

Official Draft Public Notice Version **May 4, 2021**

The findings, determinations, and assertions contained in this document are not final and subject to change following the public comment period.

**STATEMENT OF BASIS
TYSON FRESH MEATS, INC
INDUSTRIAL USER
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES)
PRETREATMENT PERMIT NO. UTP000060**

FACILITY CONTACT

Facility Contact
Adam Konopasek
Senior Area Environmental Manager
(605) 235-4801

Facility and Mailing Address
3817 North Tyson Parkway
Eagle Mountain, Utah 84005

Signatory Authority
Tom Sharp
Complex Manager
(801) 789-2040

DESCRIPTION OF FACILITY

Tyson Fresh Meats, Inc (Tyson) is a food processor of beef and pork products. The facility also has cold storage for these products.

Daily facility operations consist of three shifts working continuously producing a million pounds of meat products. Operations at the facility may occur on holidays and weekends based on production needs.

Tyson has been classified as a significant industrial user due to the flow volume and pollutant load discharged to the publicly owned treatment works (POTW). Limitations for the plant effluent will be based on protecting the POTW from pass through and interference from the process wastewater. The wastewater will be treated utilizing screening, a gas energy mixing (GEM) system and pH neutralization.

Sludge and screening material generated as part of the process will be disposed of by either land application or an off-site facility. Hauled material must be disposed of properly and records must be maintained regarding the disposal.

DESCRIPTION OF DISCHARGE

Wastewater is generated from cutting, bagging, and cleaning as part of the production process. Discharge from the production is estimated at an average of 360,000 gallons per day with a daily maximum flow of 500,000 gallons per day. Wastewater is also discharged from non-contact cooling water and is estimated at an average of 62,000 gallons per day. The discharge of both product wastewater and cooling water will be continuous throughout the day.

Outfall 001 is the monitoring located for the facility and is located at a latitude of 40° 18'02.6" North and a longitude of 112° 04'40.5" West. Process wastewater will not be comingled with non-process wastewater the at the discharge point. The discharge point is on the north side of the wastewater treatment building, in manhole #5.

SLUG CONTROL PLAN

Tyson has not been evaluated for a slug control plan although all of the process wastewater from the facility flows into the pretreatment system. Based on the facility being a new significant industrial user, an evaluation of the facility will be completed within the first year of the permit being issued to determine if a slug control plan is necessary. If facility conditions change, Tyson must notify Eagle Mountain and the Division of Water Quality (DWQ) of possible issues related to slug potential immediately.

Permit requirements for a slug control plan are found in Part I.D(7) of the permit. The DWQ Director (Director) will notify Tyson if a slug control plan is determined necessary. Tyson will have 90 days to develop a slug control plan following the notification as required in the permit.

EFFLUENT LIMITATIONS

Utah Administrative Code (UAC) R317-8-8.5 contains general and specific prohibitions which must be achieved by all non-domestic sources of pollutants. Pollutants introduced into a POTW by a non-domestic source shall not pass through the POTW or interfere with the operation or performance of the POTW.

A reasonable potential analysis was not completed for this facility because the facility does not discharge directly to waters of the State, instead, the facility discharges to a POTW and is regulated by pretreatment standards.

The daily minimum limit for pH is based on the prohibited standard found in *R317-8-8.5(3)(b)*. The daily maximum limit for pH is based on not allowing waste that would otherwise be classified as hazardous waste from being discharge to the POTW, *40 CFR 261.22*. The limit is slightly more stringent than stated in *40 CFR 261.22(a)(1)*; this is to protect the POTW and POTW personnel from wastewater that could be corrosive.

Limits for oil and grease are based on best professional judgement. The limit is to protect the wastewater treatment plant and collection system from being impacted by oil and grease build-up. The limits for flow, BOD₅ and TSS were developed based on the capacity of the wastewater treatment system (WWTP). BOD₅ and TSS limits were evaluated by DWQ and determined protective of the POTW. Eagle Mountain WWTP is undergoing an upgrade of its facility. Limits and pretreatment standards are based on the completed WWTP upgrades; therefore, Tyson shall not discharge into the Eagle Mountain POTW prior to completion of the plant upgrades and approval from DWQ.

The values listed in the Effluent Limitations Table below will apply to the discharge from the facility as end of pipe standards.

Effluent Limitations Table			
Parameter	Maximum Monthly Avg	Daily Minimum	Daily Maximum
Flow, MGD	NA	NA	0.50
BOD ₅ , pounds per day	2001	NA	NA
TSS, pounds per day	875	NA	NA
pH, SU	NA	5.0	12.0
Polar - Oil and Grease, mg/L	NA	NA	250

NA – Not Applicable

MONITORING AND REPORTING REQUIREMENTS

The permittee must notify the Director and Eagle Mountain of any violations of the permit including spills or changes at the facility. Notification must also include bypass(es) of any treatment units utilized to treat the process wastewater and any slug, spill or non-customary batch discharge into the POTW. POTW notification must be made to the Eagle Mountain Public Utilities Manager or Public Works Director. If Eagle Mountain does not employ personnel within these positions at the time of notification, the notification must be made to the city manager or mayor and the direct responsible charge (DRC) for the wastewater treatment plant and collection system.

