

Client Name: Tyson Prepared Foods – North Richland Hills Plant

AWS Registration Number: AWS-000385

Client Representative: Brittany Craig, Sustainability Associate

Audit Team: Jillian Olsen/Lead Auditor
Rae Mindock/Team Auditor

Audit Dates: December 13, 2021

Stakeholder Notification: SCS and AWS Websites 10/18/2021,
Local Newspaper, 11/1/2021

Site Location: 6350 Browning Ct., North Richland Hills, TX 76180

Report Date: January 17, 2022

Standard: AWS International Water Stewardship Standard - Version 2.0, March 22, 2019

Audit Type	☐ Gap Analysis ☐ Pre-assessment	☒ Initial Certification	☐ Surveillance ☐ Recertification
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Level of Certification	☒ Core	☐ Gold	☐ Platinum
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Site Information

Site Description

The Tyson North Richland Hills facility is primarily engaged in the production of pepperoni and other cooked meat products. Raw meat is delivered to the facility, as well as spices and other ingredients. Meats are blended and prepared as specified by the customer, sliced and packaged for shipment.

The plant receives water from the City of North Richland Hills. The City of North Richland Hills does not supply or treat raw water; the city purchases treated water from the City of Fort Worth. The City of Fort Worth purchases raw water from the Trinity River Water District for treatment and sells treated water to customer cities including the City of North Richland Hills. The City of Fort Worth uses surface water from Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir, Cedar Creek Reservoir, Lake Benbrook and the Clear Fork Trinity River. The Trinity River Authority (TRA) uses surface water from Lake Arlington.

The water-related infrastructure at the factory was mapped to include: the incoming municipal water supply line, two (2) ammonia diffusion tank locations, 10,000-gallon hot water storage tank location (used for production area cleaning and sanitation), sanitary sewer discharge, stormwater discharge, and industrial discharge.

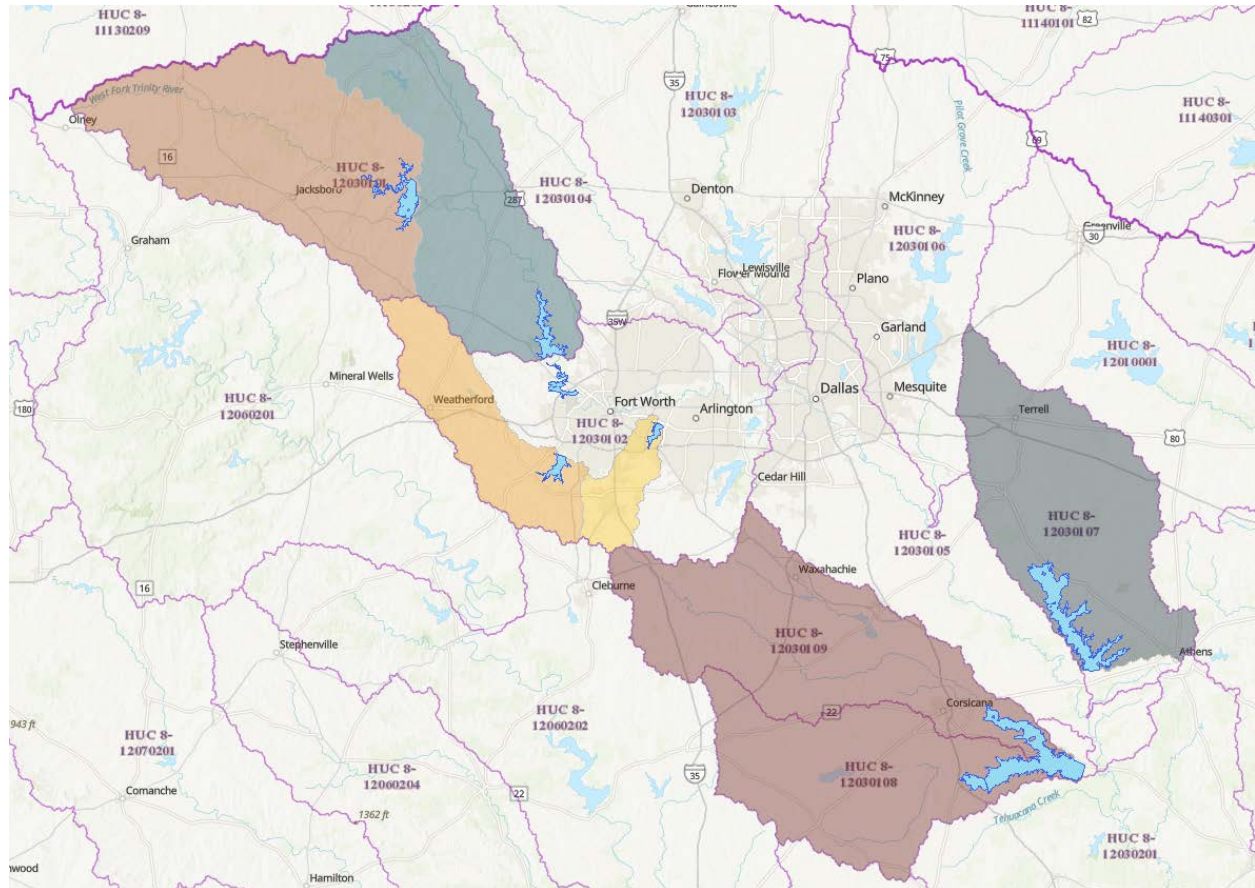
The Tyson North Richland Hills facility's wastewater is pretreated onsite prior to discharge directly to the City of North Richland Hills. The onsite pretreatment process includes screening to remove solids, neutralization and a DAF system. Wastewater effluent from the pretreatment plant is discharged in accordance with the requirements of the facility's permit to the City of North Richland Hills. The City of North Richland Hills does not directly treat the wastewater. The city conveys untreated/pretreated wastewater to the City of Fort Worth. The City of Fort Worth treats the wastewater at the Village Creek Water Reclamation Facility. Treated effluent is discharged into the West Fork of the Trinity River.

