



Alliance for Water Stewardship Assessment Report

Prepared for BOEHRINGER INGELHEIM PROMECO SA DE CV

Single site certification

AWS Reference: AWS -010-INT-0002-00015-0102

Prepared by: SGS

SGS Ref.: PE-WAT-043

Version: 1

Date: 09.26.2019

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REPORT DETAILS



REFERENCE	
CERTIFICATE No	
REPORT TITLE	ALLIANCE FOR WATER STEWARDSHIP ASSESSMENT REPORT
DATE SUBMITTED:	September 18 th , 2019
CLIENT:	<p>Marcela Gutierrez - HS&E Leader</p> <p>BOEHRINGER INGELHEIM PROMECO SA DE CV Maíz 49, Col. Barrio Xaltocan – Ciudad de México. México Tel. 55 5629 8300 Extension. 9096 marcela.gutierrez@boehringer-ingelheim.com</p>
PREPARED BY:	<p>Ursula Antúnez de Mayolo Corzo – Lead Auditor Fanny Valencia Juscamaita – Auditor Soporte Estephanie Obele – Local Expert & Observer Raquel Ortiz - Observer</p> <p>SGS del Perú S.A.C. Av. Elmer Faucett 3348 Callao 1 - Perú ursula.antunez@sgs.com</p>
SIGNED:	<p></p> <p>Ursula Antunez de Mayolo</p>
TECHNICAL SIGNATORY	<p></p>
STATUS	FINAL
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1 EXECUTIVE SUMMARY

The scope of services covers the conformity assessment in compliance with the AWS International Water Stewardship Standard Standard Version 2.0 for BOEHRINGER INGELHEIM PROMECO SA DE CV stated at Maíz 49, Col. Barrio Xaltocan – Ciudad de México. México. The assessment has been completed in compliance with AWS Certification requirements, Version 2, March 2019.

BOEHRINGER INGELHEIM PROMECO SA DE CV is a Pharmaceutical that manufacture and package products for human and animal health care.

Given the document review undertaken, verification of evidence and site visit inspections performed, SGS recommends that BOEHRINGER INGELHEIM PROMECO SA DE CV is awarded AWS Core Certified status with a surveillance audit interval of annual frequency.

A total of 05 minor non-conformances were raised during the course of the audit process. BOEHRINGER INGELHEIM PROMECO SA DE CV responded to the findings raised with appropriate root cause analysis and action plans as evidence for each, so the certification could be granted. The actions taken will be followed-up at the first annual surveillance visit.

2 SCOPE OF ASSESSMENT

The scope of services covers the conformity assessment in compliance with the AWS International Water Stewardship Standard Standard Version 2 for BOEHRINGER INGELHEIM PROMECO SA DE CV (BI) for their Principal Plant. The assessment has been completed in compliance with AWS Certification requirements, Version 2, March 2019.

The assessment was conducted during 2 man-days, from the 17th to 18th September, 2019. The geographical scope has been only the Principal Site. The water supplied from a well corresponds to principal source. Also water supplied from municipal take (SACMEX) and from a well by PIPAS correspond the minority source. (Figure 2.1)

