

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000652

SITE DETAILS

Site: **BAT Germany - Bayreuth**
Address: Weiherstraße 26 95448, Bayreuth, GERMANY
Contact Person: Andreas Mix
AWS Reference Number: AWS-000485
Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Core
Date of certification decision: 2023-Dec-13
Validity of certificate: 2026-Dec-13

AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)
Audit Type(s): Initial Audit
Audit Start Date: 2023-Oct-10
Lead Auditor: Ruth Wandera
Audit team participants:
Lisa Seufert, Local Auditor
José Manuel González, AWS Assurance Manager
Ruth Wandera, Lead Auditor
Site Participants:
Fatima Bertran De Lis, Senior Consultant Denkstatt
Lukas Fraunholz, Utility Technician
Jürgen Schmitt, Facility Manager
Hubert Veigl, Utility Manager
Nivedita Sante, Environment & Sustainability Project Manager
Barbara Sienkowska, Central Europe Sustainability Manager
Andreas Mix, Engineering Manager
Johannes Müller, Factory Manager

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000652

ADDITIONAL INFO

Summary of Audit Findings: A total of 9 findings were raised during the certification audit, 0 major non-conformities, 5 minor non-conformities, and 4 observations.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 30 days of receipt of the audit report by 07/01/2024.

Minor non-conformities must be closed out by the time of the next annual audit.

The audit team recommends certification of BAT Germany - Bayreuth at Core level pending approval of the corrective actions plan.

CLOSURE OF FINDINGS AND CORRECTIVE ACTION PLAN:

The Client has successfully submitted the corrective action plans addressing all findings. Proof of implementation has been requested for the Minors and this will be evaluated during the Surveillance Audit. The client is requested to upload evidence of implementation prior to the Surveillance Audit.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Scope of Assessment: The scope of services covers the Initial certification audit for assessing conformity of BAT Germany - Bayreuth against the AWS International Water Stewardship Standard Version 2.

BAT Bayreuth Factory is located in Bayreuth Germany. Bayreuth is a town in northern Bavaria, Germany, on the Red Main river in a valley between the Franconian Jura and the Fichtel Mountains. BAT Bayreuth is a tobacco site manufacturing DIET (Dry Iced Expanded Tobacco), and OTP (Other Tobacco Products) like MYO (Make Your Own) and RYO (Roll Your Own). Furthermore, BAT Bayreuth produces semi-finished goods like Casings & Flavours for other BAT factories. Another large part of the site is used for logistics. BAT Bayreuth is a logistic hub for other BAT companies in Europe which means that Finished Goods are delivered from other productions sites to BAT, stored and then send to the respective markets.

The audit was conducted onsite on 10 October 2023 to 12 October 2023.

The onsite site visit included the assessment of the following sites as part of the audit.

1. Water tank for cooling towers
2. Water tank for firefighting water
3. Pressure tank for sprinkler
4. Incoming water point
5. Break room/rest room and drinking water point
6. Condensate tank
7. Water Treatment Plant for boilers
8. Boiler Room – Oil & gas; Gas & Biomass Boilers
9. Feed Water tank after treatment – 13000 litres
10. Oil tank 100,000 m3 used for emergency power and boiler
11. Overflow rain water canal
12. Waste Oil tank
13. Hazardous Materials/Chemical stores at Casings & Flavours Department
14. Neutralization Tank
15. Water/Tobacco Filter System
16. Deep Well and Tank onsite (Not operational)
17. Outgoing water point

The following external stakeholders were interviewed during the audit:

1. Stadtwerke Bayreuth
2. BUND Naturschutz Bayreuth
3. Maisels Brauerei

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	4
Minor	5

Audit Number: AO-000652

FINDING DETAILS

Finding No: TNR-007982
Checklist Item No: 1.1.1
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2024-Oct-10
Checklist item: 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.
Findings: There is no map with the site boundaries.
In fig.2 where the watershed portion is delimited, there is no scale, no orientation, no coordinates and the site is not included.
The Site should provided maps with compass directions and legend; in addition, the site is not located on the catchment map.
On the only map where coordinates are presented (UTM32) this information is incomplete, so it is not possible to geo-reference the site.
Corrective action: Create a proper map of the catchment area and site map with clear orientation, scale, legend, location and geo-reference of the site

Finding No: TNR-007570
Checklist Item No: 1.3.4
Status: Open
Finding level: Observation
Checklist item: 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.
Findings: Drinking Water quality and Waste water results were provided however when one of the reports was downloaded using BAT's address. The report does not clearly indicate when the sampling took place nor was it dated (trinkwasseranalyse-hohe-wartefrom website English). Even though the overall conclusion was that the water quality was good, it was very difficult to assess this clearly because information was all over the place and not consolidated properly for a quick analysis.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Finding No:	TNR-007577
Checklist Item No:	1.5.6
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-10
Checklist item:	Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.
Findings:	Details of existing and planned water-related infrastructure in the catchment were not identified. The site is given until next audit to see if they are able to obtain this information. Emails were sent to Stadtwerke Bayreuth and Stadt Bauhof but information received doesn't fulfill the indicator requirement e.g. what does 100 % mean, how many connections? Where are the boreholes, what is their status etc.
Corrective action:	Schedule sessions with relevant stakeholder Stadtwerke Bayreuth and Stadtbauhof to discuss outcome of audit with the aim to obtain more detailed information. Evaluate if it is possible to obtain more details on the existing and planned water-related infrastructure in the catchment.
Finding No:	TNR-007582
Checklist Item No:	1.5.7
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-10
Checklist item:	The adequacy of available WASH services within the catchment shall be identified.
Findings:	There are no further details provided about number of connections are they all connected to the city sewerage system? There is an assumption that the water supplier is compliant with the Trinkwasserverordnung because it is a requirement. No further details on this were provided.
Corrective action:	Evidence of drinking water quality assessment by the water supplier has been provided in word document "1.3 Water related data for the site" under 1.3.4. Schedule sessions with relevant stakeholder Stadtwerke Bayreuth and Stadtbauhof to discuss outcome of audit with the aim to obtain more detailed information. Evaluate if it is possible to obtain more information on drinking water quality from water supplier and provide details and evidence about the connections to the sewage system.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Finding No:	TNR-007596
Checklist Item No:	1.6.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-10
Checklist item:	Shared water challenges shall be identified and prioritized from the information gathered.
Findings:	There were different versions of shared water challenges provided in the following documents 'List of Shared Water Challenges' and 'Prioritization of SWCs' which is confusing about which one takes precedence. Shared water challenges in the 'Prioritization of SWCs' were used as evidence as they showed stakeholder involvement in determining the challenges.
Corrective action:	Consolidate the information on Shared Water Challenges in one working file to have a clear reference and understanding.
Finding No:	TNR-007597
Checklist Item No:	1.8.1
Status:	Closed
Finding level:	Minor
Due date:	2024-Oct-10
Checklist item:	Relevant catchment best practice for water governance shall be identified.
Findings:	The site needs to be more specific in the best practice identified in water governance. The list provided is broad and doesn't provide a specific project that can be seen as best practice in water governance. This could be inline with water governance initiatives identified in 1.5.1 or other initiatives locally or internationally.
Corrective action:	Revise the Best practice file and research specific projects for water governance with stakeholders incl. the reasons why they are considered as best practice
Finding No:	TNR-008035
Checklist Item No:	2.3.2
Status:	Open
Finding level:	Observation
Checklist item:	A water stewardship plan shall be identified, including for each target: <ul style="list-style-type: none">- 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.
Findings:	The Site shall allocate - Financial budgets for all actions - Column Q

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Finding No:	TNR-007614
Checklist Item No:	2.4.1
Status:	Open
Finding level:	Observation
Checklist item:	A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.
Findings:	The site indicated at the audit that the plan was developed in co-ordination with relevant public-sector and infrastructure agencies however there was no evidence provided to show this.
Finding No:	TNR-007647
Checklist Item No:	5.1.1
Status:	Open
Finding level:	Observation
Checklist item:	The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.
Findings:	During the stakeholder meeting held on 12 September 2023, the presentation ' Stakeholder Disclosure_12.09.2023 English', disclosed Nivedita Sante and Andreas Mix as contacts for the site.Their positions in the organisation were also disclosed. No other positions of others accountable for compliance with water-related laws and regulations were disclosed.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Report Details

Report	Value
Report prepared by	Ruth Wandera
Report approved by	Claudia M. Jaime
Report approved on (Date)	05 Dec 2023

Surveillance

Proposed date for next audit
2024-Oct-10

Stakeholder Announcements

Date of publication	Location
12/08/2023	Newspaper
14/08/2023	BAT German website
11/08/2023	Nordbayrischer Kurier website
04/08/2023	BAT Homepage website
18/07/2023	https://a4ws.org/wp-content/uploads/2023/07/20230414-StakeAnn-Template-V2.0AWS-000485-BAT-Germany.pdf
18/07/2023	https://watersas.org/wp-content/uploads/2023/07/20230414-StakeAnn-Template-V2.0AWS-000485-BAT-Germany.pdf
Comment	<p>The following documents were uploaded</p> <p>0006868279-1 - Stakeholder announcement translated to German</p> <p>1000001436 - Stakeholder announcement in the Local Newspaper</p> <p>Anzeige Nordbayrischer Kurier Homepage</p> <p>Pressemitteilung BAT Homepage_08082023</p> <p>Twitter Post</p> <p>Assessment</p> <p>AWS Certification Requirements for Stakeholder Announcements were met.</p>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Catchment Information

Catchment Information

BAT Germany - Bayreuth Factory is located within the Industrial area in the city of Bayreuth. The site lies on the northwest side of the Rhine (main Catchment) basin whose catchment area is approximately 109,918 km² in Germany.