Catchment Description

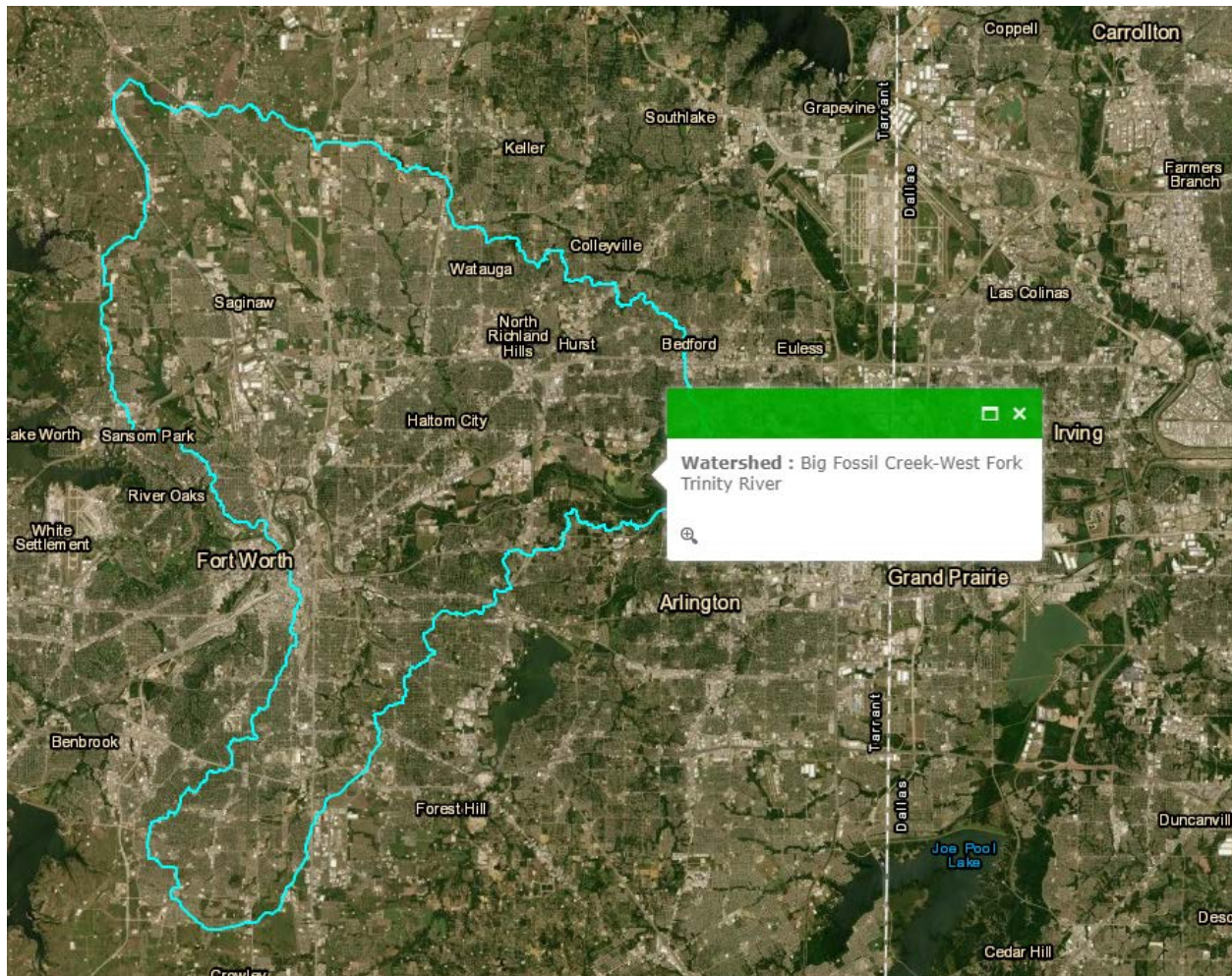
The Tyson North Richland Hills Complex resides in the Hydrologic Unit Code 10 (HUC-10) Big Fossil Creek-West Fork Trinity River #1203010205 catchment. The catchment is approximately 130,154.45 acres spanning from Lake Bridgeport area near Bridgeport, TX and southeast to Richland-Chambers Reservoir and Cedar Creek Reservoir near Athens, TX.

The catchment includes the primary water sources (Trinity River Water District surface water sources) and the discharge recipient (onsite wastewater pre-treatment plant and City of Fort Worth/Village Creek Water Reclamation Facility discharge to West Fork Trinity River).

