COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: May 28, 2019
AGENDA NUMBER: 9
FILE NUMBER: 19-106
ITEM: Oak Glen Creek Pond Expansion Phase 2

RECOMMENDATION: Approve with 5 Stipulations

APPLICANT: Treehouse Foods
7350 Commerce Lane NE
Fridley, MN 55432

PURPOSE: Adding a 24” storm pipe under BNSF Railroad to alleviate flooding in Treehouse Foods loading dock

LOCATION: Northwest of Treehouse Foods, Fridley
APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. The lands and waters that have been or may be covered by the regional flood.

EXHIBITS:
1. Construction Plan set (9 sheets); by City of Fridley, dated 3/28/19, received 5/14/19.
2. Soil Map (3 sheets); by NRCS, dated 4/11/19, received 5/14/19.

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has not received a general review during a pre-application meeting.

Ditches: There is a ditch on the property. The ditch is Oak Glen Creek. The open channel is managed jointly between the City of Friday and Coon Creek Watershed District.

The ditch is a 4th order stream. The ditch serves the primary role of
   a. Trunk drainage system

The ditch serves approximately 0 acres of agricultural land.
Land use in the area is toward commercial/industrial.
There are no flooding concerns upstream and/or downstream.

Ditch Hydraulics: A crossing of the ditch is not proposed. A new culvert is proposed to discharge into the ditch. The proposed discharge location involves the installation of a culvert, flared end section, and riprap. The proposed culvert is of sufficient hydraulic capacity.

Erosion and Sediment Control: Soils affected by the proposal are Lino and Zimmerman.
• Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
• Soil stockpiles have not been proposed.
• Adjacent properties and stormwater ponds are protected from sediment deposition.
• Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have been provided.
• Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
• All storm sewer inlets are protected from sediment-laden water during construction.
• All work adjacent to water or related resource have taken precautions to contain sediment, and stabilize the work area during construction.
• Provisions have been made to minimize transport of sediment (mud) by runoff or vehicle tracking onto the paved surface.
• Provisions have been made for cleaning road surfaces where sediment is transported by the end of the day.
• Construction entrance points are clearly located on the erosion and sediment control plan.
• The erosion and sediment control plan does provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.
• Details provided for ESC (rock construction entrance and inlet protection)

Dewatering: Shallow ground water may exist on site. The project may require dewatering.

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 854.2 feet. The project does not propose to place fill within the floodplain. Compensatory storage is not needed. There are no flooding concerns upstream or downstream.

High Water Flooding: Information substantiating low floor elevations is not required as no new structures are proposed.

Groundwater: Geotechnical information is not required.

The project site is not within the Emergency Response Area, 10 Year Well Head Protection Area, or Drinking Water Supply Management Area.

The proposal does not contain a land use discouraged or prohibited by the Safe Drinking Water Supply Act (SDSA).

Historic Sites: The proposed project does not include sites of historic or archeological significance.
**Local Planning & Zoning:** The proposed project is consistent with local planning and zoning. There is an approved local water plan.

Property owners affected by changes in drainage should be notified and acknowledge the changes proposed.

**Maintenance:** No Stormwater Management features are proposed.

Easements: The proposed project does not include a ditch maintenance easement. A ditch maintenance easement is not required.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is not achieved.

Drainage sensitive uses do not exist downstream from the proposed site. The rate of post-development runoff from the site is expected to exceed predevelopment rates. Increases in volume, velocity, and peak flow rates into the portion of Oak Glen Creek between the railroad tracks and East River Road are expected. The existing pipe beneath East River Road controls the discharge downstream. Improvements to Oak Glen Creek downstream of East River Road were done by assuming the pipe beneath the road was flowing at maximum capacity; therefore, as a result of the improvements there are no concerns downstream due to the increases in volume, velocity, and peak flow rates. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. All on-site constructed storm water conveyance channels are constructed to withstand the expected velocity from a 2-year frequency storm without erosion.

**Water Quality:** The proposed project does not cause an exceedance of State water quality standards. The project does not contribute to the adverse impact of wetlands through inundation or volume of flow. All work adjacent to wetlands, waterbodies and water conveyance systems are protected from erosion. The proposal will not detrimentally affect the existing water quality of the receiving water. The proposal will not cause extreme fluctuations of water levels or temperature changes.

Impairments: This project is within one (1) mile of and drains to an Impaired Water. The Impaired Water is the Mississippi River. The Mississippi River is impaired for Aquatic Life (Macro-invertebrates), Aquatic Recreation (Fecal coliform), and Aquatic Consumption (PCB and Mercury). The major stressors are Total Suspended Solids (TSS), Total Phosphorus (TP), Fecal coliform, PCB, and Mercury. There is an EPA approved Total Maximum Daily Load (TMDL) for this water for Mercury. There is not an EPA approved TMDL for this water for TSS, TP, Fecal coliform or PCB. There is not an approved Waste Load Allocation (WLA) for this water.

There are new impervious surfaces proposed as part of this project.
**Wetlands:** Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated.

**Wetland Replacement Plan:** A wetland replacement plan has not been submitted. and is not required.

**Wildlife:** The proposed project does not include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.
The applicant has not contacted the MDNR natural heritage or endangered species program.

If the project is present, the project does not propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species will occur.

**Performance Escrow:** $2,445.00  
**Wetland Escrow:** $ N/A  
There are not ditch liens on the property.

### ISSUES/CONCERNS:

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<th>ISSUE</th>
<th>NEED</th>
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<tr>
<td>Escrows:  $2,000 + (0.89 ac * $500/ac = $2,445.00)</td>
<td>1. Receipt of escrows.</td>
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<td><strong>Stormwater:</strong> Unclear of maintenance on Rain Guardian.</td>
<td>2. Provide clarity on O&amp;M of Rain Guardian</td>
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| **Soils & Erosion Control:** Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss and do not have a note to stabilize within seven (7) days of inactivity. | 3. Provide an Erosion Control Plan showing the location of sediment trapping BMPs (silt fence, rock check dam, inlet protection, etc.)  
4. Update Construction Plans to address the following:  
a. Soil stockpiles shall be fitted with sediment-trapping measures to prevent soil loss and be stabilized within 7 days of inactivity  
b. Show location of silt fence on plans  
5. Provide statement whether dewatering will be required for the construction of the proposed project. |

Adjacent properties and stormwater ponds are not protected from sediment deposition.

All work adjacent to water or related resource has not taken precautions to contain sediment.

It is unclear if dewatering is needed during the construction of the proposed project.

### RECOMMENDATION: Approve with 5 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide clarity on O&M of Rain Guardian
3. Provide an Erosion Control Plan showing the location of sediment trapping BMPs (silt fence, rock check dam, inlet protection, etc.)
4. Update Construction Plans to address the following:
   a. Soil stockpiles shall be fitted with sediment-trapping measures to prevent soil loss and be stabilized within 7 days of inactivity
   b. Show location of silt fence on plans
5. Provide statement whether dewatering will be required for the construction of the proposed project.