water Stewardship Plan - Improvement Action List (Year 2020)

REF057: 2020 "Peng Ding Seven Greens" KPI

REF058: Notice on the Implementation of the 2020 Water Usage Plan Declaration Activity

REF059: Records of participating in catchment governance meetings and trainings

REF060: Government Information Registration Form

REF061: Evaluation Report for Compliance with Laws and Regulations Issued in 2020

REF062: Review report on wastewater reuse rate

REF063: Daily and Monthly Self-testing Results of Discharged Wastewater in 2020

REF064: Greening maintenance project acceptance record in November, 2019

REF065: GB 5749-2006 Standards for Drinking Water Quality

REF066: Records of carrying out a survey for the water use of suppliers and service providers

REF067: Training materials for its suppliers and service providers

REF068: Seminar attendance record

REF069: Records of communicating with local water-related infrastructure owner

REF070: SOP for Waste Water Recycle (Document No.: EB0-YA10-057E, Ver. D)

REF071: Safety Operation Procedure of Water Reuse (Document No.: EB8-YR20-020F, Ver. A)

REF072: Environmental protection and energy conservation management measure for equipment procurement assessment and acceptance check (Document No.: ST-3B0-083EFGH, Ver. H)

REF073: Methods of reward and punishment for environmental protection (Document No.: SG-3B0-007F, Ver. A)

REF074: SOP for Waste Water Recycle (Document No.: SG-3B8-027F, Ver. A)

REF075: SOP for Waste Water Disposal (Document No.: SG-3B8-007F, Ver. F)

REF076: SOP for Water Supply System of Environmental Engineering Operation Section (Document No.: SG-3B8-005F, Ver. D)

REF077: Memo and records of publicity campaign regarding environmental protection and energy saving

REF078: Qing Ding’s Water Saving Achievement Report

REF079: Records of Stakeholder Consultation

REF080: Summary Statistics of Stakeholder Satisfaction Survey 20200616

REF081: Avary Holding CSR Report in 2019

REF082: CDP Water Security 2019 Questionnaire

REF083: Self-test record of water quality of the Banzha Main Canal

REF084: Testing report for soil and groundwater provide by Jiangsu Lvtai Testing Technology Co., Ltd. on 5 Nov., 2019 (Report No.: LT190228A11)

REF085: Sharing water quality testing results with local environmental protection authority via Wechat

REF086: Qing Ding's Social Impact Assessment Report

REF087: Qing Ding's Commitment to Water Stewardship

REF088: Global Partner Conference Records

REF089: Contact List of Relevant Public-Sectors and Infrastructure Agencies

REF090: Characteristics of extreme precipitation in Huaihe River Basin and estimation of precipitation in different return periods

REF091: Analysis of Climate Change and Abrupt Change in Huaihe River Basin in the past 50 Years

REF092: Temporal and spatial changes and statistical characteristics of extreme precipitation in the Huaihe River Basin in the past 50 years

REF093: Risk Assessment of Coastal Storm Surge Disaster in Jiangsu Province

REF094: Process for AWS Management (Document No.: SG-2B0-001EFH, Ver. A)

REF095: Process for Environmental Protection and Energy Saving Audit (Document No.: SG-3B0-258EFH, Ver. A)

REF096: Supplier with Outstanding Environmental Awareness and Initiatives named by Apple, Page 38, Apple_SR_2018_Progress_Report

REF097: Notice of providing safe drinking water for sanitation workers and delivery men

REF098: Notification of External Construction Workers and Operators

REF099: Qing Ding's Cleaner Production Audit Report

REF100: Discharge Standard of Pollutants for Electroplating (GB 21900-2008)

REF101: Record of media report

REF102: Record of receiving visitors

REF103: Planning for the 13th Session of Environmental Protection and Energy Saving Activities

REF104: Records of events and participants

REF105: Summary Report for Qing Ding's 13th Session of Environmental Protection and Energy Saving Activities

REF106: Procedure for Management Review (Document No. ST-2B0-006, Ver. N)

REF107: Qing Ding's Management Review Report by EHS Dept. on 14 Jan., 2020

REF108: Stakeholder Evaluation and Analysis Report in 2020

REF109: The first batch of environmental protection demonstration enterprises in Huai'an Economic and Technological Development Zone declared and recognized

APPENDIX 1 SGS AUDIT CHECKLIST

APPENDIX 2 QING DING ACTION PLANS RESPONSE TO FINDINGS