Trinity River Water District Source Water Catchment



North Richland Hills Plant and Village Creek Wastewater Treatment Plant Watershed



Shared Water Challenges

Shared water challenges are catchment water-related issues shared by the site and stakeholders. Stakeholder engagement was documented, and auditor interviews confirmed the topics of engagement. Primary water-related risks to the site include water quantity (availability to meet future demand for population growth) and quality (point and non-point source bacteria loading and presence of zebra mussels). A prioritized list of shared water challenges addressing the outcomes was provided.

Shared water challenges were addressed through stakeholder engagement, including scheduled meetings with: City of Fort Worth, North Central Texas Council of Governments, and Tarrant Regional Water District to understand issues and opportunities for improvement, the electric utility supplier to understand electric utility generation and potential embedded water usage, and agricultural contractors to discuss water stewardship actions.

Audit Attendees

Participant/Title	Opening Meeting	Document Review	Site Inspection	Closing Meeting
Team Leader Environmental	X	X	X	X
Sustainability Associate	X	X	X	X
Facility Environmental	X	X	X	X
External Stakeholders: Tarrant Regional Water District, Texan By Nature Internal Stakeholders: Environmental Manager, Environmental Services Director, Sustainability Associate				
Supporting Documentation: The Tyson North Richland Hills Plant provided documentation using SharePoint file share to support conformity with the AWS Standard v2.0 including: Stakeholder Outreach Log, NRH Water Schematic, Catchment Water Balance, Site Water Balance and Water Stewardship Plan. The Water Stewardship Plan is a working document which is continually updated with information regarding how shared water challenges are being addressed including progress, performance evaluation and stakeholder feedback. Other supporting documentation were also provided as evidence.				

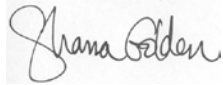
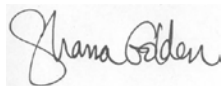
Summary of Findings

Step	Major	Minor	Observations	Advanced Criteria Total Points
1. Gather & Understand				
2. Commit & Plan				
3. Implement				
4. Evaluate			1	
5. Communicate & Disclose				
TOTAL	0	0	1	n/a

Audit Non-conformities and Observations

Non-Conformity (Major or Minor) or Observation	Citation	Criteria/ Indicator	Due Date	Detail and Corrective Action
Observation	OBS 2021.1	4.1.1	NR	To improve clarity in the Water Stewardship Plan, consider associating completed activities directly to each long-term target.
				Root Cause Analysis and Corrective Action Not required for observations.

Certification Decision

<i>Auditor's recommendation for initial, continued or re-certification based on compliance with requirements:</i>	X	Recommended
		Not Recommended
<i>Level of Certification recommended</i>	X	AWS Core
		AWS Gold
		AWS Platinum
<i>SCS Certification Decision:</i>	X	Approved
		Denied
<i>Certification Decision by:</i>		 Shana Golden
<i>Technical Review by:</i>		 Shana Golden
<i>Date of Decision:</i>		January 10, 2022
<i>Surveillance Schedule:</i>		Next audit is scheduled for: January 2023 12 Month Surveillance schedule per AWS requirements

AWS International Water Stewardship Standard, Version 2.0, March 22, 2019

Surveillance audits shall cover at a minimum those requirements highlighted in light green.

STEP 1: Gather and Understand

Criteria	Indicator	Yes	No	NA	Objective Evidence/Finding	Points
1.1 Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant.	1.1.1 The physical scope of the site shall be mapped , considering the regulatory landscape and zone of stakeholder interests, including: - Site boundaries; - Water-related infrastructure, including piping network, owned or managed by the site or its parent organization; - Any water sources providing water to the site that are owned or managed by the site or its parent organization; - Water service provider (if applicable) and its ultimate water source; - Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies; - Catchment(s) that the site affect(s) and is reliant upon for water.	Yes			The Tyson North Richland Hills facility is primarily engaged in the production of pepperoni and other cooked meat products. Raw meat is delivered to the facility, as well as spices and other ingredients. Meats are blended and prepared as specified by the customer, sliced and packaged for shipment. The plant receives water from the City of North Richland Hills. The City of North Richland Hills does not supply or treat raw water; the city purchases treated water from the City of Fort Worth. The City of Fort Worth purchases raw water from the Trinity River Water District for treatment and sells treated water to customer cities including the City of North Richland Hills. The City of Fort Worth uses surface water from Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir, Cedar Creek Reservoir, Lake Benbrook and the Clear Fork Trinity River. The Trinity River Authority (TRA) uses surface water from Lake Arlington. The water-related infrastructure at the factory was mapped to include: the incoming municipal water supply line, two (2) ammonia diffusion tank locations, 10,000-gallon hot water storage tank location (used for production area cleaning and sanitation), sanitary sewer discharge, stormwater discharge, and industrial discharge. The Tyson North Richland Hills facility's wastewater is pretreated onsite prior to discharge directly to the City of North Richland Hills. The onsite pretreatment process includes screening to remove solids, neutralization and a DAF system. Wastewater effluent from the pretreatment plant is discharged in accordance with the requirements of the facility's permit to the City of North Richland Hills. The City of North Richland Hills does not	