The site has defined its Catchment as Area covering the source of the river Main in its tributaries Rodach, White Main and Red Main.

The Rhine is one of the major European rivers with a discharge of about 2,900 m³/s (100,000 cu ft/s).

The river system of the Rhine is the largest northwest of the main European watershed in terms of water flow and the second largest in terms of drainage basin (after that of the Neva). The Rhine flows through very different natural areas in a general north-northwest direction.

Water services both potable and wastewater services are provided by the municipality - Stadtwerke Bayreuth.

According to the Municipality the water originates from different sources:

- o Brunnenfeld Lehen (groundwater extraction)
- o Osterbrunnen well field (groundwater pumping)
- o Eichelacker well field (groundwater pumping)
- o Headwaters in the Fichtelgebirge (promoting surface water)
- o External procurement of water from the Fernwasserbedarf Oberfranken (FWO) - 80% from K deltalsperre, the only relevant part for the Bayreuth supply area (acc. Production of drinking water in Oberfranken - Fernwasserbedarf Oberfranken (Source: fwokronach.de))

The exact location of the 4 wells above has not been revealed by the water supplier (just that they are within the Rhein catchment) they are roughly located in the following areas within the catchment selection by the site:

- Bruchschollenland - Bayreuth (1)
- Kristallin - Warmensteinach (2)

Wastewater from the site is discharged to the municipal wastewater treatment plant discharging in the Red Main at the northeast of the city, as a tributary to the Main river.

Figure 1: Catchment Area of Rhine (Main)



Catchment Area of Rhine (Main).JPG

Figure 2: Groundwater bodies within the Rhein catchment where wells are presumably located

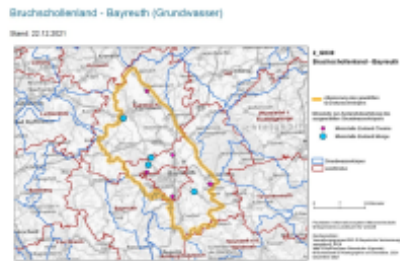


Groundwater bodies within the Rhein catchment where wells are presumably located.JPG

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Bruchschollenland – Bayreuth.JPG



Kristallin – Warmensteinach.JPG

Figure 2: BAT Bayreuth Catchment Area (Area covering the source of the river Main in its tributaries Rodach, White Main and Red Main)



BAT Bayreuth Catchment Area.JPG

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Client Description and Site Details

Client/Site Background

BAT Bayreuth Factory is located in Bayreuth Germany. Bayreuth is a town in northern Bavaria, Germany, on the Red Main river in a valley between the Franconian Jura and the Fichtel Mountains. BAT Bayreuth is a tobacco site manufacturing DIET (Dry Iced Expanded Tobacco), and OTP (Other Tobacco Products) like MYO (Make Your Own) and RYO (Roll Your Own). Furthermore, BAT Bayreuth produces semi-finished goods like Casings & Flavours for other BAT factories. Another large part of the site is used for logistics. BAT Bayreuth is a logistic hub for other BAT companies in Europe which means that Finished Goods are delivered from other productions sites to BAT, stored and then send to the respective markets.

More information can be found here:

https://www.bat.de/group/sites/BAT_AXBF4K.nsf/vwPagesWebLive/DO9YABCW?opendocument



Location of BAT Bayreuth Factory.JPG



Google Earth Image of site.JPG

Summary of Shared Water Challenges




Summary of Shared Water Challenges

1. Decline of available drinking water sources/ Securing Water Supplies in long run
2. Preventing the discharge of wastewater and rainwater in the same sewage canal
3. Maintaining the compliance with water and wastewater regulations
4. Water prices could rise in medium term
5. Measures to prevent lowering of groundwater levels in the catchment area
6. Protection against pollution of surface water in the catchment area
7. Protection against pollution of ground water in the catchment area
8. Improving the security of water resources in the catchment area
9. Improvement of water management rules both in the factory and the entire catchment
10. Aging water infrastructure
11. Increase in agricultural activities
12. Preventing the deterioration of water quality caused by extensive infrastructure transportation routes


CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

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

Audit Number: AO-000652

1	STEP 1: GATHER AND UNDERSTAND	
1.1	<i>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.</i>	
1.1.1	<i>The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:</i> <ul style="list-style-type: none">- 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.	<div> in progress</div>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment:</p> <ul style="list-style-type: none">1.1.1 Physical Scope of the Site1_Site Boundaries2_Water Related Infrastructure3_Water sources providing water to the site4_Water service provider & its Ultimate source5_Discharge Points & Wastewater Service Provider6_Catchment Description <p>Assessment</p> <p>The '1.1.1 Physical Scope of the Site' is a summary document of all the evidence provided for this indicator.</p> <p>Site boundaries; - were provided</p> <ul style="list-style-type: none">- 4 Entry points and 16 discharge points shown in the diagram. <p>- Water-related infrastructure, including piping network, owned or managed by the site or its parent organization; - The general description of water infrastructure on-site including the piping network is available in the documents below</p> <ul style="list-style-type: none">- Beschreibung Rohrnetz Wasser_Abwasser- Beschreibung Rohrnetz <p>(one document is related to Water and the other is related to wastewater).</p> <p>Q: Maps provided but would be helpful to see from client's computer because not everything is displayed. From Client: Page 8 of 1.1.1 Physical scope of the site</p> <p>- Any water sources providing water to the site that are owned or managed by the site or its parent organization;</p> <p>From Client: Page 5 of 1.1.1 Physical scope of the site</p> <p>According to the Stadtwerke Bayreuth, our Municipal water supplier, we receive around 47% water from them directly through different wells situated in the surroundings of Bayreuth. However, around 53% water is purchased from outside from the FWO (Fernwasserversorgung Oberfranken) by the Stadtwerke Bayreuth. In accordance, with the information from the FWO, the water they withdraw comes mainly from the Frankenwald (located on the top of our catchment map) and is distributed via pipe networks to Bayreuth.</p> <p>page 13: 100% of the water utilized by the site comes from the municipal supplier of the city of Bayreuth (Stadtwerke Bayreuth).</p> <p>- Water service provider (if applicable) and its ultimate water source;</p> <p>Q: Yes. Water service provider is Stadtwerke Bayreuth. Source of water is from wells both ground water and surface sources have been provided in the catchment documents.</p> <p>- Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies;</p> <p>The Wastewater (WW) from the factory is discharged to the water canal of the city and is managed by the municipality (Stadt Bauhof Bayreuth)</p> <p>The ultimate water body for BAT Bayreuth is Red Main after wastewater treatment plant. The catchment selected only covers the upper section of this river.</p> <p>- Catchment(s) that the site affect(s) and is reliant upon for water.</p> <p>The catchment and justification is provided on page 2 to 6 of '1.1.1 Physical Scope of the Site' as well as</p> <ul style="list-style-type: none">- 231011 Scope definition statement final- Grundwasserkoerper_2021_Bayreuth (English)- Grundwasserkoerper_2021_Warmensteinach English
---------	---

Finding No: TNR-007982

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

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.*


Yes

Comment The following documents were provided for Assessment:
1.2 Understanding Stakeholders and their water related challenges
1.2.1_1_Stakeholder Database
1.2.1_2_Stakeholder Contact Evidences
1.2.1_3_Stakeholder Engagement, Consultation

Assessment

The '1.2 Understanding Stakeholders and their water related challenges' is a summary document of all the evidence provided for this indicator.