Figure 2.1: Map of the BI

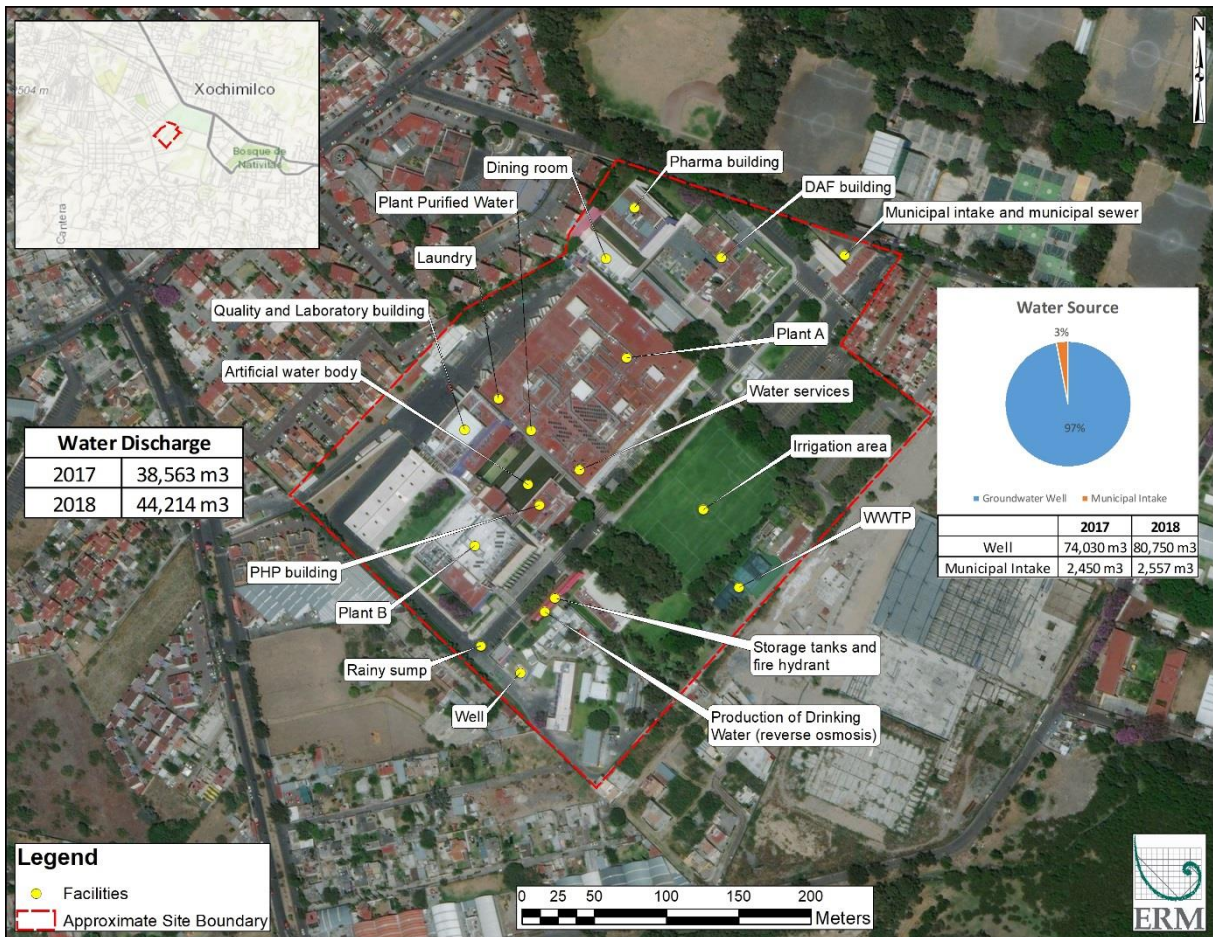



Table 2.1: Photos from the BOEHRINGER INGELHEIM PROMECO Visit



Boehringer Ingelheim Promeco S.A. de C.V.
Maiz 49, Barrio Xaltocan
16090 Ciudad de México, México

June 2019

STATEMENT LETTER

Boehringer Ingelheim Promeco S. A. de C.V. commits to supporting the pursuit of responsible water stewardship within the Corporate BE GREEN initiative. I will support the site's efforts to achieve the outcomes of water stewardship, namely good water governance, good water balance, good water quality and healthy important water-related areas when relevant.

We will respect the rights of workers on-site to have access to safe water, adequate sanitation and hygiene. The site will attempt to engage stakeholders throughout its efforts in an open and transparent manner, and will comply with all legal and regulatory requirements, as well as respect legal and water-related rights and relevant water-related national and international treaties. We will continue to align our operations with Boehringer Ingelheim globally.

We will coordinate with and support public-sector agencies in their efforts to encourage water-related planning and implement water-related policies and in support of existing catchment sustainability plans.

We will allocate appropriate resources to implement the Alliance for Water Stewardship (AWS) standard and ensure that there is sufficient organizational capacity to successfully implement the AWS Standard to continually improve and adapt its water stewardship actions and plans. Lastly, we commit to disclosing water-related information, to all relevant audiences in an appropriate format, and progress on our water stewardship program to achieve improvements in AWS water stewardship outcomes.