					directly treat the wastewater. The city conveys untreated/pretreated wastewater to the City of Fort Worth. The City of Fort Worth treats the wastewater at the Village Creek Water Reclamation Facility. Treated effluent is discharged into the West Fork of the Trinity River. The Tyson North Richland Hills facility resides in the Hydrologic Unit Code 10 (HUC-10) Big Fossil Creek-West Fork Trinity River #1203010205 catchment. The catchment is approximately 130,154.45 acres spanning from Lake Bridgeport area near Bridgeport, TX and southeast to Richland-Chambers Reservoir and Cedar Creek Reservoir near Athens, TX. The catchment includes the primary water sources (Trinity River Water District surface water sources) and the discharge recipient (onsite wastewater pre-treatment plant and City of Fort Worth/Village Creek Water Reclamation Facility discharge to West Fork Trinity River). The catchment area is defined and mapped.	
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			The stakeholder log provided by Tyson North Richland Hills Plant was reviewed. The stakeholder log includes identification of authorities (municipalities), businesses (economic neighbors), and NGOs. Stakeholders identified include agricultural contractors, City of Fort Worth, Trinity River Water Authority, North Central Texas Council of Governments, Calpine, Denali Water Solutions, Tarrant Regional Water District, and Texan by Nature. The Outreach log included individuals and organizations consulted with since 2020, including notes on conversations which provided information on water-related interests/challenges. The summary includes actions, follow-up and feedback. The Outreach log also includes ranking of stakeholder influence and interest with targeted levels of engagement defined.	

	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			Stakeholders are related to the site's catchment and process identifies the stakeholders' ability to influence or be influenced. Influence/Interest is characterized (low to high) and further describe opinions towards Tyson North Richland Hills Plant's operations.	
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			The Water Stewardship Plan and Spill Prevention Control Countermeasure Plan (SPCC) were reviewed. Incident response was addressed in the plans.	
	1.3.2 Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped .	Yes			Tyson North Richland Hills Plant provided water maps and data containing inputs and outputs of water at this facility. Data showing water inflows, outflows, storage and losses for the production processes at the factory were reviewed. The provided map and data indicate water sources, water treatment and water effluents.	
	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			Tyson North Richland Hills Plant provided water usage data containing inputs and outputs of water at this facility. Tyson North Richland Hills Plant utilizes calendar year 2019 as the baseline year from which to calculate improvements in their water usage rate. The long-term goal for water use improvement is a 20% overall reduction in withdrawal for process use, measured annually in terms of water intensity gallons per pound of product produced. The 2019 water intensity goal was 1.22 gallons per finished pound of product. The final 2019 water intensity was 0.98 gallons per finished pound, for the baseline year. The 2020 water intensity goal was 0.97 gallons per finished pound of product. The Tyson North Richland Hills Plant finished the year with a water intensity of 1.00, 3% above the target. Production volume loss related to the COVID-19 pandemic created a large impact to plant output, disrupting volume efficiencies achieved in FY19. The plant continues to work to reduce the need for water withdrawal and consumption by striving to meet its water intensity goal and look at innovative ways to become more water efficient.	
	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	Yes			The water quality report from the City of North Richland Hills was provided with detailed information showing that the water meets state and federal drinking water standards. Tyson North Richland Hills Plant provided the monthly effluent summary sample results that are required by their wastewater permit, which are also submitted to City of North Richland Hills.	

	appropriate, seasonal, high and low variances shall be quantified .					
	1.3.5 Potential sources of pollution shall be identified and if applicable, mapped , including chemicals used or stored on site.	Yes			A list of all chemicals stored at the site, their location, and typical quantities were provided in the SPCC Plan. The chemicals located within the Plant are mapped in the SPCC Plan.	
	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			Tyson North Richland Hills Plant did not identify any on-site IWRAs. Based on review of the stakeholder engagement and feedback provided, stakeholders are in agreement that there are no on-site IWRAs at the Tyson facility.	
	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			Site level costs were presented and reviewed, including costs to implement water stewardship-related projects. Tyson Foods, Inc. Annual Report for 2020 (prepared foods segment) was also provided and reviewed, which described revenues.	
	1.3.8 Levels of access and adequacy of WASH at the site shall be identified .	Yes			WASH is available on-site with potable water and toilets for employees and visitors. The facility is required to comply with the Occupation Safety and Health Administration (OSHA) regulations requiring access and adequacy of WASH at the site.	
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			There are no primary inputs to the Tyson North Richland Hills Plant located within the site's catchment.	
	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			Tyson North Richland Hills identified Aramark laundry services as an outside service with embedded water use. Tyson requested information from Aramark on the water usage for the facility and the documentation of the engagement was reviewed. Aramark has not provided a response.	
	1.4.3 Advanced Indicator The embedded water use of primary inputs in catchment(s) of origin shall be quantified .				Advanced Indicators were not considered for this site.	