The process used for stakeholder identification was identified.

Provide evidence of stakeholder consultation on water-related interests and challenges; - evidence of stakeholder consultation was provided but only one response on water-related interests and challenges.

The ability and/or willingness of stakeholders to participate across the relevant stakeholder groups was analysed.

The degree of stakeholder engagement based on their level of interest and influence was also analysed.

- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people; was addressed through their working with NGOs particularly BUND Naturschutz

- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies; - 231011 Stakeholder map document provided this information.

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


Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
231011 Stakeholder map
Stakeholder Identification & Matrix
1.2 Understanding Stakeholders and their water related challenges

Assessment

The '1.2 Understanding Stakeholders and their water related challenges' is a summary document of all the evidence provided for this indicator.

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

1.3 *Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.*

1.3.1 *Existing water-related incident response plans shall be identified.*



Yes

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site
1.3.1_Water Related Response Plan

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.

A detailed description on how to react in situations like water supply disruptions, contamination of public water supply, heavy rainfalls, water pipe breakage or legionella in cooling towers was provided.
The BCP Loss of Utilities describes actions to be taken in case of water supply disruptions.

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



Yes

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site
SankeyWasserverbrauch_20230906_0557
Water Map BAT Bayreuth_v2
Water Map BAT Bayreuth_v2 English

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.

The site has prepared a Water Map indicating the inflows, outflows, and storages, in a flow diagram and Sankey diagram format.

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



Yes

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site
12.10.2023_BAT Bayreuth_ Water Balance Calculations
12.10.2023_BAT Bayreuth_ Water Balance Calculations English
BAT Bayreuth_ Water Balance Calculations
BAT Bayreuth_ Water Balance Calculations English
Bayreuth overview ESG May 2023
Bayreuth Sustainability achievements
Niederschlag
PDCA board Engineering_2023
SankeyWasserverbrauch_20230906_0557
Water RM Scoring Germany_2023_H1
Water RM Scoring Germany_2023_H2

Assessment
The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.
Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, was quantified for 2020 to 2022.

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.

Q
Obs.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site
20211026110917
20220426072934
20221013071702
Abwasserprotokoll Nasstabakstation
Betriebsanleitung Kühlturm Turm 9
Geräteordner ph Wert Sonde
Geräteordner ph Wert Sonde English
HW II, AS 12.04.2021#
HW II, AS 12.04.2021 English
HW II, AS 18.01.2022
HW II, AS 19.01.2021
HW II, AS 25.10.2021
Maßblatt Kühlturm Turm 9
Neutralisation tank description
pH Verordnung der Stadt Bayreuth
Protokolle_monatlichen_Prüfung_ph-Wert_Sonde_2020-2023
trinkwasseranalyse-hohe-warte 2020
trinkwasseranalyse-hohe-warte 2021
trinkwasseranalyse-hohe-warte 2021 English
trinkwasseranalyse-hohe-wartefrom website English
trinkwasseranalyse-hohe-wartefrom website
Verdunstungskühlanlagen BAT AWS
Verdunstungskühlanlagen BAT AWS English
Wasseruntersuchungen Kesselhaus
Wasseruntersuchungen Kesselhaus English
Wasseruntersuchungen Kesselhaus2
Wasseruntersuchungen Kesselhaus2 English
Wastewater Report Sept 2022

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.

Drinking water analysis and water hardness can be checked online through their website using the following link:
<https://www.stadtwerke-bayreuth.de/energie-wasser/wasser/wasserhaerte>. The water quality parameters and other details can be found giving the street name and House number. One of the reports was downloaded using BAT's address. The report does not clearly indicate when the sampling took place nor is it dated.

Verdunstungskühlanlagen BAT AWS English document explains how water from cooling systems is treated. There are 6 active cooling towers in the factory. The industrial water (circulating water) must be conditioned against biological infestation (Legionella) using biocides (chlorine, etc.). Since cooling towers are subject to the 42.BImSchV, which regulates the emission of health-endangering emissions in such systems. Wastewater is created by the "desalting" of the system and is discharged into the sewer. The desalination frequency depends on the raw water quality and thickening number. Every three months, a microbiological organism sample is carried out by a DAkkS certified laboratory in order to comply with the legal provisions of the 42nd BImSchV.

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



Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site
Gefahrstoffe Markierung
Gefahrstoffe Werk wassergefährdend
Gefahrstoffverzeichnis_Factory_Gesamt 2 English
Gefahrstoffverzeichnis_Factory_Gesamt 2
Gefahrstoffverzeichnis_Factory_Gesamt
IMG_20221122_091729
IMG_20221122_091738
Inhalt Chemiekalienunfall
Inhalt Ölunfall
Layout Ölunfallhilfsmittel
Ölsensor Abwasserkanal 1
Ölsensor Abwasserkanal 2
Ölsensor Abwasserkanal 3
Ölsensor Abwasserkanal 4
Stückliste Ölunfallstation
Verhalten bei Öl und Chemikalien Unfälle 2023- Training

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.
Potential sources of pollution were identified and mapped, including chemicals used or stored on site.

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



Yes

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site

Maßblatt Druckwindkessel
Prüfbescheinigung Druckgerät TÜV
Tiefbrunnen BAT
Verdunstungskühlanlagen BAT AWS
Wasseranalyse

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.
No IWRAs on site. Description provided was of a well which has since been decommissioned.

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.*



Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
1.3_Water Related data for the site
DEMA1D5J01 J06 J07 - 2020-2022
Kosten Wasser_Übersicht (20,21,22,23)

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.

The site has prepared a excel list of all the costs related to water relevant for the site in this document 'Kosten Wasser_Übersicht (20,21,22,23)'. Site has no revenues from water but there is a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site on page 15 of '1.3_Water Related data for the site' document.

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



Yes

Comment The following documents were provided for Assessment:
ArbStättV - Verordnung über Arbeitsstätten
ASR-A4-1
ASR-A4-2
MicrosoftTeams-image (1)
MicrosoftTeams-image (2)
MicrosoftTeams-image (3)
MicrosoftTeams-image (4)
MicrosoftTeams-image (5)
MicrosoftTeams-image (6)
MicrosoftTeams-image (7)
MicrosoftTeams-image (8)
MicrosoftTeams-image (9)
MicrosoftTeams-image (10)
MicrosoftTeams-image (11)
MicrosoftTeams-image (12)
MicrosoftTeams-image (13)
MicrosoftTeams-image (14)
MicrosoftTeams-image (15)
MicrosoftTeams-image (16)
MicrosoftTeams-image
Sanitäranlagen am Standort
WASH_BAT_Bayreuth
WASH_BAT_Bayreuth English

Assessment

The '1.3_Water Related data for the site' is a summary document of all the evidence provided for this indicator.

WASH requirements are stipulated in the the following acts

- §4 ArbStättV - Sanitär-, Pausen- und Bereitschaftsräume, Kantinen, Erste-Hilfe-Räume und Unterkünfte
- ASR A4.1 - Sanitärräume
- ASR A4.2 - Pausen- und Bereitschaftsräume
- BAT has assessed and has indicated that it is compliant with these requirements.

The toilets are located at a distance of max. 50m from the employees as per legislation requirement. One toilet is provided for every 5 people for men and one for every 2 women. (This is because in 2016 there were about 1400 people working at the site and now there are only 211 people).

BAT Germany has 170 washbasins, 56 showers (total for women and men), 116 WCs and 52 urinals.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

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.*



Yes

Comment The following documents were provided for Assessment:

Indirect Water Uses on Site
BBK WE 2022
BBKs COO
List of C&F Raw materials
Quantity of Tobacco Leaves
Water Filter Calculations of primary (tobacco) input

Assessment

The 'Indirect Water Uses on Site' is a summary document of all the evidence provided for this indicator.

The primary inputs for BAT Bayreuth are

- o Raw tobacco leaves for DIET production - tobacco leaves are from various countries outside the catchment area.

- o Raw materials for Casing and Flavor products - According to the site, Some raw materials for C&F come from various locations in Germany but are all located outside the site's catchment area.