Miguel Salazar
Country Manager
Boehringer Ingelheim Promeco S.A. de C.V.

Andrea Thommet
PhD Director
Boehringer Ingelheim Promeco S.A. de C.V.

Boehringer Ingelheim Promeco's Water Compromise



WaterHold of BI

9/2019
17
p. m.
2:42

AZTECA m³
NOM
ΔP 1 bar
PN 10 bar
B
MEDIDOR DE PROPELA

Meters of the WaterHold of BI



Industrial water treatment plant



Residual water treatment plant



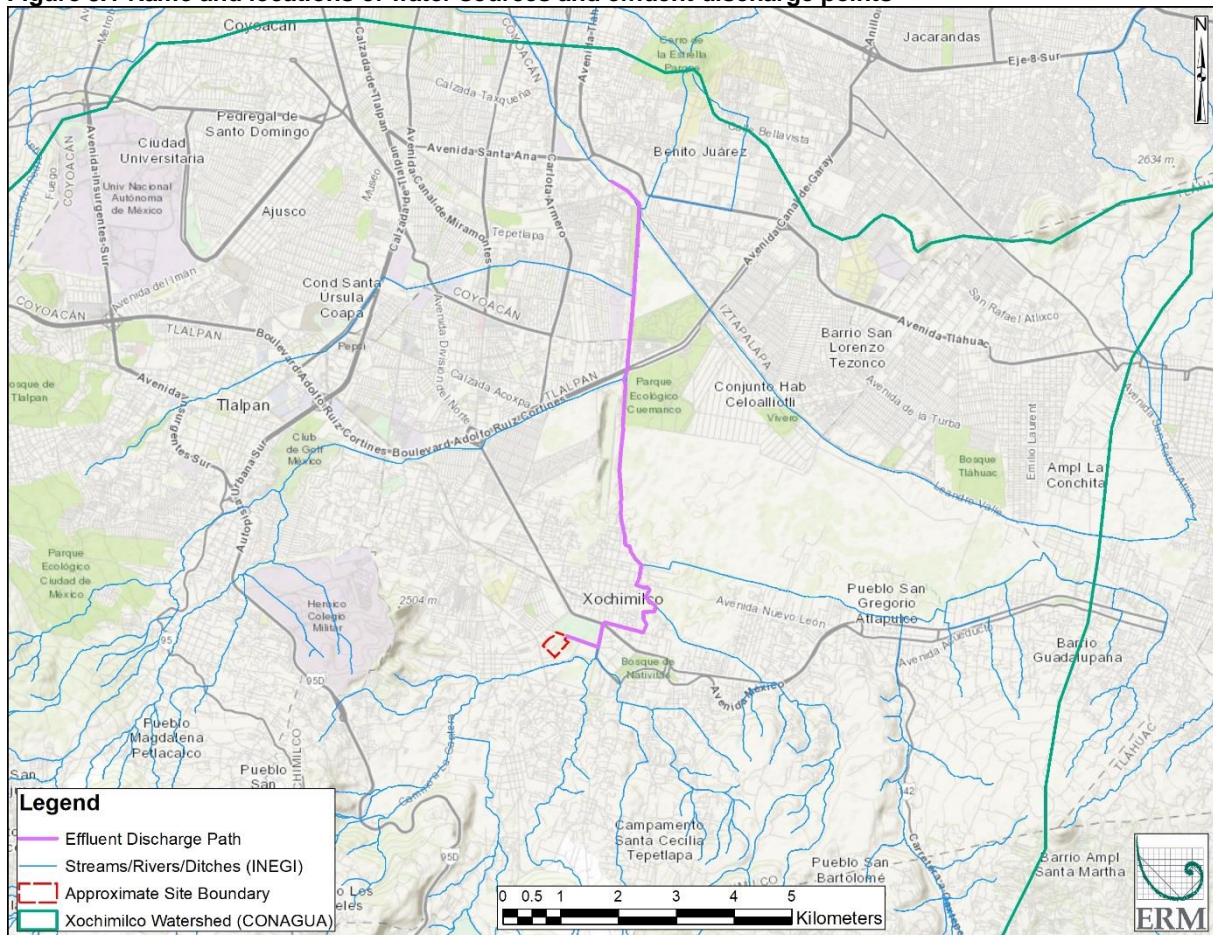
Waste water Tanks for irrigation from Residual water treatment plant

3 DESCRIPTION OF CATCHMENT

They have the document Step 1 - Gather and Understand.one.