1.5 Gather water-related data for the catchment, including: water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH	1.5.1 Water governance initiatives shall be identified , including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.	Yes			Information on publicly-led initiatives and water-related public policy goals for the catchment was provided at the state and regional level. Tyson North Richland Hills maintains stakeholder communication with the Tarrant Regional Water District and City of Fort Worth (ultimate source water supplier and wastewater recipient).	
	1.5.2 Applicable water-related legal and regulatory requirements shall be identified , including legally-defined and/or stakeholder-verified customary water rights.	Yes			A list of federal, state, local permits and regulatory requirements was provided, including permits issued by the Texas Commission on Environmental Quality and City of North Richland Hills. List of relevant and applicable legal and other requirements were also reviewed.	
	1.5.3 The catchment water-balance, and where applicable, scarcity, shall be quantified , including indication of annual, and where appropriate, seasonal, variance.	Yes			The catchment water balance with precipitation, groundwater withdrawal/pumping data, and outflows data was provided for the Tyson Seguin Processing Plant catchment. Data was compiled by the Texas Water Development Board – Texas State Water Plan for water Planning Region C. As indicated in the water stewardship plan, the site has engaged to work with catchment stakeholders to identify water savings initiatives and opportunities to generate a net positive change in available water capacity in the catchment.	
	1.5.4 Water quality, including physical, chemical, and biological status, of the catchment shall be identified , and where possible, quantified . Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified .	Yes			A description of the catchment surface water quality status was provided. Information on biological status of the catchment was also provided. City of North Richland Hills water reports were also provided stating that the water is treated according to federal and state standards to remove any possible harmful contaminants.	
	1.5.5 Important Water-Related Areas shall be identified , and where appropriate, mapped , and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.	Yes			IWRAs have been identified and mapped by Tyson North Richland Hills Plant, along with a description of their water-related issues. IWRAs include: Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir, Cedar Creek Reservoir, Lake Benbrook, Clear Fork Trinity River, and Lake Arlington.	

	1.5.6 Existing and planned water-related infrastructure shall be identified , including condition and potential exposure to extreme events.	Yes			Infrastructure includes imported water infrastructure, and existing onsite water and wastewater infrastructure. The condition of identified infrastructure is indicated to be good with no concerns or immediate planned need for upgrades at this time.	
	1.5.7 The adequacy of available WASH services within the catchment shall be identified .	Yes			WASH for the catchment is adequate based on compliance and demographic information.	
	1.5.8 Advanced Indicator Efforts by the site to support and undertake catchment level water-related data collection shall be identified .				Advanced Indicators were not considered for this site.	
	1.5.9 Advanced Indicator The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified .				Advanced Indicators were not considered for this site.	
1.6 Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.	1.6.1 Shared water challenges shall be identified and prioritized from the information gathered.	Yes			A prioritized list with rationale of shared water challenges was provided and reviewed. Drivers and public-sector agency efforts are noted as well. Water quantity is prioritized as first. Tyson North Richland Hills Plant challenges were prioritized based on stakeholder feedback and corporate initiatives.	
	1.6.2 Initiatives to address shared water challenges shall be identified .				A list of initiatives was provided and reviewed. Initiatives are identified in the plans.	
	1.6.3 Advanced Indicator Future water issues shall be identified , including anticipated impacts and trends				Advanced Indicators were not considered for this site.	
	1.6.4 Advanced Indicator Potential water-related social impacts from the site shall be identified , resulting in a social impact assessment with a particular focus on water.				Advanced Indicators were not considered for this site.	
1.7 Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting	1.7.1 Water risks faced by the site shall be identified , and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.	Yes			A prioritized list of water risks was provided and reviewed. Water risks matched shared water challenges. Water quantity (related to working with Tarrant Regional Water District to complete a water loss audit) and reputational risk from water use in general are prioritized.	

the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends identified in 1.6.	1.7.2 Water-related opportunities shall be identified , including how the site may participate, assessment and prioritization of potential savings, and business opportunities.	Yes			A prioritized list of water-related opportunities was provided for the site and match the shared water challenges and water risks lists. First priority is based on water quantity and focused on water usage and potential for reducing losses at the facility. A list of projects, savings and value creation was submitted and reviewed. Value creation was quantified, as applicable.	
1.8 Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.	1.8.1 Relevant catchment best practice for water governance shall be identified .	Yes			Tyson North Richland Hills Plant has identified multiple best practices toward achieving AWS outcomes at the site and in the catchment. The following best practices are examples for Indicators 1.8.1 - 1.8.5. Tyson North Richland Hills Plant engages with catchment authorities and other stakeholders to share information, practices and drive water stewardship practices. Tyson North Richland Hills Plant identified the Texas State Water Plan as a best practice in the catchment to bring stakeholders to one table to support water governance.	
	1.8.2 Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified .	Yes			Tyson Seguin Processing Plant identified that Tyson Foods operates a water intensity goal for the company at each location based on the type of food production. As referenced under 1.3.3, the North Richland Hills Plant has a water intensity target to meet each fiscal year. Additionally, the Texas State Water Plan is identified as the catchment best practice for water balance. The Texas State Water Plan notes that the region's primary water use is municipal supply, and therefore water use efficiency is increasingly important.	
	1.8.3 Relevant sector and/or catchment best practice for water quality shall be identified , including rationale for data source.	Yes			Tyson Seguin Processing Plant focuses on maintaining catchment water quality and monitoring for changes in water quality through adherence to the effluent (wastewater and stormwater) parameter limits in the facility permits, continual housekeeping and grounds maintenance, and BMPs.	
	1.8.4 Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified .	Yes			Tyson North Richland Hills Plant seeks to continue looking at water efficiency practices within production, collaborating with the water district, and continue to practice good BMPs of the stormwater and wastewater programs to maintain the catchment IWRAs.	
	1.8.5 Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified .	Yes			Tyson North Richland Hills Plant maintains compliance with applicable OSHA standards related to WASH.	