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




Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment: Indirect Water Uses on Site Duenkel Fragebogen Fragebogen BAT- Dünkel</p> <p>Assessment The 'Indirect Water Uses on Site' is a summary document of all the evidence provided for this indicator.</p> <p>There are three outsourced services according to the site</p> <p>1. Canteen Food / Catering - The food supplier is "Dünkel Metzgerei" and is located in Bindlach (approx. 10km from the factory) hence is located in the same catchment area as the site. The overall water consumption per year is 1000m³. BAT's daily orders are approx. 20-30 meals.</p> <p>2. Laundry Service - The laundry services for uniforms/clothes used in production/logistic areas are managed by an external supplier (Klüh) who works together with a subcontractor (service provider). The name of the subcontractor company, contact person and their location is Marion Gärtner Merk Textil-Mietdienste GmbH & Co. KG Albert-Einstein-Straße 30 90513 Zirndorf</p> <p>tel: +49 911 96074 411 fax: +49 911 96074 4110 marion.gaertner@dbl-merk.de www.dbl-merk.de</p> <p>According to BAT, the site where the clothes are washed is not located in the same catchment area as BAT.</p> <p>3. Beverages - The site indicated that drinks for conference gatherings are purchased from König Otto Sprudel located in Wiesau, Oberpfalz which are outside their catchment area.</p>
1.5	<p><i>Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH</i></p>
1.5.1	<p><i>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.</i></p> <p> Yes</p>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment:</p> <p>1.5 (Water Related Data for the Catchment)</p> <p>20230621_Fragebogen Stadtwerke Bayreuth</p> <p>AW BAT- Stadtwerke Bayreuth (AWS)</p> <p>AW TERMINÄNDERUNG Start 14.30 Uhr - 25.01.2023 BAT- FWO AWS Austausch</p> <p>AWS (BAT- Stadt Bauhof)</p> <p>bwp_En_RMBP_2021_01</p> <p>Climate Change Report 2021</p> <p>liste_aufbereitungsstoffe_twa</p> <p>map_En_RBMP_2022-27</p>	
	<p>Assessment</p> <p>The '1.5 (Water Related Data for the Catchment)' is a summary document of all the evidence provided for this indicator.</p>	
	<p>Water governance initiatives were identified as follows:</p>	
	<p>Stadtwerke Bayreuth</p> <ul style="list-style-type: none">- Active groundwater protection is also monitored through sustainable agriculture. Farmers who farm in water protection areas are important partners in groundwater protection. They fulfil legal requirements to protect the groundwater.- Investments in water protection - The municipal utilities invest in their pipeline network, they renovate waterworks, and they manage the groundwater sustainably. <p>This information along with some other initiatives from the Stadtwerke can be seen on their website: Wasserqualität & Versorgungsgebiet Stadtwerke Bayreuth (stadtwerke-bayreuth.de)</p>	
	<p>Water- Fernwasserversorgung Oberfranken (FWO)</p> <ul style="list-style-type: none">- The government of Upper Franconia has launched the AKTION GRUNDWASSERSCHUTZ - Trinkwasser für Oberfranken (Action on Groundwater Protection - Drinking Water for Upper Franconia) to develop new ways for a sustainable water supply and to inform citizens about their drinking water.- For years, the FWO has been supporting the "Trinkfit - mach mit" campaign initiated by the German Association of Energy and Water Industries (BDEW) and supports the installation of drinking water dispensers in schools. Projekt Trinkwasserspender - Fernwasserversorgung Oberfranken (fwokronach.de) <p>Further information on FWO water policy can be found in the link below: Gewinnung von Trinkwasser in Oberfranken - Fernwasserversorgung Oberfranken (fwokronach.de)</p>	
1.5.2	<p><i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i></p>	 Yes
Comment	<p>The following documents were provided for Assessment:</p> <p>1.5 (Water Related Data for the Catchment)</p> <p>Verfahrensanweisung für Rechtsänderungen im Energiebereich</p> <p>Translated</p>	
	<p>Assessment</p> <p>The '1.5 (Water Related Data for the Catchment)' is a summary document of all the evidence provided for this indicator.</p> <p>BAT works with an external consultant (RCG Manager GmbH) to meet all legal and regulatory requirements which apply to the factory. There is a contract in place. please see additional information on pages 10 to 13 of '1.5 (Water Related Data for the Catchment)' document.</p>	
1.5.3	<p><i>The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.</i></p>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment	The following documents were provided for Assessment: Water Balance_Water Catchment Area Assessment The catchment balance is positive as indicated in the attachment 'Water Balance_Water Catchment Area'. Seasonal variance was also presented in the attached evidence.	
1.5.4	<i>Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.</i>	 Yes
Comment	The following documents were provided for Assessment: 1.5 (Water Related Data for the Catchment Akkreditierung- FWO stadtbauhof-bayreuth-abwasser-klaeranlage Assessment The '1.5 (Water Related Data for the Catchment)' is a summary document of all the evidence provided for this indicator. For Catchment water quality, please find information from pages 14 to 24. Drinking water analysis and water hardness online: https://www.stadtwerke-bayreuth.de/energie-wasser/wasser/wasserhaerte . Information on Groundwater quality: Grundwasser - LfU Bayern website Information on Raw water quality: Rohwasser - LfU Bayern website Frequency of monitoring as per client information: Basic chemistry once or twice a year, WFD overview monitoring network, WFD operational monitoring network, EUA/LIKI monitoring network, EU nitrate monitoring network Metals annually or every 2 years depending on relevance, WFD overview monitoring network, WFD operational monitoring network, EUA/LIKI monitoring network 1. PSM A (plant protection products) <ul style="list-style-type: none">• every 1-2 years depending on relevance,• WFD overview monitoring network, WFD operational monitoring network 2. VOC (Volatile Organic Hydrocarbons) <ul style="list-style-type: none">• depending on potential pollution annually,• WFD monitoring network, WFD operational monitoring network 3. PAH (Polycyclic Aromatic Hydrocarbons) <ul style="list-style-type: none">• depending on potential pollution annually,• WFD overview monitoring network, WFD operational monitoring network UmweltAtlas (bayern.de)	
1.5.5	<i>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.</i>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
1.5 (Water Related Data for the Catchment
Broschuere_Wasserschutzgebiete
nsg_oberfranken
Prozess zur Auswahl der wichtigen Wasserbereiche (IWRAs)
Prozess zur Auswahl der wichtigen Wasserbereiche (IWRAs) English
Sammlung Naturschutzgebiete und links
Wasserschutzgebiete

Assessment
The '1.5 (Water Related Data for the Catchment)' is a summary document of all the evidence provided for this indicator.
Important Water-Related Areas were identified, and mapped, and their status assessed using scientific information obtained through research.

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


in progress


Comment The following documents were provided for Assessment:
1.5 (Water Related Data for the Catchment
20230621_Fragebogen Stadtwerke Bayreuth English
20230621_Fragebogen Stadtwerke Bayreuth
AW BAT- Stadtwerke Bayreuth (AWS)
AW TERMINÄNDERUNG Start 14.30 Uhr - 25.01.2023 BAT- FWO AWS Austausch
AWS (BAT- Stadt Bauhof)
WG BAT- Stadt Bayreuth (AWS)

Assessment
The '1.5 (Water Related Data for the Catchment)' is a summary document of all the evidence provided for this indicator.
The following information was provided by the site:
- In accordance with the information from the Stadtwerke, the infrastructure is about 62 years old (from 1960).
- The percentage of population served is 100%- City of Bayreuth.
- The Stadtwerke and the FWO invests every year in the water related infrastructure. They have yearly planned programs.
- The problems are realized by these agencies and immediate actions are implemented.
The site indicated that they could not obtain a report of any such actions from them as it is confidential from their side.