The site is located on the Zona Metropolitana of the Ciudad de México aquifer. This aquifer is located in the sub-basin Xochimilco, located within the Hydrological Region RH26 Alto Pánuco.

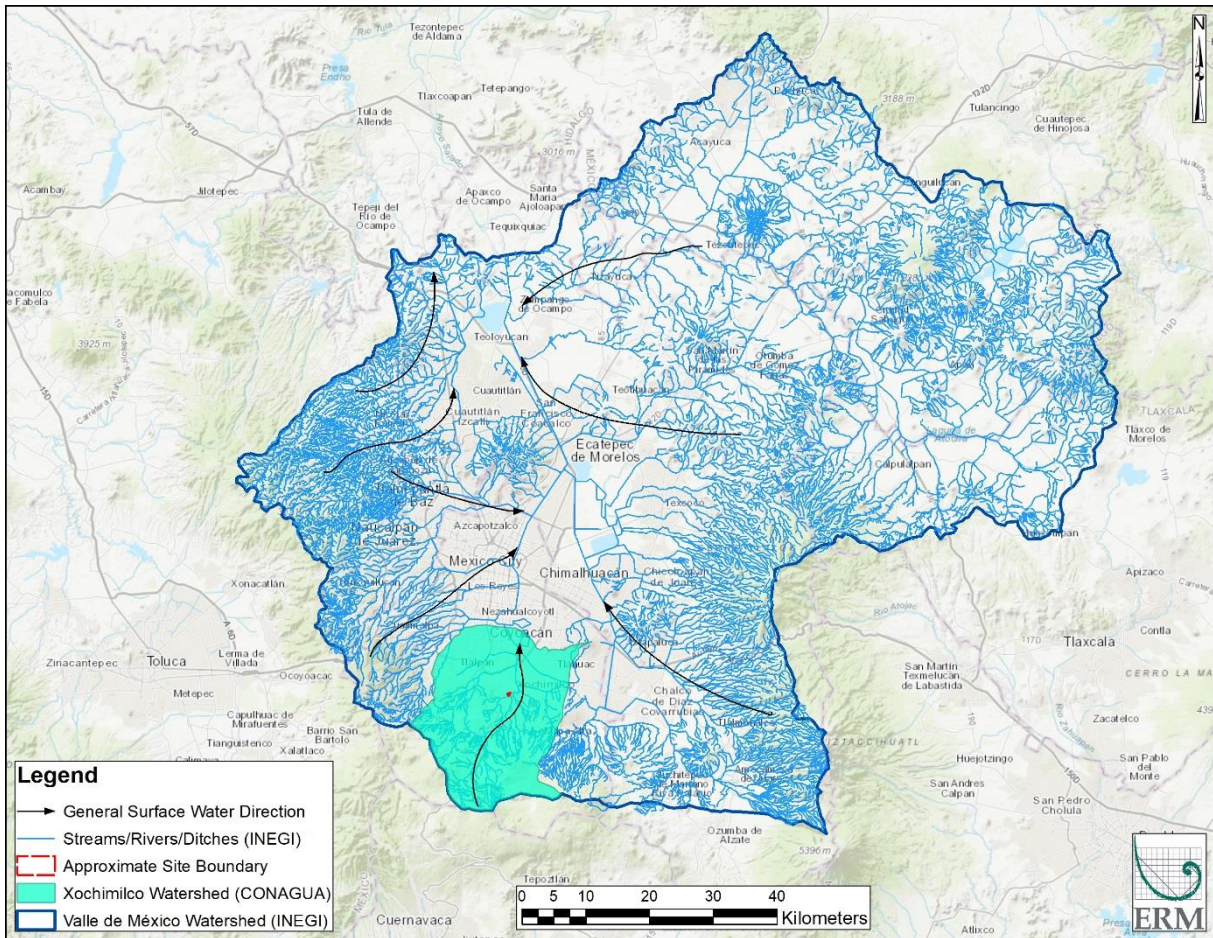
Figure 3.1 Name and locations of water sources and effluent discharge points