Limits for BOD₅ and TSS will be limited by loading rather than concentration. Tyson must provide for BOD₅ and TSS the concentration on the DMR for reporting purposes.

Limits for phosphorus and total ammonia are not required at this time. Analysis must be conducted to determine loading from Tyson on the POTW. These parameters may be limited by local limits at a later date if determined necessary by the POTW and/or DWQ.

Monitoring requirements, measurement frequencies and sample types were adapted from guidance documents for pretreatment permitting. The wastewater discharge shall be sampled as specified in the Self-Monitoring and Reporting Requirements Table.

Samples must be collected utilizing time-proportioned composite samples for the parameters listed in the permit. Time proportioned samples will be allowed as long as sampling is conducted for 24 hours and an aliquot is taken every 15 minutes. If this condition is not met, the permittee must notify the Director and sampling requirements will need to be based on flow-proportioned composite sampling techniques. Samples for pH must be collected utilizing a grab sample.

Self-Monitoring and Reporting Requirements			
Parameter	Frequency	Sample Type	Units
Total Flow	Continuous	Recorder	MGD
pH	Weekly	Grab/Recorder	SU
Polar Oil and Grease	Monthly*	Grab/Composite	mg/L
Total Ammonia (as N)	Monthly*	Grab/Composite	mg/L
BOD ₅	Monthly*	Composite	mg/L
BOD ₅	Monthly*	Composite	Pounds per day
TSS	Monthly*	Composite	mg/L
TSS	Monthly*	Composite	Pounds per day
Total Phosphorous	Monthly*	Composite	mg/L

* During start-up of the GEM weekly sampling will be required for BOD₅, TSS and oil and grease. Once sampling indicates process stabilization and fluctuations will not be occurring, sampling may be reduced to monthly upon written request from the Permittee and Director approval. Until Director approval is granted, sampling must occur weekly.

All monitoring results and observations shall be summarized on a discharge monitoring report (DMR) form each month. DMRs must be submitted no later than the 28th day of the month following the end of the reporting period. DMRs must either be submitted with monitoring data included or indicate that no discharge occurred for the monitoring month. DMRs shall be submitted via netDMR.

PRETREATMENT REQUIREMENTS

Any wastewater that Tyson discharges to the sanitary sewer, either as a direct discharge or as a hauled waste, is subject to Federal, state of Utah and local pretreatment regulations. Pursuant to Section 307 of the Clean Water Act, the permittee shall comply with all applicable Federal General Pretreatment Regulations promulgated in *40 CFR §403*, the state of Utah Pretreatment Requirements found in *UAC R317-8-8*, and any specific local discharge limitations developed by the POTW accepting the waste.

STORM WATER

This permit does not include storm water requirements. The primary industrial activity at the facility is classified under NAICS¹ Code 311612, Meat Processed from Carcasses. The requirement to obtain coverage under the Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activities is defined by a facility's Standard Industrial Classification (SIC) Code. The equivalent SIC code for this facility is 2013, Sausages and Other Prepared Meat Products which requires permit coverage under Sector U. See Part IV of the permit for

¹ North American Industry Classification System (NAICS) Code

requirements. The following link provides additional information regarding the UPDES Industrial Stormwater Permit

<https://deq.utah.gov/water-quality/general-multi-sector-industrial-storm-water-permit-updes-permits>

Permit coverage under the Construction General Storm Water Permit (CGP) is required for any construction at the facility which disturb an acre or more, or is part of a common plan of development or sale that is an acre or greater. A Notice of Intent (NOI) is required to obtain a construction storm water permit during the period of construction. The following link provides additional information regarding the UPDES Construction General Storm Water Permit

<https://deq.utah.gov/water-quality/general-construction-storm-water-updes-permits>

General UPDES Stormwater Permit requirements can be found at

<http://stormwater.utah.gov>

PERMIT DURATION

It is recommended that this permit be effective for a duration of four (4) years.

PUBLIC NOTICE INFORMATION

This section of the fact sheet will be completed following the public notice period.

PERMIT DEVELOPMENT INFORMATION

Drafted by
Permit, Jennifer Robinson
Stormwater, Carl Adams

Permit DWQ-2021-
Fact Sheet/Statement of Basis DWQ-2021-

Draft Permit DWQ-2021-004596
Draft Fact Sheet/Statement of Basis DWQ-2021-004602

Permit Application Information DWQ-2021-004592,
DWQ-2021-004590, DWQ-2021-004588, DWQ-2021-004586 and DWQ-2021-004584

Public Notice DWQ-2021-004600