Measures in place to deal with potential exposure of infrastructure to extreme events have been identified. - Flood control, Extreme weather.
Details of existing and planned water-related infrastructure were not identified, however measures put in place to cope with extreme events was provided

Finding No: TNR-007577




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


in progress

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)




Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment: 1.5 (Water Related Data for the Catchment)</p> <p>Assessment The '1.5 (Water Related Data for the Catchment)' is a summary document of all the evidence provided for this indicator. Pages 30 to 31 cover this indicator.</p> <p>The site has indicated that according to the World Bank, 100% of the population in Germany has access to clean drinking water. https://data.worldbank.org/indicator/SH.H2O.SMDW.ZS?locations=DE There are no further details provided about number of connections are they all connected to the city sewerage system? There is an assumption that the water supplier is compliant with the Trinkwasserverordnung because it is a requirement. No further details on this were provided.</p> <p>Finding No: TNR-007582</p>
1.6	<p><i>Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.</i></p>
1.6.1	<p><i>Shared water challenges shall be identified and prioritized from the information gathered.</i></p> <p> in progress</p>
Comment	<p>The following documents were provided for Assessment: 1.6 (Prioritization of Shared Water Challenges) List of Shared Water Challenges Prioritization of SWCs Stakeholder Shared Water Challenges</p> <p>Assessment The '1.6 (Prioritization of Shared Water Challenges)' is a summary document of all the evidence provided for this indicator Shared water challenges were identified and prioritized from the information gathered from stakeholders in this document 'Prioritization of SWCs'.</p> <p>Finding No: TNR-007596</p>
1.6.2	<p><i>Initiatives to address shared water challenges shall be identified.</i></p> <p> Yes</p>
Comment	<p>The following documents were provided for Assessment: 1.6 (Prioritization of Shared Water Challenges) Prioritization of SWCs</p> <p>Assessment The '1.6 (Prioritization of Shared Water Challenges)' is a summary document of all the evidence provided for this indicator Initiatives to address shared water challenges were identified in column H of the following document 'Prioritization of SWCs' in the sheet named 'Detailed Description of SWCs' column H.</p>
1.7	<p><i>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.</i></p>
1.7.1	<p><i>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.</i></p> <p> Yes</p>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment: 1.7_ Risks and Opportunities at BAT Germany Risks and Opportunities at BAT Germany Water Risk Filter- Bayreuth</p> <p>Assessment The '1.7_ Risks and Opportunities at BAT Germany' is a summary document of all the evidence provided for this indicator Water risks faced by the site were identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.</p>	
1.7.2	<p><i>Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</i></p>	 Yes
Comment	<p>The following documents were provided for Assessment: 1.7_ Risks and Opportunities at BAT Germany Risks and Opportunities at BAT Germany Water Risk Filter- Bayreuth</p> <p>Assessment The '1.7_ Risks and Opportunities at BAT Germany' is a summary document of all the evidence provided for this indicator Water-related opportunities were identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</p>	
1.8	<p><i>Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.</i></p>	
1.8.1	<p><i>Relevant catchment best practice for water governance shall be identified.</i></p>	 closed
Comment	<p>The following documents were provided for Assessment: Best Practices towards achieving AWS Outcomes Water Stewardship Plan_Bayreuth_ENG Documents are attached under criteria 1.8</p> <p>Assessment The site has identified the following best practice for water governance in the catchment 1. Engaging with stakeholders in the catchment area 2. Arranging a Water Forum/Association in the catchment 3. Support good water governance initiatives in the catchment 4. Participation in Industrial Chamber in the Energy&Environment committee Finding No: TNR-007597</p>	
1.8.2	<p><i>Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.</i></p>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
Best Practices towards achieving AWS Outcomes
Water Stewardship Plan_Bayreuth_ENG
Documents are attached under criteria 1.8

Assessment
The site has identified the following best practices for water balance for site and catchment:
On-site:

1. Regular water savings study
2. Installing state of the art technologies
3. Water metering on-site for key equipment
4. On-site rain water collection systems (cisterns)
5. Grey water reuse
6. Inspection of water infrastructure
7. Cleaning water reuse
8. Monitoring of daily water consumption and/or losses
9. Using rain water relieve systems

In water catchment area

1. Support wetland restoration projects
2. Support rainwater harvesting or collection projects
3. Support river bank stabilization / contour bunds projects
4. Promote afforestation practices
5. Support pond restoring projects

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



Yes

Comment The following documents were provided for Assessment:
Best Practices towards achieving AWS Outcomes
Water Stewardship Plan_Bayreuth_ENG
Documents are attached under criteria 1.8

Assessment
The site has identified the following best practices for water quality for site and catchment:
On-Site

1. Automated monitoring system for wastewater parameters
2. Regular audits/checks for safe storage of pollutant substances
3. Installation of oil separators in parking areas (car and/or truck parking)
4. Training of employees in handling of hazardous substances

Catchment

1. Promote sustainable agricultural practices
2. Promote waste cleaning actions in the water catchment areas
3. Arranging water related trainings for farmers
4. Support projects to measure the soil moisture

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



Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
Best Practices towards achieving AWS Outcomes
Water Stewardship Plan_Bayreuth_ENG
Documents are attached under criteria 1.8

Assessment

The site has identified the following best practices for site maintenance of Important Water-Related Areas.

1. Support wetland restoration projects - Wetland support water storage in the catchment and to prevent floods
2. Monitoring the state of IWRAs in the catchment - Regular monitoring plan will provide transparency to the state of identifies IWRAs and better help to understand issues.
3. Support projects to improve the state of IWRAs - Improving the state of IWRAs to protect water supply, water quality and ecosystem

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



Yes

Comment The following documents were provided for Assessment:
Best Practices towards achieving AWS Outcomes
Water Stewardship Plan_Bayreuth_ENG
Documents are attached under criteria 1.8

Assessment

The site has identified the following best practices for site provision of equitable and adequate WASH services on-site and in the catchment.

On-site

1. Provision of sufficient supplies of safe drinking water - Existing standard in Germany and in catchment area; provision of more than sufficient toilets, washrooms, social rooms with vending machines and water filter systems, hygiene articles etc.
2. Provide rules for hygiene - Educate employees on site with regards to good hygiene practices (correct washing of hands) - e.g. posters in toilets
3. Installing state of the art technologies - Installation of aerators, double flushing systems, mist nozzles, sensors etc in social rooms

In the catchment



Gain better understanding of WASH in catchment - Gather more information on WASH in catchment beyond the publicly available information to identify potential gaps vs. the common WASH perception

Best practice in WASH provided under water balance.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000652

2 STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan		
2.1	<i>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.</i>	
2.1.1	<i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i> <i>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</i> <i>- That the site implementation will be aligned to and in support of existing catchment sustainability plans</i> <i>- That the site's stakeholders will be engaged in an open and transparent way</i> <i>- That the site will allocate resources to implement the Standard.</i>	<div> Yes</div>
Comment	The following documents were provided for Assessment: 2.1_Site Commitment 2022_Rollenprofil_Environmental and Sustainability Project Manager_draft AWS site commitment_deu AWS site commitment_eng BAT Germany GmbH AWS Commitment_DEU BAT Germany GmbH AWS Commitment_ENG Assessment The commitment is signed - Yes; publicly disclosed - Yes <i>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - Yes but disjointed.</i> <i>- That the site implementation will be aligned to and in support of existing catchment sustainability plans - Yes</i> <i>- That the site's stakeholders will be engaged in an open and transparent way -Yes</i> <i>- That the site will allocate resources to implement the Standard. - Yes</i>	
2.2	<i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i>	
2.2.1	<i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i> <i>- Identification of responsible persons/positions within facility organizational structure</i> <i>- Process for submissions to regulatory agencies.</i>	<div> Yes</div>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment:</p> <p>2.2 (Maintenance of Compliance Obligations)</p> <p>Organizational Structure</p> <p>Organizational Structure (English)</p> <p>791_entwaesserungssatzung</p> <p>1958 1.Seite</p> <p>1958 2.Seite</p> <p>1958 Plan1</p> <p>1958 Plan2</p> <p>BAT Bayreuth Organizational Chart_1</p> <p>EHS Beauftragtenorganisation_März 2023</p> <p>Road Map EHS 2021 Final 17022021 - review_2023</p> <p>Verfahrensweisung für Rechtsänderungen Energie, Umwelt, Arbeitsschutz</p> <p>Wasservertrag Stadtwerke Bayreuth_ab2018</p> <p>Assessment</p> <p>Process for submissions to regulatory agencies - was provided</p> <p>Identification of responsible persons/positions within facility organizational structure</p> <p>-organogram provided should be read with the excel sheet.</p>	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	
2.3.1	<i>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.</i>	 Yes
Comment	<p>The following documents were provided for Assessment:</p> <p>2.3_AWS Strategy_BAT Bayreuth</p> <p>Pictures</p> <p>21.07.23_BT_BAT_Mitarbeiter Strategie</p> <p>Awareness Strategy</p> <p>PDCA board Engineering_2022</p> <p>PDCA board Engineering_2023</p> <p>Wasser Awareness Training</p> <p>Water Stewardship Statergy_Bayreuth</p> <p>Water Stewardship Statergy_Bayreuth English</p> <p>Assessment</p> <p>The attachment 'Water Stewardship Statergy_Bayreuth English' is provided with Mission and Vision statements. Goals were on last slide in blue</p>	
2.3.2	<p><i>A water stewardship plan shall be identified, including for each target:</i></p> <ul style="list-style-type: none"> <i>- How it will be measured and monitored</i> <i>- Actions to achieve and maintain (or exceed) it</i> <i>- Planned timeframes to achieve it</i> <i>- Financial budgets allocated for actions</i> <i>- Positions of persons responsible for actions and achieving targets</i> <i>- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.</i> 	 Obs.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
2.3_AWS Strategy_BAT Bayreuth
Water Stewardship Plan_Bayreuth_ENG
Water Stewardship Plan_Bayreuth_DEU

Assessment

- How it will be measured and monitored - Column W
- Actions to achieve and maintain (or exceed) it - Columns C& D
- Planned timeframes to achieve it - Columns R & S
- Financial budgets allocated for actions - Column Q
- Positions of persons responsible for actions and achieving targets - Column T
- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes. - Column L, M, P

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.*


Obs.