Advanced Points Step 1	
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STEP 2: Commit and Plan						
Criteria	Indicator	Yes	No	NA	Objective Evidence/Findings	Points
2.1 Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.	2.1.1 A signed and publicly disclosed site statement OR organizational document shall be identified . The statement or document shall include the following commitments: - That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - That the site implementation will be aligned to and in support of existing catchment sustainability plans - That the site's stakeholders will be engaged in an open and transparent way - That the site will allocate resources to implement the Standard.	Yes			A pledge, signed by the Plant Manager, was reviewed containing all elements described in this indicator.	
	2.1.2 Advanced Indicator A statement that explicitly covers all requirements set out in Indicator 2.1.1 and is signed by the organization's senior-most executive or governance body and publicly disclosed shall be identified .				Advanced Indicators were not considered for this site.	
2.2 Develop and document a process to achieve and maintain legal and regulatory compliance.	2.2.1 The system to maintain compliance obligations for water and wastewater management shall be identified , including: - Identification of responsible persons/positions within facility organizational structure	Yes			The Tyson North Richland Hills Plant online portal system (Enablon) for compliance tracking was reviewed. Included in the system are the listed permits and responsible staff to ensure maintenance of compliance. A third-party is contracted to confirm compliance is maintained.	

	- Process for submissions to regulatory agencies.					
2.3 Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.	2.3.1 A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.	Yes			The Tyson Water Risk Assessment was provided and reviewed. The Tyson Water Risk Assessment is a high-level document which includes the overall water stewardship strategy of the organization and is in alignment with the AWS requirements.	
	2.3.2 A water stewardship plan shall be identified , including for each target: - How it will be measured and monitored - Actions to achieve and maintain (or exceed) it - Planned timeframes to achieve it - Financial budgets allocated for actions - Positions of persons responsible for actions and achieving targets - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.	Yes			A detailed water stewardship plan was created as part of the AWS process. The plan is broken into objectives, targets, and actions. There are different actions corresponding to different targets, each with their own metrics, budget, responsible person, status, and other criteria. Water Quality, Water Quantity, Water Governance, IWRAs, and WASH are the water topics identified in this plan.	
	2.3.3 Advanced Indicator The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same organizational ownership) shall be identified and described.				Advanced Indicators were not considered for this site.	
	2.3.4 Advanced Indicator The site's partnership/water stewardship activities with other sites in another catchment(s) (either under same				Advanced Indicators were not considered for this site.	

	corporate structure or with another corporate site) shall be identified .					
	2.3.5 Advanced Indicator Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which stakeholders are involved shall be identified .				Advanced Indicators were not considered for this site.	
2.4 Demonstrate the site's responsiveness and resilience to respond to water risks	2.4.1 A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified .	Yes			Tyson North Richland Hills Plant provided their current SPCC plan, which included a description of their required responses and resilience operations to water-related issues and risks. Modifications to the plans are captured through revision/amendment comments as needed and an annual review is part of standard procedures to evaluate the plans effectiveness. In addition, the Water Stewardship Plan is a working document which documents identification of water risks through performance, evaluation, and stakeholder consultation. Stakeholders include the relevant public-sector agencies responsible for infrastructure.	
	2.4.2 Advanced Indicator A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified .				Advanced Indicators were not considered for this site.	
Advanced Points Step 2						
STEP 3: Implement						
Criteria	Indicator	Yes	No	NA	Objective Evidence/Findings	Points
3.1 Implement plan to participate positively in catchment governance.	3.1.1 Evidence that the site has supported good catchment governance shall be identified .	Yes			Tyson North Richland Hills Plant provided documentation of their efforts to support good catchment governance through their involvement with North Central Texas Watershed Stakeholders meeting, North Central Texas Council of Governments (use of available tools and webinar attendance),	

					Texas Water Action Collaborative, Texan by Nature, and support of the Texas State Water Plan.	
	3.1.2 Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented .	Yes			Water rights with respect to ground water in Texas are identified as belonging to the landowner.	
	3.1.3 Advanced Indicator Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified .				Advanced Indicators were not considered for this site.	
	3.1.4 Advanced Indicator Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water governance of the catchment shall be identified .				Advanced Indicators were not considered for this site.	
3.2 Implement system to comply with water-related legal and regulatory requirements and respect water rights.	3.2.1 A process to verify full legal and regulatory compliance shall be implemented .	Yes			The Tyson North Richland Hills Plant online portal system (Enablon) for compliance tracking was reviewed. Included in the system are the listed permits and responsible staff to ensure maintenance of compliance.	
	3.2.2 Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented .	Yes			The Tyson North Richland Hills Plant receives its water from a municipal supplier and does not infringe on the rights of others, including indigenous peoples. Tyson's discussions with stakeholders did not indicate actual or perceived concern that site was impinging on human right to safe water and sanitation in catchment.	
3.3 Implement plan to achieve site water balance targets.	3.3.1 Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified .	Yes			Water usage is tracked monthly and compared to facility goals, as well as prior year's monthly values. The site has worked to improve its water efficiency as per its targets, by implementing the following measures: water leak identification, assessment of reduction of water in sludge, increased tracking of water, evaluation of future projects to drive water re-use or reduction of use related to cooling towers.	
	3.3.2 Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented .	Yes			Tyson North Richland Hills Plant establishes site targets annually to improve water balance towards improving efficiency and strives to reduce volumetric total.	