CONAGUA, in 2013, determined that the aquifer of the Valley of Mexico has a total deficit of 590 mm³. An impact of this situation is the sinking of land that has occurred in many parts of the Mexico Basin and that, in some areas of Mexico City, has reached 40 cm per year.

However, according to the “HYDROGEOLOGICAL STUDY FOR THE DETERMINATION OF THE CURRENT STATE OF THE XOCHIMILCO BASIN” carried out by SIIG Ingeniería y Consultoría in February 2019, commissioned by BI Promeco, the Xochimilco sub region shows the annual average volume of surface water in the hydrological basin; and there is no a water scarcity.

Figure 3.2 Map of Catchment



4 SUMMARY OF SHARED WATER CHALLENGES

BI has identified the shared water challenges and prepared the document “STEP 01 -1.6”. It details the water challenges which are mainly:

- Potential approval of the General Water Law; Potential new management of water rights by CONAGUA (National Water Commission)
- Increased in Water Demand: Future trends related with water supply - CONAGUA (National Water Commission)
- Climate and Water in Mexico.

5 INDICATORS CHECKLIST

As per the requirement set out in the AWS certification requirements Section 2.11.3.1 it was prepared a records “Step 1 - Gather and Understand.one”, “Step 2 - Commit and Plan.one”, “Step 3 - Implement.one”, “Step 4 - Evaluate.one”, “Step 5 - Communicate and Disclose.one”with the CORE AWS indicators and the relevant reviewed evidence provided by BI and the indicator with which it is associated. The checklist was aligned to the clauses / indicators of the AWS standard Version 2.0.

6 AUDIT FINDINGS

The findings raised during the audit were provided to BI, who responded afterwards to the findings through an action plan sent to SGS for review. Once the action plan was approved by the Lead Auditor the reports were then reviewed by the Certifier.

Relating to this Audit

As a result, 05 minor non-conformances were raised during the audit process detailed at the Table below 6.1. Some observations were raised during the audit which are for future improvement, but no action is necessary during this audit period, however, these issues would most likely come under scrutiny during a surveillance audit scenario.

Table 6.1. Current Minor Non-Conformances raised during the AWS audit process

No.	Type	Ref.	Details	Action Proposed by Client
1	Minor Non-Conformance	1.2.1	<p><u>Stakeholders</u> The standard states that "The process used for stakeholder identification shall be identified". During the audit; although some relevant stakeholders have been identified as the authorities; NGOs, among others; in the "Step 1 - Gather and Understand.one Item 1.2 Relevant Stakeholders" record; it cannot be evidenced what methodology has been used to identify the relevant issues. Likewise, some relevant issues of some interested parties such as Workers, suppliers, or entities that the communications area has identified have not been documented.</p> <p><u>Partes Interesadas</u> El estándar establece que "se identificará el proceso utilizado para la identificación de partes interesadas" Durante la auditoría; si bien se tiene identificadas algunas partes interesadas relevantes como las autoridades; ONG, entre otros; en el registro "Step 1 - Gather and Understand.one Ítem 1.2 Relevant Stakeholders"; no se puede evidenciar que metodología se ha utilizado para identificar los temas relevantes. Así mismo no se han documentado algunos temas relevantes de algunas partes interesadas como Trabajadores, proveedores, o entidades que el área de comunicaciones ha identificado</p>	<p>To identify the relevant topics from stakeholders, the Alcaldía Xochimilco will be asked to know about the main problems that affect the basin and the current action plan to minimize those problems. The stakeholders list will be updated to include employees, providers, institutes, museums, associations, universities, etc. where the video "The Spirit of Water" will be shared in order to arise awarnes in water care. An evaluation of every stakeholder will be developed to define the relevance of each of them.</p>
2	Minor Non-Conformance	1.3.2.	<p><u>Site water balance</u> The standard states that "Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped." With respect to the water balance of the site, some partial deviations are evidenced in the data presented. Although a water balance is evidenced on the site in the "Step 1 - Gather and Understand.one Item" 1.3.2 + 1.3.3 Site Water Balance "record (balance of 2017), during the audit, the organization could not support the values of the outputs-consumption. Likewise, the "Water Balance AWS" record (balance of 2017, 2018) differs from the before mentioned file,</p>	<p>New water flowmeters will be installed in areas where missing.A detailed review of every input and output will be developed according to the auditor's recommendations in order to update the water balance. A work instruction will be created to standarize the water data obtention from every flowmeter.</p>