Comment The following documents were provided for Assessment:
2.4_Mitigation Plan
Auszug Notfallplan - Wasser (002)
Auszug Notfallplan - Wasser (English)
Content annual safety training hazardous substances
IRP Bay AME Ops Loss of Utilities v4.1
Notfallhandbuch in Bearbeitung von Michael Schatz
Overview Oil contamination stations
Verhalten bei Öl und Chemikalien Unfälle 2023

Assessment

The site has provided a plan to mitigate or adapt to identified water risks. The site indicated at the audit that the plan was developed in co-ordination with relevant public-sector and infrastructure agencies however there was no evidence provided to show this.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)




Audit Number: AO-000652

3 STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts
<p>3.1 <i>Implement plan to participate positively in catchment governance.</i></p>
<p>3.1.1 <i>Evidence that the site has supported good catchment governance shall be identified.</i></p> <p style="text-align: right;">✓ Yes</p>
<p>Comment The following documents were provided for Assessment: 3.1 (Catchment Governance- Plan Implementation) (1) 1_Flusssäuberung Weißer Main_18.03.2023 2_Flußäuberung_Eckersdorf_BAT Event_06.05.2023 3_Stadt Bauhof- WWTP Besuch 4_BUND Naturschutz 5_Baumpatenschaft Stadt Bayreuth 6_Infiltration Deep Meldungen Patrouille 2023 Teilnehmer Aktionen Water Rights_BAT Bayreuth</p> <p>Assessment Evidence that the site has supported good catchment governance was identified.</p>
<p>3.1.2 <i>Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.</i></p> <p style="text-align: right;">✓ Yes</p>
<p>Comment The following documents were provided for Assessment: 3.1 (Catchment Governance- Plan Implementation) (1) Water Rights_BAT Bayreuth 3.1.2_Water Rights</p> <p>Assessment BAT Bayreuth has implemented actions like cleaning in the neighborhood of sub water catchment area: White Main, waste cleaning action in neighborhood of water protection area of Eckersdorf, donation for purchase of moorlands, donation for afforestation purposes as a way of respecting the water rights of others.</p>
<p>3.2 <i>Implement system to comply with water-related legal and regulatory requirements and respect water rights.</i></p>
<p>3.2.1 <i>A process to verify full legal and regulatory compliance shall be implemented.</i></p> <p style="text-align: right;">✓ Yes</p>
<p>Comment The following documents were provided for Assessment: 3.2_Compliance with regulator requirements 791_entwaesserungssatzung Checkliste Regenwasser Versickerungen 1 Checkliste Regenwasser Versickerungen 2 DWA Merkblatt M 153 EHS Beauftragtenorganisation_März 2023 Entwässerungsgenehmigung DIET Relevante Gesetze und Vorschriften Verfahrensweisung für Rechtsänderungen Energie, Umwelt, Arbeitsschutz Wasservertrag Stadtwerke Bayreuth_ab2018</p> <p>Assessment BAT works with an external consultant (RGC Manager GmbH) to meet all legal and regulatory requirements which apply to the factory. There is a contract in place.</p>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

3.2.2	<i>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.</i>	 Yes
Comment	<p>The following documents were provided for Assessment:</p> <ul style="list-style-type: none"> 3.2_Compliance with regulator requirements 791_entwaesserungssatzung Checkliste Regenwasser Versickerungen 1 Checkliste Regenwasser Versickerungen 2 DWA Merkblatt M 153 EHS Beauftragtenorganisation_März 2023 Entwässerungsgenehmigung DIET Relevante Gesetze und Vorschriften Verfahrensweisung für Rechtsänderungen Energie, Umwelt, Arbeitsschutz Wasservertrag Stadtwerke Bayreuth_ab2018 <p>Assessment</p> <p>BAT Bayreuth has implemented actions like cleaning in the neighborhood of sub water catchment area: White Main, waste cleaning action in neighborhood of water protection area of Eckersdorf, donation for purchase of moorlands, donation for afforestation purposes as a way of respecting the water rights of others.</p>	
3.3	<i>Implement plan to achieve site water balance targets.</i>	
3.3.1	<i>Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.</i>	 Yes
Comment	<p>The following documents were provided for Assessment:</p> <ul style="list-style-type: none"> 3.3 (Progress towards Site Water Balance Targets) Bayreuth overview ESG May 2023 Bayreuth Sustainability achievements Bayreuth sustainability scorecard 2022 Bayreuth sustainability scorecard 2023 Road Map EHS 2021 Final 17022021 - review_2022 Road Map EHS 2021 Final 17022021 - review_2023 <p>Assessment</p> <p>The site provided evidence of the following:</p> <ul style="list-style-type: none"> a) Second Stage: Reverse Osmosis helps to recycle more water and help the factory improve its recycling water figures (approximately 100 m3 water recycling per month). b) Installation of new valves for Sprinklers - To reduce the water consumption caused during the weekly sprinkler tests, the site converted the direct alarms and installed new water saving valves. c) Adjustment of toilet flushing - the site changed another 35 sets of flushing systems in toilets from single flushing to dual flushing system with the aim to reduce social water d) Additional water metering on-site - The site has had water metering in some areas in place and measures and reports the amount of water used on a continuous basis. Water figures are reported in BATs global CR360 system monthly. For better analysis, additional water meters have been installed in 2023 in order to understand the locations with high water consumption. 	
3.3.2	<i>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.</i>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
3.3 (Progress towards Site Water Balance Targets)
Bayreuth overview ESG May 2023
Bayreuth Sustainability achievements
Bayreuth sustainability scorecard 2022
Bayreuth sustainability scorecard 2023
Road Map EHS 2021 Final 17022021 - review_2022
Road Map EHS 2021 Final 17022021 - review_2023
These documents are attached under 3.3.1

Assessment

Water scarcity is not a shared water challenge. The site has however decreased its water consumption over the past few years along with the several projects implemented on-site.

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



Yes

Comment There is no re-allocation of water.
Water from BAT Bayreuth is completely purchased from the city administration and used for its own purposes without further reallocation to any third party. Also, the wastewater is discharged completely to the city wastewater plant and not sold to any third party.

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.*



Yes

Comment The following documents were provided for Assessment:
3.4 (Site water quality targets)
Copy of 2023_06_28_Beschreibung_Neutralisation
stadtbauhof-bayreuth-abwasser-klaeranlage

Assessment

The site has indicated that 'The quality of water that arrives to us is in accordance with the German food water quality standard and hence accurate and safe to be used for production and social use. The results shared from the Municipality's website show that the water quality at the site is good.

Knowledge Sharing: Klüh Integrated Systems (KIS) - KIS is an external company who delivers cleaning services for the site. The company uses various cleaning agents for the services, and as maintaining the wastewater parameters is very crucial for BAT, they influenced its water policy so they would ensure their products are sustainable and environmental friendly as a part of their company policy.

Another action implemented by the site for water quality was in re-equipping and purchasing of additional spill kits on-site to mitigate the risk of contamination on site with hazardous materials / chemicals in case of spillages .

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



Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
3.4 (Site water quality targets)
Copy of 2023_06_28_Beschreibung_Neutralisation
stadtbauhof-bayreuth-abwasser-klaeranlage
These documents are attached under 3.4.1

Assessment
In the critical Casing&Flavour Department BAT Bayreuth operates a neutralization tank to ensure the pH values are in the required range and compliant with the regulation of the city of Bayreuth before wastewater is discharged
Furthermore, an action to avoid phosphorus in the neutralization process is currently under investigation as phosphorus was mentioned as an issue for the sewage canal system by the Stadtbauhof Bayreuth.

