COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: April 8, 2019
AGENDA NUMBER: 25
FILE NUMBER: 18-167
ITEM: Anoka County Sheriff’s Office Gun Range

RECOMMENDATION: Table with 7 Stipulations

APPLICANT: Anoka County
Attn: Andrew Dykstra
2100 3rd Avenue
Anoka, MN 55303

PURPOSE: Existing gravel drive and parking lot will be paved with asphalt

LOCATION: 13299 Hanson Blvd NW, Coon Rapids, MN 55448
APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. One or more cumulative acres of land disturbance
3. The lands and waters that have been or may be covered by the regional flood.
4. High infiltration soils
5. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:

PREVIOUS ACTION TAKEN: This application was determined to be incomplete and was not reviewed by the Board at the March 25, 2019 Board meeting.

FINDINGS:
Pre-application Meeting: The project as submitted has received a general review during a pre-application correspondence.

Ditches: There is not a public ditch on the property.
Ditch Hydraulics: A crossing of the ditch is not proposed.

Erosion and Sediment Control: Soil affected by the proposal is Sartell.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- The proposed infiltration basin and existing adjacent properties are protected from sediment deposition during construction.
- 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.
- 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 have been provided for ESC

Dewatering: Soil borings reach a maximum depth of 6-feet; therefore, it is unknown at what depth groundwater exists. Shallow groundwater may exist on site and dewatering may be required during construction of the proposed infiltration basin.

Floodplain: There is floodplain on the property according to the District model. The District’s floodplain elevation is at 893.2 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 was collected in September 2018. Water was not observed at the boring locations while drilling; therefore, it appears that groundwater was generally below the depths explored at the time of drilling. However, the boring only went 6’ deep which does not provide the depth needed to substantiate the depth to groundwater in the proposed infiltration basin.
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:** It is unknown if the proposed project is consistent with local planning and zoning. There is an approved local water plan.

**Maintenance:** The owner of the Stormwater Management features and treatment practices is Anoka County. The Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
<th>Inspection &amp; Maintenance Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basins</td>
<td>1</td>
<td>Anoka County</td>
</tr>
<tr>
<td>Sumps</td>
<td>3</td>
<td>Anoka County</td>
</tr>
</tbody>
</table>

As a requirement of the County’s JPA, the County will inspect and maintain the stormwater facilities.

**Easements:** The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required. A maintenance access to all storm water management features is provided.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is achieved. The stormwater management system utilizes an infiltration basin. Calculations have been provided that illustrate the 1-inch infiltration volume is achieved below outlet.

Drainage sensitive uses do not exist downstream from the proposed site. The rate of post-development runoff from the site does not exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses. Properties and waterways downstream from the project are protected from erosion due to increases in the volume, velocity and peak water flow rates of stormwater runoff. No concentrated storm water is proposed as part of this project. All on-site constructed storm water conveyance channels have been 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 discharges into stormwater basins are pretreated by a sump. All work adjacent to 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 an Impaired Water. The Impaired Water is Coon Creek. Coon Creek is impaired for Aquatic Life (Macro-invertebrates) and Aquatic Recreation (E. coli). The major stressors are Total Suspended Solids (TSS), Total Phosphorus (TP), and E.coli. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

**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 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 propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species will occur.

**Performance Escrow:** $2,700  
**Wetland Escrow:** $ N/A  
There are not ditch liens on the property.

### ISSUES/CONCERNS:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (1.4 ac * $500/ac) = $2,700</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td><strong>Groundwater:</strong> No soil boring provided at infiltration basin. Soil boring ST-4 reaches a depth of 6-feet (elevation 890.1 feet). Bottom of proposed infiltration basin at elevation 891.6 feet; therefore, boring ST-4 does not sufficiently demonstrate 3-foot separation between groundwater and bottom of basin.</td>
<td>2. MPCA requires soil boring be provided at location of infiltration basin. Provide soil boring at infiltration basin that reaches a minimum elevation of 888.6 feet to substantiate 3-foot separation between groundwater and bottom of basin. Or if practicable, raise bottom of proposed infiltration basin to elevation of 893.1 feet.</td>
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<tr>
<td><strong>Stormwater &amp; Hydraulics:</strong> Unclear that spot elevation of 894.80 on grading plan refers to overflow elevation of infiltration basin.</td>
<td>3. In addition to “BOT = 891.60” and “100-YR HWL = 895.14”, include “EOF = 894.80” in the Infiltration Basin callout on grading plan.</td>
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**Water Quality:** All discharges into infiltration basin are pretreated by a sediment sump manhole. Sheet C11.2 shows three (3) sumps, but the Maintenance Plan Exhibit shows one sump. Detail 10C12 Section view does not include a sump.

4. Update Maintenance Plan Exhibit to callout 3 catch basin sumps.

5. Update detail 10C12 Section view to include a sump with a minimum depth of 4-feet.

**Maintenance:** The owner of the Stormwater Management features and treatment practices is Anoka County. As a requirement of the County’s JPA, the County will inspect and maintain the stormwater facilities. It is unknown if a maintenance plan has been prepared and submitted.

6. Provide a maintenance plan that meets District requirements.

**Wildlife:** The proposed project may include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

7. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

**RECOMMENDATION:** Table with 7 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. MPCA requires soil boring be provided at location of infiltration basin. Provide soil boring at infiltration basin that reaches a minimum elevation of 888.6 feet to substantiate 3-foot separation between groundwater and bottom of basin. Or if practicable, raise bottom of proposed infiltration basin to elevation of 893.1 feet.
3. In addition to “BOT = 891.60” and “100-YR HWL = 895.14”, include “EOF = 894.80” in the Infiltration Basin callout on grading plan.
4. Update Maintenance Plan Exhibit to callout 3 catch basin sumps.
5. Update detail 10C12 Section view to include a sump with a minimum depth of 4-feet.
6. Provide a maintenance plan that meets District requirements.
7. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.