			<p>and there are differences between the inputs and outputs (consumption) of the site. Despite this, an action plan is evidenced by 2020 to refine said water balance study.</p> <p><u>Equilibrio del agua del sitio</u> El estándar establece que “se identificará y mapeará el equilibrio hídrico del sitio, incluidas las entradas, pérdidas, almacenamiento y salidas”. Con respecto al balance hídrico del sitio, se evidencian algunas desviaciones parciales en la data presentada. Si bien se evidencia un balance de agua en el sitio en el registro “Step 1 - Gather and Understand.one Ítem 1.3.2 + 1.3.3 Site Water Balance” (balance del 2017), durante la auditoria, la organización no pudo sustentar los valores de las salidas-consumos. Así mismo, el registro “Water Balance AWS” (balance del 2017, 2018) difiere al archivo antes mencionado, y se evidencian diferencias entre las entradas y salidas (consumos) del sitio. A pesar de ello se evidencia un plan de acción al 2020 para afinar dicho estudio de balance de agua.</p>	
3	Minor Non-Conformance	1.5.2	<p><u>Identification of legal requirements</u> The standard states that “Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights”. The organization established to document the identification into the registry “Step 1 - Gather and Understand.one - ítem 1.5.2 Applicable water-related legal and regulatory requirements”; as well as in the excel register “Legal requirements”. But; some legal requirements are not listed in those records.</p> <ul style="list-style-type: none"> • Regulation of the National Water Law. Case: Title 4, Chapter II, Article 31 “Documents required for grant applications”, • NOM-001-SEMARNAT (Regulation of discharge to bodies of water), • NADF-015-WATER-2009 (maximum permissible limits for contaminants in wastewater discharges from process and service to the Federal District's drainage and sewerage system from stationary sources), and these regulatory requirements are applicable to your system <p>Despite this, the organization knows them and their compliance is evidenced.</p> <p><u>Identificación de requisitos legales</u> El Estándar establece “identificar los requisitos legales y reglamentarios aplicables relacionados con el agua, incluidos los derechos de agua consuetudinarios legalmente definidos y / o verificados por los interesados”. La organización estableció documentar la identificación en el registro “Step 1 - Gather and Understand.one - ítem 1.5.2 Applicable water-related legal and regulatory requirements”; así como en el registro excel “Requisitos legales”. Sin embargo; algunos requisitos legales no se encuentran listados en dichos registros.</p> <ul style="list-style-type: none"> • Reglamento de la Ley Nacional de agua. Caso: Título 4, Capítulo II, Artículo 31 “Documentos requeridos para solicitudes de concesión”, 	The legal requirements document will be reviewed and updated to include the missing Norms and Regulation.