3.5 *Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.*

3.5.1 *Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.*



Comment The following documents were provided for Assessment:
3.5 (IWRA's actions in the catchment area)

Assessment
The site provided the following information to fulfill the requirement:
DIET building which is a pure rainwater infiltration trench (for the existing courtyard areas) with no overflow to the municipal sewer.
a) Cleaning Sub-water catchment of Main: White Main
b) Cleaning Forests in the water protection area (IWRA) of Mistelbach/Eckersdorf
c) Afforestation in cooperation with city of Bayreuth (Baumpatenschaft)

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.*



CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment:</p> <ul style="list-style-type: none"> 3.6 (WASH on-site & Catchment area) 000 IFM Hauptvertrag (Final) 000 Anlage 1 - Leistungsbeschreibung 002 Raumbuch 003 Gebäude- und Unterhaltsreinigung Dallmayr Leasingvertrag Garderoben Planung 2023 Maßnahmenkatalog CORONA Standort Bayreuth 20220425 WASH_BAT_Bayreuth WASH_BAT_Bayreuth English <p>Assessment</p> <p>BAT Bayreuth has several facilities on-site to give access to safe drinking water and sanitation to the employees and contractors.</p> <p>WASH requirements are stipulated in the the following acts</p> <ul style="list-style-type: none"> o §4 ArbStättV - Sanitär-, Pausen- und Bereitschaftsräume, Kantinen, Erste-Hilfe-Räume und Unterkünfte o ASR A4.1 - Sanitärräume o ASR A4.2 - Pausen- und Bereitschaftsräume <p>BAT has assessed the compliance against these requirements and the site is compliant. The toilets are located at a distance of max. 50m from the employees as per legislation requirement. One toilet is provided for every 5 people for men and one for every 2 women. (This is because in 2016 there were about 1400 people working at the site and now there are only 211 people).</p> <p>BAT Germany has 170 washbasins, 56 showers (total for women and men), 116 WCs and 52 urinals.</p>	
3.6.2	<p><i>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.</i></p>	 Yes
Comment	<p>The following documents were provided for Assessment:</p> <ul style="list-style-type: none"> 3.6 (WASH on-site & Catchment area) 000 IFM Hauptvertrag (Final) 000 Anlage 1 - Leistungsbeschreibung 002 Raumbuch 003 Gebäude- und Unterhaltsreinigung Dallmayr Leasingvertrag Garderoben Planung 2023 Maßnahmenkatalog CORONA Standort Bayreuth 20220425 WASH_BAT_Bayreuth WASH_BAT_Bayreuth English <p>The documents above are provided in 3.6.1 above.</p> <p>Assessment</p> <p>The following was extracted from the documents:</p> <p>Due to the reduction of employees the risk of legionella has increased on site as water is not circulating sufficiently in the system. In accordance with the Trinkwasserverordnung (§§6-9, §13 TrinkwV) the site has to make sure that no health risk is imposed on employees, contractors or visitors. By making the necessary piping adjustments, shutting down toilets and washrooms, BAT is making sure that the human right to safe water and sanitation is always assured.</p>	
3.7	<p><i>Implement plan to maintain or improve indirect water use within the catchment:</i></p>	
3.7.1	<p><i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i></p>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)





Audit Number: AO-000652

Comment	<p>The following documents were provided for Assessment: 3.7 (Indirect water use targets in WAP) Deunkel Fragebogen Microsoft Teams-image (23) Water Filter Calculations of primary (tobacco) input</p> <p>Assessment Indirect water sources for primary inputs like tobacco leaves and casing and flavor raw materials are outside the catchment area.</p>	
3.7.2	<p><i>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.</i></p>	 Yes
Comment	<p>The following documents were provided for Assessment: 3.7 (Indirect water use targets in WAP) Deunkel Fragebogen Microsoft Teams-image (23) Water Filter Calculations of primary (tobacco) input These documents are uploaded under 3.7.1</p> <p>Assessment Evidence of engagement with BAT's supplier for catering/tiffin services was provided.</p>	
3.8	<p><i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i></p>	
3.8.1	<p><i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i></p>	 Yes
Comment	<p>The following documents were provided for Assessment: 3.8.1 (Water infrastructure related evidences) 20230621_Fragebogen Stadtwerke Bayreuth AW BAT- Stadtwerke Bayreuth (AWS) AWS (BAT- Stadt Bauhof)</p> <p>Assessment Evidence of engagement, and the key messages relayed with confirmation of receipt, were identified. the evidence provided was from Stadtwerke Bayreuth.</p>	
3.9	<p><i>Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.</i></p>	
3.9.1	<p><i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i></p>	 Yes
Comment	<p>The following documents were provided for Assessment: 3.9 (Evidence on best practices) Good Catchment Governance on-site</p> <p>Assessment The document 'Good Catchment Governance on-site' provides evidence for water governance on site. Some of the actions included are as follows: a) AWS Workshop on occasion of World Water Day b) On-site Installation of Infiltration Deep c) EnerCon rollout in DIET & Utility</p>	

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Yes
Comment	<p>The following documents were provided for Assessment: 3.9 (Evidence on best practices) Good Catchment Governance on-site Documents are provided in 3.9.1 above.</p> <p>Assessment The document 'Good Catchment Governance on-site' provides evidence for water balance on site. Some of the actions included are as follows:</p> <p>a) Second Stage: Reverse Osmosis - BAT Bayreuth site has RO process to reuse the water from condensation process. In early 2023, the process was repeated, a second step is being implemented, to recycle more water and help the factory improve its recycling water figures.</p> <p>b) Installation of New Ventils for Sprinklers - The sprinklers on-site need to undergo weekly monitoring tests according to the law. These tests need water during their maintenance. To reduce the water consumption caused during weekly sprinkler tests, the ventils for these sprinklers were changed</p>	
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	<p>The following documents were provided for Assessment: Water Stewardship Plan_Bayreuth_ENG</p> <p>Assessment: The following were provided by the client to fulfill this indicator requirement: 1. Automated monitoring system for wastewater parameters - Automated system to neutralize the wastewater in the Casing & Flavour department to ensure legal compliance rather than manual measurements.</p> <p>2. Regular audits/checks for safe storage of pollutant substances - Review areas with high risk of pollution and defining gaps and actions to mitigate the risk of contamination</p>	
3.9.4	<i>Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.</i>	 Yes
Comment	<p>The following documents were provided for Assessment: Water Stewardship Plan_Bayreuth_ENG</p> <p>Assessment: The following were provided by the client to fulfill this indicator requirement: 1. Support wetland restoration projects - Wetland support water storage in the catchment and to prevent floods</p> <p>2. Monitoring the state of IWRAs in the catchment - Regular monitoring plan will provide transparency to the state of identifies IWRAs and better help to understand issues</p> <p>3. Support projects to improve the state of IWRAs - Improving the state of IWRAs to protect water supply, water quality and ecosystem</p>	
3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000652

Comment The following documents were provided for Assessment:
Water Stewardship Plan_Bayreuth_ENG

Assessment:

The following were provided by the client to fulfill this indicator requirement:

1. Provision of sufficient supplies of safe drinking water - Existing standard in Germany and in catchment area; provision of more than sufficient toilets, washrooms, social rooms with vending machines and water filter systems, hygiene articles etc.

2. Installing state of the art technologies - Installation of aerators, double flushing systems, mist nozzles, sensors etc in social rooms

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

4 STEP 4: EVALUATE - Evaluate the site's performance.	
4.1	<i>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.</i>
4.1.1	<i>Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.</i>
Comment	<p>The following documents were provided for Assessment: AWS Evaluation and Review_2023 AWS Evaluation and Review_2023 report</p> <p>Assessment The 'AWS Evaluation and Review_2023 report' evaluates performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes .</p>
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>
Comment	<p>The following documents were provided for Assessment: AWS Evaluation and Review_2023 AWS Evaluation and Review_2023 report The documents are attached in 4.1.1</p> <p>Assessment The 'AWS Evaluation and Review_2023 report' evaluated value creation resulting from the water stewardship plan e.g. the installation of the dual flush systems did only bring a small benefit while incorporating a high cost.</p>
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>
Comment	<p>The following documents were provided for Assessment: AWS Evaluation and Review_2023 AWS Evaluation and Review_2023 report The documents are attached in 4.1.1</p> <p>Assessment The following was identified in the 'AWS Evaluation and Review_2023 report' in terms of shared value benefits in the catchment; BAT Purchase of moorland for moor renaturation was done in cooperation with BUND Naturschutz and was well received. Moorlands are important for water conservation and will have a positive impact on the catchment water balance. BAT's evaluation resulted in a recommendation to support similar activities in the upcoming years.</p>
4.2	<i>Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.</i>
4.2.1	<i>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.</i>

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Comment The following documents were provided for Assessment:
AWS Evaluation and Review_2023
AWS Evaluation and Review_2023 report
The documents are attached in 4.1.1

Assessment
The site indicated that there were no water related emergency incidents in the last 12 months.