	3.3.3 Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified .	Yes			The site is not re-allocating water savings.	
	3.3.4 Advanced Indicator The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified .				Advanced Indicators were not considered for this site.	
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			Wastewater results are within permitted values. Tyson North Richland Hills Plant also monitor nitrate in wastewater sludge for proper nutrient application in sludge, which will improve catchment water quality.	
	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			Water quality is not identified as a shared water challenge. The Tyson North Richland Hills plant continues to monitor the effluent pretreatment system onsite and nitrate levels in the sludge.	
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 .	Yes			Tyson North Richland Hills Plant is actively engaging with stakeholders and documenting that engagement toward activities to develop and/or support plans to improve catchment IWRAs.	
	3.5.2 Advanced Indicator Evidence of completed restoration of non-functioning or severely degraded Important Water-Related Areas including where appropriate cultural values from a site-selected baseline date shall be identified . Restored areas may be outside of the site, but within the catchment.				Advanced Indicators were not considered for this site.	

	3.5.3 Advanced Indicator Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the healthy status of Important Water-Related Areas in the catchment shall be <i>identified</i>.				Advanced Indicators were not considered for this site.	
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 <i>identified</i> and where applicable, <i>quantified</i>.	Yes			The facility is required to comply with the Occupation Safety and Health Administration (OSHA) regulations requiring access and adequacy of WASH at the site. The nature of the products made at the facility requires strict adherence to these principals.	
	3.6.2 Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for Indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.	Yes			The facility is required to comply with the Occupation Safety and Health Administration (OSHA) regulations requiring access and adequacy of WASH at the site. Tyson North Richland Hills Plant is not impacting WASH of communities. Tyson North Richland Hills Plant discussions with stakeholders did not indicate actual or perceived concern that site was impinging on human right to safe water and sanitation in catchment.	
	3.6.3 Advanced Indicator A list of actions taken to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness shall be <i>identified</i>.				Advanced Indicators were not considered for this site.	
	3.6.4 Advanced Indicator In catchments where WASH has been <i>identified</i> as a shared water challenge, evidence of efforts taken with relevant public-sector agencies to share information and to advocate for change to				Advanced Indicators were not considered for this site.	

	address access to safe drinking water and sanitation shall be identified .					
3.7 Implement plan to maintain or improve indirect water use within the catchment.	3.7.1 Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified .	Yes			Indirect water use targets in the Water Stewardship Plan include an overall reduction of water intensity at year 10 (baseline 2019). Evidence indicates that the facility is trending toward achieving target.	
	3.7.2 Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified .	Yes			Tyson North Richland Hills Plant has engaged primary service providers (Denali Water Solutions) on sludge application efficiency.	
	3.7.3 Advanced Indicator Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated .				Advanced Indicators were not considered for this site.	
3.8 Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.	3.8.1 Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified .	Yes			Tyson North Richland Hills Plant engages with catchment authorities and other stakeholders regarding shared water-related infrastructure. Ongoing compliance requires routine engagement with the City of North Richland Hills providing feedback or concerns when necessary on water-related infrastructure (wastewater treatment) as well as providing semi-annual reports (SARs). The SARs is a permit requirement providing a breakdown of water volume, discharge volume, waste disposal, peak flow, etc. This ensures the plant is following permit requirements and communicating effectively with the City of NRH.	
3.9 Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.	3.9.1 Actions towards achieving best practice, related to water governance, as applicable, shall be implemented .	Yes			Tyson North Richland Hills Plant engages with catchment authorities and other stakeholders to share information, best practices and drive water stewardship efforts. Examples include the collaborative efforts of the Texas State Water Plan, Texas Water Action Collaborative, and Texan by Nature.	
	3.9.2 Actions towards achieving best practice, related to targets in terms of water balance shall be implemented .	Yes			Tyson North Richland Hills Plant consistently returns water to the City of NRH well below the established permit levels. The Plant is also evaluating conversion of the cooling towers to soft water to reduce overall water use. Each of these items are evidence for continual improvement toward water use/reduction in the catchment.	

	3.9.3 Actions towards achieving best practice, related to targets in terms of water quality shall be implemented .	Yes			Tyson North Richland Hills Plant continual monitors water quality of wastewater effluent to ensure compliance is achieved, therefore meeting targets toward best practice for water quality.	
	3.9.4 Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented .	Yes			Tyson Seguin Processing Plant utilizes the best management practices outlined in the facility's SPCC Plan and stormwater permit to ensure protection of water quality beyond the facility fence line, and catchment IWRAs.	
	3.9.5 Actions towards achieving best practice related to targets in terms of WASH shall be implemented .	Yes			Stakeholder engagement indicates there is adequate WASH in the catchment.	
	3.9.6 Advanced Indicator Achievement of identified best practice related to targets in terms of good water governance shall be quantified .				Advanced Indicators were not considered for this site.	
	3.9.7 Advanced Indicator Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified .				Advanced Indicators were not considered for this site.	
	3.9.8 Advanced Indicator Achievement of identified best practices related to targets in terms of water quality shall be quantified .				Advanced Indicators were not considered for this site.	
	3.9.9 Advanced Indicator Achievement of identified best practices related to targets in terms of the site's maintenance of Important Water-Related Areas have been implemented .				Advanced Indicators were not considered for this site.	
	3.9.10 Advanced Indicator Achievement of identified best practice related to targets in terms of WASH shall be quantified .				Advanced Indicators were not considered for this site.	
	3.9.11 Advanced Indicator A list of efforts to spread best practices shall be identified .				Advanced Indicators were not considered for this site.	
	3.9.12 Advanced Indicator				Advanced Indicators were not considered for this site.	