			<ul style="list-style-type: none"> NOM-001-SEMARNAT (Regulación de descarga a cuerpos de agua), NADF-015-WATER-2009 (límites máximos permisibles para contaminantes en descargas de aguas residuales de proceso y servicio al sistema de drenaje y alcantarillado del Distrito Federal desde fuentes estacionarias), y estos requisitos reglamentarios son aplicables a su sistema <p>A pesar de ello, la organización las conoce y se evidencia su cumplimiento.</p>	
4	Minor Non-Conformance	2.3.1	<p><u>Water Management Objectives</u></p> <p>The standard states that “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.”</p> <p>Although the organization has different objectives related to water management, these are not yet described in the sustainable water management plan, nor in the “Step 2 - Commit and Plan.one” register in order to be aligned to the 5 AWS outcomes (water governance, water balance, water quality, Important Water-Related Areas, and Water, Sanitation and Hygiene (WASH)) y/o a los water challenges. Cases: Reduction of per-capita water consumption to justify the use of water; Effluent quantity monitoring; Monitoring evidence of PTAR for chemical degradation.</p> <p><u>Objetivos de gestión de agua</u></p> <p>Es estándar establece que “se identificará una estrategia de gestión sostenible del agua que defina la misión, visión y objetivos generales”.</p> <p>A pesar de que la organización lleva diferentes objetivos relacionados con la gestión de agua, estos aún no están descritos en el plan de gestión sostenible del agua, ni en el registro “Step 2 - Commit and Plan.one” para que estén alineados a los 5 AWS resultados (gobernanza del agua, balance hídrico, calidad del agua, áreas importantes relacionadas con el agua y agua, saneamiento e higiene (WASH)) y / o a los desafíos del agua Casos: Reducción de consumo de agua per-cápita para justificar el uso de agua; Monitoreo de cantidad de efluentes; Monitoreo de la evidencia de PTAR para la degradación de químicos</p>	The water management objectives will be described according to the outcomes that will be achieved (e.g. water consumption reduction, projects to recollect rain water, ensure the efficiency of the waste water treatment plant with the production volume increase, etc.)
5	Minor Non-Conformance	5.3.1	<p><u>Disclose annual</u></p> <p>The standard states that “A summary of the site’s water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum”. There is only a “presentation to senior management” with some advances from the AWS; but there is still no disclosure of the results of the monitoring and evaluation of the water management indicators to the relevant parties.</p> <p><u>Divulgación anual</u></p> <p>Es estándar establece que “Se divulgara una vez al año los resultados gestión sostenible del agua”. Se evidencia solo una “presentación a la alta gerencia” con algunos avances del AWS; pero aún no se tiene la divulgación de los resultados del seguimiento y evaluación de los indicadores de gestión de agua a las partes pertinentes.</p>	Water management results will be communicated in the Director’s Committee and in the Annual Discussion in a yearly basis.

7 SUMMARY

In reviewing the evidence presented by BI, it is apparent that a considerable quantity of effort and work has been put into the preparation for the audit for Alliance for Water Stewardship Certification.

The minor non-conformances were all situations where BI was considered to have partially met the AWS Core criterion requirement but were requested to make some improvements to be considered fully compliant at the next surveillance visit. Also, some of them has been identified for the same organizations and consider as a “risk” and they proposed action plan.

Observations were made during the audit, these are to be considered as areas for improvement which will likely be reviewed in future surveillance audits, no action is required on behalf of BI during this audit cycle.

The action plan submitted to SGS in response to the findings was reviewed and evaluated for compliance to the AWS standard. All actions were accepted for implementation and the actions taken will be reviewed at the first surveillance.

8 OPPORTUNITIES FOR IMPROVEMENT

The certification audit for BI against the AWS Standard is for the initial assessment for conformity and as such allows for many areas for improvement going forward.

1.1.1 OBS: Consider including in the Scope about PIPAS water supply

1.2.1 OM: Consider standardizing the methodology of the level of “Stakeholder's level of Interest / influence in water-related Issues” where it is valued in high medium and low; and said valuation that means in the actions to be taken (they are necessary; or a shorter / longer time to execute them)

1.2.2 OM: The organization may consider using some methodology to prioritize stakeholders and / or stakeholders; whether or not they are in the basin or as part of governance. It is noted that there are other interested parties that have contact in the communications area.

1.3.1 OBS: It has not been identified as an emergency; in the case of failure of the wastewater treatment plant.

1.3.2 OBS: It is observed that the rainwater is not considered, that it also goes to sewer and is sent to the WWTP for its treatment, the water of pipes for the entrance, to quantify the water of car washes; etc.