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.*


Yes

Comment The following documents were provided for Assessment:
1_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
2_AW Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
3_Uni_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
4_Maisels_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
5_Bayernland_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
6_BUND_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
7_FZ_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
8_SoLaWi_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
9_klüh_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
10_Landratsamt_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
11_WWA_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
12.09.2023_Stakeholder Feedback
12_FWO_Einladung Vorstellung Wasserstrategie und Aktionsplan der BAT Bayreuth
BCP_IRP_Employee_Training_Record_2023
BCP_IRP_Exercise_record_2023
Intern Vorbereitung AWS Audit- Standort Bayreuth
Protokoll 12.09.2023
Stakeholder Disclosure_12.09.2023 English
Stakeholder Disclosure_12.09.2023
AWS Evaluation and Review_2023 report

Assessment
Consultation efforts with stakeholders on the site's water stewardship performance were identified.
Pages 4 and 5 of the 'AWS Evaluation and Review_2023 report' gives an evaluation of stakeholder engagement. Overall the feedback was good however the site needs to encourage more participation because not all invited showed up.

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.*


Yes

Comment The following documents were provided for Assessment:
AWS Evaluation and Review_2023
AWS Evaluation and Review_2023 report
Water Stewardship Plan_Bayreuth_ENG

Assessment
The AWS Evaluation and Review_2023 report documents the evaluation meeting outcome which resulted in the new Water stewardship Plan attached.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)






Audit Number: AO-000652

5STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's stewardship efforts		
5.1	Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.	
5.1.1	The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.	Q Obs.
Comment	The following documents were provided for Assessment: 5_Communicate and Disclose (saved under criteria Step 5) Disclosure Disclosure English Stakeholder Disclosure_12.09.2023 English Assessment During the stakeholder meeting held on 12 September 2023, the presentation ' Stakeholder Disclosure_12.09.2023 English', disclosed Nivedita Sante and Andreas Mix as contacts for the site. Their positions in the organisation were also disclosed. No other positions of others accountable for compliance with water-related laws and regulations were disclosed.	
5.2	Communicate the water stewardship plan with relevant stakeholders.	
5.2.1	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.	✔ Yes
Comment	The following documents were provided for Assessment: 5_Communicate and Disclose (saved under criteria Step 5) Stakeholder Disclosure_12.09.2023 English Assessment The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, was communicated to relevant stakeholders on 12 September 2023.	
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.	✔ Yes
Comment	The following documents were provided for Assessment: 5_Communicate and Disclose (saved under criteria Step 5) Stakeholder Disclosure_12.09.2023 English 1.2.1_2_Stakeholder Contact Evidences - 20.09.2023_Water Strategy Disclosure Assessment A summary of the site's water stewardship performance, including quantified performance against targets, was disclosed at the meeting on 12 September 2023 as well as shared on email.	
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.	

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

5.4.1	<i>The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.</i>	 Yes
Comment	<p>The following documents were provided for Assessment: 5_Communicate and Disclose (saved under criteria Step 5) Stakeholder Disclosure_12.09.2023 English 1.2.1_2_Stakeholder Contact Evidences - 20.09.2023_Water Strategy Disclosure Evidence is attached under step 5 as well as under 5.3.1 Disclosure English</p> <p>Assessment The site's shared water-related challenges and efforts made to address these challenges was disclosed from page 27 of the 'Stakeholder Disclosure_12.09.2023 English' at the meeting BAT held with stakeholders on 12 September 2023 as well as through individual emails.</p> <p>Also seen on page 7 of 'Disclosure English'. The document is published and disclosed via BAT Homepage whose link is shown below: British American Tobacco Germany - Alliance for Water Stewardship (bat.de)</p>	
5.4.2	<i>Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.</i>	 Yes
Comment	<p>The following documents were provided for Assessment: Disclosure English</p> <p>Assessment Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies were identified on page 6 of the 'Disclosure English' attachment. The document is published and disclosed via BAT Homepage whose link is shown below: British American Tobacco Germany - Alliance for Water Stewardship (bat.de)</p>	
5.5	<i>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.</i>	
5.5.1	<i>Any site water-related compliance violations and associated corrections shall be disclosed.</i>	 Yes
Comment	<p>The following documents were provided for Assessment: Disclosure English</p> <p>Assessment There were no site water-related compliance violations and associated corrections. Also seen on page 5 of 'Disclosure English'. The document is published and disclosed via BAT Homepage whose link is shown below: British American Tobacco Germany - Alliance for Water Stewardship (bat.de)</p>	
5.5.2	<i>Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.</i>	 Yes
Comment	<p>No corrective actions necessary.</p>	
5.5.3	<i>Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.</i>	 Yes
Comment	<p>No water related violation.</p>	

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652

Photographic Evidence from Audit



Water treatment for boiler.jpg



Hazardous Materials Store 4.jpg



Toilet sinks.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



WASH.jpg



Water inlet.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Oil Tank 100000 m3 capacity used for emergency power 2.jpg



Gas Boiler.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Shower.jpg



Water for cooling Towers.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Condensate Tank.jpg



Shower 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Water dispenser.jpg



Toilets.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Oil and Gas Boiler.jpg



Closed Well and tank 3.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Hazardous Materials Store at Neutralization Tank.jpg



Water treatment for boiler 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Hazardous Materials Store.jpg



Hazardous Materials Store 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Closed Well and tank.jpg



Oil Tank 100000 m3 capacity used for emergency power.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Bio Mass Boiler.jpg



Well not operational 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



WASH 2.jpg



Toilet 3.jpg



Hazardous Materials Store 3.jpg

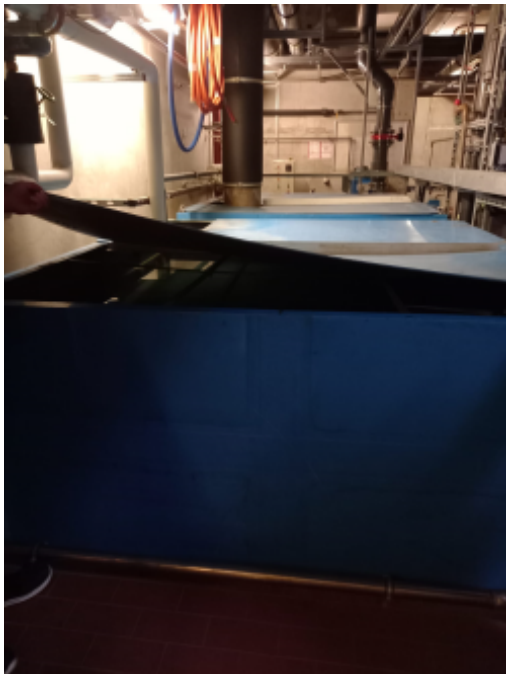
CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Water Tobacco filter.jpg



Condensate Tank 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Closed Well and tank 2.jpg



Water treatment for boiler 3.jpg



Toilets 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Overflow rain water.jpg



Yes

Comment	<p>The onsite site visit included the assessment of the following sites as part of the audit.</p> <ol style="list-style-type: none">1. Water tank for cooling towers2. Water tank for firefighting water3. Pressure tank for sprinkler4. Incoming water point5. Break room/rest room and drinking water point6. Condensate tank7. Water Treatment Plant for boilers8. Boiler Room – Oil & gas; Gas & Biomass Boilers9. Feed Water tank after treatment – 13000 litres10. Oil tank 100,000 m3 used for emergency power and boiler11. Overflow rain water canal12. Waste Oil tank13. Hazardous Materials/Chemical stores at Casings & Flavours Department14. Neutralization Tank15. Water/Tobacco Filter System16. Deep Well and Tank onsite (Not operational)17. Outgoing water point
---------	--

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Well not operational.jpg



Neutralization tank.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Hazardous Materials Store 5.jpg



Feed Water Tank after treatment.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Overflow rain water 2.jpg



Pressure tank for Sprinklers 2.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Drainage.jpg



Waste Oil Tank - no spill kit.jpg

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000652



Break Room Rest Room.jpg



Closed Well and tank 4.jpg