	A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be identified .					
	3.9.13 Advanced Indicator Evidence of the quantified improvement that has resulted from the collective action relative to a site-selected baseline date shall be identified and evidence from an appropriate range of stakeholders linked to the collective action (including both those implementing the action and those affected by the action) that the site is materially and positively contributing to the achievement of the collective action shall be identified .				Advanced Indicators were not considered for this site.	
Advanced Points Step 3						
STEP 4: Evaluate						
Criteria	Indicator	Yes	No	NA	Objective Evidence/Findings	Points
4.1 Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes.	4.1.1 Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated .	Yes			Tyson North Richland Hills Plant has evaluated performance of the Water Stewardship Plan which is aligned with realizing the AWS Outcomes. Targets established in the WSP are tracked based on multiple targets with measurable metrics, and documentation of stakeholder engagement. The evaluation also includes timelines and metrics and describes shared value benefits for each target. Further evaluation will be conducted during the surveillance and renewal audits. OBS 2021.1: To improve clarity in the Water Stewardship Plan, consider associating completed activities directly to each long-term target.	

	4.1.2 Value creation resulting from the water stewardship plan shall be evaluated .	Yes			Tyson North Richland Hills Plant is focused on three areas of value creation: economic, social and environmental. Economic and social value includes job creation, support of city infrastructure and farmers, water-related education for Tyson employees. Environmental value includes lowering emissions through reducing impacts to water and soil.	
	4.1.3 The shared value benefits in the catchment shall be identified and where applicable, quantified .	Yes			Tyson North Richland Hills Plant has identified reduced water usage as a beneficial improvement. Reduction in water usage at the facility is a shared value benefit in the catchment.	
	4.1.4 Advanced Indicator A governance or executive-level review, including discussion of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents shall be identified .				Advanced Indicators were not considered for this site.	
4.2 Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.	4.2.1 A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified .	Yes			Tyson North Richland Hills provided the 2021 Annual Environmental Performance Review document. No water-related emergency incidents have occurred at the facility.	
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			Internal and external stakeholder outreach was conducted and documented in the Stakeholder Table and evidence notes. Responses covered the main topics of water quality, water quantity, and agricultural issues.	
	4.3.2 Advanced Indicator The site's efforts to address shared water challenges shall be evaluated by stakeholders. This shall include stakeholder reviewing of the site's efforts across all five outcome areas, and their suggestions for continual improvement.				Advanced Indicators were not considered for this site.	

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			The Water Stewardship Plan is a working document updated annually to reflect on-going actions and completed projects. The WSP tracks targets, timelines, metrics and actions tied to best practice and AWS outcomes addressed.	
Advanced Points Step 4						
STEP 5: Communicate and Disclose						
Criteria	Indicator	Yes	No	NA	Objective Evidence/Findings	Points
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 .	Yes			Tyson North Richland Hills Plant provided the list of personnel responsible for the site's water-related internal governance. The list of responsible personnel is disclosed to internal stakeholders and relevant external stakeholders (i.e. regulatory agencies).	
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			Tyson North Richland Hills Plant provided a stakeholder table that details communication with stakeholders about the AWS process. The WSP was communicated to relevant stakeholders.	
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			Tyson North Richland Hills Plant prepared a summary of the site's water stewardship performance, including quantified performance of their water use reduction goal. Evidence of disclosure of the summary to stakeholders was provided.	
	5.3.2 Advanced Indicator The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report.				Advanced Indicators were not considered for this site.	
	5.3.3 Advanced Indicator				Advanced Indicators were not considered for this site.	

	Benefits to the site and stakeholders from implementation of the AWS Standard shall be quantified in the organization's annual report.					
5.4 Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.	5.4.1 The site's shared water-related challenges and efforts made to address these challenges shall be disclosed .	Yes			Tyson North Richland Hills Plant engaged with stakeholders directly regarding the shared water challenges of water quantity in the catchment. Tyson provided evidence of the continued engagement and disclosure of their efforts toward addressing the shared water challenges.	
	5.4.2 Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified .	Yes			See 5.4.1.	
5.5 Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.	5.5.1 Any site water-related compliance violations and associated corrections shall be disclosed .	Yes			There were no water-related compliance violations at the Tyson North Richland Hills Plant.	
	5.5.2 Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.	Yes			See 5.5.1	
	5.5.3 Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed .	Yes			Violations are publicly available through state and federal reporting (ECHO/US EPA). There were no violations reported via ECHO. The ECHO reporting system would include violations that pose a significant risk and threat to human or ecosystem health.	
Advanced Points Step 5						