1.3.7 OBS: There is no include the cost of water purification for services, operations, and drinking; and for the actions like Spirit Water Video; catchment rainwater for dog shelter, and other actions

1.6.1 OM: Consider standardizing the methodology to assess the priority water challenges

1.7.1 OBS: Consider as a risk that the organization that is already consuming more than 80% of the level the authorization of well water; especially if there would be an increase in production in the coming years.

1.7.2 OM: Consider standardizing the methodology to assess the risk level of the “BI Promeco Water Stewardship Plan

2.4.1 OBS: It is noted that a new general water law has been identified as a risk. However, the actions taken are not aimed at governance in preventing any regulation that threatens good water management; but only to monitor when the regulations will come out to see what changes should be made.

3.2.2 OM: Consider some control over the well water extraction permits of the water sales company in Pipas

3.3.1 OBS: It is observed that the amount of water consumed in the well so far in 2019 (January-August) 2019; is older than last year; however, for the same period of time the amount of wastewater is less. It is indicated that it may be a variation with respect to the past year of amount of rainfall. Consider performing a monthly monitoring; to verify if this behavior is consistent or identify any possible deviation.

3.3.1 OM: The organization may consider installing steam, temperature and pressure meters to ensure the amount of steam - enthalpy; the amount of water used in said process.

3.3.1 OBS: Perform the verification program for well flow meters, WWTP, boilers, purification units

3.9 OBS: The organization indicates that another initiative in water management is the reforestation project. But it is not described in the “BI Promeco Water Stewardship Plan”; nor has it an objective related with the water. In the visit, we observe that they use endemic trees

in the area are the Oyamel and the Pine which produces water, while the Cedar is the one that consumes a lot of water. Also, to avoid soil erosion

3.9 OBS: The organization indicates that another initiative in water management is the use plastic bottles to use as building material; but they do not has it an objective related with the water.

3.9 OM: Include of the status of the advance or level of benefits of the projects such as reforestation, the capture of water to dog shelter or using well water purified to drinking instead to water bottles into plant

4.1.3 OBS: It is observed that in the "presentation to senior management.ppt" does not include presentation of the of the concession and the activities to water efficiencies and obtaining the goal that they present to the water authority,

4.1.3 OBS: It is observed that in the "BI Promeco Water Stewardship Plan" some actions have been placed in the follow up as 100% complete; However, it is evident that they are still in process (Case: about water management strategy with a neighboring company).

5.1.1 OBS: Although BI, show of reference of the water management, it is noted that it has not been detailed, a summary of how water-related issues at the site, and the positions accountable for compliance with water-related laws and regulations. They have a Communication Plan that include those topics; that would been presented in August 2019; but they postponed to October 2019.

5.4.1 OM: The "Communications" area presents the various water management initiatives (prize for rainwater collection for animal shelter, reforestation) or the practices to stop using water bottles and use the water from the well for drinking into the plant. Consider including such activities and progress within the "BI Promeco Water Stewardship Plan" action plan and share it with that area for planning.

9 CONCLUSIONS AND RECOMMENDATIONS

The organization has demonstrated effective involve of its management system and is capable of achieving its policy objectives, as well as the intended results of the respective management system

Given the evidence review and the site visit inspections performed, SGS recommends that, based on the results of this audit, **BOEHRINGER INGELHEIM PROMECO SA DE CV** is **awarded AWS Core Certification** with yearly surveillance audits

10 REFERENCES

- Statement letter _ signed.pdf
- STEP 1,2,3,4,5 ONE-NOTES
 - Step 1 - Gather and Understand.one
 - Step 2 - Commit and Plan.one
 - Step 3 - Implement.one
 - Step 4 - Evaluate.one
 - Step 5 - Communicate and Disclose.one
- BI Promeco Water Stewardship Plan_June2019_Final 13sep19
- BI Promeco Water Stewardship Plan_June2019_270619
- Balance agua 22abr19.xlsx
- SEP 2019_AWS.xlsx
 - "STAKEHOLDERS ENGAGEMENT PLAN (SEP) Alliance for Water Stewardship
- Req. leg. ambientales 03-Dic-2018.xlsx
- Other support documents